

**DODGE**<sup>®</sup>

# PT COMPONENTS ENGINEERING CATALOG



**BALDOR**<sup>®</sup>  
A MEMBER OF THE ABB GROUP

To receive a copy of the DODGE Bearing Engineering Catalog, DODGE Gearing Engineering Catalog, DODGE Power Transmission Components Engineering Catalog, or DODGE Product Manuals, contact your local authorized DODGE Distributor or [www.baldor.com](http://www.baldor.com).

MEMBER OF . . .



AMERICAN GEAR MANUFACTURERS ASSOCIATION



MECHANICAL POWER TRANSMISSION ASSOCIATION

AFBMA

ANTI-FRICTION BEARING MANUFACTURERS ASSOCIATION



AMERICAN SUPPLY AND MACHINERY MANUFACTURERS ASSOCIATION, INC.



BEARING SPECIALISTS ASSOCIATION



POWER TRANSMISSION DISTRIBUTORS ASSOCIATION



CONVEYOR MANUFACTURERS ASSOCIATION



DODGE Products are  
Manufactured in  
ISO 9002 Certified Plants

Prices and data indicated in this document are for your convenience and were correct at time of printing with the exception of clerical and/or printing errors. Possession of this document by any person or company is not to be construed as an offer to sell to him or to anyone else the goods listed herein at the prices stated.

ALL DATA AND PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE and shall be subject to those prices in effect at time of shipments. All published and quoted prices are based upon the application of, and all sales are expressly subject to, the Company's Standard Terms and Conditions of Sales are available upon request. This document supersedes all previously published catalog/pricing documents.

**WARNING**

The information provided for Product Interchange in this catalog is for use only as a general reference by persons qualified to recognize unreasonable selection options. Products suggested as substitutes may have dimensional, rating, pricing and other differences from products to be replaced. This selection method must be used in conjunction with the applicable product catalog which contains important precautions and other pertinent information.

In illustrations throughout this catalog, safety guards have been removed for photographic purposes.

© 2015 Baldor Electric Company

**WARNING:** Because of the possible danger to person(s) or property from accidents which may result from the improper use of products, it is important that correct procedures be followed: Products must be used in accordance with the engineering information specified in the catalog. Proper installation, maintenance and operation procedures must be observed. The instructions in the instruction manuals must be followed. Inspections should be made as necessary to assure safe operation under prevailing conditions. Proper guards and other suitable safety devices or procedures as may be described or as may be specified in safety codes should be provided, and are neither provided by Baldor Electric nor are the responsibility of Baldor Electric. This unit and its associated equipment must be installed, adjusted and maintained by qualified personnel who are familiar with the construction and operation of all equipment in the system and the potential hazards involved. When risk to persons or property may be involved, a holding device must be an integral part of the driven equipment beyond the speed reducer output shaft.



# CONTENTS

## DODGE Power Transmission Components Catalog

---

|  |          |
|--|----------|
| Couplings . . . . .                    | PT1      |
| Clutches and Brakes. . . . .           | PT2      |
| FLEXIDYNE . . . . .                    | PT3      |
| Fluid Coupling. . . . .                | PT4      |
| TORQUE-TAMER . . . . .                 | PT5      |
| Bushings . . . . .                     | PT6      |
| V-Drives. . . . .                      | PT7      |
| FHP. . . . .                           | PT8      |
| Drive Component Accessories . . . . .  | PT9      |
| DYNA-SYNC. . . . .                     | PT10     |
| HT200/HTD Synchronous Drives . . . . . | PT11     |
| HT500 Synchronous Drives . . . . .     | PT12     |
| Roller Chain Sprockets . . . . .       | PT13     |
| Conveyor Components. . . . .           | PT14     |
| Engineering . . . . .                  | PT15     |
| Part Number Index . . . . .            | INDEX-1  |
| Keyword Index . . . . .                | INDEX-43 |



# REFERENCE GUIDE

PT Component  
Quick References

Couplings

Clutches and Brakes

FLEXIDYNE

Fluid Couplings

TORQUE-TAMER

Bushings

## COUPLINGS

### PARA-FLEX Couplings Page PT1-2

- Torque transmitted through composite element system
- Finished-bore and TAPER-LOCK® flange designs
- Five-year limited warranty
- No lubrication and visual inspection reduces maintenance time
- Accommodates highest misalignment of any coupling in the industry
  - 4° angular
  - 1/8" parallel
  - 5/16" end float
- ATEX Approved



### D-FLEX Couplings Page PT1-29

- Low-cost Type J couplings offered in four sizes
- Type S couplings feature AGMA 9 balanced flanges off the shelf
- Type B couplings offered with standard QD bushing shaft attachment
- Type SC spacer couplings satisfy standard spacing requirements for pump
- Rounded EPDM and Neoprene elements for improved fit and longer
- AGMA 9 balance on S and SC flanges for reduced vibration
- ATEX Approved



#### Applications

- Interchangeable components make installation quick, easy
- No lubrication assures trouble-free operation

### GRID-LIGN Couplings Page PT1-42

- Flexible tapered element isolates vibration and cushions shock loads
- High-torque capability
- Interchangeability with other tapered grid couplings
- Tapered grid design



### Gear Couplings Page PT1-60

- High-quality forged steel
- Largest tooth profile provides additional service factor
- Largest bore capacity in the industry, in most sizes
- Proven "O"-ring seal design
- Machined flanges for improved sealing
- High-grade fasteners
- High-torque rating allows for coupling downsizing
- Crowned tooth profile for longer life and improved performance
- Interchangeable with industry-standard gear couplings half for half



### Chain Couplings Page PT1-66

- Simple, widely accepted, inexpensive way to couple two shafts
- Interchangeable with industry-standard dimensions
- Can be provided with TAPER-LOCK bushed hubs, finished bore, or reboreable flanges
- Covers and assemblies available from stock
- Shaft attachment flexibility
- High-torque capability
- Compact design
- Low operating cost
- Broad product line



### Poly-Disc Coupling Page PT1-73

- Requires no lubrication
- Taper-Lock bushing allows for connection of two different shaft sizes
- Polyurethane element
- Pin design cushions shock loads
- Excellent for washdown applications
- Wide temperature range (-90 to 170 ° F)
- Misalignment = 2° Angular, 1/32 in. parallel



Please see [www.baldor.com](http://www.baldor.com) for Instruction Manuals on all Dodge products.



# REFERENCE GUIDE

## Taper-Lock Rigid Coupling

Page PT 1-74

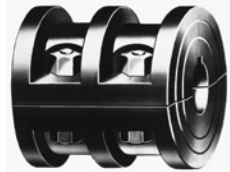
- Metallic coupling
- Requires no lubrication
- Taper-Lock bushing allows for connection of two different shaft sizes
- 8 Flange sizes thru 6" bore



## Ribbed Rigid Coupling

Page PT1-75

- Metallic coupling
- Requires no lubrication
- Clearance fit with full length key
- Same shaft size required on both sides
- 34 Sizes thru 7" bore



## POWERPLUS

Page PT1-76

- A power-dense, high torque elastomeric coupling
- Power density at high speeds
- Positive drive
- Shock load and vibration dampening
- Easy installation
- Low maintenance
- ATEX approved
- Minimal length thru bore
- Lightweight design



## D-Series Motor Brakes

Page PT2-6

- Exceptionally long-life friction material
- Internally rectified DC coil provides quieter operation
- Easy installation and external adjustment
- One moving part, reduces replacement parts
- Smooth stopping action
- Splined hub for superior load distribution
- Manual release
- Clutch/brake modules



## Clutch/Brake Modules

Page PT2-12

- Conforms to UL and CSA requirements
- One-piece, die-cast housing simplifies mounting; housing finned for maximum heat dissipation
- Pre-lubricated and sealed ball bearings have higher B10 life rating than competitive modules
- High-torque, non-asbestos friction material assures long life and environmental safety
- Armatures incorporate a high-impact, high-temperature molded spline for heavy-torque and high-cycle capabilities
- DYNA-GAP automatic air gap mechanism automatically compensates for friction surface wear
- Modules are factory assembled, adjusted, and burnished for easy installation and out-of-the-box operation
- Rotor incorporates ball bearing and Driv-Lok key for foolproof installation
- Standard NEMA C-face and base mounted, shaft-in/ shaft-out mounting configurations



## Shaft Mounted Clutches & Brakes

Page PT2-18

- Bore to size and taper lock bushings
- Voltage Input = 90, 24 and 6 VDC
- Static torque range: 22 lb-ft thru 175 lb-ft
- Factory assembled, adjusted, burnished
- Dyna-Gap self adjusting mechanism
- Heavy duty spline driven armature



# REFERENCE GUIDE

PT Component  
Quick References

Couplings

Clutches and Brakes

FLEXIDYNE

Fluid Couplings

TORQUE-TAMER

Bushings

## FLEXIDYNE Couplings

### Page PT3-2

- Motor starts under no-load conditions
- Permits use of STD NEMA-B motor
- Coupling or drive styles available
- 100% efficient, no slippage
- Can provide overload protection by slipping at loads somewhat greater than pre-set starting torque



## Fluid Couplings

### Page PT4-1

- Motor starts under no-load conditions
- Starting torque can be customized easily
- Permits use of standard NEMA design B motors
- Reduced voltage starters not needed
- Sizes 7 to 24 KSD with standard QD mounting sheave style
- KCP and CKCP mountings may require tapped motor shaft
- Available in standard and delay fill for increased control
- Optional fuse plug for overload protection
- Contact DODGE for non-standard sheaves



## TORQUE-TAMER

### Page PT5-2

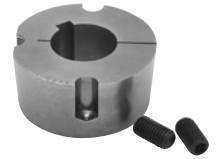
- DODGE TORQUE-TAMER Clutches
- Low cost overload protection that's a cinch to adjust
- Quality features
  - Non-Asbestos friction discs
  - Long-Life bushing
- Exclusive "easy set" adjustment
- Automatic reset
- Higher torque ratings
- Application versatility
- Minimum maintenance



## Bushings

### Page PT6-2

- Full line of TAPER-LOCK and QD available
- Stock sizes available up to 12" shaft diameter
- Material: sintered steel, cast iron, ductile iron, and stainless steel
- Easy installation and demounting
- Inch and metric bores



## Weld-On Hubs

### Page PT6-12

- Full line of TAPER-LOCK and QD available
- Steel material with rugged, compact designs
- Hubs to accommodate most bushing sizes
- Made-to-order capabilities—special construction and materials



## V-Belt Sheaves

### Page PT7-27

- Full line of TAPER-LOCK and QD available
- Classical (A, B, and C) and D-V Wedge style (3V, 5V, and 8V) groove profiles
- Stock sizes from one to 12 grooves and 2.65" to 71" in diameter
- Manufactured to MPTA standards
- MTO capabilities—material, construction, BTS, etc.
- Computer drive selection available



## V-Belts

### Page PT7-28

- Full range of Classical (A, B, and C) and D-V Wedge (3V, 5V, and 8V) belts
- Manufactured to RMA standards
- Poly-band, Double-V (hex), and FHP belts available
- Lengths from 22" to 660"
- Drive capability from 1 HP to over 1000 HP



# REFERENCE GUIDE

## FHP Belt Drives

### Page PT8-10

- Full range of FHP belts available
- Finished-bore and “QT/L” bushed style sheaves available
- “QT/L” bushings available in metric bores
- Cast iron and manufactured to MPTA standards
- Sheave outside diameter range: 1-1/2” to 19-3/4”
- Variable pitch sheaves available
- Computer drive selection available



## DYNA-SYNC Drives (Timing)

### Page PT10-2

The Original Timing Drive

- Synchronized No-Slip Transmission
- No Lubrication Required
- Efficiency: Approximately 98%
- Low Maintenance
- Virtually No Backlash
- Constant Linear Velocity
- Drive Ratios to 8.5:1
- Pitches: XL, L, H, and XH
- Dual-Sided Teeth Available for Serpentine Drives



## HT200/HTD Synchronous Belt Drives

### Page PT11-2

- Full line of TAPER-LOCK, QD, and minimum plain bore sprockets
- Higher capacity drives
- Available pitches: HT series, 5 mm, 8 mm, and 14 mm
- Made-to-order sprocket capabilities: construction, non-standard number of teeth, etc.
- HT200 belt profiles
- Computer drive selection available
- Modified curvilinear tooth profile



## HT500 Synchronous Belt Drives

### Page PT12-2

#### Virtually maintenance free

- Requires no oil or grease to run efficiently
- No need to re-tension the belts
- Compact maintenance free design



#### Reinforced Parabolic Tooth Profile (RPP)

- Allows synchronous transmission of power eliminating slippage and speed variation on high torque application
- Low installation tension reducing loads on other power transmission components (i.e., bearings, gearing, motors, etc.)
- Delivers power up to speeds of 10,000 FPM (Standard hardware is rated for 6,500 FPM). Contact Dodge if speeds greater than 6500 FPM are required.
- Superior meshing characteristics with the sprocket
- Reduces sprocket wear due to friction
- Higher power ratings than comparable timing belts
- Quieter operation
- Wide speed range coverage

## Roller Chain Sprockets

### Page PT13-2

- Sprockets manufactured to ANSI standard
- TAPER-LOCK sprockets: #35 (3/8” pitch) to #160 (2” pitch)
- Double-strand and double-single sprockets also available
- Special machining and re-bore capabilities available as made-to-order product
- Accessories available: chain casings, idlers, tensioners, etc.
- Hardened teeth up to 25 teeth on #40 through #160 sprockets
- Chain tools available





# REFERENCE GUIDE

PT Component  
Quick References

## Conveyor Components

### Heavy Duty Drum Pulley Assemblies Page PT14-15

- Standard, stock pulley assemblies fit CEMA dimensions and exceed the CEMA application standards for use with conveyor belts rated up to 750 PIW/(131 kN/m)
- 14° taper bushings with the lowest installation stress of any taper bushing shaft mounting system for two hub pulley applications
- Up to 1" vulcanized 45, 60, and 70 durometer SBR and 45, 60, and 70 durometer Neoprene rubber lagged with plain and groove surfaces
- Vulcanized 60 durometer D-Lag with +73% more abrasion resistance than 60 durometer SBR
- Drums either center crowned or straight face

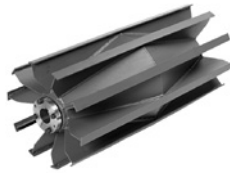


Couplings

Clutches and Brakes

### Heavy Duty Wing Pulley Assemblies Page PT14-34

- Standard, stock pulley assemblies fit CEMA dimensions and exceed the CEMA application standards for use with conveyor belts rated up to 350 PIW/61 kN/m
- 14° taper bushings with the lowest installation stress of any taper bushing shaft mounting system for two hub pulley applications
- Slide-on 92 durometer urethane wing lagging 1/2" thick or 45, 60, and 70 durometer SBR, vulcanized directly to contact bars. Also weld-on strips with 45 and 60 durometer with prebonded SBR rubber lagging



FLEXIDYNE

Fluid Couplings

### Mine Duty Extra Drum Pulley Assemblies Page PT14-49

- One-piece integral hubs eliminate welded hub heat-affected zones (HAZ)
- 14° taper bushings with the lowest installation stress of any taper bushing shaft mounting system for two hub pulley applications
- Continuous welding of internal center disc
- Up to 1" vulcanized 45, 60, and 70 durometer SBR and 45, 60, and 70 durometer Neoprene rubber lagged with plain and groove surfaces
- Vulcanized 60 durometer D-Lag with +73% more abrasion resistance than 60 durometer SBR
- Drums either center crowned or straight face



TORQUE-TAMER

Bushings

### Mine Duty Extra Wing Pulley Assemblies Page PT14-53

- Designed for use with DODGE Mine Duty EXTRA drum pulleys
- One-piece integral hubs
- 14° taper bushings with the lowest installation stress of any taper bushing shaft mounting system for two hub pulley applications
- Rugged construction incorporating 2" x 3/4" thick contact bars, 3/8" thick wings, and 3/8" thick spacers
- Up to 1/2" vulcanized 45, 60, and 70 durometer SBR and 45, 60, and 70 Neoprene rubber lagging on contact bars
- AR400 bar available



### Engineered Drum Pulley Assemblies Page PT14-56

- Made to order based upon conveyor load, belt tension, belt wrap angles, and bearing centers
- Supplied for belt ratings up to and exceeding 8000 PIW or 1400 kN/m
- Welded, integral, and profiled end discs versions minimize the harmful effects of weld heat-affected zones (HAZ)
- 14° taper bushings with the lowest installation stress of any taper bushing shaft mounting system for two hub pulley applications up to 12" shaft diameter
- Keyless locking devices available for most shaft sizes



# CONTENTS

## Couplings

### Features/Benefits

|                               |        |
|-------------------------------|--------|
| PARA-FLEX®                    | PT1-2  |
| PARA-FLEX High Speed Flywheel | PT1-17 |
| D-FLEX®                       | PT1-23 |
| GRID-LIGN®                    | PT1-36 |
| Gear Coupling                 | PT1-48 |
| Disc Coupling                 | PT1-53 |
| Moment                        | PT1-66 |
| Chain Coupling                | PT1-67 |

### Specification

|                |        |
|----------------|--------|
| PARA-FLEX®     | PT1-3  |
| D-FLEX®        | PT1-25 |
| GRID-LIGN®     | PT1-38 |
| Gear Coupling  | PT1-50 |
| Disc Coupling  | PT1-59 |
| Chain Coupling | PT1-68 |

### How To Order

|                |        |
|----------------|--------|
| PARA-FLEX®     | PT1-3  |
| D-FLEX®        | PT1-25 |
| GRID-LIGN®     | PT1-38 |
| Gear Coupling  | PT1-50 |
| Disc Coupling  | PT1-59 |
| Chain Coupling | PT1-68 |

### Nomenclature

|                |        |
|----------------|--------|
| PARA-FLEX®     | PT1-3  |
| D-FLEX®        | PT1-25 |
| GRID-LIGN®     | PT1-38 |
| Gear Coupling  | PT1-50 |
| Disc Coupling  | PT1-59 |
| Chain Coupling | PT1-68 |
| POLY-DISC®     | PT1-73 |

### Selection/Dimensions

|                        |        |
|------------------------|--------|
| PARA-FLEX®             | PT1-5  |
| High Speed, TAPER-LOCK | PT1-18 |
| D-FLEX®                | PT1-26 |
| GRID-LIGN®             | PT1-40 |
| Gear Coupling          | PT1-51 |
| Disc Coupling          | PT1-60 |
| Chain Coupling         | PT1-70 |
| POLY-DISC®             | PT1-74 |
| Rigid                  | PT1-81 |

### Modifications/Accessories

|  |        |
|--|--------|
|  | PT1-79 |
|--|--------|

### Engineering/Technical

|                   |          |
|-------------------|----------|
| Part Number Index | INDEX-1  |
| Keyword Index     | INDEX-43 |



# FEATURES/BENEFITS

## DODGE PARA-FLEX Couplings



### Superior “Problem Solver” Element Design

- Industry leading misalignment capabilities
- End split reinforcement for increased torque ratings and extended life
- Reinforced torque-carrying tension cords prevent unexpected downtime
- Uniform and centered beads prevent element pull out during operation
- Protects connected equipment by damping vibrations and shock loads

### Industry Leading Five-Year Limited Warranty

- Over 50 years of proven performance
- Reliable product operation
- Includes sizes PX40 to PX200



### Increased Productivity

- Non-lubricated design assures trouble-free operation
- Visual inspection saves time and allows for preventive maintenance
- Split element for easy installation

### ATEX Approved

- All documents and markings included with standard product to meet ATEX requirements

### TAPER-LOCK Flange Design

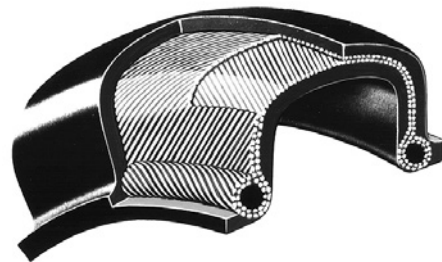
- Utilizes standard TAPER-LOCK bushings for easy installation and removal
- Reversible flanges for H and F style mounting on sizes PX50-PX120
- “TLX” extended bore capacity flanges for increased bore capacities
- Pre-assembled for quick installation

### QD Flange Design

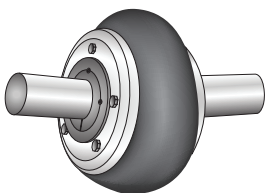
- Utilizes standard QD bushings for easy installation and removal
- Industry leading bore and torque capacities versus competitive designs
- Hardware installs from inside or outside of the hub for mounting flexibility
- Pre-assembled for quick installation

### Bored to Size

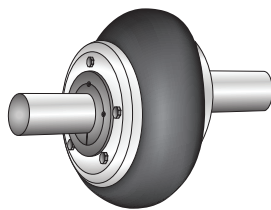
- Steel flanges are ideal for high shock load and vibration applications
- Largest bore capacity of all Para-Flex products



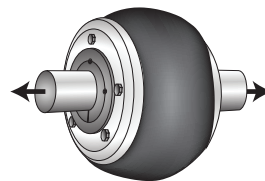
### Accommodates Misalignment



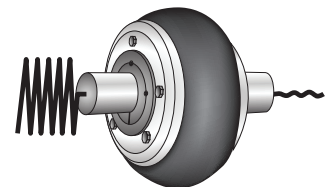
Takes 4° angular misalignment



Takes 1/8" parallel misalignment



Takes end-float of 1/4" to 5/16"



Dampens vibrations





## PARA-FLEX

### SPECIFICATION

PARA-FLEX Couplings employ a molded, non-lubricated elastomeric flexing member loaded in shear. The flexible element is compounded natural or neoprene rubber with textile cord reinforcement throughout and has an extra layer of reinforcement adjacent to the split for added durability. The compound of natural rubber element shall be suitable for operation in ambient temperature from -45°F to +180°F; Neoprene -40°F to +210°F.

The flexible element is attached by clamping between axially separable rings with exposed cap screws. The couplings are designed to be capable of accommodating combined misalignments of 4° angular, 1/8" parallel, and 5/16" end float at the full rating of the coupling without restricting the life of the coupling. The flexible element must be replaceable without disturbing the coupled equipment and without the requirement for realignment.

The coupling assemblies have optional methods of attachment to the shaft including but not limited to: clearance fit, interference fit TAPER-LOCK or QD bushings. Clearance fits are supplied with an industry standard keyway and two set screws, one over the key and one at 65°.

- 1 PX40: 4° angular, 1/16" parallel, 3/16" end float.
- 2 PX110: 4° angular, 1/8" parallel, 1/4" end float.
- 3 PH & PF: 1° angular, 1/16" parallel, 3/16" end float.

PARA-FLEX Couplings are static conductive.

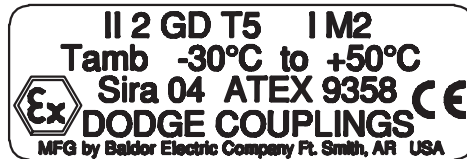
### HOW TO ORDER

Standard couplings consist of:

- (2) Flange Assemblies
- (1) Flexible Element
- (2) Bushings (TL or QD)

### ATEX Approved

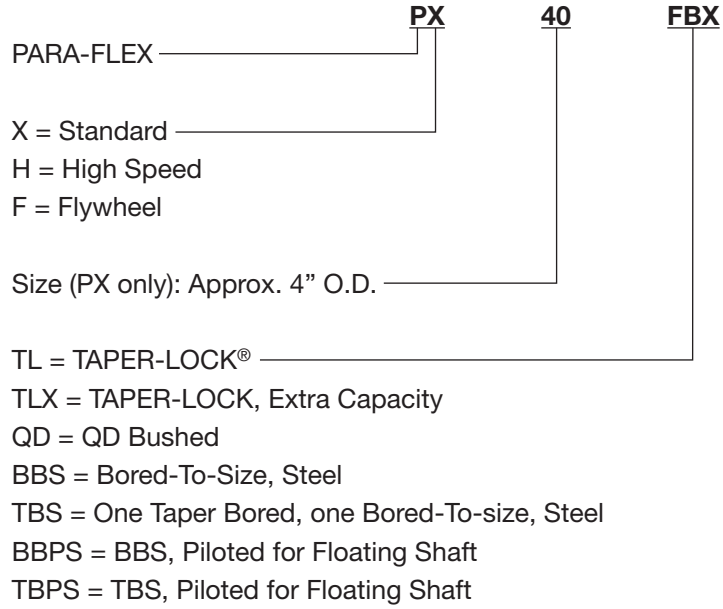
- All documents and markings included with standard product to meet ATEX requirements



|                                 |                                    |   |                                      |
|---------------------------------|------------------------------------|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-2 | SELECTION/DIMENSIONS<br>PAGE PT1-5 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|---------------------------------|------------------------------------|---|--------------------------------------|



## NOMENCLATURE

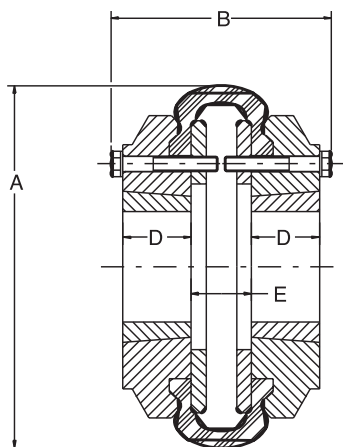


|                                 |                                    |   |                                      |
|---------------------------------|------------------------------------|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-2 | SELECTION/DIMENSIONS<br>PAGE PT1-5 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|---------------------------------|------------------------------------|---|--------------------------------------|

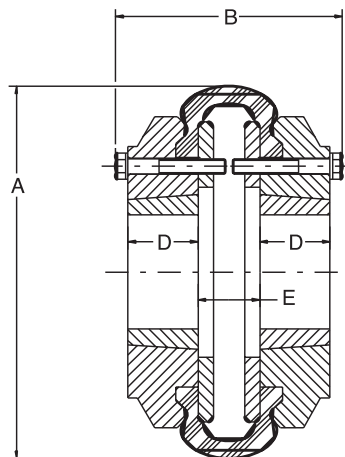


# SELECTION/DIMENSIONS

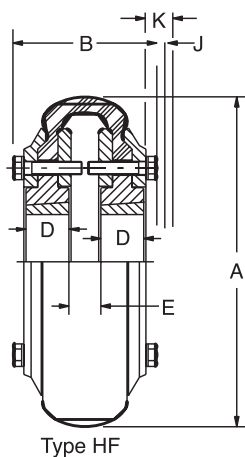
## Standard, TAPER-LOCK



Style 1  
Type H Taper-Lock

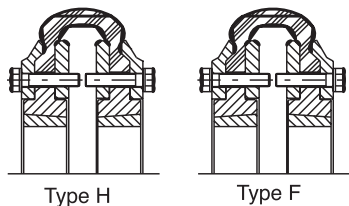


Style 1  
Type F Taper-Lock



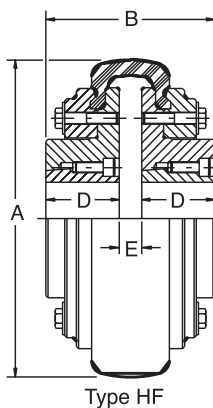
Type HF

Style 2 Taper-Lock couplings  
with reversible flange



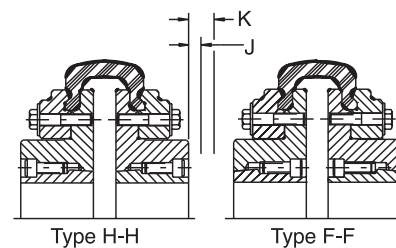
Type H

Type F



Type HF

Style 3 PARA-FLEX Taper-Lock couplings



Type H-H

Type F-F

|   |  |   |  |
|---|--|---|--|
| <p>FEATURES/BENEFITS<br/>PAGE PT1-2</p> | <p>SPECIFICATION/HOW TO ORDER<br/>PAGE PT1-3</p> | <p>MODIFICATION/ACCESSORIES<br/>PAGE PT1-79</p> | <p>ENGINEERING/TECHNICAL<br/>PAGE PT1-81</p> |
|---|--|---|--|





# SELECTION/DIMENSIONS

## Standard, TAPER-LOCK

| Coupling Size | TAPER-LOCK Bushing Size | Max. Bore | HP/100 | Torque (In-Lbs) | Max. RPM | Style | A     | B     | D    | E    | J (1) | K (2) | Weight (Lbs.) (3) | Inertia (Lb-Ft <sup>2</sup> ) (4) |
|---------------|-------------------------|-----------|--------|-----------------|----------|-------|-------|-------|------|------|-------|-------|-------------------|-----------------------------------|
| PX40TL        | 1008                    | 1         | 0.68   | 429             | 4500     | 1     | 4.25  | 3     | 0.88 | 0.77 | 0.63  | 0.75  | 4.2               | 0.05                              |
| PX50TL        | 1108                    | 1-1/8     | 1.43   | 900             | 4500     | 1     | 5.25  | 2.75  | 0.88 | 0.53 | 0.63  | 0.75  | 4.7               | 0.07                              |
| PX60TL        | 1310                    | 1-7/16    | 2.86   | 1800            | 4000     | 1     | 6.5   | 3.34  | 1    | 0.72 | 0.81  | 1.06  | 9.2               | 0.21                              |
| PX70TL        | 1610                    | 1-11/16   | 3.49   | 2200            | 3600     | 2     | 7.38  | 3.56  | 1    | 0.95 | 0.81  | 1.06  | 13                | 0.3                               |
| PX70TLX-F     | 2012                    | 2-1/8     | 3.49   | 2200            | 3600     | 3     | 7.38  | 3.83  | 1.25 | 0.95 | 0.94  | 1.38  | 14.8              | 0.3                               |
| PX80TL        | 2012                    | 2-1/8     | 5.72   | 3605            | 3100     | 2     | 8.38  | 3.75  | 1.25 | 0.77 | 0.94  | 1.38  | 19.6              | 0.73                              |
| PX80TLX-F     | 2517                    | 2-11/16   | 5.72   | 3605            | 3100     | 3     | 8.38  | 3.99  | 1.75 | 0.77 | 1     | 1.63  | 24.7              | 0.8                               |
| PX90TL        | 2517                    | 2-11/16   | 7.15   | 4502            | 2800     | 2     | 9.25  | 4.03  | 1.75 | 0.33 | 1     | 1.63  | 28.8              | 1.3                               |
| PX100TL       | 2517                    | 2-11/16   | 8.58   | 5402            | 2600     | 2     | 10    | 4.22  | 1.75 | 0.52 | 1     | 1.63  | 38                | 2.2                               |
| PX100TLX-F    | 3020                    | 3-1/4     | 8.58   | 5402            | 2600     | 3     | 10    | 4.36  | 2    | 0.52 | 1.19  | 2.06  | 42.6              | 2.4                               |
| PX110TL       | 2517                    | 2-11/16   | 12.3   | 7750            | 2300     | 2     | 11    | 4.53  | 1.75 | 0.47 | 1     | 1.63  | 52.1              | 3.7                               |
| PX110TLX-F    | 3020                    | 3-1/4     | 12.3   | 7750            | 2300     | 3     | 11    | 4.75  | 2    | 0.47 | 1.19  | 2.06  | 57.2              | 3.9                               |
| PX110TLX-H    | 3020                    | 3-1/4     | 12.3   | 7750            | 2300     | 3     | 11    | 4.75  | 2    | 0.47 | 1.19  | 2.06  | 57.2              | 3.9                               |
| PX120TL       | 3020                    | 3-1/4     | 20     | 12605           | 2100     | 2     | 12.38 | 5.03  | 2    | 0.44 | 1.19  | 2.06  | 74.4              | 6.6                               |
| PX120TLX-F    | 3525                    | 3-15/16   | 20     | 12605           | 2100     | 3     | 12.38 | 5.45  | 2.5  | 0.44 | 1.31  | 2.69  | 88.1              | 7.4                               |
| PX140TL       | 3535                    | 3-15/16   | 44     | 27590           | 1840     | 3     | 14.13 | 7.81  | 3.5  | 0.81 | 1.31  | 2.69  | 156               | 18.7                              |
| PX160TL       | 4040                    | 4-7/16    | 60     | 37800           | 1560     | 3     | 16.63 | 9.19  | 4    | 1.19 | 1.63  | 3.38  | 243               | 33.7                              |
| PX200TL       | 4545                    | 4-15/16   | 131    | 82500           | 1300     | 3     | 20    | 10.31 | 4.5  | 1.31 | 1.94  | 4.06  | 417               | 101                               |
| PX240TL       | 5050                    | 5         | 240    | 151200          | 1080     | 3     | 24.13 | 11.91 | 5    | 1.91 | 2.31  | 4.81  | 682               | 231                               |
| PX280TL       | 7060                    | 7         | 480    | 302200          | 910      | 3     | 28.5  | 15.97 | 6    | 2.22 | 1.63  | 4.38  | 1148              | 544                               |
| PX320TL       | 8065                    | 8         | 719    | 453000          | 810      | 3     | 32.5  | 16.31 | 6.5  | 2.06 | 1.63  | 4.38  | 1640              | 1077                              |

- Notes:** (1) Space required to tighten bushing with shortened hex key.  
 (2) Space required to loosen bushing with shortened hex key.  
 (3) Weight of complete coupling with bushing.  
 (4) Inertia of complete coupling with bushing.

Flange assemblies may be combined or interchanged for a given element size.  
 Upon combination, dimensions B and E as well as mass and inertia should be average to determine appropriate value.



# SELECTION/DIMENSIONS

## Standard, TAPER-LOCK Part Numbers

### TAPER-LOCK Flange Assemblies

| Coupling Size | Flange Assembly Part No. |        | TAPER-LOCK Bushing Size |
|---------------|--------------------------|--------|-------------------------|
|               | Type H                   | Type F |                         |
| PX40TL        | 000849                   | 000848 | 1008                    |
| PX50TL        | 010601                   | *      | 1108                    |
| PX60TL        | 010602                   | *      | 1310                    |
| PX70TL        | 010603                   | *      | 1610                    |
| PX70TLX-F     | -                        | 395277 | 2012 •                  |
| PX80TL        | 010604                   | *      | 2012                    |
| PX80TLX-F     | -                        | 395278 | 2517 •                  |
| PX90TL        | 010605                   | *      | 2517                    |
| PX100TL       | 010606                   | *      | 2517                    |
| PX100TLX-F    | -                        | 395279 | 3020 •                  |
| PX110TL       | 010607                   | *      | 2517                    |
| PX110TLX-H    | 395281                   | -      | 3020 •                  |
| PX110TLX-F    | -                        | 395280 | 3020 •                  |
| PX120TL       | 010608                   | *      | 3020                    |
| PX120TLX-F    | -                        | 395282 | 3525 •                  |
| PX140TL       | 011134                   | 011154 | 3535                    |
| PX160TL       | 011137                   | 011157 | 4040                    |
| PX200TL       | 011140                   | 011160 | 4545                    |
| PX240TL       | 011144                   | 011164 | 5050                    |
| PX280TL       | 011455                   | 011456 | 7060                    |
| PX320TL       | 011472                   | 011471 | 8065                    |

### Elements

| Coupling Size | Standard Part No. | Neoprene (1) Part No. | Cordless (2) Part No. |
|---------------|-------------------|-----------------------|-----------------------|
| PX40          | 011529            | 012455                | 012456                |
| PX50          | 011105            | 011296                | 011285                |
| PX60          | 011106            | 011297                | 011286                |
| PX70          | 011107            | 011298                | 011287                |
| PX80          | 011108            | 011299                | 011288                |
| PX90          | 011109            | 011300                | 011289                |
| PX100         | 011110            | 011301                | 011290                |
| PX110         | 011111            | 011302                | ---                   |
| PX120         | 011112            | 011303                | 011292                |
| PX140         | 011114            | 011304                | ---                   |
| PX160         | 011117            | 011305                | ---                   |
| PX200         | 011120            | 011306                | ---                   |
| PX240         | 011124            | 011312                | ---                   |
| PX280         | 011457            | 011313                | ---                   |
| PX320         | 011463            | 011315                | ---                   |

- (1) Neoprene element ratings are the same as the standard natural rubber element ratings. (Green sticker or painted mark)
- (2) Cordless elements have an average static torsional stiffness 25% of the standard element and approximately 25% of the torque rating. (White sticker or painted mark)

\* PX50-PX120 have a reversible flange for type H or F mount  
Complete coupling consists of (2) TAPER-LOCK Flange Assemblies.

(2) Taper-Lock Bushings, and (1) Element.

For Taper-Lock Bushings, see page/section \_\_\_\_\_

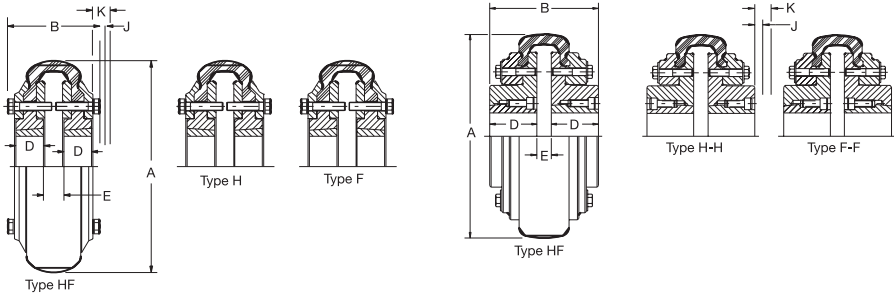
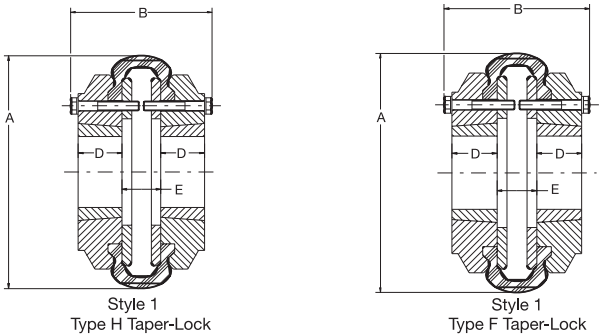
- These flanges require a metric bushing, see page \_\_\_\_\_





# SELECTION/DIMENSIONS

## Metric, TAPER-LOCK Part Numbers



Style 2 Taper-Lock couplings with reversible flange

Style 3 PARA-FLEX Taper-Lock couplings

### Taper-Lock Couplings\*

| Coupling flange Assy. | Element size | Min. bore | Max. bore | TL Bushing* | kW/100 | Torque (in-lbs) | Max RPM | Style | A (in) | B = (in) | D (in) | E = (in) | J <sup>(1)</sup> (in) | K <sup>(2)</sup> (in) | Mass <sup>(3=)</sup> (lbs) | Inertia <sup>(4=)</sup> (lb-ft <sup>2</sup> ) |
|-----------------------|--------------|-----------|-----------|-------------|--------|-----------------|---------|-------|--------|----------|--------|----------|-----------------------|-----------------------|----------------------------|---|
| PXM40TL               | 40           | 13        | 25        | 1008        | 0.51   | 425             | 4500    | 1     | 4.25   | 3        | .88    | .77      | .63                   | .75                   | 4.2                        | .05   |
| PXM50TL               | 50           | 13        | 32        | 1210        | 1.07   | 900             | 4500    | 1     | 5.25   | 2.75     | .88    | .53      | .63                   | .75                   | 4.7                        | .07   |
| PXM60TL               | 60           | 13        | 42        | 1610        | 2.13   | 180             | 4000    | 1     | 6.5    | 3.34     | 1      | .72      | .81                   | 1.06                  | 9.2                        | .21   |
| PXM70TL               | 70†          | 13        | 42        | 1610        | 2.60   | 2200            | 3600    | 2     | 7.38   | 3.56     | 1      | .95      | .81                   | 1.06                  | 13                         | .3  |
| PXM70TLX-F            | 70†          | 13        | 50        | 2012        | 2.60   | 2200            | 3600    | 3     | 7.38   | 3.83     | 1.25   | .95      | .94                   | 1.38                  | 14.8                       | .3  |
| PXM80TL               | 80†          | 13        | 50        | 2012        | 4.27   | 3605            | 3100    | 2     | 8.38   | 3.75     | 1.25   | .77      | .94                   | 1.38                  | 19.6                       | .73   |
| PXM80TLX-F            | 80†          | 13        | 65        | 2517        | 4.27   | 3605            | 3100    | 3     | 8.38   | 3.99     | 1.75   | .77      | 1                     | 1.63                  | 24.7                       | .8  |
| PXM90TL               | 90           | 13        | 65        | 2517        | 5.33   | 4502            | 2800    | 2     | 9.25   | 4.03     | 1.75   | .33      | 1                     | 1.63                  | 28.8                       | 1.3   |
| PXM100TL              | 100†         | 13        | 65        | 2517        | 6.40   | 5402            | 2600    | 2     | 10     | 4.22     | 1.75   | .52      | 1                     | 1.63                  | 38                         | 2.2   |
| PXM100TLX-F           | 100†         | 24        | 80        | 3020        | 6.40   | 5402            | 2600    | 3     | 10     | 4.36     | 2      | .52      | 1.19                  | 2.06                  | 42.6                       | 2.4   |
| PXM110TL              | 110†         | 13        | 65        | 2517        | 9.18   | 7750            | 2300    | 2     | 11     | 4.53     | 1.75   | .47      | 1                     | 1.63                  | 52.1                       | 3.7   |
| PXM110TLX-H           | 110†         | 24        | 80        | 3020        | 9.18   | 7750            | 2300    | 3     | 11     | 4.75     | 2      | .47      | 1.19                  | 2.06                  | 57.2                       | 3.9   |
| PXM110TLX-F           | 110†         | 24        | 80        | 3020        | 9.18   | 7750            | 2300    | 3     | 11     | 4.75     | 2      | .47      | 1.19                  | 2.06                  | 57.2                       | 3.9   |
| PXM120TL              | 120†         | 24        | 80        | 3020        | 14.92  | 12605           | 2100    | 2     | 12.38  | 5.03     | 2      | .44      | 1.19                  | 2.06                  | 74.4                       | 6.6   |
| PXM120TLX-F           | 120†         | 31        | 100       | 3525        | 14.92  | 12605           | 2100    | 3     | 12.38  | 5.45     | 2.5    | .44      | 1.31                  | 2.69                  | 88.1                       | 7.4   |
| PXM140TL              | 140          | 31        | 95/100●   | 3535        | 32.82  | 27590           | 1840    | 3     | 14.13  | 7.81     | 3.5    | .81      | 1.31                  | 2.69                  | 156                        | 18.7  |
| PXM160TL              | 160          | 37        | 105/115●  | 4040        | 44.76  | 37800           | 1560    | 3     | 16.63  | 9.19     | 4      | 1.19     | 1.63                  | 3.38                  | 243                        | 33.7  |
| PXM200TL              | 200          | 50        | 115/125●  | 4545        | 97.73  | 82500           | 1300    | 3     | 20     | 10.31    | 4.5    | 1.31     | 1.94                  | 4.06                  | 417                        | 101   |
| PXM240TL              | 240          | 61        | 127       | 5050        | 179.04 | 151200          | 1080    | 3     | 24.13  | 11.91    | 5      | 1.91     | 2.31                  | 4.81                  | 682                        | 231   |

(1) Space required to tighten bushing with shortened hex key  
 (2) Space required to loosen bushing with shortened hex key  
 (3) Weight of complete coupling with bushing  
 (4) Inertia of complete coupling with bushing  
 \* Metric hardware  
 ● Requires short series bushings to achieve maximum bore.  
 † Flange assemblies may be combined or interchanged for a given element size. Upon combination, dimensions B & E as well as mass and inertia should be averaged for appropriate value.  
 H = Hub Mount  
 F = Flange Mount

|                                 |  |   |                                      |
|---------------------------------|--|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-2 | SPECIFICATION/HOW TO ORDER<br>PAGE PT1-3 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|---------------------------------|--|---|--------------------------------------|





# SELECTION/DIMENSIONS

## Metric, TAPER-LOCK

Complete Para-Flex coupling consists of:  
one element, two PXMTL flange assemblies and two TL bushings

### Para-Flex Taper-Lock flange assemblies

| Coupling size | Type H      | Type F      |                         |
|---------------|-------------|-------------|-------------------------|
|               | Part Number | Part Number | Taper-Lock bushing size |
| PXM40TL       | 013095      | 013096      | 1008                    |
| PXM50TL       | 013041      | 013040      | 1210                    |
| PXM60TL       | 013043      | 013042      | 1610                    |
| PXM70TL       | 013044      | *           | 1610                    |
| PXM70TLX-F    | —           | 395277      | 2012                    |
| PXM80TL       | 013045      | *           | 2012                    |
| PXM80TLX-F    | —           | 395278      | 2517                    |
| PXM90TL       | 013046      | *           | 2517                    |
| PXM100TL      | 013047      | *           | 2517                    |
| PXM100TLX-F   | —           | 395279      | 3020                    |
| PXM110TL      | 013048      | *           | 2517                    |
| PXM110TLX-H   | 395281      | —           | 3020                    |
| PXM110TLX-F   | —           | 395280      | 3020                    |
| PXM120TL      | 013049      | *           | 3020                    |
| PXM120TLX-F   | —           | 395282      | 3525                    |
| PXM140TL      | 013051      | 013050      | 3535 / 3525 •           |
| PXM160TL      | 013053      | 013052      | 4040 / 4030 •           |
| PXM200TL      | 013055      | 013054      | 4545 / 4535 •           |
| PXM240TL      | 395286      | 395285      | 5050                    |

#### Notes:

- \* Have reversible flange for type H or F mount.
  - Requires short series bushing to achieve maximum bore.
- Metric bushing required  
For Taper-Lock designs, Taper-Lock bushings must be ordered separately.

### Elements

| Coupling Size | Standard Part No. | Neoprene (1) Part No. | Cordless (2) Part No. |
|---------------|-------------------|-----------------------|-----------------------|
| PX40          | 011529            | 012455                | 012456                |
| PX50          | 011105            | 011296                | 011285                |
| PX60          | 011106            | 011297                | 011286                |
| PX70          | 011107            | 011298                | 011287                |
| PX80          | 011108            | 011299                | 011288                |
| PX90          | 011109            | 011300                | 011289                |
| PX100         | 011110            | 011301                | 011290                |
| PX110         | 011111            | 011302                | ---                   |
| PX120         | 011112            | 011303                | 011292                |
| PX140         | 011114            | 011304                | ---                   |
| PX160         | 011117            | 011305                | ---                   |
| PX200         | 011120            | 011306                | ---                   |
| PX240         | 011124            | 011312                | ---                   |

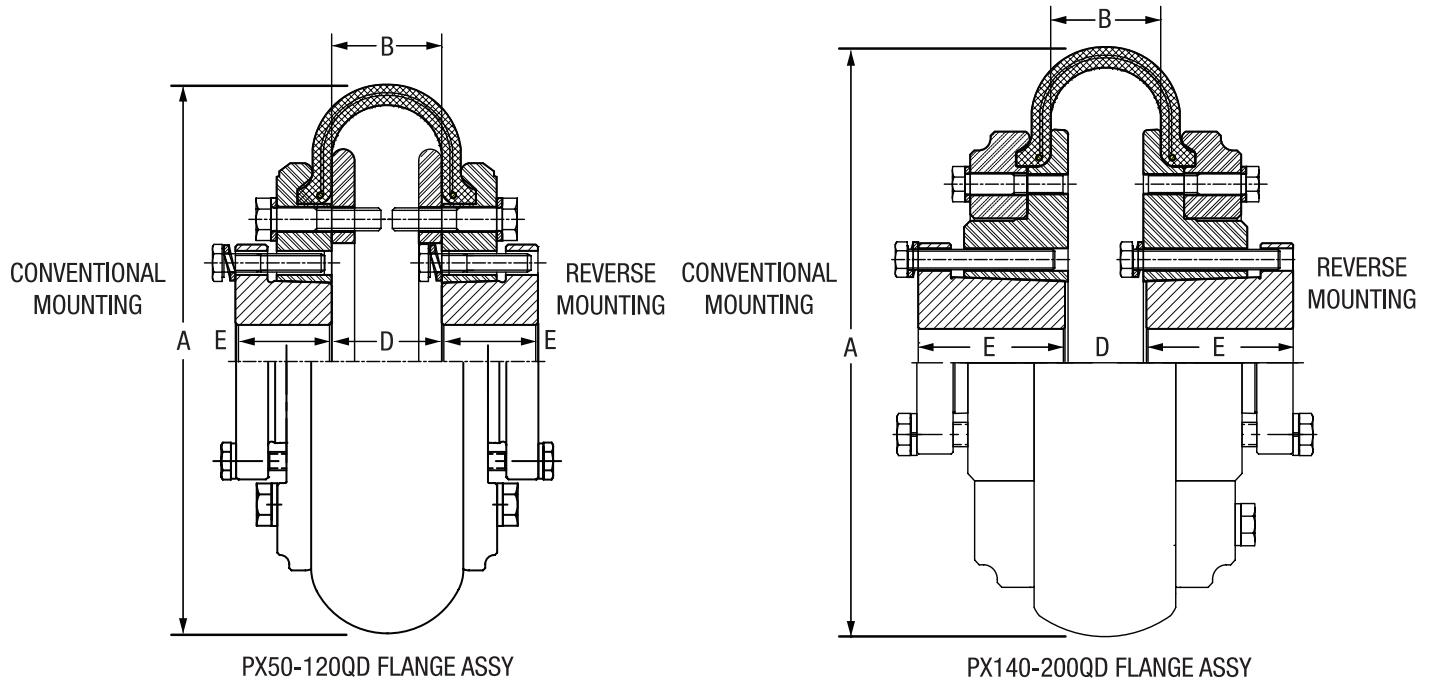
- (1) Neoprene element ratings are the same as the standard natural rubber element ratings. (Green sticker or painted mark)
- (2) Cordless elements have an average static torsional stiffness 25% of the standard element and approximately 25% of the torque rating. (White sticker or painted mark)

|                                 |  |   |                                      |
|---------------------------------|--|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-2 | SPECIFICATION/HOW TO ORDER<br>PAGE PT1-3 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|---------------------------------|--|---|--------------------------------------|



# SELECTION/DIMENSIONS

## Standard, QD Bushed



### Dimensions

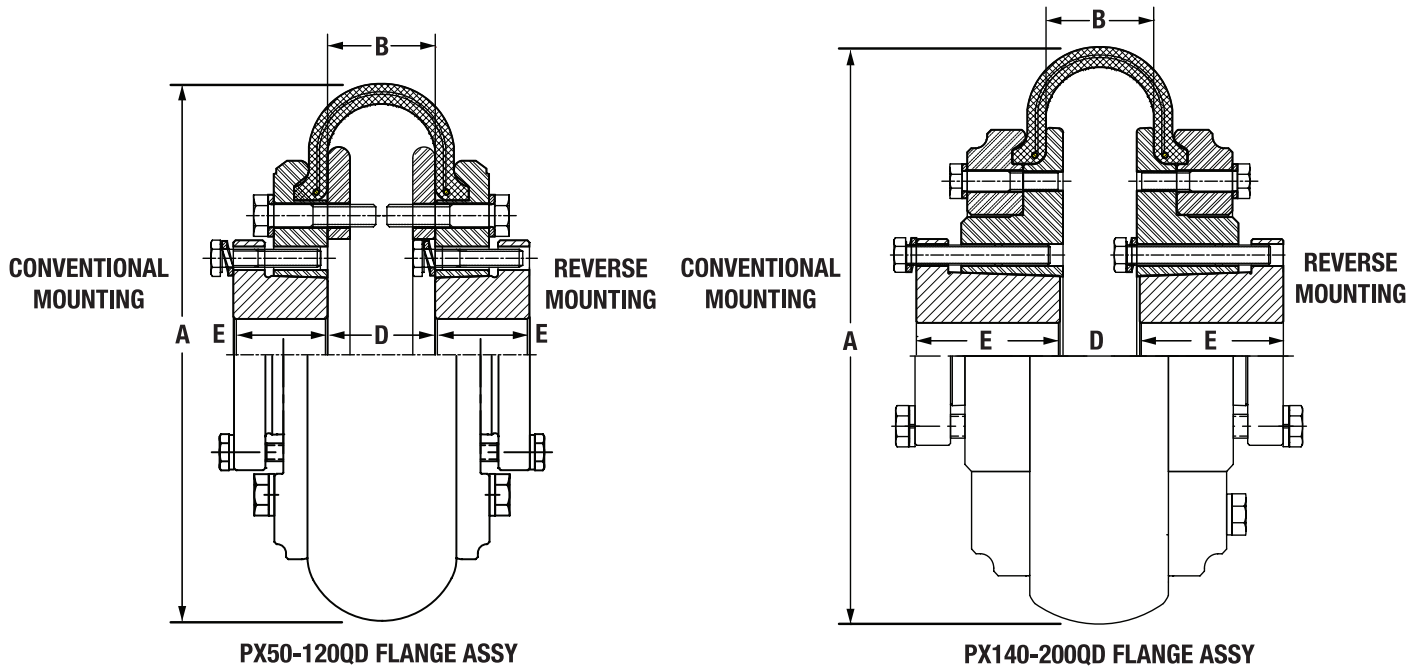
| Coupling Size | Bushing Size | Max Bore (In.) |            |         | HP/100 | Torque Rating (In-Lbs) | Max RPM | Style | Dimensions (In.) |         |        |         | Weight (1) (Lbs.) | Inertia (2) (Lb-Ft) |
|---------------|--------------|----------------|------------|---------|--------|------------------------|---------|-------|------------------|---------|--------|---------|-------------------|---------------------|
|               |              | Full KW        | Shallow KW | No KW   |        |                        |         |       | A                | B       | D      | E       |                   |                     |
| PX50QD        | JA           | 1              | 1-3/16     | 1-1/4   | 1.43   | 900                    | 4500    | 1     | 5 1/4            | 3 7/8   | 1      | 1 17/32 | 4.7               | 0.08                |
| PX60QD        | SH           | 1-3/8          | 1-5/8      | 1-11/16 | 2.86   | 1800                   | 4000    | 1     | 6 1/2            | 4 23/32 | 1 1/4  | 1 25/32 | 8.0               | 0.24                |
| PX70QD        | SDS          | 1-5/8          | 1-15/16    | 2       | 3.49   | 2200                   | 3600    | 1     | 7 3/8            | 4 17/32 | 1 5/16 | 1 1/2   | 10.7              | 0.45                |
| PX80QD        | SK           | 2-1/8          | 2-1/2      | 2-5/8   | 5.72   | 3600                   | 3100    | 1     | 8 3/8            | 5 13/16 | 3 7/8  | 1 1/2   | 15.5              | 0.88                |
| PX90QD        | SK           | 2-1/8          | 2-1/2      | 2-5/8   | 7.15   | 4350                   | 2800    | 1     | 9 1/4            | 5 7/8   | 3 7/8  | 1 9/16  | 22.0              | 1.60                |
| PX100QD       | SF           | 2-5/16         | 2-15/16    | -       | 8.58   | 5250                   | 2600    | 1     | 10               | 6 1/8   | 4 5/8  | 1 15/32 | 32.0              | 2.90                |
| PX110QD       | SF           | 2-5/16         | 2-15/16    | -       | 12.3   | 7750                   | 2300    | 1     | 11               | 5 7/8   | 4 5/8  | 1 3/16  | 46.0              | 4.30                |
| PX120QD       | E            | 2-7/8          | 3-1/2      | -       | 20     | 12540                  | 2100    | 1     | 12 3/8           | 7 1/4   | 6      | 1 1/4   | 59.8              | 6.70                |
| PX140QD       | F            | 3-1/4          | 3-15/16    | 4       | 44     | 27590                  | 1840    | 2     | 14 1/8           | 9 1/2   | 6 5/8  | 1 3/8   | 132.5             | 19.50               |
| PX160QD       | J            | 3-3/4          | 4-1/2      | -       | 60     | 37800                  | 1560    | 2     | 16 5/8           | 11 1/2  | 7 1/4  | 1 3/8   | 208.7             | 34.60               |
| PX200QD       | J            | 3-3/4          | 4-1/2      | -       | 131    | 82500                  | 1300    | 2     | 20               | 11 3/4  | 7 1/4  | 1 13/16 | 366.0             | 103.00              |

- Notes:**  
 (1) Weight of complete coupling with bushings.  
 (2) Inertia of complete coupling with bushing.



# SELECTION/DIMENSIONS

## Standard, QD Bushed



### Para-Flex QD Part Numbers

| Size  | PXQD Flanges            |          | Elements |              |              |
|-------|-------------------------|----------|----------|--------------|--------------|
|       | Description             | Part No. | Standard | Neoprene (1) | Cordless (2) |
| PX50  | PX50QD FLANGE ASSEMBLY  | 013210   | 011105   | 011296       | 011285       |
| PX60  | PX60QD FLANGE ASSEMBLY  | 013211   | 011106   | 011297       | 011286       |
| PX70  | PX70QD FLANGE ASSEMBLY  | 013212   | 011107   | 011298       | 011287       |
| PX80  | PX80QD FLANGE ASSEMBLY  | 013213   | 011108   | 011299       | 011288       |
| PX90  | PX90QD FLANGE ASSEMBLY  | 013214   | 011109   | 011300       | 011289       |
| PX100 | PX100QD FLANGE ASSEMBLY | 013215   | 011110   | 011301       | 011290       |
| PX110 | PX110QD FLANGE ASSEMBLY | 013216   | 011111   | 011302       | -            |
| PX120 | PX120QD FLANGE ASSEMBLY | 013217   | 011112   | 011303       | 011292       |
| PX140 | PX140QD FLANGE ASSEMBLY | 013218   | 011114   | 011304       | -            |
| PX160 | PX160QD FLANGE ASSEMBLY | 013219   | 011117   | 011305       | -            |
| PX200 | PX200QD FLANGE ASSEMBLY | 013220   | 011120   | 011306       | -            |

Complete Para-Flex QD coupling consists of one element, two flanges, and two QD bushings.

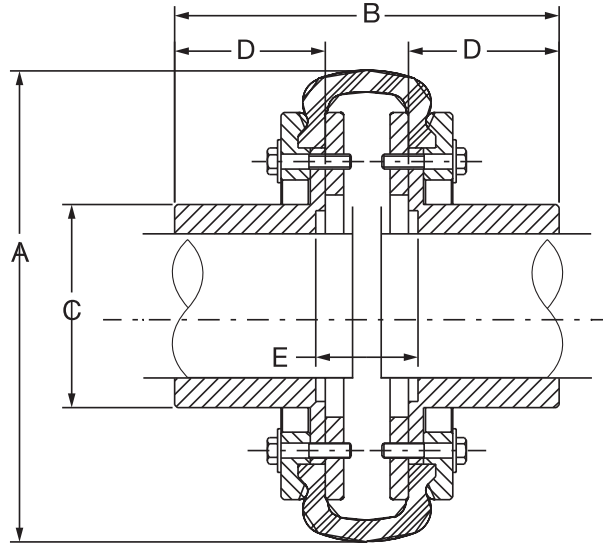
**Notes:**

- (1) Neoprene element ratings are the same as the standard natural rubber element ratings. (Green sticker or painted mark)
- (2) Cordless elements have an average static torsional stiffness 25% of the standard element and approximately 25% of the torque rating. (White sticker or painted mark)



# SELECTION/DIMENSIONS

## Bored to Size, Type BBS



### PX60 Thru PX320 Type BBS Couplings

| Coupling Size | Min. Bore | Max. Bore | HP/100 | Torque (In-Lbs) | Max. RPM | A     | B     | C     | D    | E    | Weight (1) (Lbs.) | Inertia (2) (Lb-Ft <sup>2</sup> ) |
|---------------|-----------|-----------|--------|-----------------|----------|-------|-------|-------|------|------|-------------------|-----------------------------------|
| PX60BBS       | none      | 1-1/2     | 2.86   | 1,800           | 4000     | 6.50  | 4.28  | 2.38  | 1.50 | 1.28 | 8.8               | .21                               |
| PX70BBS       | none      | 2-1/8     | 3.49   | 2,200           | 3600     | 7.38  | 5.00  | 2.94  | 1.75 | 1.50 | 12.8              | .32                               |
| PX80BBS       | none      | 2-9/16    | 5.72   | 3,605           | 3100     | 8.38  | 5.50  | 3.69  | 2.00 | 1.50 | 18.4              | .79                               |
| PX90BBS       | none      | 2-3/4     | 7.15   | 4,502           | 2800     | 9.25  | 6.03  | 4.13  | 2.25 | 1.53 | 25.6              | 1.4                               |
| PX100BBS      | none      | 3-1/4     | 8.58   | 5,402           | 2600     | 10.00 | 6.97  | 4.94  | 2.63 | 1.72 | 36.4              | 2.5                               |
| PX110BBS      | none      | 3-15/16   | 12.30  | 7,750           | 2300     | 11.00 | 7.56  | 5.44  | 3.00 | 1.56 | 47.3              | 4.2                               |
| PX120BBS      | none      | 4         | 20.00  | 12,605          | 2100     | 12.38 | 8.25  | 5.81  | 3.25 | 1.75 | 68.4              | 7.0                               |
| PX140BBS      | 2-1/4     | 4-1/2     | 44.00  | 27,590          | 1840     | 14.13 | 9.81  | 7.00  | 3.88 | 2.44 | 127.2             | 16.4                              |
| PX160BBS      | 2-1/2     | 6         | 60.00  | 37,800          | 1560     | 16.63 | 12.94 | 8.50  | 5.13 | 3.06 | 210.8             | 39.6                              |
| PX200BBS      | 2-7/8     | 6-3/4     | 131.00 | 82,500          | 1300     | 20.00 | 15.56 | 9.38  | 6.13 | 3.75 | 333.5             | 76.9                              |
| PX240BBS      | 4         | 7-1/2     | 240.00 | 151,200         | 1080     | 24.13 | 14.16 | 10.00 | 5.13 | 4.34 | 481.0             | 188.1                             |
| PX280BBS      | 4-7/16    | 9         | 480.00 | 302,200         | 910      | 28.50 | 18.47 | 12.00 | 7.13 | 4.66 | 802.0             | 440.8                             |
| PX320BBS      | 5-1/2     | 11        | 719.00 | 453,000         | 810      | 32.50 | 20.75 | 14.00 | 8.13 | 4.94 | 1074.0            | 709.6                             |

(1) Weight of complete coupling at maximum bore

(2) Inertia of complete coupling at maximum bore

|                                 |  |   |                                      |
|---------------------------------|--|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-2 | SPECIFICATION/HOW TO ORDER<br>PAGE PT1-3 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|---------------------------------|--|---|--------------------------------------|





# SELECTION/DIMENSIONS

## Bored to Size, Type BBS



### PX60BBS - PX320BBS Part Numbers

| Coupling Size | BS Flange Assemblies Rough Bore | Standard Element |
|---------------|---------------------------------|------------------|
| PX60BBS       | 010300                          | 011106           |
| PX70BBS       | 010301                          | 011107           |
| PX80BBS       | 010302                          | 011108           |
| PX90BBS       | 010303                          | 011109           |
| PX100BBS      | 010304                          | 011110           |
| PX110BBS      | 010305                          | 011111           |
| PX120BBS      | 010306                          | 011112           |
| PX140BBS      | 010530                          | 011114           |
| PX160BBS      | 010531                          | 011117           |
| PX200BBS      | 010532                          | 011120           |
| PX240BBS      | 010533                          | 011124           |
| PX280BBS      | 010528                          | 011457           |
| PX320BBS      | 010529                          | 011463           |

Unless otherwise specified, Size 60-120 BBS flanges are clearance fit per AGMA 9002. Size 140-320 BBS flanges are interference fit per AGMA 9002.

See page \_\_ for additional details.

**Complete coupling consists of: (2) BS Flange Assemblies and (1) Element.**

### PARA-FLEX Elements - Part Numbers

| Element Size | Standard | Neoprene (1) | Cordless (2) | Weight (Lbs) |
|--------------|----------|--------------|--------------|--------------|
|              | Part No. | Part No.     | Part No.     |              |
| PX40         | 011529   | 012455       | 012456       | 0.3          |
| PX50         | 011105   | 011296       | 011285       | 0.7          |
| PX60         | 011106   | 011297       | 011286       | 1.2          |
| PX70         | 011107   | 011298       | 011287       | 1.6          |
| PX80         | 011108   | 011299       | 011288       | 2.2          |
| PX90         | 011109   | 011300       | 011289       | 2.6          |
| PX100        | 011110   | 011301       | 011290       | 2.5          |
| PX110        | 011111   | 011302       | ---          | 3.0          |
| PX120        | 011112   | 011303       | 011292       | 4.8          |
| PX140        | 011114   | 011304       | ---          | 5.6          |
| PX160        | 011117   | 011305       | ---          | 9.1          |
| PX200        | 011120   | 011306       | ---          | 20.8         |
| PX240        | 011124   | 011312       | ---          | 27.0         |
| PX280        | 011457   | 011313       | ---          | 45.0         |
| PX320        | 011463   | 011315       | ---          | 80.0         |

(1) Neoprene element ratings are the same as the standard natural rubber element ratings. (Green sticker or painted mark)

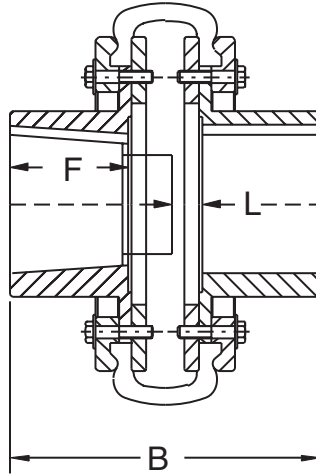
(2) Cordless elements have an average static torsional stiffness 25% of the standard element and approximately 25% of the torque rating. (White sticker or painted mark)

|                                 |  |   |                                      |
|---------------------------------|--|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-2 | SPECIFICATION/HOW TO ORDER<br>PAGE PT1-3 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|---------------------------------|--|---|--------------------------------------|



# SELECTION/DIMENSIONS

## Mill Motor, Type TBS



| Size     | For Mill Motor Size                  | Min. Bore | Max. Bore | HP/100 | Torque (In-Lbs) | Max. RPM | B     | F    | L    | Weight(1) (Lbs.) | Inertia(2) (Lb-Ft <sup>2</sup> ) |
|----------|--------------------------------------|-----------|-----------|--------|-----------------|----------|-------|------|------|------------------|----------------------------------|
| PX60TBS  | 602,802*                             | none      | 1-1/2     | 2.86   | 1,800           | 4000     | 5.78  | 3.00 | 0.34 | 10.1             | 0.21                             |
| PX70TBS  | 603                                  | none      | 2-1/8     | 3.49   | 2,200           | 3600     | 6.75  | 3.50 | 0.50 | 16.1             | 0.32                             |
|          | 802B,802C                            |           |           |        |                 |          | 6.25  | 3.00 | 0.56 |                  |                                  |
| PX80TBS  | 603,803                              | none      | 2-9/16    | 5.72   | 3,605           | 3100     | 7.00  | 3.50 | 0.50 | 23.2             | 0.79                             |
|          | 604804                               |           |           |        |                 |          | 7.00  | 3.50 | 0.50 |                  |                                  |
| PX90TBS  | 804                                  | none      | 2-3/4     | 7.15   | 4,502           | 2800     | 7.28  | 3.50 | 0.53 | 29.9             | 1.4                              |
| PX100TBS | 804                                  | none      | 3-1/4     | 8.58   | 5,402           | 2600     | 7.84  | 3.50 | 0.72 | 44.4             | 2.5                              |
| PX110TBS | 606,806                              | none      | 3-15/16   | 12.30  | 7,750           | 2300     | 8.56  | 4.00 | 0.59 | 62.3             | 4.2                              |
|          | 608                                  |           |           |        |                 |          | 9.06  | 4.50 | 0.16 |                  |                                  |
| PX120TBS | 608,806                              | none      | 4         | 20.00  | 12,605          | 2100     | 9.00  | 4.00 | 0.63 | 81.4             | 7.0                              |
|          | 608,808                              |           |           |        |                 |          | 9.50  | 4.50 | 0.50 |                  |                                  |
| PX140TBS | 808<br>610-810<br>612                | 2-1/4     | 4-1/2     | 44.00  | 27,590          | 1840     | 10.63 | 4.69 | 1.19 | 136.2            | 16.4                             |
|          |                                      |           |           |        |                 |          | 10.63 | 4.69 | 1.06 |                  |                                  |
|          |                                      |           |           |        |                 |          | 11.06 | 5.13 | 0.94 |                  |                                  |
| PX160TBS | 810<br>612-812<br>614                | 2-1/2     | 6         | 60.00  | 37,800          | 1560     | 12.50 | 4.69 | 1.69 | 227.8            | 39.6                             |
|          |                                      |           |           |        |                 |          | 12.94 | 5.13 | 1.56 |                  |                                  |
|          |                                      |           |           |        |                 |          | 12.94 | 5.13 | 1.44 |                  |                                  |
| PX200TBS | 812<br>614-814<br>616-816<br>618-818 | 2-7/8     | 6-3/4     | 131.00 | 82,500          | 1300     | 14.63 | 5.19 | 2.19 | 344.5            | 76.9                             |
|          |                                      |           |           |        |                 |          | 14.63 | 5.19 | 2.06 |                  |                                  |
|          |                                      |           |           |        |                 |          | 15.13 | 5.69 | 1.94 |                  |                                  |
|          |                                      |           |           |        |                 |          | 15.56 | 6.13 | 2.38 |                  |                                  |
| PX240TBS | 818<br>620                           | 4         | 7-1/2     | 240.00 | 151,200         | 1080     | 15.22 | 6.19 | 2.97 | 519              | 188.1                            |
|          |                                      |           |           |        |                 |          | 15.91 | 6.88 | 2.53 |                  |                                  |
| PX280TBS | 622<br>624                           | 5-1/4     | 9         | 480.00 | 302,200         | 910      | 18.78 | 7.44 | 2.22 | 836              | 440.8                            |
|          |                                      |           |           |        |                 |          | 20.78 | 9.44 | 2.22 |                  |                                  |

◆ Refer to page PT1-24 for additional envelope information

\* 1-1/4" per foot taper on diameter



# SELECTION/DIMENSIONS

## Mill Motor, Type TBS

### PX60 - PX280 TBS Part Numbers

| Coupling Size | For Mill Motor Size | TBS Flange Assembly | Standard Element | BS Flange Assembly | Coupling Size | TBS Flange Assy Rough Bore |
|---------------|---------------------|---------------------|------------------|--------------------|---------------|----------------------------|
| PX60TBS       | 602,802*            | 010471              | 011106           | See Page<br>PT1-30 | PX60TBS       | 010510                     |
| PX70TBS       | 603                 | 010472              | 011107           |                    | PX70TBS       | 010511                     |
|               | 802B,802C           | 010473              |                  |                    | PX80TBS       | 010512                     |
| PX80TBS       | 603,803             | 010474              | 011108           |                    | PX90TBS       | 010513                     |
|               | 604,804             |                     |                  |                    | PX100TBS      | 010514                     |
| PX90TBS       | 804                 | 010475              | 011109           |                    | PX110TBS      | 010515                     |
| PX100TBS      | 804                 | 010476              | 011110           |                    | PX120TBS      | 010516                     |
| PX110TBS      | 606,806             | 010477              | 011111           |                    | PX140TBS      | 010524                     |
|               | 608                 | 010478              |                  |                    | PX160TBS      | 010531                     |
| PX120TBS      | 606,806             | 010479              | 011112           |                    | PX200TBS      | 010532                     |
|               | 608,808             | 010480              |                  |                    | PX240TBS      | 010525                     |
| PX140TBS      | 608,808             | 008980              | 011114           |                    | PX280TBS      | 010526                     |
|               | 610,810             | 008981              |                  |                    |               |                            |
|               | 612,812             | 008982              |                  |                    |               |                            |
| PX160TBS      | 610,810             | 008983              | 011117           |                    |               |                            |
|               | 612,812             | 008984              |                  |                    |               |                            |
|               | 614                 | 008985              |                  |                    |               |                            |
| PX200TBS      | 612,812             | 008986              | 011120           |                    |               |                            |
|               | 614,814             | 008987              |                  |                    |               |                            |
|               | 616,816             | 008988              |                  |                    |               |                            |
|               | 618,818             | 008989              |                  |                    |               |                            |
| PX240TBS      | 818                 | 008990              | 011124           |                    |               |                            |
|               | 620                 | 008991              |                  |                    |               |                            |
| PX280TBS      | 622                 | 008992              | 011457           |                    |               |                            |
|               | 624                 | 008993              |                  |                    |               |                            |

Complete coupling consists of:

- (1) TS Flange Assembly,
- (1) BS Flange Assembly, and
- (1) Element

\* Key furnished for shallow keyways.

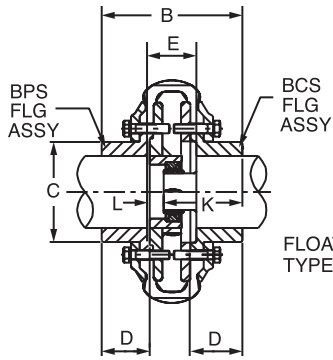
+ Part numbers are finished bore flanges to fit mill motor sizes listed.

|                                 |  |   |                                      |
|---------------------------------|--|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-2 | SPECIFICATION/HOW TO ORDER<br>PAGE PT1-3 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|---------------------------------|--|---|--------------------------------------|

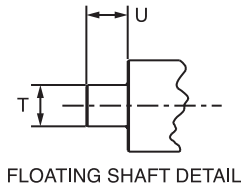


## SELECTION/DIMENSIONS

### Floating Shaft, Type BBPS

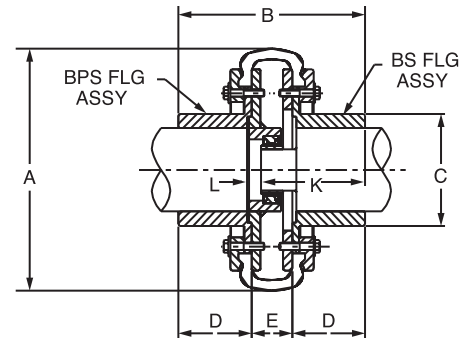


PX60-120 BBPS



FLOATING SHAFT  
TYPE BBPS

FLOATING SHAFT  
TYPE BBPS



PX140-320 BBPS

| Size      | Min. Bore | Max. Bore | HP/100 | Torque (In-Lbs) | Max RPM | A     | B     | C     | D    | E    | K     | L    | T            | U    | Weight (Lbs) | Inertia (Lb-Ft <sup>2</sup> ) |
|-----------|-----------|-----------|--------|-----------------|---------|-------|-------|-------|------|------|-------|------|--------------|------|--------------|-------------------------------|
| PX60BBPS  | none      | 1-1/2     | 2.86   | 1,800           | 4000    | 6.50  | 4.28  | 2.38  | 1.50 | 1.78 | 2.45  | 0.58 | .624/.6225   | 1.28 | 9.8          | 0.21                          |
| PX70BBPS  | none      | 2-1/8     | 3.49   | 2,200           | 3600    | 7.38  | 5.00  | 2.94  | 1.75 | 2.06 | 3.05  | 0.48 | .999/.9975   | 1.58 | 14.6         | 0.32                          |
| PX80BBPS  | none      | 2-9/16    | 5.72   | 3,605           | 3100    | 8.38  | 5.50  | 3.69  | 2.00 | 2.00 | 3.30  | 0.45 | .999/.9975   | 1.58 | 26.9         | 0.79                          |
| PX90BBPS  | none      | 2-3/4     | 7.15   | 4,502           | 2800    | 9.25  | 6.03  | 4.13  | 2.25 | 2.09 | 3.67  | 0.39 | 1.249/1.2475 | 1.70 | 29.0         | 1.4                           |
| PX100BBPS | none      | 3-1/4     | 5.85   | 5,402           | 2600    | 10.00 | 6.97  | 4.94  | 2.63 | 2.16 | 4.13  | 0.44 | 1.249/1.2475 | 1.72 | 40.1         | 2.5                           |
| PX110BBPS | none      | 3-15/16   | 12.30  | 7,750           | 2300    | 11.00 | 7.56  | 5.44  | 3.00 | 2.06 | 4.44  | 0.38 | 1.249/1.2475 | 1.69 | 51.0         | 4.2                           |
| PX120BBPS | none      | 4         | 20     | 12,605          | 2100    | 12.38 | 8.25  | 5.81  | 3.25 | 2.44 | 4.89  | 0.45 | 1.499/1.497  | 1.98 | 75.7         | 7.0                           |
| PX140BBPS | 2-1/4     | 4-1/2     | 44     | 27,590          | 1840    | 14.13 | 9.19  | 7.00  | 3.88 | 2.44 | 5.69  | 0.44 | 1.499/1.497  | 2.00 | 140.2        | 16.4                          |
| PX160BBPS | 2-1/2     | 6         | 60     | 37,800          | 1560    | 16.63 | 12.94 | 8.50  | 5.13 | 3.06 | 7.25  | 0.75 | 1.499/1.497  | 2.94 | 230.8        | 39.6                          |
| PX200BBPS | 2-7/8     | 6-3/4     | 131    | 82,500          | 1300    | 20.00 | 15.56 | 9.38  | 6.13 | 3.69 | 8.78  | 0.84 | 1.999/1.997  | 2.84 | 364.5        | 76.9                          |
| PX240BBPS | 4         | 7-1/2     | 240    | 151,200         | 1080    | 24.13 | 14.16 | 10.00 | 5.13 | 4.28 | 8.06  | 1.16 | 1.999/1.997  | 3.12 | 529.0        | 188.1                         |
| PX280BBPS | 4-7/16    | 9         | 480    | 302,200         | 910     | 28.50 | 18.47 | 12.00 | 7.13 | 4.59 | 10.22 | 1.31 | 1.999/1.997  | 3.28 | 877.0        | 440.8                         |
| PX320BBPS | 5-1/2     | 11        | 719    | 453,000         | 810     | 32.50 | 20.75 | 14.00 | 8.13 | 4.88 | 11.38 | 1.44 | 1.999/1.997  | 3.44 | 1181.0       | 709.6                         |

#### Complete coupling consists of:

- (1) BCS or BS Flange Assembly (depending on size of coupling),
- (1) BPS Flange Assembly, and
- (1) Element.

#### BCS Flange Assembly consists of:

1. External Clamp Ring
2. Internal Clamp Ring
3. BCS Flange

#### BPS Flange Assembly consists of:

1. External Clamp Ring
2. Piloted Internal Clamp Ring
  - a. Includes floating shaft bearing assembly
3. BS Flange

#### PX60BBPS - PX320BBPS Part Numbers

| Coupling Size | BCS Flange Assembly | BPS Flange Assembly | Standard Element |
|---------------|---------------------|---------------------|------------------|
| PX60BBPS      | 010658              | 010657              | 011106           |
| PX70BBPS      | 010660              | 010659              | 011107           |
| PX80BBPS      | 010189              | 010190              | 011108           |
| PX90BBPS      | 010191              | 010192              | 011109           |
| PX100BBPS     | 010193              | 010194              | 011110           |
| PX110BBPS     | 010599              | 010598              | 011111           |
| PX120BBPS     | 010195              | 010196              | 011112           |

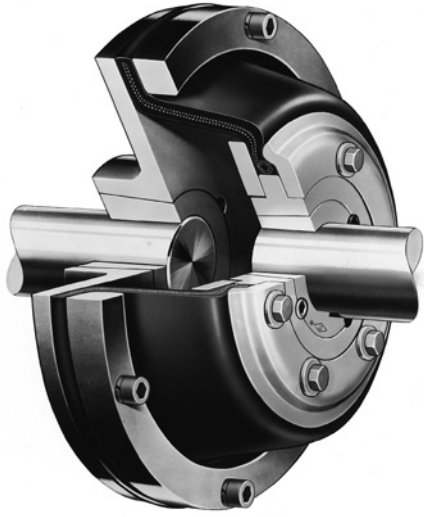
| Coupling Size | BS Flange Assembly | BPS Flange Assembly | Standard Element |
|---------------|--------------------|---------------------|------------------|
| PX140BBPS     | 010530             | 011714              | 011114           |
| PX160BBPS     | 010531             | 011715              | 011117           |
| PX200BBPS     | 010532             | 011716              | 011120           |
| PX240BBPS     | 010533             | 011717              | 011124           |
| PX280BBPS     | 010528             | 011718              | 011457           |
| PX320BBPS     | 010529             | 011719              | 011463           |

|                                 |  |   |                                      |
|---------------------------------|--|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-2 | SPECIFICATION/HOW TO ORDER<br>PAGE PT1-3 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|---------------------------------|--|---|--------------------------------------|



## FEATURES/BENEFITS

### PARA-FLEX High Speed and Flywheel Couplings



#### HIGH SPEED TYPE

- Compensates for misalignment
- Cushions thrust loads
- Absorbs vibration and shock
- Prolongs bearing life
- Available in TAPER-LOCK and bored to sizes



#### FLYWHEEL TYPE

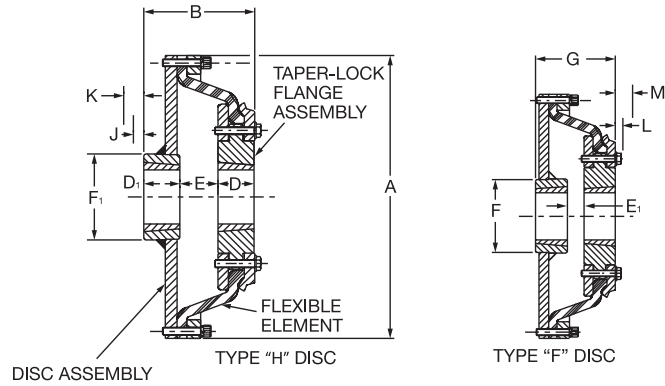
- Specifically designed to connect the flexible element to standard SAE flywheel bolt patterns
- Available in TAPER-LOCK and bored to configurations



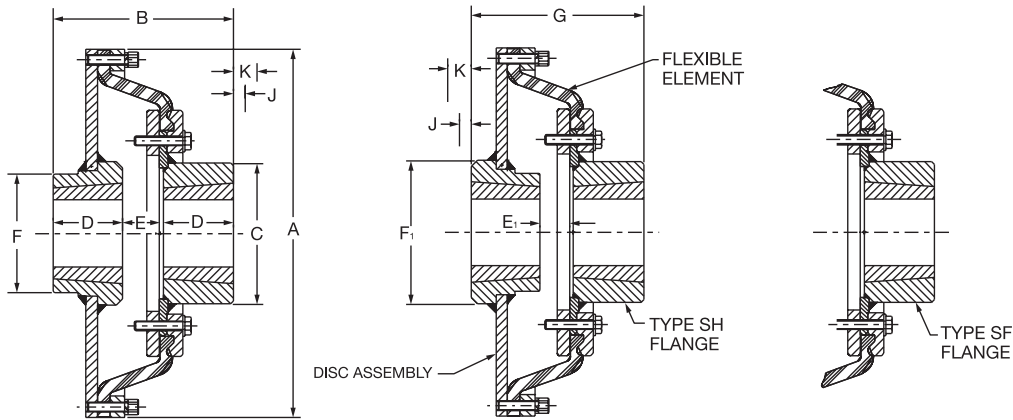


# SELECTION/DIMENSIONS

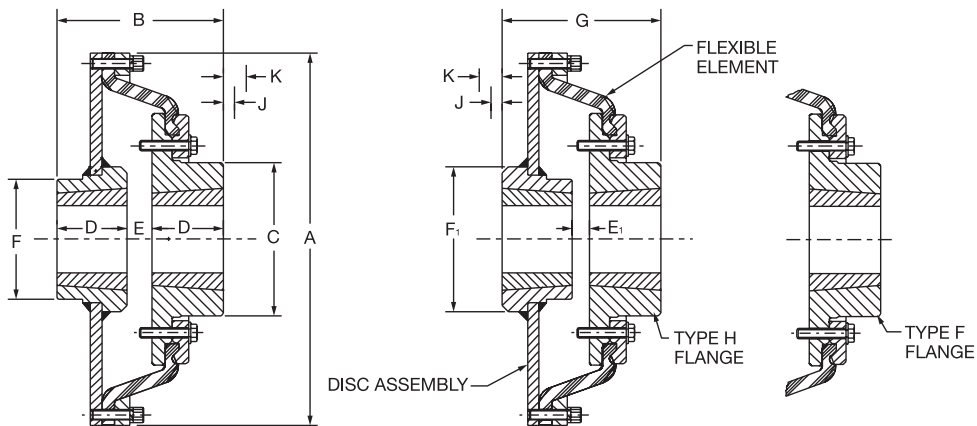
## High Speed, TAPER-LOCK



PH87 THRU PH131



PH172 thru PH252 STEEL FLANGE ASSEMBLY



PH172 & PH192 IRON FLANGE ASSEMBLY



# SELECTION/DIMENSIONS

## High Speed, TAPER-LOCK

| Coupling Size | Bushing Size | Min. Bore | Max. Bore | HP/100 | Torque (In-Lbs) | Max. RPM         |              | Weight (Lbs) |           | Inertia (Lb-Ft <sup>2</sup> ) |           |
|---------------|--------------|-----------|-----------|--------|-----------------|------------------|--------------|--------------|-----------|-------------------------------|-----------|
|               |              |           |           |        |                 | Gray Iron Flange | Steel Flange | Iron Flg     | Steel Flg | Iron Flg                      | Steel Flg |
| PH87          | +            | 1/2       | +         | 3.0    | 1890            | 6000             | .....        | 19.5         | .....     | 1.32                          | .....     |
| PH96          | *            | 1/2       | *         | 4.5    | 2835            | 5230             | .....        | 27.2         | .....     | 2.44                          | .....     |
| PH116         | 2517         | 1/2       | 2-11/16   | 7.1    | 4470            | 4050             | .....        | 40.8         | .....     | 4.92                          | .....     |
| PH131         | 2517         | 1/2       | 2-11/16   | 9.5    | 5985            | 3750             | .....        | 59.7         | .....     | 8.87                          | .....     |
| PH172         | 3535         | 1-3/16    | 3-15/16   | 23.0   | 14490           | 1860             | 2800         | 138.2        | 128.5     | 31.74                         | 29.98     |
| PH192         | 4040         | 1-7/16    | 4-7/16    | 47.0   | 29610           | 1620             | 2430         | 219.6        | 219.6     | 51.09                         | 50.37     |
| PH213         | 4545         | 1-15/16   | 4-15/16   | 90.0   | 56700           | .....            | 2130         | .....        | 291.2     | 102.3                         | 90.22     |
| PH252         | 5050         | 2-7/16    | 5-5/16    | 135.0  | 85050           | .....            | 1945         | .....        | 389.9     | 144.1                         | 133.7     |

| Coupling Size | A     | B        |           | C        |           | D    | D <sup>1</sup> | E        |           |
|---------------|-------|----------|-----------|----------|-----------|------|----------------|----------|-----------|
|               |       | Iron Flg | Steel Flg | Iron Flg | Steel Flg |      |                | Iron Flg | Steel Flg |
| PH87          | 9.44  | 3.53     | .....     | .....    | .....     | 1.00 | 1.75           | 0.81     | .....     |
| PH96          | 10.31 | 4.30     | .....     | .....    | .....     | 1.25 | 1.75           | 1.33     | .....     |
| PH116         | 12.31 | 4.44     | .....     | .....    | .....     | 1.75 | 1.75           | 1.14     | .....     |
| PH131         | 13.81 | 5.45     | .....     | .....    | .....     | 1.75 | 1.75           | 1.95     | .....     |
| PH172         | 18.31 | 8.06     | 8.97      | 7.50     | 7.00      | 3.50 | .....          | 1.06     | 1.88      |
| PH192         | 20.31 | 9.31     | 10.25     | 8.63     | 8.50      | 4.00 | .....          | 1.31     | 2.25      |
| PH213         | 22.50 | .....    | 11.31     | .....    | 8.75      | 4.50 | .....          | .....    | 2.31      |
| PH252         | 26.50 | .....    | 14.31     | .....    | 9.50      | 5.00 | .....          | .....    | 4.31      |

| Coupling Size | E <sup>1</sup> |           | F    | F <sup>1</sup> | G        |           | J★   | K†   | L★    | M†    |
|---------------|----------------|-----------|------|----------------|----------|-----------|------|------|-------|-------|
|               | Iron Flg       | Steel Flg |      |                | Iron Flg | Steel Flg |      |      |       |       |
| PH87          | 0.50           | .....     | 4.12 | 4.19           | 3.28     | .....     | 1.00 | 1.63 | 0.81  | 1.06  |
| PH96          | 0.45           | .....     | 4.12 | 4.19           | 3.42     | .....     | 1.00 | 1.63 | 0.94  | 1.38  |
| PH116         | 0.33           | .....     | 4.12 | 4.19           | 3.63     | .....     | 1.00 | 1.63 | 1.00  | 1.63  |
| PH131         | 0.77           | .....     | 4.12 | 4.19           | 4.27     | .....     | 1.00 | 1.63 | 1.00  | 1.63  |
| PH172         | 0.63           | 1.44      | 6.25 | 7.12           | 7.62     | 8.53      | 1.31 | 2.69 | ..... | ..... |
| PH192         | 0.38           | 1.31      | 7.75 | 8.62           | 8.38     | 9.31      | 1.63 | 3.38 | ..... | ..... |
| PH213         | .....          | 1.44      | 8.75 | 9.75           | .....    | 10.44     | 1.94 | 4.06 | ..... | ..... |
| PH252         | .....          | 2.94      | 9.50 | 10.88          | .....    | 12.94     | 2.31 | 4.81 | ..... | ..... |

★ Space required to tighten bushing with shortened hex key or to loosen screws to permit removal of the hub by a puller

† Space required to loosen bushing with the shortened hex key using screws as hack screws - no puller required.

### PH87 - PH252 Part Numbers

| Coupling Size | TAPER-LOCK Flange |             |             |        |              |         | Disc Assembly | High Speed Element | Bushing Size |
|---------------|-------------------|-------------|-------------|--------|--------------|---------|---------------|--------------------|--------------|
|               | Std Flange        | Flange Size | Iron Flange |        | Steel Flange |         |               |                    |              |
|               |                   |             | Type H      | Type F | Type SH      | Type SF |               |                    |              |
| PH87          | 010603            | PX70        | .....       | .....  | .....        | .....   | 011307        | 011227             | +            |
| PH96          | 010604            | PX80        | .....       | .....  | .....        | .....   | 011308        | 011228             | *            |
| PH116         | 010606            | PX100       | .....       | .....  | .....        | .....   | 011310        | 011230             | 2517         |
| PH131         | 010607            | PX110       | .....       | .....  | .....        | .....   | 011311        | 011231             | 2517         |
| PH172         | .....             | PX140       | 011134      | 011154 | 010290       | 010294  | 011314        | 011234             | 3535         |
| PH192         | .....             | PX160       | 011137      | 011157 | 010291       | 010295  | 011316        | 011236             | 4040         |
| PH213         | .....             | PX190       | .....       | .....  | 010292       | 010296  | 011319        | 011239             | 4545         |
| PH252         | .....             | PX220       | .....       | .....  | 010293       | 010297  | 011322        | 011242             | 5050         |

+ Flange assembly uses a 1610 bushing with 1-11/16 max. bore

Disc assembly uses a 2517 bushing with 2-11/16 max. bore

\* Flange assembly uses a 2012 bushing with 2-1/8 max. bore

Disc assembly uses a 2517 bushing with 2-11/16 max. bore

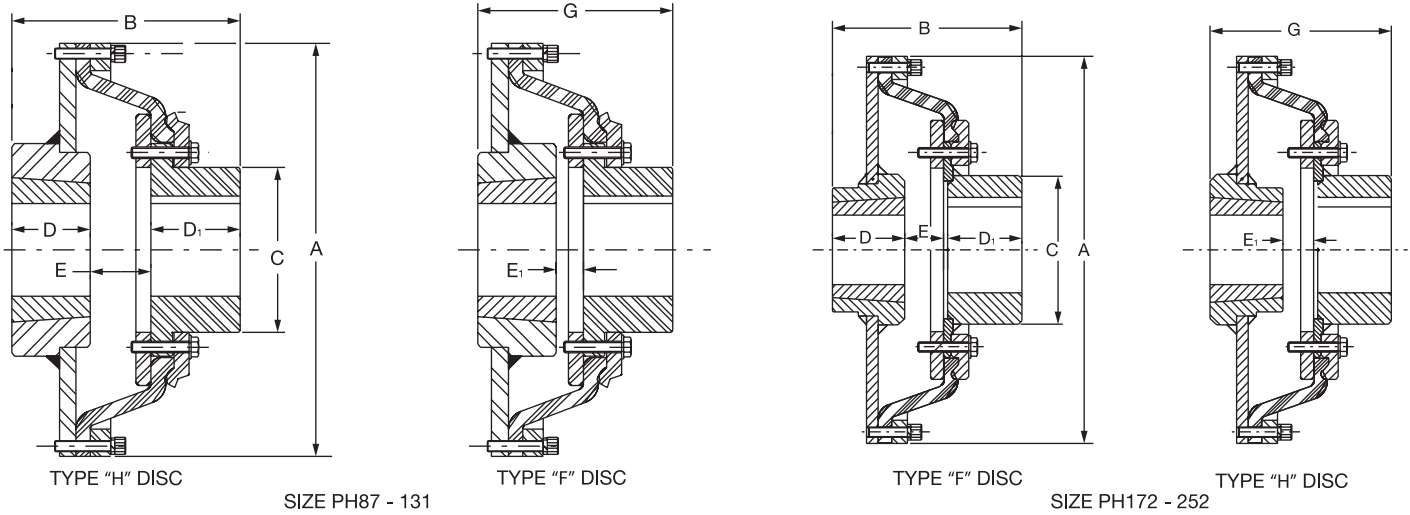
**Complete coupling consists of:**  
**(1) TAPER-LOCK Flange Assembly, (1) TAPER-LOCK Disc Assembly, & (1) High speed Element.**  
**TAPER-LOCK bushings must be ordered separately.**  
**Refer to bushing section PT6-16.**

|                                  |                                    |   |                                      |
|----------------------------------|------------------------------------|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-17 | SELECTION/DIMENSION<br>PAGE PT1-18 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|------------------------------------|---|--------------------------------------|



## SELECTION/DIMENSIONS

### High Speed, Bored to Size



| Coupling Size | BS Flange Assembly |          | TAPER-LOCK Disc Assembly |          | A     | B     | C    | D    | D1   | E    | E1   | G     | Weight (Lbs) | Inertia (Lb-Ft <sup>2</sup> ) |
|---------------|--------------------|----------|--------------------------|----------|-------|-------|------|------|------|------|------|-------|--------------|-------------------------------|
|               | Min Bore           | Max Bore | Min Bore                 | Max Bore |       |       |      |      |      |      |      |       |              |                               |
| PH87B         | none               | 2-1/8    | 1/2                      | 2-11/16  | 9.44  | 4.59  | 2.94 | 1.75 | 1.75 | 1.09 | 0.81 | 4.31  | 20.1         | 1.33                          |
| PH96B         | none               | 2-9/16   | 1/2                      | 2-11/16  | 10.31 | 5.44  | 3.69 | 1.75 | 2.00 | 1.69 | 0.81 | 4.56  | 28.0         | 2.47                          |
| PH116B        | none               | 3-1/4    | 1/2                      | 2-11/16  | 12.31 | 6.13  | 4.94 | 1.75 | 2.63 | 1.75 | 0.97 | 5.31  | 42.8         | 5.31                          |
| PH131B        | none               | 3-15/16  | 1/2                      | 2-11/16  | 13.81 | 7.25  | 5.44 | 1.75 | 3.00 | 2.50 | 1.31 | 6.06  | 60.1         | 9.08                          |
| PH172B        | 2-1/4              | 4-1/2    | 1-3/16                   | 3-15/16  | 18.31 | 9.06  | 7.00 | 3.50 | 3.88 | 1.88 | 1.44 | 8.63  | 135.2        | 30.98                         |
| PH192B        | 2-1/2              | 6        | 1-7/16                   | 4-7/16   | 20.31 | 11.19 | 8.50 | 4.00 | 5.13 | 2.25 | 1.31 | 10.25 | 220.6        | 54.27                         |
| PH213B        | 2-1/2              | 6-1/4    | 1-15/16                  | 4-15/16  | 22.50 | 11.31 | 8.75 | 4.50 | 4.69 | 2.31 | 1.44 | 10.44 | 289.2        | 91.62                         |
| PH252B        | 2-7/8              | 6-7/8    | 2-7/16                   | 5-5/16   | 26.50 | 14.31 | 9.50 | 5.00 | 5.19 | 4.31 | 2.94 | 12.94 | 379.9        | 135.9                         |

| Coupling Size | BS Flange Assembly | TAPER-LOCK Disc Assembly | TAPER-LOCK Bushing Size | High Speed Element |
|---------------|--------------------|--------------------------|-------------------------|--------------------|
| PH87B         | 010301             | 011307                   | 2517                    | 011227             |
| PH96B         | 010302             | 011308                   | 2517                    | 011228             |
| PH116B        | 010304             | 011310                   | 2517                    | 011230             |
| PH131B        | 010305             | 011311                   | 2517                    | 011231             |
| PH172B        | 010530             | 011314                   | 3535                    | 011234             |
| PH192B        | 010531             | 011316                   | 4040                    | 011236             |
| PH213B        | 010508             | 011319                   | 4545                    | 011239             |
| PH252B        | 010509             | 011322                   | 5050                    | 011242             |

Complete coupling consists of: (1) BS Flange Assembly, (1) TAPER-LOCK Disc Assembly, (1) High Speed Element, and (1) TAPER-LOCK Bushing. TAPER-LOCK bushings must be ordered separately. Refer to bushing section PT6-16.

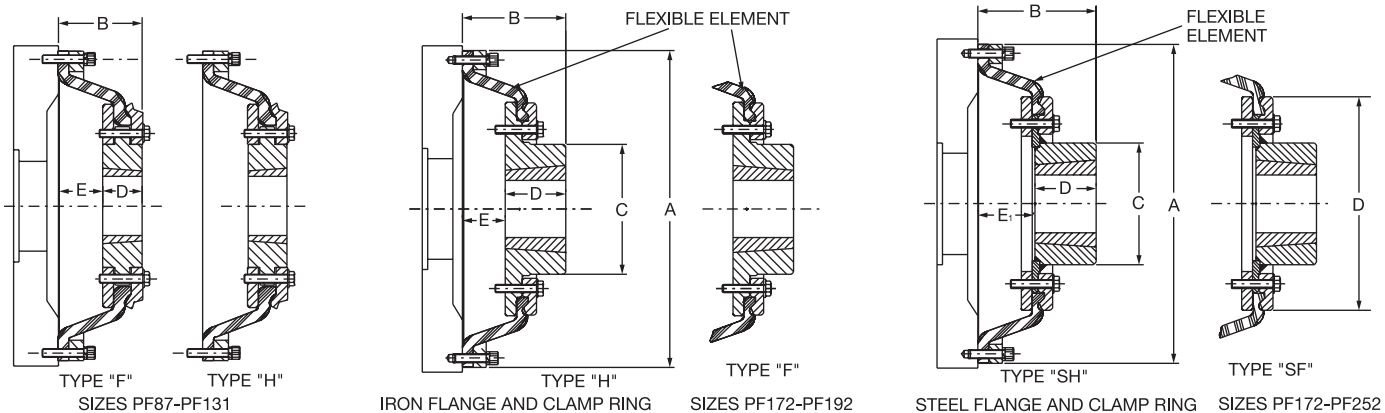
Unless otherwise specified, Size 60-120 BS flanges are clearance fit per AGMA 9002. Size 140-320 BS flanges are interference fit per AGMA 9002. See page \_\_ for additional details.

|                                  |                                    |   |                                      |
|----------------------------------|------------------------------------|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-17 | SELECTION/DIMENSION<br>PAGE PT1-18 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|------------------------------------|---|--------------------------------------|



# SELECTION/DIMENSIONS

## Flywheel, TAPER-LOCK



| Coupling Size | Bushing Size | Min. Bore | Max. Bore | HP/100 | Torque (In-Lbs) | Max. RPM         |              | A     | B         |            |
|---------------|--------------|-----------|-----------|--------|-----------------|------------------|--------------|-------|-----------|------------|
|               |              |           |           |        |                 | Gray Iron Flange | Steel Flange |       | Iron Flg. | Steel Flg. |
| PF87          | 1610         | 1/2       | 1-11/16   | 3.00   | 1890            | 6000             | 6000         | 9.44  | 2.69      | .....      |
| PF96          | 2012         | 1/2       | 2-1/8     | 4.50   | 2835            | 5230             | 5230         | 10.31 | 2.83      | .....      |
| PF116         | 2517         | 1/2       | 2-11/16   | 7.10   | 4470            | 4050             | 4050         | 12.31 | 3.14      | .....      |
| PF131         | 2517         | 1/2       | 2-11/16   | 9.50   | 5985            | 3750             | 3750         | 13.81 | 3.70      | .....      |
| PF172         | 3535         | 1-3/16    | 3-15/16   | 23.00  | 14490           | 1860             | 2800         | 18.31 | 5.81      | 6.72       |
| PF192         | 4040         | 1-7/16    | 4-7/16    | 47.00  | 29610           | 1620             | 2430         | 20.31 | 6.56      | 7.50       |
| PF213         | 4545         | 1-15/16   | 4-15/16   | 90.00  | 56700           | .....            | 2130         | 22.50 | .....     | 9.00       |
| PF252         | 5050         | 2-7/16    | 5-5/16    | 135.00 | 85050           | .....            | 1945         | 26.50 | .....     | 10.81      |

| Coupling Size | Bushing Size | C         |            | D    | E    | E1   | Weight (Lbs) Less Bushing |            | Inertia (Lb-FT <sup>2</sup> ) |            |
|---------------|--------------|-----------|------------|------|------|------|---------------------------|------------|-------------------------------|------------|
|               |              | Iron Flg. | Steel Flg. |      |      |      | Iron Flgs                 | Steel Flgs | Iron Flgs                     | Steel Flgs |
| PF87          | 1610         | .....     | .....      | 1.00 | 1.34 | .... | 9.9                       | .....      | 0.6                           | .....      |
| PF96          | 2012         | .....     | .....      | 1.25 | 1.58 | .... | 13.5                      | .....      | 1.05                          | .....      |
| PF116         | 2517         | .....     | .....      | 1.75 | 1.39 | .... | 22.3                      | .....      | 2.35                          | .....      |
| PF131         | 2517         | .....     | .....      | 1.75 | 1.95 | .... | 33.3                      | .....      | 4.35                          | .....      |
| PF172         | 3535         | 7.50      | 7.00       | 3.50 | 2.31 | 3.12 | 87.2                      | 77.5       | 17.49                         | 15.73      |
| PF192         | 4040         | 8.63      | 8.50       | 4.00 | 2.56 | 3.50 | 128.6                     | 128.6      | 28.84                         | 28.12      |
| PF213         | 4545         | .....     | 8.75       | 4.50 | -    | 4.50 | 221.2                     | 190.2      | 74.47                         | 64.36      |
| PF252         | 5050         | .....     | 9.50       | 5.00 | -    | 5.81 | 297.9                     | 260.9      | 121.79                        | 111.38     |

### PF87 THRU PF252 Part Numbers

| Coupling Size | TAPER-LOCK Flange |             |        |              |         | Bolt Ring Assembly | High Speed Element | T-L Bushing Size |
|---------------|-------------------|-------------|--------|--------------|---------|--------------------|--------------------|------------------|
|               | Std Flange        | Iron Flange |        | Steel Flange |         |                    |                    |                  |
|               |                   | Type H      | Type F | Type SH      | Type SF |                    |                    |                  |
| PF87          | 010603            | .....       | .....  | .....        | .....   | 011247             | 011227             | 1610             |
| PF96          | 010604            | .....       | .....  | .....        | .....   | 011248             | 011228             | 2012             |
| PF116         | 010606            | .....       | .....  | .....        | .....   | 011250             | 011230             | 2517             |
| PF131         | 010607            | .....       | .....  | .....        | .....   | 011251             | 011231             | 2517             |
| PF172         | .....             | 011134      | 011154 | 010290       | 010294  | 011254             | 011234             | 3535             |
| PF192         | .....             | 011137      | 011157 | 010291       | 010295  | 011256             | 011236             | 4040             |
| PF213         | .....             | .....       | .....  | 010292       | 010296  | 011259             | 011239             | 4545             |
| PF252         | .....             | .....       | .....  | 010293       | 010297  | 011262             | 011242             | 5050             |

Complete coupling consists of: (1) TAPER-LOCK Flange Assembly (as selected), (1) Bolt Ring Assembly, (1) High Speed Element, and (1) TAPER-LOCK Bushing. TAPER-LOCK Bushings must be ordered separately.

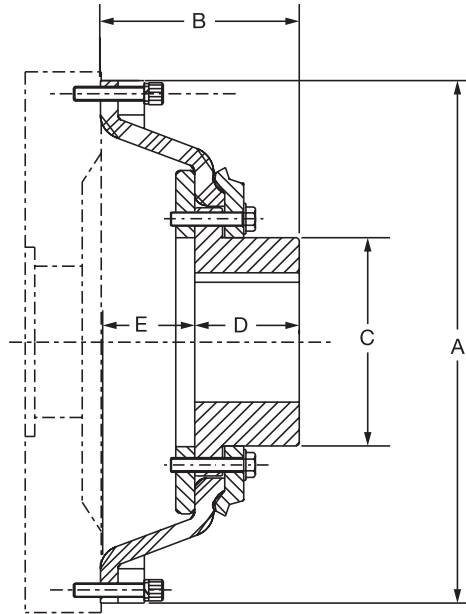
See page PT1-34 for Flywheel & Power Take Off housing information. Refer to bushing section PT6-16.

|                                  |                                    |   |                                      |
|----------------------------------|------------------------------------|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-17 | SELECTION/DIMENSION<br>PAGE PT1-18 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|------------------------------------|---|--------------------------------------|



# SELECTION/DIMENSIONS

## Flywheel, Bored to Size



### PF87B THRU PF252B Bored-To-Size Flywheel Couplings

| Coupling Size | Min. Bore | Max. Bore | HP/100 | Torque (In-Lbs) | Max. RPM Steel Flg | A     | B     | C    | D    | E    | Weight (Lbs) | Inertia (Lb-Ft <sup>2</sup> ) |
|---------------|-----------|-----------|--------|-----------------|--------------------|-------|-------|------|------|------|--------------|-------------------------------|
| PF87B         | none      | 2-1/8     | 3.0    | 1890            | 6000               | 9.44  | 3.38  | 2.94 | 1.75 | 1.63 | 10.5         | 0.61                          |
| PF96B         | none      | 2-9/16    | 4.5    | 2835            | 5230               | 10.31 | 3.94  | 3.69 | 2.00 | 1.94 | 14.3         | 1.08                          |
| PF116B        | none      | 3-1/4     | 7.1    | 4470            | 4050               | 12.31 | 4.68  | 4.94 | 2.63 | 2.00 | 24.3         | 2.47                          |
| PF131B        | none      | 3-15/16   | 9.5    | 5980            | 3750               | 13.81 | 5.50  | 5.44 | 3.00 | 2.50 | 33.7         | 4.56                          |
| PF172B        | 2-1/4     | 4-1/2     | 23.0   | 14490           | 2800               | 18.31 | 6.81  | 7.00 | 3.88 | 3.13 | 84.2         | 16.73                         |
| PF192B        | 2-1/2     | 6         | 47.0   | 29610           | 2430               | 20.31 | 8.44  | 8.50 | 5.13 | 3.50 | 129.6        | 32.02                         |
| PF213B        | 2-1/2     | 6-1/4     | 90.0   | 56700           | 2130               | 22.50 | 9.00  | 8.75 | 4.69 | 4.50 | 188.2        | 65.76                         |
| PF252B        | 2-7/8     | 6-7/8     | 135.0  | 85050           | 1945               | 26.50 | 10.81 | 9.50 | 5.19 | 5.81 | 250.9        | 113.58                        |

### PF87 - PF252B Part Numbers

| Coupling Size | BS Flange Assembly | Bolt Ring Assembly | High Speed Element |
|---------------|--------------------|--------------------|--------------------|
| PF87B         | 010301             | 011247             | 011227             |
| PF96B         | 010302             | 011248             | 011228             |
| PF116B        | 010304             | 011250             | 011230             |
| PF131B        | 010305             | 011251             | 011231             |
| PF172B        | 010530             | 011254             | 011234             |
| PF192B        | 010531             | 011256             | 011236             |
| PF213B        | 010508             | 011259             | 011239             |
| PF252B        | 010509             | 011262             | 011242             |

### SAE Power Take Off & Flywheel Info.

| Coupling Size | Fits Within These SAE Power Take-Off Housings | SAE Flywheel      |              |         |
|---------------|---|-------------------|--------------|---------|
|               |   | Bolt Circle Diam. | Tapped Holes |         |
|               |   |                   | No.          | Size    |
| PF87          | 6,5   | 8-3/4             | 8            | 5/16-18 |
| PF96          | 4,3   | 9-5/8             | 6            | 3/8-16  |
| PF116         | 4,3,2,1                                       | 11-5/8            | 8            | 3/8-16  |
| PF131         | 3,2,1,0                                       | 13-1/8            | 8            | 3/8-16  |
| PF172         | 0   | 17-1/4            | 8            | 1/2-13  |
| PF192         | 0   | 19-1/4            | 8            | 1/2-13  |
| PF213         | 0   | 21-3/8            | 6            | 5/8-11  |
| PF252         | 0   | 25-1/4            | 12           | 5/8-11  |

Complete coupling consists of: (1) BS Flange Assembly, (1) Bolt Ring Assembly, and (1) High Speed Element.

Unless otherwise specified, Size 60-120 BS flanges are clearance fit per AGMA 9002. Size 140-320 BS flanges are interference fit per AGMA 9002.

See page \_\_ for additional details.

|                                  |                                    |   |                                      |
|----------------------------------|------------------------------------|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-17 | SELECTION/DIMENSION<br>PAGE PT1-18 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|------------------------------------|---|--------------------------------------|





# FEATURES/BENEFITS

## D-FLEX Couplings



### FLEXIBLE SOLUTIONS LOW COST TYPE J COUPLINGS OFFERED IN FOUR SIZES

- Features zinc die-cast flanges that are bored to size
- Accommodates applications through 10 HP at 1750 RPM
- Available with EPDM or Neoprene sleeves
- Shaft attachment with two setscrews at 65°



### TYPE S COUPLINGS FEATURE AGMA 9 BALANCED FLANGES OFF THE SHELF

- High-strength, cast iron flanges that are finished bored for AGMA clearance fit
- Ionized powder coated flanges for superior corrosion protection
- Available with EPDM, Neoprene or Hytel\* sleeves
- Shaft attachment with two setscrews at 65°



### TYPE B COUPLINGS OFFERED WITH STANDARD QD† BUSHING SHAFT ATTACHMENT

- Constructed from high-strength cast iron
- Available with EPDM or Neoprene sleeves



### TYPE SC SPACER COUPLINGS SATISFY STANDARD SPACING REQUIREMENTS FOR PUMP APPLICATIONS

- Accommodates ANSI and ISO standard between shaft end dimensions, with custom spacer dimensions available on demand
- Features AGMA 9 balanced flanges & drop-out center for easy equipment maintenance
- Available with EPDM, Neoprene or Hytrel sleeves
- Uses H & HS shaft hubs that are bored to size for slip fit or offered with plain bore for reboring
- Shaft attachment with two setscrews at 65°
- Shaft hub flats are used for holding shafts stationary while loosening or tightening grade 8 bolts

★ Registered trademark of DuPont

† QD is a registered trademark of Emerson Electric Co.



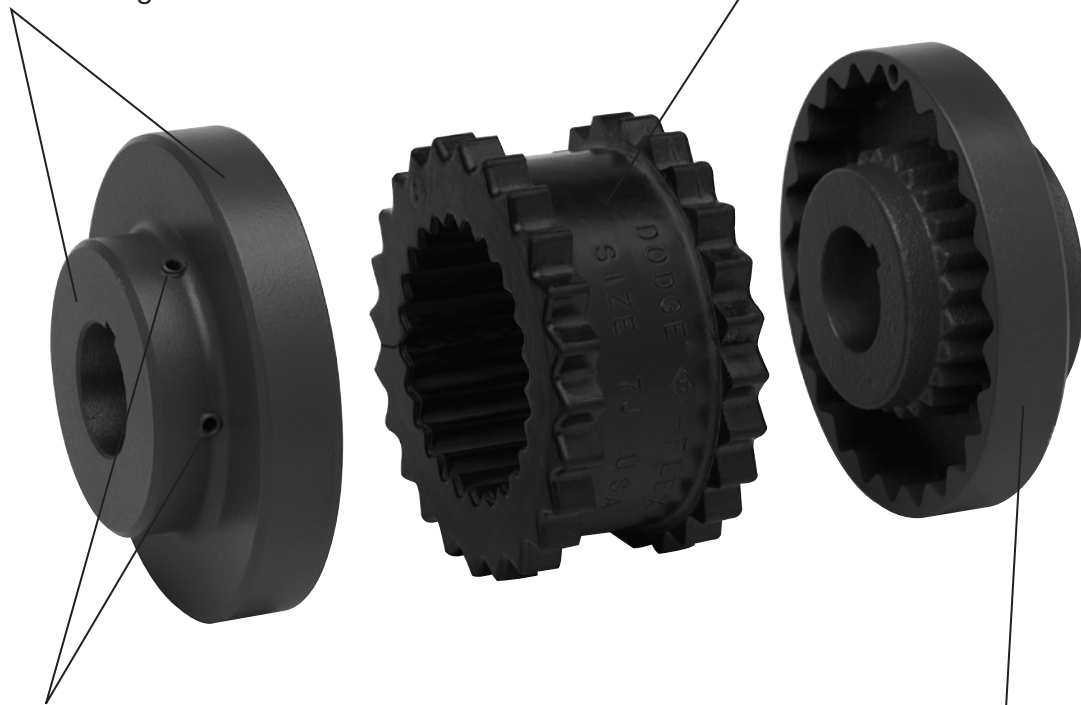
# FEATURES/BENEFITS

## D-FLEX Couplings

### ADDED VALUE

Outside diameter concentric to bore for ease in alignment

Rounded EPDM and Neoprene element edges for full tooth engagement, even load distribution, and reduced stress build up at edges



Two setscrews at 65° on Type J flanges, Type S flanges & Type SC-H hubs for optimum shaft attachment. Holding force is 10% greater than two setscrews at 90°

Type S and SC flanges are balanced to AGMA 9 specifications for reduced vibration

ATEX Approved



- All documents and markings included with standard product

### INTERCHANGEABLE COMPONENTS MAKES INSTALLATION QUICK AND EASY

### NO LUBRICATION ASSURES TROUBLE-FREE OPERATION

- Interchangeable with other elastomeric sleeve couplings
- Slides into position for snug fit

- No metal-to-metal contact
- Provides clean, quiet, trouble-free performance

**NOTE:** All instruction manuals for D-FLEX Coupling and QD and TL Bushings available on [www.baldor.com](http://www.baldor.com)



## D-FLEX

### SPECIFICATION

D-FLEX Couplings employ a molded, non-lubricated elastomeric flexing sleeve loaded in shear. The flexible sleeve shall be of EPDM, Neoprene, or Hytrel. The compound of EPDM shall be suitable for operation in ambient temperature from -30°F to +275°F, Neoprene 0°F to +200°F, and Hytrel -65°F to +250°F. Both EPDM and Neoprene sleeves shall have torsional flexing capability of 15° and accommodate 1° of angular misalignment. Hytrel sleeves, suitable to transmit four times the power of EPDM or Neoprene, has torsional flexing capability of 7° and 1/4° of angular misalignment.

The flexible sleeve is connected with external and internal gear teeth that engage with mating teeth in each flange. The coupling assemblies have optional methods of attachment to the shaft including but not limited to: clearance fit or QD Bushings. Clearance fits are supplied with an industry standard keyway and two set screws, one over the key and one at 65°.

Spacer Couplings consist of two hubs and a center assembly consisting of two spacer spacer flanges and one flexible element. The center assembly is easily removable to facilitate maintenance on pumps or other connected equipment and must be replaceable without disturbing the coupled equipment and without realignment.

D-Flex couplings utilizing EPDM and Neoprene elements are static conductive.

### HOW TO ORDER


Standard couplings consist of:

- (2) Flange Assemblies
- (1) Flexible Sleeve

Spacer Couplings consist of:

- (2) Shaft Hubs
- (2) Spacer Flanges
- (1) Flexible Sleeve

### NOMENCLATURE



**6 JE / 2 - 6J X 7/8**

- SIZE** ———— 6
- SLEEVE** ———— JE  
(JE, JES, E, JN, JNS, N, H, HS)
- FLANGE QTY.** ———— 2
- FLANGE SIZE AND TYPE** ———— 6J X
- FLANGE BORE** ———— 7/8

For selection method, please refer to page PT1-83

|                                  |                                     |   |                                      |
|----------------------------------|-------------------------------------|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-23 | SELECTION/DIMENSIONS<br>PAGE PT1-26 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|-------------------------------------|---|--------------------------------------|



# SELECTION/DIMENSIONS

## D-FLEX Couplings

**FOUR-WAY FLEXING ACTION HANDLES SHOCK, VIBRATION & MISALIGNMENT**

PT Component Reference Guide

Couplings

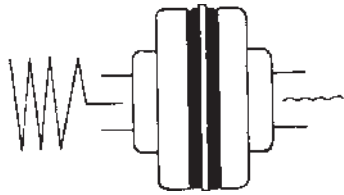
Clutches and Brakes

FLEXIDYNE

Fluid Couplings

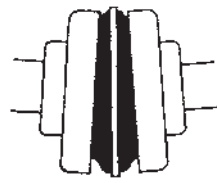
TORQUE-TAMER

Bushings



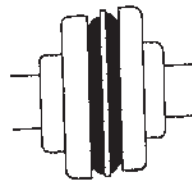
**TORSIONAL**

Absorbs torsional shock, dampens torsional vibrations



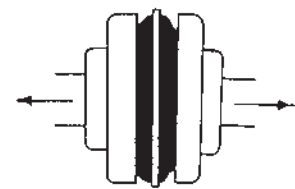
**ANGULAR**

Allows for angular misalignment



**PARALLEL**

Minimizes bearing loads, absorbs parallel misalignment with less wear and energy loss



**AXIAL**

Allows for shaft end-float

### D-FLEX Coupling Sleeves

|                              | <b>EPDM Rubber</b>         | <b>Neoprene</b>            | <b>Hytel(1)</b>                         |
|------------------------------|----------------------------|----------------------------|---|
| One-Piece Solid Construction | JE                         | JN                         | H                                       |
| One-Piece Split Construction | JES                        | JNS                        | -                                       |
| Two-Piece Construction       | E                          | N                          | HS                                      |
| Sizes Offered                | 3 - 10 JE, JES<br>4 - 16 E | 3 - 10 JN, JNS<br>4 - 14 N | 6 - 12 H, HS                            |
| Temperature Range            | -30°F to +275°F            | 0°F to +200°F              | -65°F to +250°F                         |
| Max Angular                  | 1°                         | 1°                         | 1/4°                                    |
| Max Parallel(2)              | .010" - .062"              | .010" - .062"              | .010" - .035"                           |
| Axial End-Float(2)(3)        | .03" - .125"               | .03" - .125"               | .06" - .125"                            |
| Torsional Flexibility        | 15° Wind Up                | 15° Wind Up                | 7° Wind Up                              |
| Application Use              | General                    | Good Oil Resistance        | Downsizing For Use Of Smaller Couplings |

(1) Do not use with J or B flanges or as a replacement for other sleeves

(2) Depends on coupling size.

(3) Increase the E dimension by this amount to accommodate end float.



# SELECTION/DIMENSIONS

## D-FLEX Couplings

### D-FLEX Coupling Sleeves - Part Numbers

| Coupling Size | EPDM   |        |        | Neoprene |        |        | Hytrel |        |
|---------------|--------|--------|--------|----------|--------|--------|--------|--------|
|               | JE     | JES    | E      | JN       | JNS    | N      | H      | HS     |
| 3             | 004208 | 004242 |        | 004209   | 004243 |        |        |        |
| 4             | 004210 | 004244 | 022190 | 004211   | 004245 | 022211 |        |        |
| 5             | 004212 | 004246 | 022191 | 004213   | 004247 | 022212 |        |        |
| 6             | 004214 | 004248 | 022192 | 004215   | 004249 | 022213 | 022183 | 022232 |
| 7             | 004216 | 004250 | 022193 | 004217   | 004251 | 022214 | 022184 | 022233 |
| 8             | 004218 | 004252 | 022194 | 004219   | 004253 | 022215 | 022185 | 022234 |
| 9             | 004220 | 004254 | 022195 |          |        | 022216 | 022186 | 022235 |
| 10            | 004222 | 004256 | 022196 |          |        | 022217 | 022187 | 022236 |
| 11            |        |        | 022197 |          |        | 022218 | 022188 | 022237 |
| 12            |        |        | 022198 |          |        | 022219 | 022189 | 022238 |
| 13            |        |        | 021990 |          |        | 021993 |        | 022239 |
| 14            |        |        | 021991 |          |        | 021994 |        | 425730 |
| 16            |        |        | 021992 |          |        |        |        |        |

### D-FLEX Flange/Sleeve Compatibility

| Flange Style     | EPDM              |              | Neoprene          |              | Hytrel       |               |
|------------------|-------------------|--------------|-------------------|--------------|--------------|---------------|
|                  | JE/JES<br>1 Piece | E<br>2 Piece | JN/JNS<br>1 Piece | N<br>2 Piece | H<br>1 Piece | HS<br>2 Piece |
| Type J           | √                 | √            | √                 | √            |              |               |
| Type S           | √                 | √            | √                 | √            | √            | √             |
| Type B<br>Bushed | √                 | √            | √                 | √            |              |               |
| SC<br>Spacer     | √                 | √            | √                 | √            | √            | √             |

### D-FLEX Section/Ratings Data

| Element Size | Max. Bore     |         |         |         | Max RPM | EPDM & Neoprene |                       | Hytrel |                       |
|--------------|---------------|---------|---------|---------|---------|-----------------|-----------------------|--------|-----------------------|
|              | Straight Bore |         |         | Bushes  |         | HP/100          | Rated Torque (In-Lbs) | HP/100 | Rated Torque (In-Lbs) |
|              | Type J        | Type S  | Type SC | Type B  |         |                 |                       |        |                       |
| 3            | 7/8           | -       | -       | -       | 9200    | 0.10            | 60                    | -      | -                     |
| 4            | 1             | -       | -       | -       | 7600    | 0.19            | 120                   | -      | -                     |
| 5            | 1-1/8         | 1-1/4   | 1-1/8   | -       | 7600    | 0.38            | 240                   | -      | -                     |
| 6            | 1-3/8         | 1-7/8   | 1-3/8   | 1-3/16  | 6000    | 0.71            | 450                   | 2.90   | 1,800                 |
| 7            | -             | 1-7/8   | 1-5/8   | 1-3/16  | 5250    | 1.20            | 725                   | 4.60   | 2,875                 |
| 8            | -             | 2-3/8   | 1-7/8   | 1-5/8   | 4500    | 1.80            | 1,135                 | 7.20   | 4,530                 |
| 9            | -             | 2-7/8   | 2-1/8   | 1-15/16 | 3750    | 2.80            | 1,800                 | 11.40  | 7,200                 |
| 10           | -             | 3-3/8   | 2-3/8   | 2-1/2   | 3600    | 4.60            | 2,875                 | 18.00  | 11,350                |
| 11           | -             | 3-7/8   | 2-7/8   | 2-13/16 | 3600    | 7.20            | 4,530                 | 28.60  | 18,000                |
| 12           | -             | 3-15/16 | 2-7/8   | 3-1/2   | 2800    | 11.40           | 7,200                 | 50.00  | 31,500                |
| 13           | -             | 4-1/2   | 3-3/8   | 3-15/16 | 2400    | 18.00           | 11,350                | 75.00  | 47,268                |
| 14           | -             | 5       | 3-7/8   | 3-15/16 | 2200    | 28.60           | 18,000                | 115.00 | 72,480                |
| 16           | -             | 6       | -       | 4-1/2   | 1500    | 75.00           | 47,250                | -      | -                     |

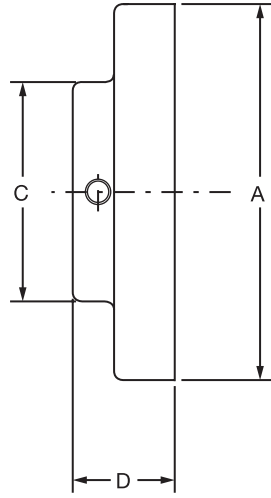
|                                  |   |   |                                      |
|----------------------------------|---|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-23 | SPECIFICATION/HOW TO ORDER<br>PAGE PT1-26 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|---|---|--------------------------------------|



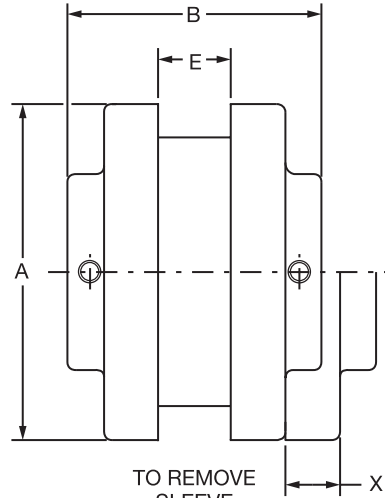


# SELECTION/DIMENSIONS

## D-FLEX Couplings TYPE "J" COUPLING DIMENSIONS



TYPE "J" FLANGE



TYPE "J" COUPLING

### Dimensions

| Coupling Size | Min. Bore | Max. Bore | HP/100 | EPDM/Neoprene Torque (in.-lbs.) | Max. RPM | A    | B    | C    | D    | E    | X    | Weight (lbs.) | Inertia (lbs ft <sup>2</sup> ) |
|---------------|-----------|-----------|--------|---------------------------------|----------|------|------|------|------|------|------|---------------|--------------------------------|
| 3J            | 3/8       | 7/8       | 0.10   | 60                              | 9200     | 2.06 | 2.00 | 1.50 | 0.81 | 0.38 | 0.56 | 0.03          |                                |
| 4J            | 1/2       | 1         | 0.19   | 120                             | 7600     | 2.46 | 2.38 | 1.63 | 0.88 | 0.63 | 0.75 | 0.04          |                                |
| 5J            | 1/2       | 1-1/8     | 0.38   | 240                             | 7600     | 3.25 | 2.88 | 1.88 | 1.06 | 0.75 | 0.97 | 0.09          |                                |
| 6J            | 5/8       | 1-3/8     | 0.71   | 450                             | 6000     | 4.00 | 3.31 | 2.50 | 1.22 | 0.88 | 1.09 | 1.20          |                                |

6J Minimum bore - 5/8"

### Part Numbers

| Bore (in.) | Coupling Flange |        |        |        |
|------------|-----------------|--------|--------|--------|
|            | 3J              | 4J     | 5J     | 6J     |
| 3/8        | 022700          |        |        |        |
| 1/2        | 022701          | 022708 | 022714 |        |
| 5/8        | 022702          | 022709 | 022715 | 022721 |
| 3/4        | 022703          | 022710 | 022716 | 022722 |
| 7/8        | 022704          | 022711 | 022717 | 022723 |
| 15/16      |                 | 022712 | 022718 | 022724 |
| 1          |                 | 022713 | 022719 | 022725 |
| 1-1/8      |                 |        | 022720 | 022726 |
| 1-3/16     |                 |        |        | 022727 |
| 1-1/4      |                 |        |        | 022728 |
| 1-3/8      |                 |        |        | 022729 |

Unless otherwise specified, all Type-J flanges are clearance fit per AGMA 9002.  
See page 101 for additional details.

Complete coupling consists of (2) J flanges, and (1) sleeve (from page PT1-39).

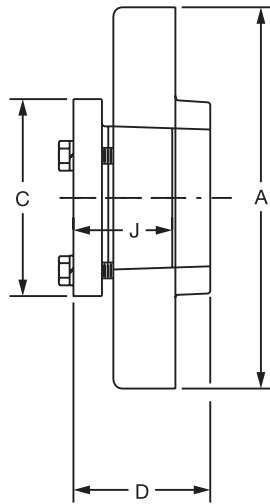
|                                  |   |   |                                      |
|----------------------------------|---|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-23 | SPECIFICATION/HOW TO ORDER<br>PAGE PT1-26 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|---|---|--------------------------------------|



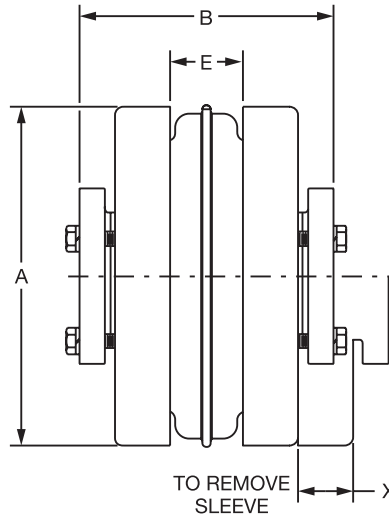
# SELECTION/DIMENSIONS

## D-FLEX Couplings

### TYPE "B" QD BUSHED COUPLING DIMENSIONS



TYPE "B" FLANGE



TYPE "B" COUPLING

#### Dimensions

| Coupling Size | Bushing Type | Min. Bore | Max. Bore# | HP/100 | EPDM/Neoprene Torque (in.-lbs.) | Max. RPM | A     | B     | C    | D    | E    | J    | X    | Weight (lbs.)+ |         | Inertia (lbs ft <sup>2</sup> ) |
|---------------|--------------|-----------|------------|--------|---------------------------------|----------|-------|-------|------|------|------|------|------|----------------|---------|--------------------------------|
|               |              |           |            |        |                                 |          |       |       |      |      |      |      |      | Flange         | Bushing |                                |
| 6B            | JA           | 1/2       | 1-3/16     | 0.71   | 450                             | 6000     | 4.00  | 3.31  | 2.00 | 1.53 | 0.88 | 1.00 | 1.09 | 1.30           | 0.40    |                                |
| 7B            | JA           | 1/2       | 1-3/16     | 1.20   | 725                             | 5250     | 4.63  | 3.44  | 2.00 | 1.59 | 1.00 | 1.00 | 1.31 | 1.90           | 0.40    |                                |
| 8B            | SH           | 1/2       | 1-5/8      | 1.80   | 1135                            | 4500     | 5.45  | 4.06  | 2.63 | 1.84 | 1.13 | 1.31 | 1.50 | 2.90           | 0.90    |                                |
| 9B            | SD           | 1/2       | 1-15/16    | 2.80   | 1800                            | 3750     | 6.35  | 4.63  | 3.19 | 2.19 | 1.44 | 1.81 | 1.75 | 4.80           | 1.60    |                                |
| 10B           | SK           | 1/2       | 2-1/2      | 4.60   | 2875                            | 3600     | 7.50  | 5.63  | 3.88 | 1.84 | 1.63 | 1.94 | 2.00 | 7.80           | 2.70    |                                |
| 11B           | SF           | 1/2       | 2-15/16    | 7.20   | 4530                            | 3600     | 8.63  | 6.56  | 4.63 | 2.13 | 1.88 | 2.00 | 2.38 | 12.00          | 3.80    |                                |
| 12B           | E            | 7/8       | 3-1/2      | 11.40  | 7200                            | 2800     | 10.00 | 7.94  | 6.00 | 2.69 | 2.31 | 2.75 | 2.69 | 18.00          | 9.00    |                                |
| 13B           | F            | 1         | 3-15/16    | 18.00  | 11350                           | 2400     | 11.75 | 9.31  | 6.63 | 3.69 | 2.69 | 3.75 | 3.00 | 31.20          | 14.00   |                                |
| 14B           | F            | 1         | 3-15/16    | 28.60  | 18000                           | 2200     | 13.88 | 10.44 | 6.63 | 3.69 | 3.25 | 3.75 | 3.50 | 51.40          | 14.00   |                                |
| 16B           | J            | 1-1/2     | 4-1/2      | 75.00  | 47250                           | 1500     | 18.88 | 13.25 | 7.25 | 4.75 | 4.75 | 4.63 | 4.50 | 120.00         | 21.00   |                                |

# Max bore with shallow key

+ Approximate weight for each flange; average weight for each bushing

#### Part Numbers

|          | 6B     | 7B     | 8B     | 9B     | 10B    | 11B    | 12B    |
|----------|--------|--------|--------|--------|--------|--------|--------|
| Part No. | 022501 | 022502 | 022503 | 022504 | 022505 | 022506 | 022507 |

|          | 13B    | 14B    | 16B    |
|----------|--------|--------|--------|
| Part No. | 022508 | 022509 | 022510 |

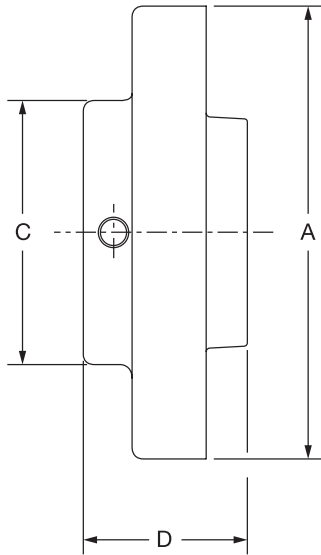
Complete coupling consists of (2) B flanges, (1) sleeve and (2) QD Bushings. QD Bushings must be ordered separately (from page PT6-16).

|                                  |   |   |                                      |
|----------------------------------|---|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-23 | SPECIFICATION/HOW TO ORDER<br>PAGE PT1-26 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|---|---|--------------------------------------|

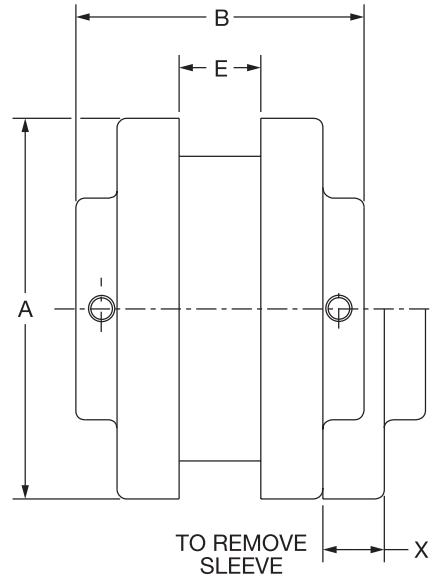


## SELECTION/DIMENSIONS

### D-FLEX Couplings TYPE "S" COUPLING DIMENSIONS



TYPE "S" FLANGE



TYPE "S" COUPLING

#### Dimensions

| Coupling Size | Min. Bore | Max. Bore# | HP/100* | Torque* (in.-lbs.) | Max. RPM | A     | B     | C    | D    | E    | X    | Weight (lbs.) |
|---------------|-----------|------------|---------|--------------------|----------|-------|-------|------|------|------|------|---------------|
| 5S            | 1/2       | 1-1/4      | 0.38    | 240                | 7600     | 3.25  | 2.81  | 1.88 | 1.34 | 0.75 | 0.97 | 1.1           |
| 6S            | 1/2       | 1-1/2      |         |                    |          |       |       |      | 1.63 |      |      | 1.9           |
| 6S            | 1-9/16    | 1-3/4      | 0.71    | 450                | 6000     | 4     | 3.5   | 2.81 | 1.31 | 0.88 | 1.09 | 1.8           |
| 6S            | 1-13/16   | 1-7/8      |         |                    |          |       |       |      | 1.31 |      |      | 1.8           |
| 7S            | 1/2       | 1-7/8      | 1.2     | 725                | 5250     | 4.63  | 3.94  | 2.81 | 1.84 | 1    | 1.31 | 2.6           |
| 8S            | 1/2       | 2-1/8      | 1.8     | 1135               | 4500     | 5.45  | 4.44  | 3.25 | 2.09 | 1.13 | 1.5  | 4.4           |
| 8S            | 2-3/16    | 2-3/8      |         |                    |          |       |       |      | 1.66 |      |      | 3.7           |
| 9S            | 7/8       | 2-1/2      | 2.8     | 1800               | 3750     | 6.35  | 5.06  | 4.13 | 2.41 | 1.44 | 1.75 | 6.5           |
| 9S            | 2-9/16    | 2-7/8      |         |                    |          |       |       |      | 1.81 |      |      | 6.2           |
| 10S           | 1-1/8     | 2-7/8      | 4.6     | 2875               | 3600     | 7.5   | 5.69  | 4.75 | 2.72 | 1.63 | 2    | 10.5          |
| 10S           | 2-15/16   | 3-3/8      |         |                    |          |       |       |      | 2.03 |      |      | 9.8           |
| 11S           | 1-1/4     | 2-1/8      |         |                    |          |       |       |      | 3.44 |      |      | 18.1          |
| 11S           | 2-3/16    | 2-3/4      | 7.2     | 4530               | 3600     | 8.63  | 7.13  | 5.63 | 3.44 | 1.88 | 2.38 | 17.9          |
| 11S           | 2-13/16   | 3-3/8      |         |                    |          |       |       |      | 3.44 |      |      | 16.6          |
| 11S           | 3-7/16    | 3-7/8      |         |                    |          |       |       |      | 2.63 |      |      | 16.4          |
| 12S           | 1-1/2     | 2-1/8      |         |                    |          |       |       |      |      |      |      | 27.8          |
| 12S           | 2-3/16    | 2-7/8      | 11.4    | 7200               | 2800     | 10    | 8.25  | 5.75 | 4    | 2.31 | 2.69 | 27.5          |
| 12S           | 2-15/16   | 3-15/16    |         |                    |          |       |       |      |      |      |      | 26.6          |
| 13S           | 2" Reb.   | 4-1/2      | 18      | 11350              | 2400     | 11.75 | 9.25  | 6.75 | 4.38 | 2.69 | 3.06 | 45.2          |
| 14S           | 2" Reb.   | 5          | 28.6    | 18000              | 2200     | 13.88 | 9.88  | 7.5  | 4.5  | 3.25 | 3.5  | 69.1          |
| 16S           | 2" Reb.   | 6          | 75      | 47250              | 1500     | 18.88 | 14.25 | 8    | 6    | 4.75 | 4.25 | 125.3         |

# Max bore with shallow keyway. For max bore with standard keyway, see page PT1-43

\* Ratings based on EPDM & Neoprene. For Hytrel ratings, see page PT1-39



# SELECTION/DIMENSIONS

## D-FLEX Couplings

### Type "S" Coupling Flange - Part Numbers

| Bore (in.)                   | Coupling Flange Size |          |          |          |          |          |           |           |        |        |        |
|------------------------------|----------------------|----------|----------|----------|----------|----------|-----------|-----------|--------|--------|--------|
|                              | 5S                   | 6S       | 7S       | 8S       | 9S       | 10S      | 11S       | 12S       | 13S    | 14S    | 16S    |
| Reborable                    | 004976               | 004977   | 004978   | 004979   | 004980   | 004981   | 004982    | 004983    | 004993 | 004994 | 004995 |
| <b>Finished Bore Flanges</b> |                      |          |          |          |          |          |           |           |        |        |        |
| 1/2                          | 004498               |          |          |          |          |          |           |           |        |        |        |
| 5/8                          | 004500               | 004511   | 004534   |          |          |          |           |           |        |        |        |
| 3/4                          | 004502               | 004513   | 004536   | 004559   |          |          |           |           |        |        |        |
| 7/8                          | 004504               | 004515   | 004538   | 004561   | 004586   |          |           |           |        |        |        |
| 15/16                        | 004505               | 004516   | 004539   | 004562   | 004587   |          |           |           |        |        |        |
| 1                            | 004506               | 004517   | 004540   | 004563   | 004588   |          |           |           |        |        |        |
| 1-1/8                        | 004508               | 004519   | 004542   | 004565   | 004590   | 004619   |           |           |        |        |        |
| 1-3/16                       | * 004509             | 004520   | 004543   | 004566   | 004591   | 004620   |           |           |        |        |        |
| 1-1/4                        | † 004510             | 004521   | 004544   | 004567   | 004592   | 004621   | 004656    |           |        |        |        |
| 1-5/16                       |                      | 004522   | 004545   | 004568   | 004593   | 004622   | 004657    |           |        |        |        |
| 1-3/8                        |                      | 004523   | 004546   | 004569   | 004594   | 004623   | 004658    |           |        |        |        |
| 1-7/16                       |                      | * 004524 | 004547   | 004570   | 004595   | 004624   | 004659    |           |        |        |        |
| 1-1/2                        |                      | † 004525 | 004548   | 004571   | 004596   | 004625   | 004660    | 004696    |        |        |        |
| 1-5/8                        |                      | 004527   | * 004550 | 004573   | 004598   | 004627   | 004662    | 004698    |        |        |        |
| 1-11/16                      |                      | 004528   | 004551   | 004574   | 004599   | 004628   | 004663    | 004699    |        |        |        |
| 1-3/4                        |                      | 004529   | 004552   | 004575   | 004600   | 004629   | 004664    | 004700    |        |        |        |
| 1-7/8                        |                      | 004531   | † 004554 | 004577   | 004602   | 004631   | 004666    | 004702    |        |        |        |
| 1-15/16                      |                      |          |          | 004578   | 004603   | 004632   | 004667    | 004703    |        |        |        |
| 2                            |                      |          |          | 004579   | 004604   | 004633   | 004668    | 004704    |        |        |        |
| 2-1/8                        |                      |          |          | † 004581 | 004606   | 004635   | 004670    | 004706    |        |        |        |
| 2-3/16                       |                      |          |          | 004582   | 004607   | 004636   | 004671    | 004707    |        |        |        |
| 2-1/4                        |                      |          |          | 004583   | 004608   | 004637   | 004672    | 004708    |        |        |        |
| 2-3/8                        |                      |          |          | 004585   | * 004610 | 004639   | 004674    | 004710    | 004996 |        |        |
| 2-7/16                       |                      |          |          |          | 004611   | 004640   | 004675    | 004711    |        |        |        |
| 2-1/2                        |                      |          |          |          | † 004612 | 004641   | 004676    | 004712    |        |        |        |
| 2-5/8                        |                      |          |          |          | 004614   | 004643   | 004678    | 004714    |        |        |        |
| 2-11/16                      |                      |          |          |          | 004615   | 004644   | 004679    | 004715    |        |        |        |
| 2-3/4                        |                      |          |          |          | 004616   | * 004645 | 004680    | 004716    |        |        |        |
| 2-7/8                        |                      |          |          |          | 004618   | † 004647 | 004682    | 004718    | 004997 | 004998 |        |
| 2-15/16                      |                      |          |          |          |          | 004648   | 004683    | 004719    |        |        |        |
| 3                            |                      |          |          |          |          | 004649   | 004684    | 004720    |        |        |        |
| 3-1/8                        |                      |          |          |          |          | 004651   | 004686    | 004722    |        |        |        |
| 3-1/4                        |                      |          |          |          |          | 004653   | 004688    | 004724    |        |        |        |
| 3-5/16                       |                      |          |          |          |          | 004654   | 004689    | 004725    |        |        |        |
| 3-3/8                        |                      |          |          |          |          | 004655   | *† 004690 | 004726    |        |        |        |
| 3-7/16                       |                      |          |          |          |          |          | 004691    | 004727    |        |        |        |
| 3-1/2                        |                      |          |          |          |          |          | 004692    | 004728    |        |        |        |
| 3-5/8                        |                      |          |          |          |          |          | 004693    | 004730    |        |        |        |
| 3-11/16                      |                      |          |          |          |          |          |           | 004731    |        |        |        |
| 3-3/4                        |                      |          |          |          |          |          | 004694    | 004732    |        |        |        |
| 3-7/8                        |                      |          |          |          |          |          | 004695    | *† 004734 |        |        |        |
| 3-15/16                      |                      |          |          |          |          |          |           | 004735    |        |        |        |

Unless otherwise specific, all Type-S flanges are clearance fit per AGMA 9002. See page 101 for additional details.

**\*Max bore with std. square keyway. Larger bores have rectangular keyways & keys supplied.**

† Max bore for reborable flanges.

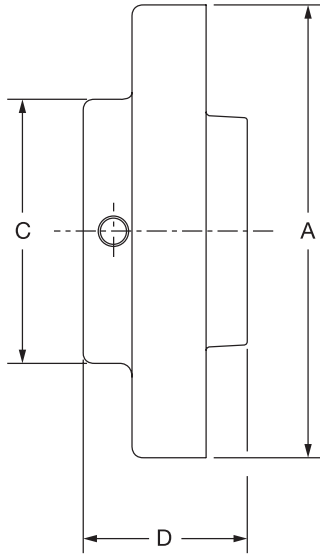
**Complete coupling consists of (2) S flanges and (1) sleeve (from page PT1-39).**

|                                  |   |   |                                      |
|----------------------------------|---|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-23 | SPECIFICATION/HOW TO ORDER<br>PAGE PT1-26 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|---|---|--------------------------------------|

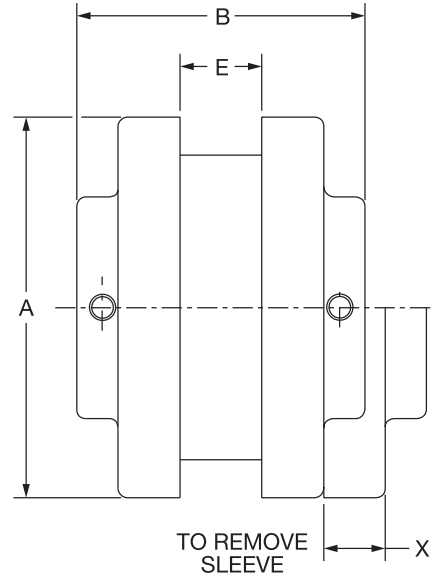


## SELECTION/DIMENSIONS

### D-FLEX Couplings TYPE "S" COUPLING DIMENSIONS - METRIC



TYPE "S" FLANGE



TYPE "S" COUPLING

#### Dimensions

| Coupling Size | Min. Bore (mm) | Max. Bore # | Watts/100* | Torque* (N-m) | Max. RPM | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | X (mm) | Mass (kg) |
|---------------|----------------|-------------|------------|---------------|----------|--------|--------|--------|--------|--------|--------|-----------|
| 5S            | 12.7           | 30          | 283        | 27.1          | 7600     | 82.6   | 71.4   | 48     | 34     | 19     | 25     | 0.5       |
| 6S            | 12.7           | 38          | 530        | 51            | 6000     | 101.6  | 89     | 71     | 41     | 22     | 28     | 0.9       |
| 7S            | 12.7           | 42          | 895        | 82            | 5250     | 117.6  | 100    | 71     | 47     | 25     | 33     | 1.2       |
| 8S            | 12.7           | 50          | 1343       | 128           | 4500     | 138.4  | 113    | 83     | 53     | 29     | 38     | 2.0       |
| 9S            | 22.2           | 60          | 2089       | 203           | 3750     | 161.3  | 129    | 92     | 61     | 37     | 44     | 2.9       |
| 10S           | 28.0           | 70          | 3432       | 325           | 3600     | 190.5  | 145    | 111    | 69     | 41     | 51     | 4.8       |
| 11S           | 30.0           | 95          | 5371       | 512           | 3600     | 219.2  | 181    | 143    | 87     | 48     | 60     | 8.2       |
| 12S           | 38.0           | 100         | 8504       | 814           | 2800     | 254.0  | 210    | 146    | 102    | 59     | 68     | 12.6      |
| 13S           | 50.8           | 114         | 13428      | 1282          | 2400     | 298.5  | 235    | 171    | 111    | 68     | 78     | 20.5      |
| 14S           | 50.8           | 127         | 21336      | 2034          | 2200     | 352.6  | 251    | 191    | 114    | 83     | 89     | 31.3      |
| 16S           | 50.8           | 140         | 55950      | 5339          | 1500     | 479.6  | 362    | 203    | 152    | 121    | 108    | 56.8      |

# Max bore with shallow keyway. For max bore with standard keyway, see page PT1-43

\* Ratings based on EPDM & Neoprene. For Hytrel ratings, see page PT1-39



# SELECTION/DIMENSIONS

## D-FLEX Couplings

### Type "S" Coupling Flange - Part Numbers - Metric

| Bore (mm) | Coupling Flange Size |        |        |        |        |        |        |        |
|-----------|----------------------|--------|--------|--------|--------|--------|--------|--------|
|           | 5S                   | 6S     | 7S     | 8S     | 9S     | 10S    | 11S    | 12S    |
| 14mm      | 004856               | 004865 | 004878 | 004893 | 004911 |        |        |        |
| 16mm      | 004857               | 004866 | 004879 | 004894 | 004912 |        |        |        |
| 18mm      | 004858               | 004867 | 004880 | 004895 | 004913 |        |        |        |
| 19mm      | 004859               | 004868 | 004881 | 004896 | 004914 |        |        |        |
| 20mm      | 004860               | 004869 | 004882 | 004897 | 004915 |        |        |        |
| 22mm      | 004861               | 004870 | 004883 | 004898 | 004916 |        |        |        |
| 24mm      | 004862               | 004871 | 004884 | 004899 | 004917 |        |        |        |
| 25mm      | 004863               | 004872 | 004885 | 004900 | 004918 |        |        |        |
| 28mm      | 004864               | 004873 | 004886 | 004901 | 004919 | 004928 |        |        |
| 30mm      |                      | 004874 | 004887 | 004902 | 004920 | 004929 | 004942 |        |
| 32mm      |                      | 004875 | 004888 | 004903 | 004921 | 004930 | 004943 |        |
| 35mm      |                      | 004876 | 004889 | 004904 | 004922 | 004931 | 004944 |        |
| 38mm      |                      |        | 004890 | 004905 | 004923 | 004932 | 004945 | 004960 |
| 40mm      |                      |        | 004891 | 004906 | 004924 | 004933 | 004946 | 004961 |
| 42mm      |                      |        | 004892 | 004907 | 004925 | 004934 | 004947 | 004962 |
| 45mm      |                      |        |        | 004908 | 004926 | 004935 | 004948 | 004963 |
| 48mm      |                      |        |        | 004909 | 004927 | 004936 | 004949 | 004964 |
| 50mm      |                      |        |        | 004910 |        | 004937 | 004950 | 004965 |
| 55mm      |                      |        |        |        |        | 004938 | 004951 | 004966 |
| 60mm      |                      |        |        |        |        | 004939 | 004952 | 004967 |
| 65mm      |                      |        |        |        |        | 004940 | 004953 | 004968 |
| 70mm      |                      |        |        |        |        | 004941 | 004954 | 004969 |
| 75mm      |                      |        |        |        |        |        | 004955 | 004970 |
| 80mm      |                      |        |        |        |        |        | 004956 | 004971 |
| 85mm      |                      |        |        |        |        |        | 004957 | 004972 |
| 90mm      |                      |        |        |        |        |        | 004958 | 004973 |
| 95mm      |                      |        |        |        |        |        | 004959 | 004974 |
| 100mm     |                      |        |        |        |        |        |        | 004975 |

Complete coupling consists of (2) S flanges and (1) sleeve (from page PT1-39).

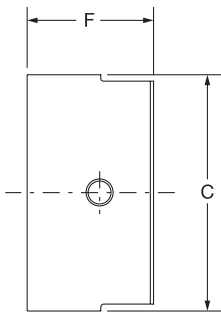
|                                  |   |   |                                      |
|----------------------------------|---|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-23 | SPECIFICATION/HOW TO ORDER<br>PAGE PT1-26 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|---|---|--------------------------------------|



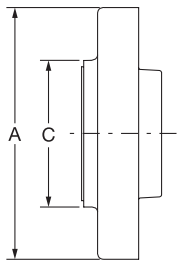


# SELECTION/DIMENSIONS

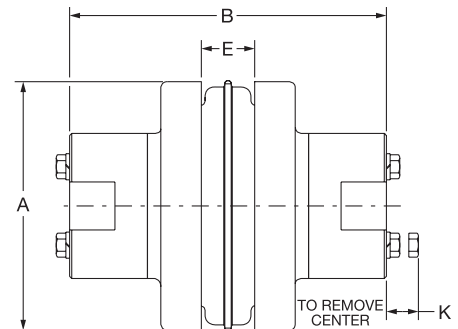
## D-FLEX Couplings TYPE "SC" COUPLING DIMENSIONS



SHAFT HUB



SPACER FLANGE



COMPLETE SPACER COUPLING

### Dimensions (1)

| Cplg. Size | BSE   | Flange Number | Shaft Hub |      | Max. Bore (2) |       | A     | (3) B | C    | E    | F    |      | K    | Wt. (4) (lbs.) |
|------------|-------|---------------|-----------|------|---------------|-------|-------|-------|------|------|------|------|------|----------------|
|            |       |               | H         | HS   | H             | HS    |       |       |      |      | H    | HS   |      |                |
| 5SC        | 3.50  | 5SC35         | 5H        | -    | 1-1/8         | -     | 3.25  | 5.63  | 2.00 | 0.75 | 1.09 | -    | 0.56 | 4.50           |
|            | 3.50  | 6SC35         | 6H        | ---  | 1-3/8         | -     | 4.00  | 5.88  | 2.50 | 0.88 | 1.22 | -    | 0.75 | 7.30           |
|            | 4.38  | 6SC44         | 6H        | -    | 1-3/8         | -     |       | 6.75  | 2.50 |      | 1.22 | -    |      | 8.10           |
| 6SC        | 5.00  | 6SC50         | 6H        | -    | 1-3/8         | -     |       | 7.88  | 2.50 |      | 1.22 | -    |      | 8.70           |
|            | 3.50  | 7SC35         | 7H        | ---  | 1-5/8         | -     | 4.63  | 6.38  | 2.81 | 1.00 | 1.47 | -    | 0.63 | 9.90           |
|            | 4.38  | 7SC44         | 7H        | -    | 1-5/8         | -     |       | 7.25  | 2.81 |      | 1.47 | -    |      | 10.80          |
| 7SC        | 5.00  | 7SC50         | 7H        | -    | 1-5/8         | -     |       | 7.88  | 2.81 |      | 1.47 | -    |      | 11.40          |
|            | 3.50  | 8SC35         | 8H        | -    | 1-7/8         | -     | 5.45  | 6.88  | 3.25 | 1.13 | 1.72 | -    | 0.81 | 15.20          |
|            | 3.50  | 8SC35-10      | 10H       | 10HS | 2-3/8         | 1-5/8 |       | 9.13  | 4.38 |      | 2.34 | -    | 0.81 | 23.20          |
| 8SC        | 4.38  | 8SC44         | 8H        | -    | 1-7/8         | -     |       | 7.75  | 3.25 |      | 1.72 | 1.66 | 0.81 | 16.40          |
|            | 5.00  | 8SC50         | 8H        | -    | 1-7/8         | -     |       | 8.38  | 3.25 |      | 1.72 | 1.33 | 1.19 | 17.40          |
|            | 5.00  | 8SC50-10      | 10H       | 10HS | 2-3/8         | 1-5/8 |       | 9.63  | 4.38 |      | 2.34 | -    | 1.19 | 27.20          |
| 9SC        | 3.50  | 9SC35         | 9H        | 9HS  | 2-1/8         | 1-1/2 | 6.35  | 7.50  | 3.63 | 1.44 | 1.97 | 1.53 | 1.06 | 18.60          |
|            | 4.38  | 9SC44         | 9H        | 9HS  | 2-1/8         | 1-1/2 |       | 8.25  | 3.63 |      | 1.97 | 1.53 | 1.06 | 22.20          |
|            | 5.00  | 9SC50         | 9H        | 9HS  | 2-1/8         | 1-1/2 |       | 8.88  | 3.63 |      | 1.97 | 1.53 | 1.06 | 23.20          |
| 10SC       | 5.00  | 9SC50-11      | 11H       | 11HS | 2-7/8         | 1-7/8 |       | 10.38 | 5.25 |      | 2.72 | 1.91 | 1.19 | 40.40          |
|            | 7.00  | 9SC70-11      | 11H       | 11HS | 2-7/8         | 1-7/8 |       | 12.38 | 5.25 |      | 2.72 | 1.91 | 1.19 | 48.20          |
|            | 7.75  | 9SC78-11      | 11H       | 11HS | 2-7/8         | 1-7/8 |       | 13.13 | 5.25 |      | 2.72 | 1.91 | 1.19 | 51.00          |
| 11SC       | 4.75  | 10SC48        | 10H       | 10HS | 2-3/8         | 1-5/8 | 7.50  | 9.38  | 4.38 | 1.63 | 2.34 | 1.66 | 1.19 | 37.60          |
|            | 5.00  | 10SC50        | 10H       | 10HS | 2-3/8         | 1-5/8 |       | 9.63  | 4.38 |      | 2.34 | 1.66 | 1.19 | 38.40          |
|            | 7.00  | 10SC70-13     | 13H       | 13HS | 3-3/8         | 2-1/2 |       | 13.63 | 6.13 |      | 3.34 | 2.47 | 1.88 | 72.00          |
| 12SC       | 7.75  | 10SC78-13     | 13H       | 13HS | 3-3/8         | 2-1/2 |       | 14.63 | 6.13 |      | 3.34 | 2.47 | 1.88 | 76.00          |
|            | 10.00 | 10SC100-13    | 13H       | 13HS | 3-3/8         | 2-1/2 |       | 16.63 | 6.13 |      | 3.34 | 2.47 | 1.88 | 88.00          |
|            | 4.75  | 11SC48        | 11H       | 11HS | 2-7/8         | 1-7/8 | 8.63  | 10.31 | 5.25 | 1.88 | 2.72 | 1.91 | 1.19 | 54.50          |
| 13SC       | 5.00  | 11SC50        | 11H       | 11HS | 2-7/8         | 1-7/8 |       | 10.38 | 5.25 |      | 2.72 | -    | 1.19 | 54.70          |
|            | 7.00  | 11SC70-14     | 14H       | -    | 3-7/8         | -     |       | 14.38 | 6.50 |      | 3.84 | -    | 2.00 | 86.10          |
|            | 7.75  | 11SC78-14     | 14H       | -    | 3-7/8         | -     |       | 15.38 | 6.50 |      | 3.84 | -    | 2.00 | 90.30          |
| 14SC       | 10.00 | 11SC100-14    | 14H       | -    | 3-7/8         | -     |       | 17.63 | 6.50 |      | 3.84 | -    | 2.00 | 102.70         |
|            | 7.00  | 12SC70        | 12H       | 12HS | 2-7/8         | 2-1/2 | 10.00 | 12.88 | 5.75 | 2.31 | 2.97 | 2.53 | 1.50 | 88.10          |
|            | 7.00  | 12SC70-14     | 14H       | -    | 3-7/8         | -     |       | 14.63 | 6.50 |      | 3.84 | -    | 2.00 | 99.10          |
| 15SC       | 7.75  | 12SC78        | 12H       | 12HS | 2-7/8         | 2-1/2 |       | 13.63 | 5.75 |      | 2.97 | -    | 1.50 | 91.90          |
|            | 7.75  | 12SC78-14     | 14H       | -    | 3-7/8         | -     |       | 14.38 | 6.50 |      | 3.84 | -    | 2.00 | 103.30         |
|            | 10.00 | 12SC100-14    | 14H       | -    | 3-7/8         | -     |       | 17.63 | 6.50 |      | 3.84 | -    | 2.00 | 115.70         |
| 13SC       | 7.75  | 13SC78        | 13H       | 13HS | 3-3/8         | 2-1/2 | 11.75 | 14.38 | 6.13 | 2.69 | 3.34 | 2.47 | 1.88 | 129.60         |
| 14SC       | 7.75  | 14SC78        | 14H       | -    | 3-7/8         | -     | 13.88 | 15.38 | 6.50 | 3.25 | 3.84 | -    | 2.00 | 179.90         |

(1) Ratings (HP/100, Torque, RPM) same as Type S. See page PT1-42.  
 (2) Check shaft hub table on next page for minimum Bore.  
 (3) B dimension included H hubs. Dimension will change if one or two HS (short hubs) are used.  
 (4) Complete coupling weight at MAX bore.

|                                  |   |   |                                      |
|----------------------------------|---|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-23 | SPECIFICATION/HOW TO ORDER<br>PAGE PT1-26 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|---|---|--------------------------------------|



# SELECTION/DIMENSIONS

## D-FLEX Couplings

### Type "SC" Couplings - Spacer Flange Part Numbers

| BSE (in.) | Coupling Size |          |          |          |          |          |          |
|-----------|---------------|----------|----------|----------|----------|----------|----------|
|           | 5SC           | 6SC      | 7SC      | 8SC      | 8SC-10   | 9SC      | 9SC-11   |
| 3.50      | • 022000      | • 022001 | • 022004 | • 022007 | • 022775 | • 022010 |          |
| 4.38      |               | • 022002 | • 022005 | • 022008 |          | • 022011 |          |
| 5.00      |               | • 022003 | • 022006 | • 022009 | • 022776 | • 022012 | • 022777 |
| 7.00      |               |          |          |          |          |          | • 022778 |
| 7.75      |               |          |          |          |          |          | • 022779 |

| BSE (in.) | Coupling Size |         |          |         |          |         |        |        |
|-----------|---------------|---------|----------|---------|----------|---------|--------|--------|
|           | 10SC          | 10SC-13 | 11SC     | 11SC-14 | 12SC     | 12SC-14 | 13SC   | 14SC   |
| 4.75      | • 022013      |         | • 022015 |         |          |         |        |        |
| 5.00      | • 022014      |         | • 022016 |         |          |         |        |        |
| 7.00      |               | 022780  |          | 022783  | • 022017 | 022786  |        |        |
| 7.75      |               | 022781  |          | 022784  | • 022018 | 022787  | 021997 | 021998 |
| 10.00     |               | 022782  |          | 022785  |          | 022788  |        |        |

• Stock flanges

### Spacer Shaft Hub Part Numbers

| Bore (in.)                   | Coupling Size |          |          |          |             |             |           |           |           |          |
|------------------------------|---------------|----------|----------|----------|-------------|-------------|-----------|-----------|-----------|----------|
|                              | 5H            | 6H       | 7H       | 8H       | 9H          | 10H         | 11H       | 12H       | 13H       | 14H      |
| Reborable Finished Bore Hubs | • 022220      | • 022221 | • 022222 | • 022223 | • 022224    | • 022225    | • 022226  | • 022227  | 022228    |          |
| 1/2                          | 022329        |          |          |          |             |             |           |           |           |          |
| 5/8                          | • 022331      | 022340   | 022353   |          |             |             |           |           |           |          |
| 11/16                        | 022332        | 022341   | 022354   |          |             |             |           |           |           |          |
| 3/4                          | • 022333      | • 022342 | 022355   | 022368   |             |             |           |           |           |          |
| 7/8                          | • 022335      | • 022344 | • 022357 | 022370   | 022387      |             |           |           |           |          |
| 15/16                        | 022336        | 022345   | 022358   | 022371   | 022388      |             |           |           |           |          |
| 1                            | • 022337      | • 022346 | • 022359 | • 022372 | 022389      |             |           |           |           |          |
| 1-1/8                        | • 022339      | • 022348 | • 022361 | • 022374 | 022391      | 022409      | 0022452   |           |           |          |
| 1-1/8 (1)                    |               |          |          |          | • 022392(1) | • 022410(1) | 022453(1) |           |           |          |
| 1-3/16                       |               | 022349   | 022362   | 022375   | 022393      | 022411      | 022454    |           |           |          |
| 1-1/4                        |               | • 022350 | 022363   | 022376   | 022394      | 022412      | 022455    |           |           |          |
| 1-5/16                       |               | 022351   | 022364   | 022377   | 022395      | 022413      | 022456    |           |           |          |
| 1-3/8                        |               | 022352   | • 022365 | • 022378 | • 022396    | 022414      | 022457    |           |           |          |
| 1-7/16                       |               |          |          | 022379   | 022397      | 022415      | 022458    |           |           |          |
| 1-1/2                        |               |          | • 022366 | • 022380 | • 022398    | 022416      | 022459    |           |           |          |
| 1-9/16                       |               |          |          | 022381   | 022399      | 022417      | 022460    |           |           |          |
| 1-5/8                        |               |          | • 022367 | • 022382 | • 022400    | • 022418    | 022461    |           |           |          |
| 1-5/8 (1)                    |               |          |          |          |             |             | 022462(1) |           |           |          |
| 1-3/4                        |               |          |          | • 022384 | • 022402    | 022420      | 022464    |           |           |          |
| 1-7/8                        |               |          |          | • 022386 | • 022404    | • 022428    | • 022466  | 022483    |           |          |
| 1-15/16                      |               |          |          |          | 022405      | 022429      | 022467    | 022484    |           |          |
| 2                            |               |          |          |          | 022406      | 022430      | 022468    | 022485    |           |          |
| 2-1/8                        |               |          |          |          | • 022408    | • 022432    | • 022470  | 022487    | 022813(1) |          |
| 2-3/16                       |               |          |          |          |             | 022433      | 022471    | 022488    |           |          |
| 2-1/4                        |               |          |          |          |             | 022434      | 022472    | 022489    |           |          |
| 2-5/16                       |               |          |          |          |             | 022435      | 022473    | 022490    |           |          |
| 2-3/8                        |               |          |          |          |             | • 022436    | • 022474  | 022491    | 022810    | • 022815 |
| 2-3/8(1)                     |               |          |          |          |             |             |           | 022492(1) | 022814(1) |          |
| 2-7/16                       |               |          |          |          |             |             | 022475    | 022493    |           |          |
| 2-1/2                        |               |          |          |          |             |             | 022476    | 022494    |           |          |
| 2-5/8                        |               |          |          |          |             |             | 022478    | 022496    |           |          |
| 2-11/16                      |               |          |          |          |             |             | 022479    | 022497    |           |          |
| 2-3/4                        |               |          |          |          |             |             | 022480    | 022498    |           |          |
| 2-7/8                        |               |          |          |          |             |             | • 022482  | 022500    | 022811    | 022816   |
| 3-3/8                        |               |          |          |          |             |             |           |           | 022812    | 022817   |
| 3-7/8                        |               |          |          |          |             |             |           |           |           | 022818   |

• Stock hub assemblies

(1) HS (Short Hub)

Complete coupling consists of (2) shaft hubs, (2) spacer flanges, and (1) sleeve (from page PT1-39)

|                                  |   |   |                                      |
|----------------------------------|---|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-23 | SPECIFICATION/HOW TO ORDER<br>PAGE PT1-26 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|---|---|--------------------------------------|



**FEATURES/BENEFITS**

**GRID-LIGN**

PT Component  
Reference Guide

Couplings

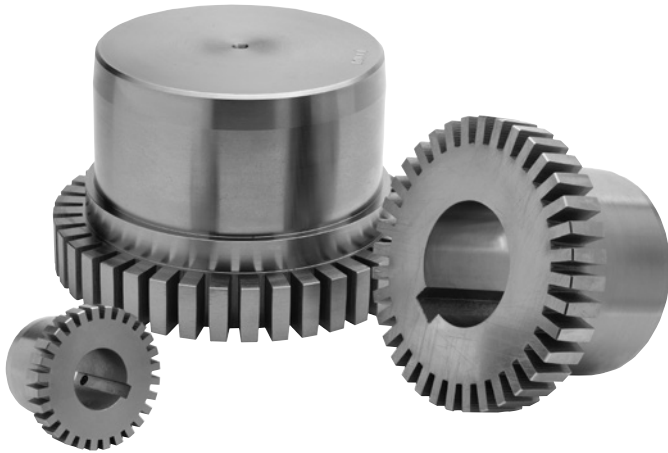
Clutches and Brakes

FLEXIDYNE

Fluid Couplings

TORQUE-TAMER

Bushings



The basic GRID-LIGN coupling consists of two steel shaft hubs, a high strength spring steel tapered grid element, two seals and a cover assembly. Misalignment and end float are accommodated by the sliding action of the grid in the lubricated hub grooves.

Standard GRID-LIGN couplings operate reliably between -22° and +215°F. They can accept angular misalignment to 1/2°, parallel misalignment to .012", and end float to .375". Speed capability goes as high as 6000 RPM.

GRID-LIGN couplings can be mounted with TAPER-LOCK bushings on shafts from 1/2" to 3-15/16". Straight bore hubs go up to 13" bore.



**Flexible Tapered Element**

- Isolates vibration, cushions shock loads
- Allows uniform contact during light, normal and shock loading conditions
- Lengthens machine life
- Constructed from tempered spring steel for long life

**High Torque Capability**

- Torque ranges from 464 to 1,650,000 in. lbs.
- Steel components allow for compact size

**Interchangeability**

- Stock GRID-LIGN coupling configurations include the standard full-flex design in vertically or horizontally split covers, half spacers and full spacers
- Interchangeable with other tapered grid style couplings

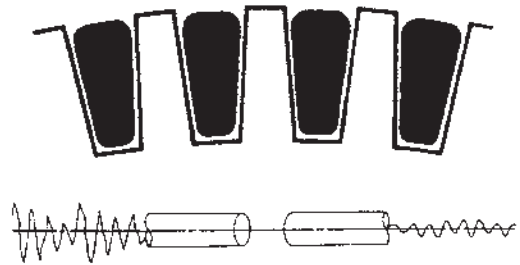
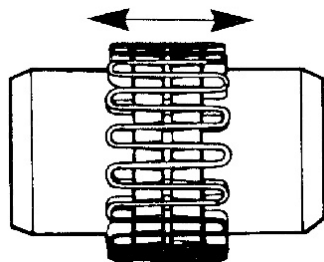
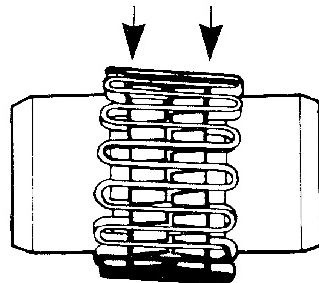
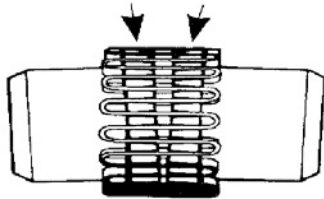


# FEATURES/BENEFITS

## GRID-LIGN

### STYLE, SIZES AND RATINGS CHART

| Coupling Styles               | Number of Sizes | Maximum Ratings |           |       |
|-------------------------------|-----------------|-----------------|-----------|-------|
|                               |                 | Bore            | Torque    | Speed |
| T10 Standard Coupling H Cover | 19              | 13.0"           | 1,650,000 | 6000  |
| T20 Standard Coupling V Cover | 10              | 5.0"            | 75,000    | 6000  |
| T31 Full Spacer               | 8               | 4.25"           | 30,000    | 3600  |
| T35 Half Spacer               | 8               | 4.25"           | 30,000    | 3600  |



#### TAPERED GRID DESIGN

- Tapered grid element, combined with the contoured hub grooves, transmit torque efficiency while accommodating misalignment and cushioning shock loads
- Grid element made from high strength steel that is quenched and tempered for long life



## GRID-LIGN

### SPECIFICATION

GRID-LIGN Couplings are tapered grid style with hubs, grids and covers which are interchangeable with other industry standard tapered grid couplings. Grid hubs are machined steel, protected with an anti-rust coating. Hubs have optional methods of attachment to the shaft including but not limited to: clearance fit, interference fit or TAPER-LOCK bushings. Clearance fits and interference fits are supplied with an industry standard keyway. Clearance fits are supplied with two set screws, one over the key and one at 65°. The grid element is made of high strength spring steel, heat treated and shot peened to enhance strength and durability.

The coupling is designed and manufactured such that the grid member can be replaced without disturbing the connected equipment and without the requirement for realignment. All Grid-Lign Couplings are fitted with covers to retain lubrication and prevent the entry of abrasives and contaminants. Covers are of a two piece design to facilitate installation and are available as axial split or radial split. DODGE will provide recommendations for types and amounts of lubricant suitable for operation in ambient temperatures from -22°F to +215°F.

Spacer Couplings consist of two shaft hubs and a center assembly consisting of two spacer hubs, one grid and cover. The center assembly is readily removable to facilitate maintenance on pumps or other connected equipment. The center assembly must be replaceable without disturbing the coupled equipment and without realignment.

**NOTE:** Instruction manuals for all Dodge products available at [www.baldor.com](http://www.baldor.com)

|                                  |                                     |   |                                      |
|----------------------------------|-------------------------------------|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-36 | SELECTION/DIMENSIONS<br>PAGE PT1-40 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|-------------------------------------|---|--------------------------------------|



## GRID-LIGN

### HOW TO ORDER

|  |   |
|--|---|
| <p>Standard couplings consist of:</p> <ul style="list-style-type: none"> <li>(2) Shaft Hubs</li> <li>(1) Grid &amp; Cover Assembly (T10 or T20)</li> </ul> | <p>Spacer couplings consists of:</p> <ul style="list-style-type: none"> <li>T31 Spacer                             <ul style="list-style-type: none"> <li>(2) "T" Shaft Hubs</li> <li>(2) Spacer Hubs</li> <li>(1) T10 Grid &amp; Cover Assembly</li> </ul> </li> <li>T35 Half Spacer                             <ul style="list-style-type: none"> <li>(1) Shaft Hub</li> <li>(1) Spacer Hub</li> <li>(1) "T" Shaft Hub</li> <li>(1) T10 Grid &amp; Cover Assembly</li> </ul> </li> </ul> |
|--|---|

### NOMENCLATURE

|  |   |
|--|---|
|  | <p>Size <span style="margin-left: 100px;">1020</span> <span style="margin-left: 100px;">T10</span></p>  |
|  | <p>Coupling Type <span style="margin-left: 100px;">T10</span></p> <p>T10 = Horizontal Split Cover<br/>                 T20 = Vertical Split Cover<br/>                 T31 = Full Spacer<br/>                 T35 = Half Spacer</p> |

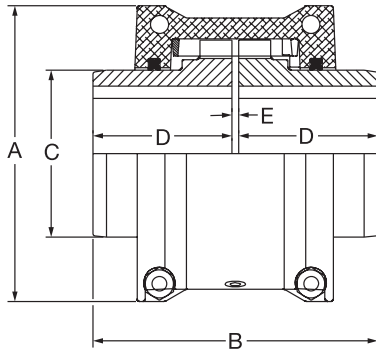




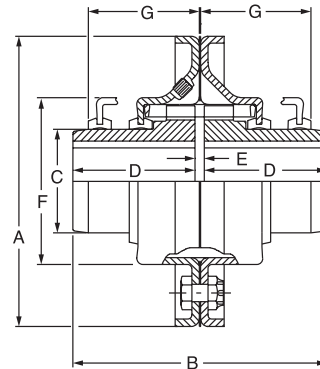
## SELECTION/DIMENSIONS

### GRID-LIGN

### RATINGS AND DIMENSIONS FOR COUPLING SIZES 1020T - 1140T



TYPE T10



TYPE T20

| Coupling Size | Straight Bore |              |          | TAPER-LOCK |           | HP/100   |         | TORQUE            |                  | Max. RPM |      |
|---------------|---------------|--------------|----------|------------|-----------|----------|---------|-------------------|------------------|----------|------|
|               | Min. Bore     | Maximum Bore |          | Min. Bore  | Max. Bore | Str. Hub | T-L Hub | Str. Hub (In-Lbs) | T-L Hub (In-Lbs) | T10      | T20  |
|               |               | Sq. Key      | Rec. Key |            |           |          |         |                   |                  |          |      |
| 1020T         | 0             | 1-1/8        | 1-3/16   | N/A        | N/A       | 0.74     | -       | 464               | -                | 4500     | 6000 |
| 1030T         | 0             | 1-3/8        | 1-7/16   | 1/2        | 1-1/8     | 2.09     | 1.9     | 1320              | 1200             | 4500     | 6000 |
| 1040T         | 0             | 1-5/8        | 1-3/4    | 1/2        | 1-1/8     | 3.49     | 2.1     | 2200              | 1300             | 4500     | 6000 |
| 1050T         | 0             | 1-7/8        | 2        | 1/2        | 1-1/4     | 6.11     | 5.6     | 3850              | 3500             | 4500     | 6000 |
| 1060T         | 0             | 2-1/8        | 2-1/4    | 1/2        | 1-11/16   | 9.60     | 6.8     | 6050              | 4300             | 4350     | 6000 |
| 1070T         | 0             | 2-1/2        | 2-11/16  | 1/2        | 2-1/8     | 13.96    | 11.3    | 8800              | 7150             | 4125     | 5500 |
| 1080T         | 0             | 3            | 3-1/4    | 3/4        | 2-11/16   | 28.80    | 17.9    | 18150             | 11300            | 3600     | 4750 |
| 1090T         | 0             | 3-1/2        | 3-3/4    | 15/16      | 3-1/4     | 52.36    | 38.1    | 33000             | 24000            | 3600     | 4000 |
| 1100T         | 0             | 4            | 4-1/4    | 15/16      | 3-1/4     | 88.14    | 38.1    | 55550             | 24000            | 2440     | 3250 |
| 1110T         | 0             | 4-1/2        | 4-5/8    | 1-13/16    | 3-15/16   | 130.90   | 71.1    | 82500             | 44800            | 2250     | 3000 |
| 1120T         | 2-3/8         | 5            | 5-3/8    | *          | *         | 191.99   | *       | 121000            | *                | 2025     | 2700 |
| 1130T         | 2-5/8         | 6            | 6-1/2    | *          | *         | 279.25   | *       | 176000            | *                | 1800     | 2400 |
| 1140T         | 2-5/8         | 7            | 7-1/4    | *          | *         | 401.43   | *       | 253000            | *                | 1650     | 2200 |

| Coupling Size | A     |       | B        |         | C     | D        |         | E   | Weight (Lbs.) (1) |      | Inertia (Lb. Ft. <sup>2</sup> ) (2) |
|---------------|-------|-------|----------|---------|-------|----------|---------|-----|-------------------|------|-------------------------------------|
|               | T10   | T20   | Str. Hub | T-L Hub |       | Str. Hub | T-L Hub |     | T10               | T20  |                                     |
|               | 1020T | 3.47  | 4.38     | 3.89    |       | N/A      | 1.56    |     | 1.9               | N/A  |                                     |
| 1030T         | 3.88  | 4.75  | 3.89     | 3.39    | 1.94  | 1.9      | 1.6     | 0.1 | 3.8               | 4.0  | 0.1                                 |
| 1040T         | 4.22  | 5.06  | 4.13     | 3.36    | 2.25  | 2.0      | 1.6     | 0.1 | 4.7               | 4.9  | 0.1                                 |
| 1050T         | 5.09  | 5.81  | 4.88     | 3.89    | 2.63  | 2.4      | 1.9     | 0.1 | 7.3               | 7.5  | 0.2                                 |
| 1060T         | 5.47  | 6.38  | 5.13     | 4.38    | 3.00  | 2.5      | 2.1     | 0.1 | 11.0              | 11.0 | 0.3                                 |
| 1070T         | 5.92  | 6.81  | 6.13     | 4.38    | 3.44  | 3.0      | 2.1     | 0.1 | 13.8              | 14.0 | 0.4                                 |
| 1080T         | 6.92  | 7.88  | 7.13     | 5.39    | 4.13  | 3.5      | 2.6     | 0.1 | 25.1              | 25.6 | 1.01                                |
| 1090T         | 7.70  | 9.13  | 7.88     | 6.39    | 4.88  | 3.9      | 3.1     | 0.1 | 35.1              | 35.6 | 1.7                                 |
| 1100T         | 9.88  | 10.50 | 9.69     | 7.19    | 5.59  | 4.8      | 3.5     | 0.2 | 62.6              | 63.2 | 3.7                                 |
| 1110T         | 10.63 | 11.25 | 10.19    | 7.45    | 6.31  | 5.0      | 3.6     | 0.2 | 78.5              | 79.0 | 5.6                                 |
| 1120T         | 12.13 | 12.56 | 12.00    | *       | 7.06  | 5.9      | *       | 0.3 | 114.0             |      | 10.8                                |
| 1130T         | 13.63 | 14.88 | 13.00    | *       | 8.56  | 6.4      | *       | 0.3 | 165.0             |      | 20.2                                |
| 1140T         | 15.13 | 16.38 | 14.75    | *       | 10.00 | 7.3      | *       | 0.3 | 236.0             |      | 36.4                                |

(1) Weight of complete coupling at maximum bore

(2) Inertia of complete coupling at maximum bore

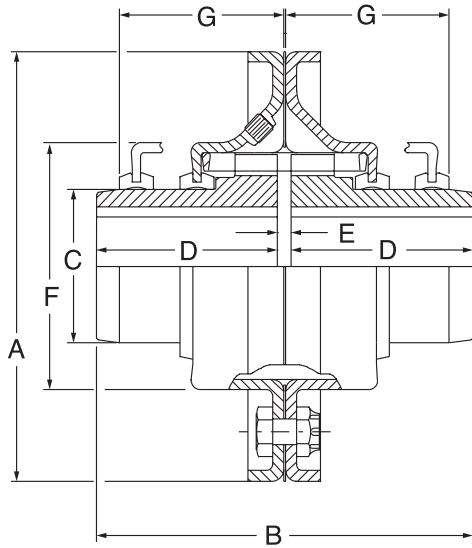
\* Priced on Request

|                                  |   |   |                                      |
|----------------------------------|---|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-36 | SPECIFICATION/HOW TO<br>ORDER PAGE PT1-40 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|---|---|--------------------------------------|

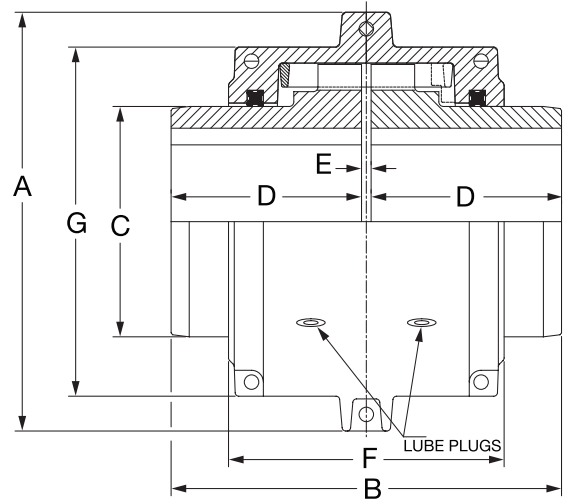


# SELECTION/DIMENSIONS

## GRID-LIGN COUPLINGS SIZES FOR 1150T - 1200T



TYPE T20



TYPE T10

| Coupling Size | Straight Bore |         | Torque |         | Maximum RPM |      | Weight (lbs) (1) | Inertia (lb ft <sup>2</sup> ) (2) |
|---------------|---------------|---------|--------|---------|-------------|------|------------------|-----------------------------------|
|               | Minimum       | Maximum | HP/100 | In-Lbs  | T10         | T20  |                  |                                   |
| 1150T         | 4.1           | 8.0     | 558.5  | 352000  | 1500        | 2000 | 516              | 12387                             |
| 1160T         | 4.6           | 9.0     | 785.4  | 495000  | 1350        | 1750 | 699              | 20192                             |
| 1170T         | 5.1           | 10.0    | 1047.2 | 660000  | 1225        | 1600 | 988              | 35251                             |
| 1180T         | 5.8           | 11.0    | 1451.8 | 915000  | 1110        | 1400 | 1365             | 63935                             |
| 1190T         | 5.8           | 12.0    | 1919.9 | 1210000 | 1050        | 1300 | 1711             | 95407                             |
| 1200T         | 6.8           | 13.0    | 2618.0 | 1650000 | 900         | 1100 | 2333             | 158256                            |

| Coupling Size | A    |      | B    | C    | D    | E   | F    | G    |
|---------------|------|------|------|------|------|-----|------|------|
|               | T10  | T20  |      |      |      |     |      |      |
| 1150T         | 17.9 | 18.8 | 14.7 | 10.6 | 7.2  | 0.3 | 10.8 | 15.5 |
| 1160T         | 19.8 | 21.0 | 15.9 | 12.0 | 7.8  | 0.3 | 11.0 | 17.2 |
| 1170T         | 22.4 | 23.0 | 17.3 | 14.0 | 8.5  | 0.3 | 12.2 | 19.2 |
| 1180T         | 24.8 | 24.8 | 19.1 | 15.5 | 9.4  | 0.3 | 12.7 | 21.9 |
| 1190T         | 26.4 | 27.0 | 20.7 | 18.3 | 10.2 | 0.3 | 12.8 | 23.8 |
| 1200T         | 30.0 | 29.0 | 22.3 | 19.6 | 11.0 | 0.3 | 14.0 | 26.1 |

(1) Weight of complete coupling at minimum bore  
 (2) Inertia of complete coupling at minimum bore



# SELECTION/DIMENSIONS

## GRID-LIGN

### Type T10 And T20 GRID-LIGN Couplings Part Numbers - Sizes 1020T Thru 1090T

| Size              | 1020T    | 1030T    | 1040T    | 1050T    | 1060T    | 1070T    | 1080T    | 1090T    |
|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| T10 Grid/Cover    | • 006750 | • 006751 | • 006752 | • 006753 | • 006754 | • 006755 | • 006756 | • 006757 |
| T20 Grid/Cover    | • 006765 | • 006766 | • 006767 | • 006768 | • 006769 | • 006770 | • 006771 | • 006772 |
| Grid              | • 006275 | • 006276 | • 006277 | • 006278 | • 006279 | • 006280 | • 006281 | • 006282 |
| T10 Cover         | • 006250 | • 006251 | • 006252 | • 006253 | • 006254 | • 006255 | • 006256 | • 006257 |
| T20 Cover         | • 006260 | • 006261 | • 006262 | • 006263 | • 006264 | • 006265 | • 006266 | • 006267 |
| T-L Hubs          | N/A      | • 006318 | • 006319 | • 006320 | • 006321 | • 006322 | • 006323 | • 006324 |
| Bushing Size      | N/A      | 1108     | 1108     | 1215     | 1615     | 2012     | 2525     | 3030     |
| Reborable         | • 006290 | • 006291 | • 006292 | • 006293 | • 006294 | • 006295 | • 006296 | • 006297 |
| Finished Bore Hub |          |          |          |          |          |          |          |          |
| 1/2               | 006580   |          |          |          |          |          |          |          |
| 5/8               | 006581   | 006585   |          |          |          |          |          |          |
| 3/4               | • 006582 | • 006586 |          |          |          |          |          |          |
| 7/8               | 006583   | • 006587 | • 006592 | • 006576 |          |          |          |          |
| 15/16             | 006571   | 006572   | 006950   | 006953   | 006957   |          |          |          |
| 1                 | • 006584 | • 006588 | • 006593 | • 006577 |          |          |          |          |
| 1-1/8             | • 006793 | • 006589 | • 006594 | • 006599 | 006578   |          |          |          |
| 1-3/16            |          |          | 006951   | 006954   | 006958   |          |          |          |
| 1-1/4             |          | • 006590 | • 006595 | • 006600 | • 006579 | 006629   |          |          |
| 1-3/8             |          | • 006591 | • 006596 | • 006601 | • 006606 | 006640   |          |          |
| 1-7/16            |          |          | 006952   | 006955   | 006643   | 006961   |          |          |
| 1-1/2             |          |          | • 006597 | • 006602 | • 006607 | • 006641 | 006642   | 006540   |
| 1-5/8             |          |          | • 006598 | • 006603 | • 006608 | • 006612 | 006539   |          |
| 1-11/16           |          |          |          | • 006956 | 006959   | 006962   |          |          |
| 1-3/4             |          |          |          | 006604   | • 006609 | • 006613 |          |          |
| 1-7/8             |          |          |          | • 006605 | • 006610 | • 006614 | 006573   | 006541   |
| 1-15/16           |          |          |          |          | • 006960 | 006963   |          |          |
| 2                 |          |          |          |          | • 006794 | • 006615 | 006620   |          |
| 2-1/8             |          |          |          |          | • 006611 | • 006616 | • 006621 | 006656   |
| 2-3/16            |          |          |          |          |          | • 006964 | 006966   |          |
| 2-1/4             |          |          |          |          |          | • 006617 | • 006622 | • 006657 |
| 2-3/8             |          |          |          |          |          | • 006618 | • 006623 | • 006804 |
| 2-7/16            |          |          |          |          |          | • 006965 | 006967   |          |
| 2-1/2             |          |          |          |          |          | 006619   | • 006624 | • 006795 |
| 2-5/8             |          |          |          |          |          | 006479   | 006625   | 006796   |
| 2-11/16           |          |          |          |          |          |          | 006968   | 006790   |
| 2-3/4             |          |          |          |          |          |          | 006626   | 006797   |
| 2-7/8             |          |          |          |          |          |          | • 006627 | • 006798 |
| 2-15/16           |          |          |          |          |          |          | 006969   | 006791   |
| 3                 |          |          |          |          |          |          | 006628   | 006799   |
| 3-1/8             |          |          |          |          |          |          |          | 006800   |
| 3-1/4             |          |          |          |          |          |          |          | 006801   |
| 3-3/8             |          |          |          |          |          |          |          | • 006802 |
| 3-7/16            |          |          |          |          |          |          |          | 006792   |
| 3-1/2             |          |          |          |          |          |          |          | 006803   |
| 3-5/8             |          |          |          |          |          |          |          |          |
| 3-3/4             |          |          |          |          |          |          |          | 006480   |
| 3-7/8             |          |          |          |          |          |          |          |          |
| 3-15/16           |          |          |          |          |          |          |          |          |
| 4                 |          |          |          |          |          |          |          |          |

• Stock Sizes \*Priced on request

**Note:** For TAPER-LOCK design, TAPER-LOCK bushings must be ordered separately

**Note:** 1020T - 1090T hubs come standard as clearance fit. Interference fit available on request.

**Complete coupling consists of: (2) Hubs, TAPER-LOCK or straight bore, and (1) grid & cover assembly**

|                                  |   |   |                                      |
|----------------------------------|---|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-36 | SPECIFICATION/HOW TO<br>ORDER PAGE PT1-40 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|---|---|--------------------------------------|



# SELECTION/DIMENSIONS

## GRID-LIGN

### Type T10 And T20 GRID-LIGN Couplings Part Numbers - Sizes 1100T Through 1200T

| Size               | 1100T    | 1110T    | 1120T    | 1130T    | 1140T    | 1150T    | 1160T    | 1170T    | 1180T    | 1190T    | 1200T    |
|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| T10 Grid/Cover     | • 006758 | • 006759 | • 006760 | • 006761 | • 006762 | • 007456 | • 007457 | • 007458 | • 007459 | • 007460 | • 007461 |
| T20 Grid/Cover     | • 006773 | • 006774 | 425514   | 423677   | 426916   | 007017   | 007018   | 007019   | 007020   | 007021   | 007022   |
| Grid               | • 006283 | • 006284 | 007462   | 007463   | 007464   | • 007465 | • 007466 | • 007467 | • 007468 | • 007469 | • 007470 |
| T10 Cover          | • 006258 | • 006259 | 007471   | 007472   | 007473   | • 007474 | • 007475 | • 007476 | • 007477 | • 007478 | • 007479 |
| T20 Cover          | • 006268 | • 006269 | 426672   | 426673   | 426674   | 007011   | 007012   | 007013   | 007014   | 007015   | 007016   |
| T-L Hubs           | • 006325 | • 006326 | 423589   | 393257   | *        | *        | *        | *        | *        | *        | *        |
| Bushing Size       | 3030     | 3535     | 4040     | 4545     | *        | *        | *        | *        | *        | *        | *        |
| Reborable          | • 006298 | • 006299 | • 006300 | • 006301 | • 006245 | • 007450 | • 007451 | • 007452 | • 007453 | • 007454 | • 007455 |
| Finished Bore Hubs |          |          |          |          |          |          |          |          |          |          |          |
| 2-1/2              | 006460   |          |          |          |          |          |          |          |          |          |          |
| 2-5/8              | 006461   |          |          |          |          |          |          |          |          |          |          |
| 2-11/16            | 006473   |          |          |          |          |          |          |          |          |          |          |
| 2-3/4              | 006462   |          |          |          |          |          |          |          |          |          |          |
| 2-7/8              | 006463   |          |          |          |          |          |          |          |          |          |          |
| 2-15/16            | 006474   |          |          |          |          |          |          |          |          |          |          |
| 3                  | 006464   | 006486   |          |          |          |          |          |          |          |          |          |
| 3-1/8              | 006465   | 006487   |          |          |          |          |          |          |          |          |          |
| 3-1/4              | 006466   | 006488   |          |          |          |          |          |          |          |          |          |
| 3-3/8              | • 006467 | 006489   |          |          |          |          |          |          |          |          |          |
| 3-7/16             | 006475   | 006484   |          |          |          |          |          |          |          |          |          |
| 3-1/2              | 006468   | 006490   |          |          |          |          |          |          |          |          |          |
| 3-5/8              | 006469   | 006491   |          |          |          |          |          |          |          |          |          |
| 3-3/4              | 006470   | 006492   |          |          |          |          |          |          |          |          |          |
| 3-7/8              | 006471   | 006493   |          |          |          |          |          |          |          |          |          |
| 3-15/16            | 006476   | 006485   |          |          |          |          |          |          |          |          |          |
| 4                  | 006472   | 006494   |          |          |          |          |          |          |          |          |          |

• Stock Sizes \*Priced on request

**Note:** For TAPER-LOCK design, TAPER-LOCK bushings must be ordered separately

**Note:** 1100T - 1200T hubs come standard as interference fit. Clearance fit available on request

**Complete coupling consists of: (2) Hubs, TAPER-LOCK or straight bore, and (1) grid & cover assembly.**

**TL Bushings on page PT6-2**

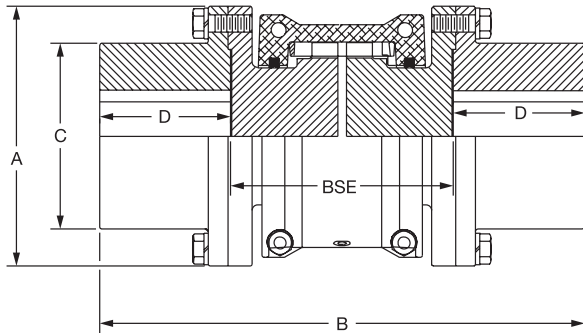
|                                  |   |   |                                      |
|----------------------------------|---|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-36 | SPECIFICATION/HOW TO<br>ORDER PAGE PT1-40 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|---|---|--------------------------------------|



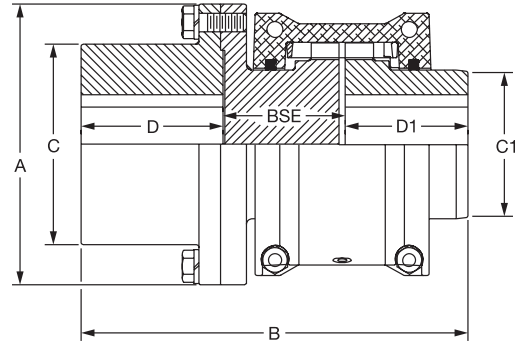
## SELECTION/DIMENSIONS

### GRID-LIGN

### SPACER, STRAIGHT BORE & TAPER-LOCK DIMENSIONS/RATINGS



TYPE T31



TYPE T35

| Coupling Size | Straight Bore |              |          | TAPER-LOCK |           | HP/100 (5) |         | TORQUE (5)        |                  | Max. RPM | T31 Weight* |      |
|---------------|---------------|--------------|----------|------------|-----------|------------|---------|-------------------|------------------|----------|-------------|------|
|               | Min. Bore     | Maximum Bore |          | Min. Bore  | Max. Bore | Str. Hub   | T-L Hub | Str. Hub (In-Lbs) | T-L Hub (In-Lbs) |          | (1)         | (2)  |
|               |               | Sq. Key      | Rec. Key |            |           |            |         |                   |                  |          |             |      |
| 1020T         | ---           | 1-3/8        | 1-7/16   | 1/2        | 1-1/8     | 0.67       | 0.67    | 422               | 422              | 3600     | 8.1         | .54  |
| 1030T         | ---           | 1-5/8        | 1-3/4    | 1/2        | 1-1/8     | 1.90       | 1.90    | 1200              | 1200             | 3600     | 11.1        | .83  |
| 1040T         | ---           | 2-1/8        | 2-1/4    | 1/2        | 1-7/16    | 3.20       | 3.20    | 2000              | 2000             | 3600     | 18.0        | 1.11 |
| 1050T         | ---           | 2-3/8        | 2-1/2    | 1/2        | 1-11/16   | 5.60       | 5.60    | 3500              | 3500             | 3600     | 26.6        | 1.52 |
| 1060T         | ---           | 2-7/8        | 3-1/8    | 1/2        | 2-1/8     | 8.70       | 8.70    | 5500              | 5500             | 3600     | 42.7        | 1.98 |
| 1070T         | ---           | 3-1/8        | 3-1/4    | 3/4        | 2-11/16   | 13.00      | 13.00   | 8000              | 8000             | 3600     | 52.3        | 2.60 |
| 1080T         | ---           | 3-1/2        | 3-3/4    | 3/4        | 2-11/16   | 26.00      | 17.90   | 16,500            | 11,300           | 3600     | 84.8        | 3.70 |
| 1090T         | ---           | 4            | 4-1/4    | 15/16      | 3-1/4     | 48.00      | 38.10   | 30,000            | 24,000           | 3600     | 130.0       | 5.20 |

| Coupling Size | A    | C    | C1   | D    | D1   | T31 BSE |       | T35 BSE |      | T31 Inertia (Lb. Ft. <sup>2</sup> ) |       |
|---------------|------|------|------|------|------|---------|-------|---------|------|-------------------------------------|-------|
|               |      |      |      |      |      | Min.    | Max.  | Min.    | Max. | (3)                                 | (4)   |
|               |      |      |      |      |      |         |       |         |      |                                     |       |
| 1020T         | 3.38 | 2.06 | 1.56 | 1.38 | 1.88 | 3.50    | 8.00  | 1.78    | 4.03 | 0.07                                | 0.001 |
| 1030T         | 3.69 | 2.34 | 1.94 | 1.63 | 1.88 | 3.50    | 8.50  | 1.78    | 4.28 | 0.11                                | 0.003 |
| 1040T         | 4.44 | 3.11 | 2.25 | 2.13 | 2.00 | 3.50    | 8.50  | 1.78    | 4.28 | 0.21                                | 0.005 |
| 1050T         | 4.94 | 3.44 | 2.63 | 2.38 | 2.38 | 4.38    | 8.50  | 2.22    | 4.28 | 0.51                                | 0.010 |
| 1060T         | 5.69 | 4.06 | 3.00 | 2.88 | 3.50 | 5.00    | 13.00 | 2.53    | 6.53 | 0.88                                | 0.020 |
| 1070T         | 6.00 | 4.31 | 3.44 | 3.13 | 3.00 | 5.00    | 13.00 | 2.53    | 6.53 | 1.23                                | 0.030 |
| 1080T         | 7.00 | 4.81 | 4.13 | 3.50 | 3.50 | 7.25    | 16.00 | 3.66    | 8.03 | 2.49                                | 0.060 |
| 1090T         | 8.25 | 5.63 | 4.88 | 4.00 | 3.88 | 7.25    | 16.00 | 3.66    | 8.03 | 5.01                                | 0.110 |

(1) Weight of T31 coupling at maximum bore

(2) Weight adder per inch

(3) Inertia of T31 coupling at maximum bore

(4) Inertia adder per inch

(5) HP/100 and TORQUE ratings for T-L style shaft hubs apply for "T" shaft hubs. See page PT1-52 for standard T-L style shaft hubs

\* For weight and inertia of T35 use 1/2 of T31 value (this page) and 1/2 T10 value (page PT1-52)

|                                  |   |   |                                      |
|----------------------------------|---|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-36 | SPECIFICATION/HOW TO<br>ORDER PAGE PT1-40 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|---|---|--------------------------------------|



# SELECTION/DIMENSIONS

## GRID-LIGN

Type T 31 And T35 GRID-LIGN Couplings, Spacer Straight Bore "T" Hubs, TAPER-LOCK "T" Hubs, Grids And Covers - Part Numbers

| Size               | 1020T    | 1030T    | 1040T    | 1050T    | 1060T    | 1070T    | 1080T    | 1090T    |
|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| T10Grid/Cover      | • 006750 | • 006751 | • 006752 | • 006753 | • 006754 | • 006755 | • 006756 | • 006757 |
| Grid               | • 006275 | • 006276 | • 006277 | • 006278 | • 006279 | • 006280 | • 006281 | • 006282 |
| T10 Cover          | • 006250 | • 006251 | • 006252 | • 006253 | • 006254 | • 006255 | • 006256 | • 006257 |
| T-L Hubs           | • 006328 | • 006329 | • 006330 | • 006331 | • 006332 | • 006333 | • 006334 | • 006335 |
| Bushing Size       | 1108     | 1108     | 1310     | 1615     | 2012     | 2525     | 2525     | 3030     |
| Reborable          | • 006305 | • 006306 | • 006307 | • 006308 | • 006309 | • 006310 | • 006311 | • 006312 |
| Finished Bore Hubs |          |          |          |          |          |          |          |          |
| 5/8                | 006903   |          |          |          |          |          |          |          |
| 7/8                | • 006904 | 006907   | 006399   |          |          |          |          |          |
| 1                  | 006905   | 006908   | • 006970 | 006984   |          |          |          |          |
| 1-1/8              | 006906   | 006909   | 006971   | 006985   |          |          |          |          |
| 1-1/4              | 006396   | 006397   | 006400   | 006402   | 006411   |          |          |          |
| 1-3/8              | • 006560 | 006894   | 006972   | 006986   | 006412   |          |          |          |
| 1-7/16             |          |          |          | 006456   |          |          |          |          |
| 1-1/2              |          |          |          | 006481   | 006413   |          |          |          |
| 1-5/8              |          | • 006398 | 006973   | 006987   | 006414   | 006417   | 006433   |          |
| 1-3/4              |          |          | 006974   | 006988   | 006990   | 006418   |          |          |
| 1-7/8              |          |          | 006564   | 006989   | 006991   | 006419   | 006434   | • 006440 |
| 2                  |          |          |          | 006457   | 006482   |          |          |          |
| 2-1/8              |          |          | 006401   | 006565   | 006992   | 006429   | 006435   |          |
| 2-3/8              |          |          |          | 006566   | • 006567 | • 006430 | 006458   | 006451   |
| 2-7/16             |          |          |          |          | 006415   |          | 006550   |          |
| 2-5/8              |          |          |          |          | 006416   |          | 006436   |          |
| 2-7/8              |          |          |          |          | • 006568 | 006431   | 006437   | 006452   |
| 3                  |          |          |          |          |          | 006432   | 006438   | 006453   |
| 3-3/8              |          |          |          |          |          |          | • 006439 | 006454   |
| 3-7/8              |          |          |          |          |          |          | 006455   | 006455   |

• Stock Sizes

Complete spacer couplings consists of:

- T31 Spacer - (2) "T" Shaft Hubs  
(2) Spacer Hubs (Page PT1-58)  
(1) T10 Grid & Cover Assembly
- T35 Half Spacer - (1) Shaft Hub (Page PT1-49)  
(1) Spacer Hub (Page PT1-59)  
(1) "T" Shaft Hub  
(1) T10 Grid & Cover Assembly

NOTE: For TAPER-LOCK designs, TAPER-LOCK bushings must be ordered separately. Refer to bushing section PT6-16.

NOTE: 1020T - 1090T hubs come standard as clearance fit. Interference fit available on request.

|                                  |   |   |                                      |
|----------------------------------|---|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-36 | SPECIFICATION/HOW TO<br>ORDER PAGE PT1-40 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|---|---|--------------------------------------|





## SELECTION/DIMENSIONS

### GRID-LIGN

Type T31 - Full Spacer

| B.S.E.<br>Dimen<br>sions<br>(in.) | Coupling Size   |      |                 |      |                 |      |                 |        |                 |        |                 |        |                 |        |                 |      |
|-----------------------------------|-----------------|------|-----------------|------|-----------------|------|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|------|
|                                   | 1020T           |      | 1030T           |      | 1040T           |      | 1050T           |        | 1060T           |        | 1070T           |        | 1080T           |        | 1090T           |      |
|                                   | Spacer Assembly |      | Spacer Assembly |      | Spacer Assembly |      | Spacer Assembly |        | Spacer Assembly |        | Spacer Assembly |        | Spacer Assembly |        | Spacer Assembly |      |
|                                   | P/N             | Qty. | P/N             | Qty. | P/N             | Qty. | P/N             | Qty.   | P/N             | Qty.   | P/N             | Qty.   | P/N             | Qty.   | P/N             | Qty. |
| 3.5                               | 006497          | 2    | 006504          | 2    | 006516          | 2    |                 |        |                 |        |                 |        |                 |        |                 |      |
| 3.94                              | 006497          | 1    | 006504          | 1    | 006516          | 1    |                 |        |                 |        |                 |        |                 |        |                 |      |
|                                   | 006498          | 1    | 006505          | 1    | 006517          | 1    |                 |        |                 |        |                 |        |                 |        |                 |      |
| 4.25                              | 006497          | 1    | 006504          | 1    | 006516          | 1    |                 |        |                 |        |                 |        |                 |        |                 |      |
|                                   | 006499          | 1    | 006506          | 1    | 006518          | 1    |                 |        |                 |        |                 |        |                 |        |                 |      |
| 4.38                              | 006498          | 2    | 006505          | 2    | 006517          | 2    | 006533          | 2      |                 |        |                 |        |                 |        |                 |      |
| 4.69                              | 006498          | 1    | 006505          | 1    | 006517          | 1    | 006533          | 1      |                 |        |                 |        |                 |        |                 |      |
|                                   | 006499          | 1    | 006506          | 1    | 006518          | 1    | 006534          | 1      |                 |        |                 |        |                 |        |                 |      |
| 5                                 | 006499          | 2    | 006506          | 2    | 006518          | 2    | 006534          | 2      | 006544          | 2      | 006553          | 2      |                 |        |                 |      |
| 5.22                              |                 |      |                 |      | 006516          | 1    |                 |        |                 |        |                 |        |                 |        |                 |      |
|                                   |                 |      |                 |      | 006519          | 1    |                 |        |                 |        |                 |        |                 |        |                 |      |
| 5.38                              |                 |      | 006504          | 1    | 006516          | 1    |                 |        |                 |        |                 |        |                 |        |                 |      |
|                                   |                 |      | 006507          | 1    | 006520          | 1    |                 |        |                 |        |                 |        |                 |        |                 |      |
| 5.66                              |                 |      |                 |      | 006517          | 1    | 006533          | 1      |                 |        |                 |        |                 |        |                 |      |
|                                   |                 |      |                 |      | 006519          | 1    | 006535          | 1      |                 |        |                 |        |                 |        |                 |      |
| 5.81                              |                 |      | 006505          | 1    | 006517          | 1    | 006533          | 1      |                 |        |                 |        |                 |        |                 |      |
|                                   |                 |      | 006507          | 1    | 006520          | 1    | 006536          | 1      |                 |        |                 |        |                 |        |                 |      |
| 5.97                              |                 |      |                 |      | 006518          | 1    | 006534          | 1      |                 |        |                 |        |                 |        |                 |      |
|                                   |                 |      |                 |      | 006519          | 1    | 006535          | 1      |                 |        |                 |        |                 |        |                 |      |
| 6.12                              |                 |      | 006506          | 1    | 006518          | 1    | 006534          | 1      | 006544          | 1      | 006553          | 1      |                 |        |                 |      |
|                                   |                 |      | 006507          | 1    | 006520          | 1    | 006536          | 1      | 006545          | 1      | 006554          | 1      |                 |        |                 |      |
| 6.94                              |                 |      |                 |      | 006519          | 2    | 006535          | 2      |                 |        |                 |        |                 |        |                 |      |
| 7.09                              |                 |      |                 |      | 006519          | 1    | 006535          | 1      |                 |        |                 |        |                 |        |                 |      |
|                                   |                 |      |                 |      | 006520          | 1    | 006536          | 1      |                 |        |                 |        |                 |        |                 |      |
| 7.25                              |                 |      | 006507          | 2    | 006520          | 2    | 006536          | 2      | 006545          | 2      | 006554          | 2      | 006561          | 2      | 006569          | 2    |
| 8.00                              |                 |      |                 |      |                 |      |                 |        |                 |        |                 |        |                 |        |                 |      |
| 8.59                              |                 |      |                 |      |                 |      |                 |        |                 |        |                 |        | 006561          | 1      |                 |      |
|                                   |                 |      |                 |      |                 |      |                 |        |                 |        |                 |        | 006562          | 1      |                 |      |
| 8.62                              |                 |      |                 |      |                 |      |                 | 006544 | 1               | 006553 | 1               |        |                 |        |                 |      |
|                                   |                 |      |                 |      |                 |      |                 | 006546 | 1               | 006555 | 1               |        |                 |        |                 |      |
| 8.88                              |                 |      |                 |      |                 |      |                 |        |                 |        |                 |        |                 |        |                 |      |
| 9.75                              |                 |      |                 |      |                 |      |                 | 006545 | 1               | 006554 | 1               | 006561 | 1               | 006569 | 1               |      |
|                                   |                 |      |                 |      |                 |      |                 | 006546 | 1               | 006555 | 1               | 006563 | 1               | 006570 | 1               |      |
| 9.94                              |                 |      |                 |      |                 |      |                 |        |                 |        |                 | 006562 | 2               |        |                 |      |
| 11.09                             |                 |      |                 |      |                 |      |                 |        |                 |        |                 | 006562 | 1               |        |                 |      |
|                                   |                 |      |                 |      |                 |      |                 |        |                 |        |                 | 006563 | 1               |        |                 |      |
| 12.25                             |                 |      |                 |      |                 |      |                 | 006546 | 2               | 006555 | 2               | 006563 | 2               | 006570 | 2               |      |



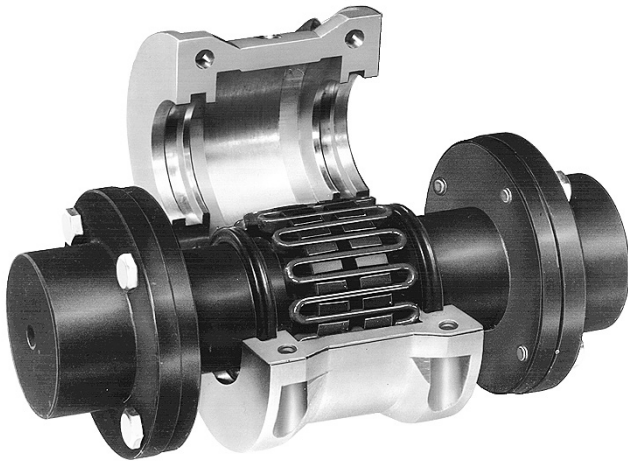
# SELECTION/DIMENSIONS

## GRID-LIGN

### Type T35 - Half Spacer

| B.S.E. Dimensions (in.) | Coupling Size   |      |                 |      |                 |      |                 |      |                 |      |                 |      |                 |      |                 |      |
|-------------------------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|
|                         | 1020T           |      | 1030T           |      | 1040T           |      | 1050T           |      | 1060T           |      | 1070T           |      | 1080T           |      | 1090T           |      |
|                         | Spacer Assembly |      | Spacer Assembly |      | Spacer Assembly |      | Spacer Assembly |      | Spacer Assembly |      | Spacer Assembly |      | Spacer Assembly |      | Spacer Assembly |      |
|                         | P/N             | Qty. | P/N             | Qty. | P/N             | Qty. | P/N             | Qty. | P/N             | Qty. | P/N             | Qty. | P/N             | Qty. | P/N             | Qty. |
| 1.78                    | 006497          | 1    | 006504          | 1    | 006516          | 1    |                 |      |                 |      |                 |      |                 |      |                 |      |
| 2.22                    | 006498          | 1    | 006505          | 1    | 006517          | 1    | 006533          | 1    |                 |      |                 |      |                 |      |                 |      |
| 2.53                    | 006499          | 1    | 006506          | 1    | 006518          | 1    | 006534          | 1    | 006544          | 1    | 006553          | 1    |                 |      |                 |      |
| 3.50                    |                 |      |                 |      | 006519          | 1    | 006535          | 1    |                 |      |                 |      |                 |      |                 |      |
| 3.66                    |                 |      | 006507          | 1    | 006520          | 1    | 006536          | 1    | 006545          | 1    | 006554          | 1    | 006561          | 1    | 006569          | 1    |
| 4.06                    |                 |      |                 |      |                 |      |                 |      |                 |      |                 |      |                 |      |                 |      |
| 5.00                    |                 |      |                 |      |                 |      |                 |      |                 |      |                 |      | 006562          | 1    |                 |      |
| 6.16                    |                 |      |                 |      |                 |      |                 |      | 006546          | 1    | 006555          | 1    | 006563          | 1    | 006570          | 1    |

T31 - Full Spacer



T35 - Half Spacer



|                                  |   |   |                                      |
|----------------------------------|---|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-36 | SPECIFICATION/HOW TO ORDER<br>PAGE PT1-40 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|---|---|--------------------------------------|



# FEATURES/BENEFITS

## Gear Couplings

### The Power-Dense, High-Torque Gear Coupling

The DODGE Gear Coupling (DGF) offers unmatched performance and proven reliability

#### Quality Manufacturing

- High-quality steel
- Larger tooth profile provides additional service factor
- Good inherent balance
- Proven O-ring seal design
- Machined flanges and gasket for improved sealing
- High-grade fasteners

#### Performance Benefits

- High torque rating allows for coupling downsizing
- Versatile design permits interchangeable half couplings
- Low backlash (well suited for reversing applications)
- Crowned tooth profile for longer life and improved performance

#### DODGE Benefits

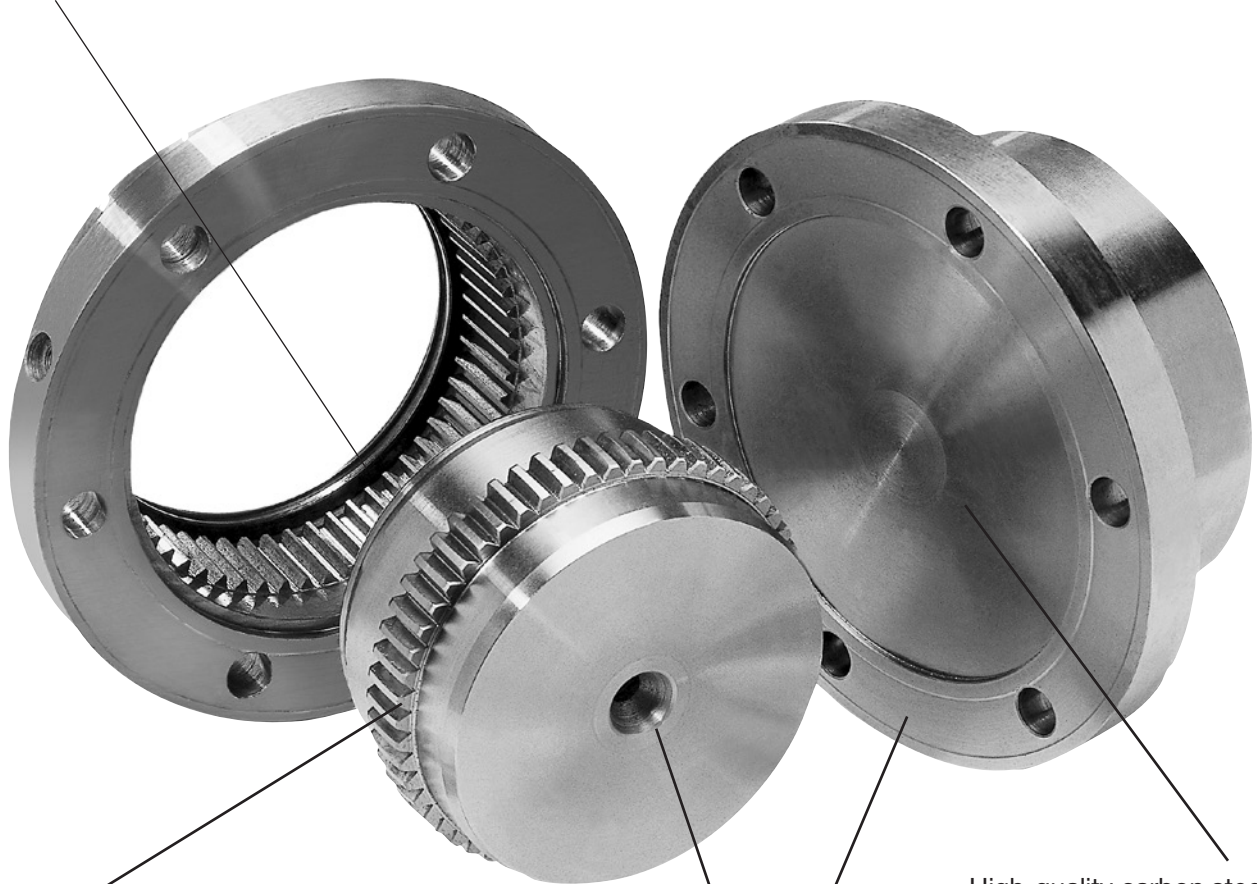
- Coupling solutions for any application
  - Choose from DODGE coupling family: Gear (DGF), PARA-FLEX, GRID-LIGN, D-FLEX, Rigid and Fluid - all available from stock
- Combine DODGE couplings with any DODGE speed reducer for unmatched performance
  - Choose from thousands of combinations to get a package tailored to meet your needs
- Years of application expertise
  - DODGE engineers can help specify products to achieve maximum results from your equipment



# FEATURES/BENEFITS

## Gear Couplings

Reliable O-ring design effectively seals against contaminants



High pressure angle provides large tooth base; results in high safety factor

Flexible, rigid hub styles available

High-quality carbon steel ensures longer service life



## Gear Couplings

### SPECIFICATION

DODGE GEAR COUPLINGS are power dense and capable of transmitting high torque at high speeds while still remaining inherently well balanced. Gear Couplings transmit torque by the mating of two hubs with external gear teeth that are joined by flanged sleeves with internal gear teeth.


Gear Couplings will be provided with interference fit bores unless otherwise specified. The hubs and sleeves will be manufactured of high quality steel.

### HOW TO ORDER

Standard couplings consist of:

- (2) Flex Hubs
- (2) Sleeves
- (1) Hardware Kit

### NOMENCLATURE



**DGF**

**1.0**

DODGE Gear coupling \_\_\_\_\_

Size \_\_\_\_\_

### COMPETITOR INTERCHANGE

| DODGE DGF | FALK LIFELIGN | KOP-FLEX KOPPERS SERIES H | AMERIGEAR ZURN F SERIES | LOVEJOY/SIER-BATH |
|-----------|---------------|---------------------------|-------------------------|-------------------|
| 1         | 1010G20 *     | 1                         | 201                     | -                 |
| 1.5       | 1015G20       | 1-1/2                     | 201-1/2                 | 1.5               |
| 2         | 1020G20       | 2                         | 202                     | 2                 |
| 2.5       | 1025G20       | 2-1/2                     | 202-1/2                 | 2.5               |
| 3         | 1030G20       | 3                         | 203                     | 3                 |
| 3.5       | 1035G20       | 3-1/2                     | 203-1/2                 | 3.5               |
| 4         | 1040G20       | 4                         | 204                     | 4                 |
| 4.5       | 1045G20       | 4-1/2                     | 204-1/2                 | 4.5               |
| 5         | 1050G20       | 5                         | 205                     | 5                 |
| 5.5       | 1055G20       | 5-1/2                     | 205-1/2                 | 5.5               |
| 6         | 1060G20       | 6                         | 206                     | 6                 |
| 7         | 1070G20       | 7                         | 207                     | -                 |

\* G20 - FLEX-FLEX  
G52 - FLEX-RIGID

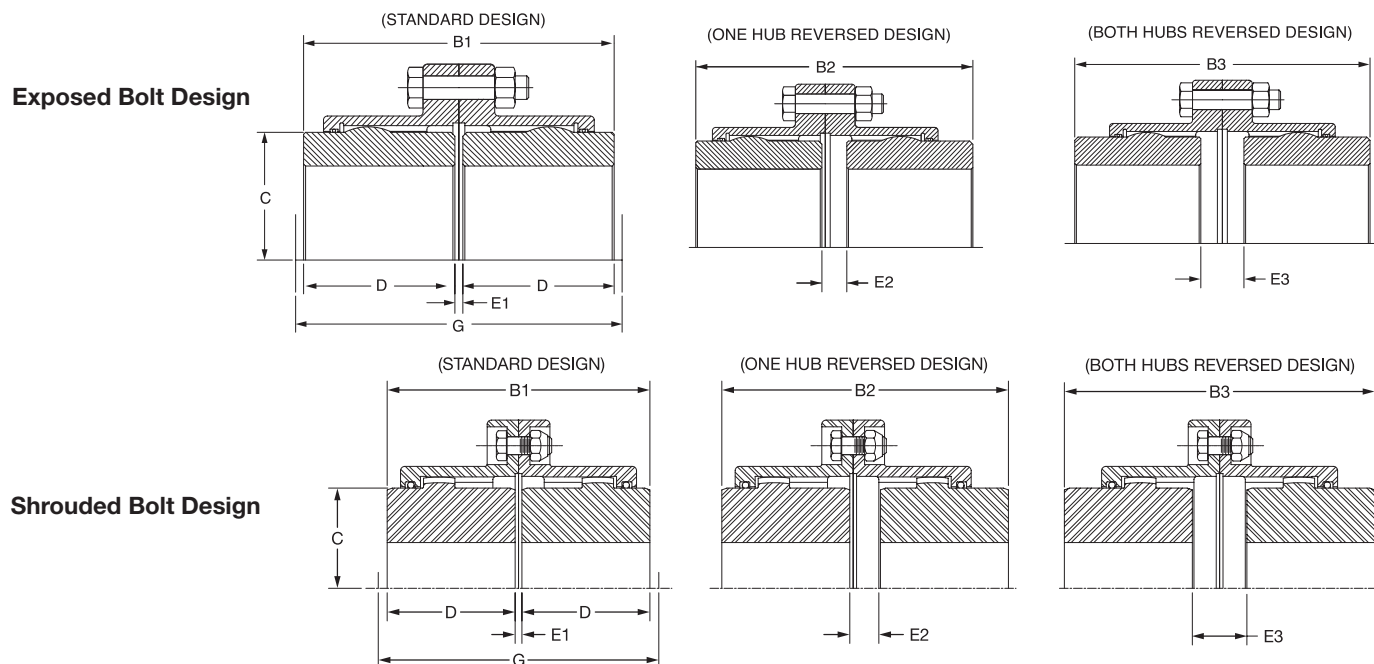
**NOTE:** Instruction manual for Gear Couplings available on [www.baldor.com](http://www.baldor.com)

|                                  |                                     |   |                                      |
|----------------------------------|-------------------------------------|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-48 | SELECTION/DIMENSIONS<br>PAGE PT1-51 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|-------------------------------------|---|--------------------------------------|



## SELECTION/DIMENSIONS

### Gear Couplings



| Size | Min. Bore [in.] | Max. Bore [in.] Standard Keyway |           | Max. Bore [in.] Shallow Keyway |           | HP/100+ RPM | Torque+ [lb-in.] | Max. RPM* | Max. Parallel Offset [in.]** | Approx. Weight [lbs.]*** |
|------|-----------------|---------------------------------|-----------|--------------------------------|-----------|-------------|------------------|-----------|------------------------------|--------------------------|
|      |                 | Flex Hub                        | Rigid Hub | Flex Hub                       | Rigid Hub |             |                  |           |                              |                          |
| 1    | 0.438           | 1.625                           | 2.188     | 1.750                          | 2.313     | 12          | 7500             | 6000      | 0.055                        | 9                        |
| 1.5  | 0.690           | 2.125                           | 2.813     | 2.250                          | 3.063     | 30          | 18900            | 5500      | 0.060                        | 19                       |
| 2    | 0.940           | 2.750                           | 3.500     | 3.000                          | 3.750     | 50          | 31500            | 5000      | 0.085                        | 34                       |
| 2.5  | 1.440           | 3.250                           | 4.250     | 3.375                          | 4.500     | 90          | 56700            | 4400      | 0.105                        | 55                       |
| 3    | 1.440           | 4.000                           | 4.875     | 4.250                          | 5.250     | 150         | 94500            | 4000      | 0.115                        | 86                       |
| 3.5  | 1.810           | 4.625                           | 5.625     | 4.875                          | 6.125     | 240         | 151300           | 3500      | 0.130                        | 135                      |
| 4    | 2.440           | 5.375                           | 6.500     | 5.625                          | 6.875     | 350         | 220600           | 3000      | 0.150                        | 195                      |
| 4.5  | 3.000           | 6.000                           | 7.375     | 6.438                          | 8.000     | 480         | 302500           | 2700      | 0.175                        | 268                      |
| 5    | 3.000           | 6.500                           | 8.375     | 7.000                          | 8.875     | 690         | 434900           | 2500      | 0.200                        | 394                      |
| 5.5  | 4.000           | 7.500                           | 9.250     | 7.875                          | 9.875     | 910         | 573500           | 2200      | 0.220                        | 526                      |
| 6    | 4.000           | 8.250                           | 10.125    | 8.750                          | 11.000    | 1190        | 750000           | 2100      | 0.120                        | 687                      |
| 7    | 5.000           | 9.500                           | 11.250    | 9.750                          | 12.250    | 1600        | 1008400          | 2000      | 0.135                        | 1017                     |

+ Ratings are based on standard interference fit.

\* For higher RPM applications, contact DODGE Customer Order Engineering at (864) 284-5700.

\*\* Based on 1-1/2 degrees angular misalignment per gear mesh for sizes 1 through 5-1/2, 3/4 degree angular misalignment per gear mesh for sizes 6 and 7, and maximum bore. Flex-Rigid configurations do not accept parallel misalignment.

\*\*\* Approximate weight with minimum bore.

| Size | Dimension [in.] |          |          |         |         |      |         |        |        |
|------|-----------------|----------|----------|---------|---------|------|---------|--------|--------|
|      | B1              | B2       | B3       | C       | D       | E1   | E2      | E3     | G      |
| 1    | 3-1/2           | 3-13/16  | 4-1/8    | 2-5/16  | 1-11/16 | 1/8  | 7/16    | 3/4    | 4-3/16 |
| 1.5  | 4               | 4-1/4    | 4-1/2    | 3       | 1-15/16 | 1/8  | 3/8     | 5/8    | 4-3/4  |
| 2    | 5               | 5-13/16  | 6-3/8    | 4       | 2-7/16  | 1/8  | 13/16   | 1-1/2  | 6      |
| 2.5  | 6-1/4           | 7-1/32   | 7-13/16  | 4-5/8   | 3-1/32  | 3/16 | 31/32   | 1-3/4  | 7-1/8  |
| 3    | 7-3/8           | 8-1/32   | 8-11/16  | 5-5/8   | 3-19/32 | 3/16 | 27/32   | 1-1/2  | 8-1/8  |
| 3.5  | 8-5/8           | 9-3/16   | 9-3/4    | 6-1/2   | 4-3/16  | 1/4  | 13/16   | 1-3/8  | 9-3/8  |
| 4    | 9-3/4           | 10-7/16  | 11-1/8   | 7-1/2   | 4-3/4   | 1/4  | 15/16   | 1-5/8  | 10-1/4 |
| 4.5  | 10-15/16        | 12       | 13-1/16  | 8-1/2   | 5-5/16  | 5/16 | 1-3/8   | 2-7/16 | 11-1/2 |
| 5    | 12-3/8          | 13-23/32 | 15-1/16  | 9-1/2   | 6-1/32  | 5/16 | 1-21/32 | 3      | 13     |
| 5.5  | 14-1/8          | 15-5/8   | 17-1/8   | 6-29/32 | 6-29/32 | 5/16 | 1-13/16 | 3-5/16 | 14-3/8 |
| 6    | 15-1/8          | 16-17/32 | 17-15/16 | 11-1/2  | 7-13/32 | 5/16 | 1-23/32 | 3-1/8  | 17     |
| 7    | 17-3/4          | 19-1/16  | 20-3/8   | 13      | 8-11/16 | 3/8  | 1-11/16 | 3      | 20     |

\* Minimum space required to install and align coupling.

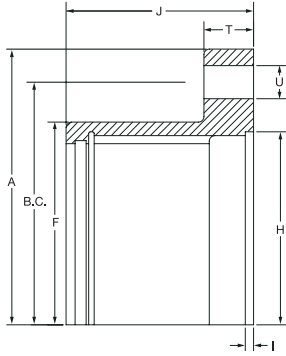
|                                  |   |   |                                      |
|----------------------------------|---|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-48 | SPECIFICATION/HOW TO<br>ORDER PAGE PT1-51 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|---|---|--------------------------------------|



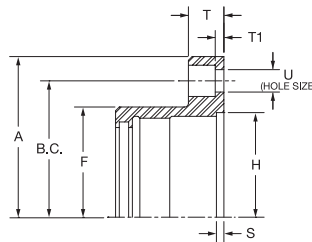
# SELECTION/DIMENSIONS

## Gear Couplings

(FLANGED SLEEVE AND RIGID HUB DETAILS)



**Exposed Bolt Design**



**Shrouded Bolt Design**

| Size                            | Outside       | Flange     | Flange Thickness |      | Hub           | Undercut   | Undercut      | Hole          | Bolt           | Number |
|---------------------------------|---------------|------------|------------------|------|---------------|------------|---------------|---------------|----------------|--------|
|                                 | Diameter<br>A | Width<br>J | T                | T1   | Diameter<br>F | Depth<br>I | Diameter<br>H | Diameter<br>U | Circle<br>B.C. |        |
| <b>All Dimensions in Inches</b> |               |            |                  |      |               |            |               |               |                |        |
| 1 EB                            | 4-9/16        | 1-21/32    | 9/16             | -    | 3             | 3/32       | 2 - 7/8       | 1/4           | 3-3/4          | 6      |
| 1 SB                            | 4-9/16        | 1-21/32    | 9/16             | 1/2  | 3             | 3/32       | 2 - 7/8       | 1/4           | 3-3/4          | 6      |
| 1.5 EB                          | 6             | 1-7/8      | 3/4              | -    | 3-7/8         | 3/32       | 3-11/16       | 3/8           | 4-13/16        | 8      |
| 1.5 SB                          | 6             | 1-7/8      | 3/4              | 1/2  | 3-7/8         | 3/32       | 3-11/16       | 3/8           | 4-13/16        | 8      |
| 2 EB                            | 7             | 2-3/8      | 3/4              | -    | 4-13/16       | 3/32       | 4-5/8         | 1/2           | 5-7/8          | 6      |
| 2 SB                            | 7             | 2-3/8      | 3/4              | 1/2  | 4-13/16       | 3/32       | 4-5/8         | 3/8           | 5-13/16        | 10     |
| 2.5 EB                          | 8-3/8         | 2-7/8      | 15/16            | -    | 5-13/16       | 3/32       | 5-7/16        | 5/8           | 7-1/8          | 6      |
| 2.5 SB                          | 8-3/8         | 2-7/8      | 15/16            | 5/16 | 5-13/16       | 3/32       | 5-7/16        | 1/2           | 7              | 10     |
| 3 EB                            | 9-7/16        | 3-5/16     | 15/16            | -    | 6-13/16       | 3/32       | 6-7/16        | 5/8           | 8-1/8          | 8      |
| 3 SB                            | 9-7/16        | 3-5/16     | 15/16            | 5/16 | 6-13/16       | 3/32       | 6-7/16        | 1/2           | 8              | 12     |
| 3.5 EB                          | 11            | 3-13/16    | 1-1/8            | -    | 7-27/32       | 3/32       | 7-3/8         | 3/4           | 9-1/2          | 8      |
| 3.5 SB                          | 11            | 3-13/16    | 1-1/8            | 3/8  | 7-27/32       | 3/32       | 7-3/8         | 5/8           | 9-9/32         | 12     |
| 4 EB                            | 12-1/2        | 4-1/4      | 1-1/8            | -    | 9-3/16        | 3/16       | 8-3/4         | 3/4           | 11             | 8      |
| 4 SB                            | 12-1/2        | 4-1/4      | 1-1/8            | 3/8  | 9-3/16        | 3/16       | 8-3/4         | 5/8           | 10-5/8         | 14     |
| 4.5 EB                          | 13-5/8        | 4-13/16    | 1-1/8            | -    | 10-5/16       | 3/16       | 9-3/4         | 3/4           | 12             | 10     |
| 4.5 SB                          | 13-5/8        | 4-13/16    | 1-1/8            | 3/8  | 10-5/16       | 3/16       | 9-3/4         | 5/8           | 11-3/4         | 14     |
| 5 EB                            | 15-5/16       | 5-1/2      | 1-1/2            | -    | 11-7/16       | 3/16       | 10-3/4        | 7/8           | 13-1/2         | 8      |
| 5 SB                            | 15-5/16       | 5-1/2      | 1-1/2            | 9/16 | 11-7/16       | 3/16       | 10-3/4        | 3/8           | 13-3/16        | 14     |
| 5.5 EB                          | 16-3/4        | 6          | 1-1/2            | -    | 10-1/2        | 3/16       | 12-1/8        | 7/8           | 14-1/2         | 14     |
| 5.5 SB                          | 16-3/4        | 6          | 1-1/2            | 9/16 | 10-1/2        | 3/16       | 12-1/8        | 3/4           | 14-7/16        | 16     |
| 6 EB*                           | 18            | 6-11/16    | 1                | -    | 13-15/16      | 3/16       | 13-3/8        | 7/8           | 15-3/4         | 14     |
| 7 EB*                           | 20-3/4        | 7-3/8      | 1-1/8            | -    | 15-3/4        | 1/4        | 14-5/8        | 1             | 18-1/4         | 16     |

EB = Exposed Bolt Pattern

SB = Shrouded Bolt Pattern

\* Sizes 6 & 7 only available in exposed bolt pattern

### Part Numbers

| Part Number     | Description             | Part Number     | Description             | Part Number     | Description             |
|-----------------|-------------------------|-----------------|-------------------------|-----------------|-------------------------|
| <b>Size 1.0</b> |                         | <b>Size 3.0</b> |                         | <b>Size 5.0</b> |                         |
| <b>013110</b>   | DGF 1.0 FLEX HUB        | <b>013126</b>   | DGF 3.0 FLEX HUB        | <b>013142</b>   | DGF 5.0 FLEX HUB        |
| <b>013111</b>   | DGF 1.0 SLEEVE EB       | <b>013127</b>   | DGF 3.0 SLEEVE EB       | <b>013143</b>   | DGF 5.0 SLEEVE EB       |
| <b>012975</b>   | DGF 1.0 SLEEVE SB       | <b>012979</b>   | DGF 3.0 SLEEVE SB       | <b>012983</b>   | DGF 5.0 SLEEVE SB       |
| <b>013112</b>   | DGF 1.0 RIGID HUB EB    | <b>013128</b>   | DGF 3.0 RIGID HUB EB    | <b>013144</b>   | DGF 5.0 RIGID HUB EB    |
| <b>013113</b>   | DGF 1.0 EB HARDWARE KIT | <b>013129</b>   | DGF 3.0 EB HARDWARE KIT | <b>013145</b>   | DGF 5.0 EB HARDWARE KIT |
| <b>394171</b>   | DGF 1.0 SB HARDWARE KIT | <b>394175</b>   | DGF 3.0 SB HARDWARE KIT | <b>394179</b>   | DGF 5.0 SB HARDWARE KIT |
| <b>Size 1.5</b> |                         | <b>Size 3.5</b> |                         | <b>Size 5.5</b> |                         |
| <b>013114</b>   | DGF 1.5 FLEX HUB        | <b>013130</b>   | DGF 3.5 FLEX HUB        | <b>013146</b>   | DGF 5.5 FLEX HUB        |
| <b>013115</b>   | DGF 1.5 SLEEVE EB       | <b>013131</b>   | DGF 3.5 SLEEVE EB       | <b>013147</b>   | DGF 5.5 SLEEVE EB       |
| <b>012976</b>   | DGF 1.5 SLEEVE SB       | <b>012980</b>   | DGF 3.5 SLEEVE SB       | <b>012984</b>   | DGF 5.5 SLEEVE SB       |
| <b>013116</b>   | DGF 1.5 RIGID HUB EB    | <b>013132</b>   | DGF 3.5 RIGID HUB EB    | <b>013148</b>   | DGF 5.5 RIGID HUB EB    |
| <b>013117</b>   | DGF 1.5 EB HARDWARE KIT | <b>013133</b>   | DGF 3.5 EB HARDWARE KIT | <b>013149</b>   | DGF 5.5 EB HARDWARE KIT |
| <b>394172</b>   | DGF 1.5 SB HARDWARE KIT | <b>394176</b>   | DGF 3.5 SB HARDWARE KIT | <b>394180</b>   | DGF 5.5 SB HARDWARE KIT |
| <b>Size 2.0</b> |                         | <b>Size 4.0</b> |                         | <b>Size 6.0</b> |                         |
| <b>013118</b>   | DGF 2.0 FLEX HUB        | <b>013134</b>   | DGF 4.0 FLEX HUB        | <b>013150</b>   | DGF 6.0 FLEX HUB        |
| <b>013119</b>   | DGF 2.0 SLEEVE EB       | <b>013135</b>   | DGF 4.0 SLEEVE EB       | <b>013151</b>   | DGF 6.0 SLEEVE EB       |
| <b>012977</b>   | DGF 2.0 SLEEVE SB       | <b>012981</b>   | DGF 4.0 SLEEVE SB       | <b>013152</b>   | DGF 6.0 RIGID HUB EB    |
| <b>013120</b>   | DGF 2.0 RIGID HUB EB    | <b>013136</b>   | DGF 4.0 RIGID HUB EB    | <b>013153</b>   | DGF 6.0 HARDWARE KIT    |
| <b>013121</b>   | DGF 2.0 EB HARDWARE KIT | <b>013137</b>   | DGF 4.0 EB HARDWARE KIT |                 |                         |
| <b>394173</b>   | DGF 2.0 SB HARDWARE KIT | <b>394177</b>   | DGF 4.0 SB HARDWARE KIT |                 |                         |
| <b>Size 2.5</b> |                         | <b>Size 4.5</b> |                         | <b>Size 7.0</b> |                         |
| <b>013122</b>   | DGF 2.5 FLEX HUB        | <b>013138</b>   | DGF 4.5 FLEX HUB        | <b>013154</b>   | DGF 7.0 FLEX HUB        |
| <b>013123</b>   | DGF 2.5 SLEEVE EB       | <b>013139</b>   | DGF 4.5 SLEEVE EB       | <b>013155</b>   | DGF 7.0 SLEEVE EB       |
| <b>012978</b>   | DGF 2.5 SLEEVE SB       | <b>012982</b>   | DGF 4.5 SLEEVE SB       | <b>013156</b>   | DGF 7.0 RIGID HUB EB    |
| <b>013124</b>   | DGF 2.5 RIGID HUB EB    | <b>013140</b>   | DGF 4.5 RIGID HUB EB    | <b>013157</b>   | DGF 7.0 HARDWARE KIT    |
| <b>013125</b>   | DGF 2.5 EB HARDWARE KIT | <b>013141</b>   | DGF 4.5 EB HARDWARE KIT |                 |                         |
| <b>394174</b>   | DGF 2.5 SB HARDWARE KIT | <b>394178</b>   | DGF 4.5 SB HARDWARE KIT |                 |                         |

Ordering Information: Standard Gear Couplings may be orders in 3 different assemblies -

1. Flex-Flex (or Full Flex): To order a complete Flex-Flex coupling you need - (2) Flex Hubs [reborable], (2) Sleeves (includes Seal), and (1) Hardware Kit.
2. Flex-Rigid: To order a complete Flex-Rigid Coupling you need - (1) Flex Hub [reborable], (1) Sleeve (includes Seal), (1) Rigid Hub [reborable], and (1) Hardware Kit.
3. Rigid-Rigid: To order a complete Rigid-Rigid Coupling you need - (2) Rigid Hubs [reborable], and (1) Hardware Kit.

|                                  |   |   |                                      |
|----------------------------------|---|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-48 | SPECIFICATION/HOW TO<br>ORDER PAGE PT1-51 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|---|---|--------------------------------------|





# FEATURES/BENEFITS

## Disc Couplings



The Dodge Disc coupling offers industry leading torque capacity and misalignment capability resulting in longer life and improved reliability.

Disc couplings have become the preferred design for pumping and compressor applications used in the oil and gas industry due to their high torque, speed, misalignment, and maintenance-free features. The advantages of the disc style coupling have also driven the API 610 specification, which can be met by all Dodge Disc couplings. Dodge Disc Couplings meeting API 671 requirements are available upon request.

In addition to the high torque and misalignment capabilities, the Dodge Disc coupling also provides features for customers to save money by downsizing with a large hub option, and prevent unexpected downtime costs with strobe light inspection during operation.

The Dodge Disc coupling can be specified into any API 610 or API 671 pumping application due to its wide range of capabilities, as seen in Table 1. ABB drives, ABB motors, and Baldor•Reliance motors have become the standard in the oil and gas industry due to their reliability and long life. Now oil and gas users can realize the same reliability and long life by packaging Dodge Disc Couplings, ABB or Baldor•Reliance motors, and ABB drives, into one complete pump driver system.

**Table 1 – Dodge Disc Coupling Ratings\***

| Coupling style       | Size range | Max torque* | Power per 100 RPM* | Max speed*     | Max bore | Misalignment capability (Angular) | Misalignment capability (Parallel) | Misalignment capability (End-Float) |
|----------------------|------------|-------------|--------------------|----------------|----------|-----------------------------------|------------------------------------|-------------------------------------|
|                      |            | In-lbs      | HP/100             |                | Inch     |                                   | Inch                               | Inch                                |
| Disc (Standard)      | 94-310     | 177,000     | 280                | 9,100/22,700** | 7.88     | 1° - 1.5°                         | 0.107                              | 0.224                               |
| Disc (Made-to-Order) | 333-702    | 2,292,000   | 3636               | 1,360/3,400**  | 15.25    | 0.5° - 1°                         | N/A                                | 0.299                               |

\*Listed values represent the range of the entire product line. Ratings listed are the maximum ratings for the largest coupling size. Ratings are dependent upon coupling size.

See Dodge engineering catalog and appropriate selection methods during sizing or contact application engineering for assistance.

\*\*Balanced

Note (1): Anti-corrosive options including Black Oxide, Zinc or Manganese Phosphating, Electroless Nickel, and Stainless Steel are available upon request.

Note (2): Anti-sparking options available upon request.

Note (3): Temperature range: -40°F to +450°F



# FEATURES/BENEFITS

## Disc Couplings

### Oil and Gas Industry Focus

#### API 610 Design

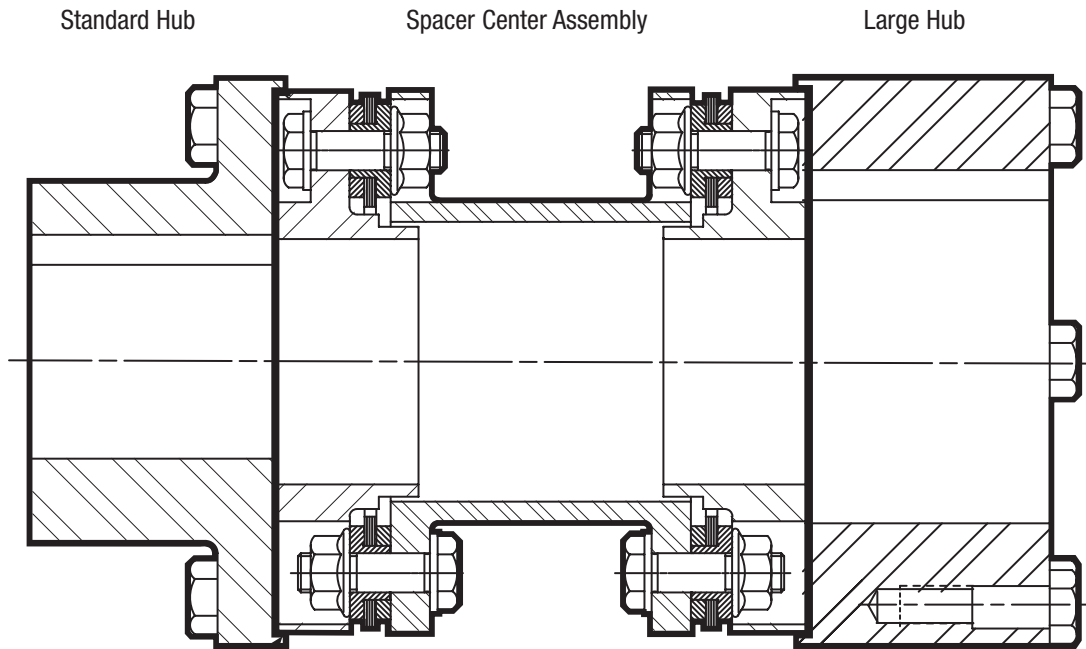
The Oil and Gas industry recognizes the importance of reliability and uptime by specifying products that reduce maintenance requirements, increase productivity, and prevent unexpected downtime. As a result, the American Petroleum Institute developed the API 610 specification as the standard for pumping applications across the industry.

All Dodge Disc Couplings can meet the API 610 specification, which includes:

- The spacer center assembly must be positively retained if the flexible element ruptures. As seen in Figure 1, the pilot machined in the disc coupling shaft hub positively retains the spacer center assembly, preventing the spacer center assembly from rotating free if a catastrophic bolt failure were to occur during operation.
- Coupling must be capable of rotating at 3800 rpm. All Dodge Disc Couplings are capable of operation at 3800 rpm.
- Flexible element should be made of corrosion resistant material. The Dodge Disc Coupling design utilizes flexible discs made of corrosion 301 stainless steel.
- Coupling hubs are made of 1045 steel.
- Coupling hubs are manufactured in accordance with AGMA 9000 Class 9 balance specifications.
- Spacer center assembly is removable without disturbing connected equipment.

In addition to meeting API 610 specification requirements, the Dodge Disc Coupling is also capable of meeting API 671 requirements upon request.

**Figure 1: Dodge Disc Coupling Configuration**



Piloted connections between spacer center assembly and shaft hubs allow the spacer center assembly to be positively retained during operation

PT Component Reference Guide

Couplings

Clutches and Brakes

FLEXIDYNE

Fluid Couplings

TORQUE-TAMER

Bushings



# FEATURES/BENEFITS

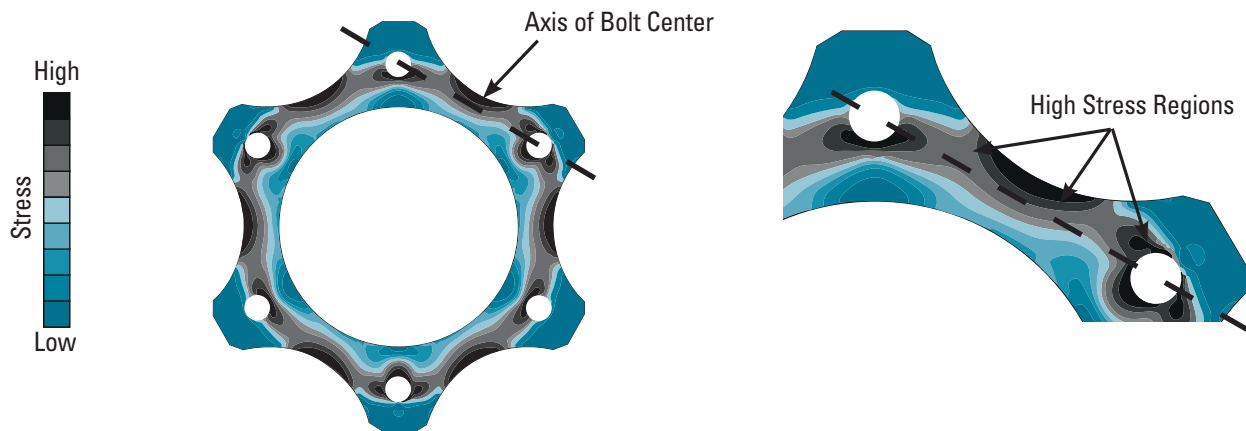
## Disc Couplings

### Longer Life, Improved Reliability

#### Competitor Disc Geometry

Many disc coupling competitors utilize the disc geometry seen below, featuring a scalloped outside diameter and circular inside diameter. As seen in Figure 2, this single scalloped design unevenly distributes material along the “axis of bolt center”, which negatively impacts the torque ratings and the misalignment capability of the coupling. Figure 2 shows large peak stress areas (as indicated) are created around the bolt holes and along the outside diameter of each leg between bolts, resulting in lower torque ratings. Additionally, the uneven distribution of material along the “axis of bolt center” drastically reduces misalignment capability during operation.

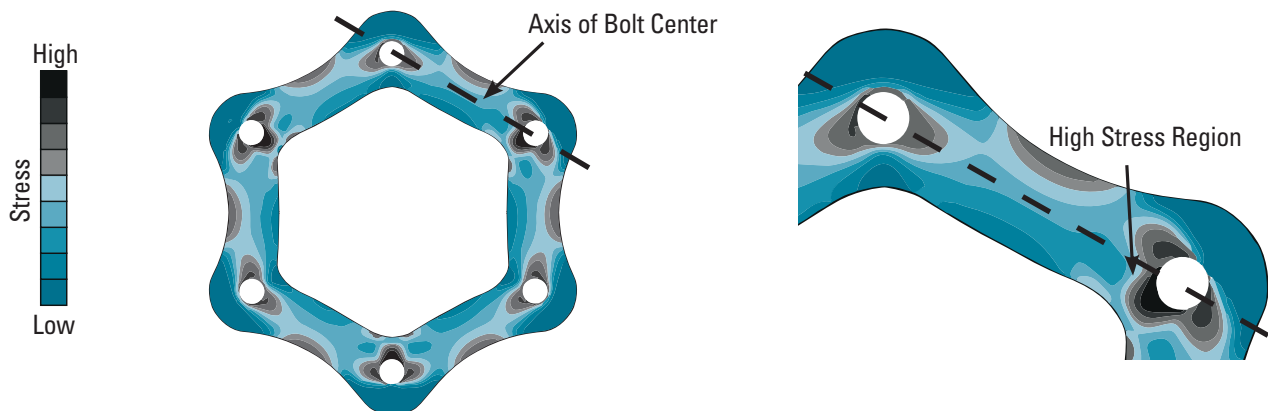
**Figure 2: Competitor Disc Geometry - Single Scalloped Design**



#### Dodge Disc Geometry

The Dodge Disc coupling utilizes the newest generation of disc geometry, a dual scalloped design, which offers an even distribution of material along the “axis of bolt center”. Figure 3 shows a drastically reduced number of high stress areas within the disc limited to only a small area around the bolt hole. Also, the peak stress shown in the Dodge Disc geometry is 13% less than the competitor’s geometry, resulting in an average of double the torque capacity. Additionally, an even distribution of material along the “axis of bolt center” maximizes misalignment capability and offers up to three times the misalignment of the leading competitor. Industry leading torque ratings and misalignment capability will ultimately lead to longer coupling life, improved reliability, and reduced unexpected downtime.

**Figure 3: Dodge Disc Geometry - Dual Scalloped Design**





## FEATURES/BENEFITS

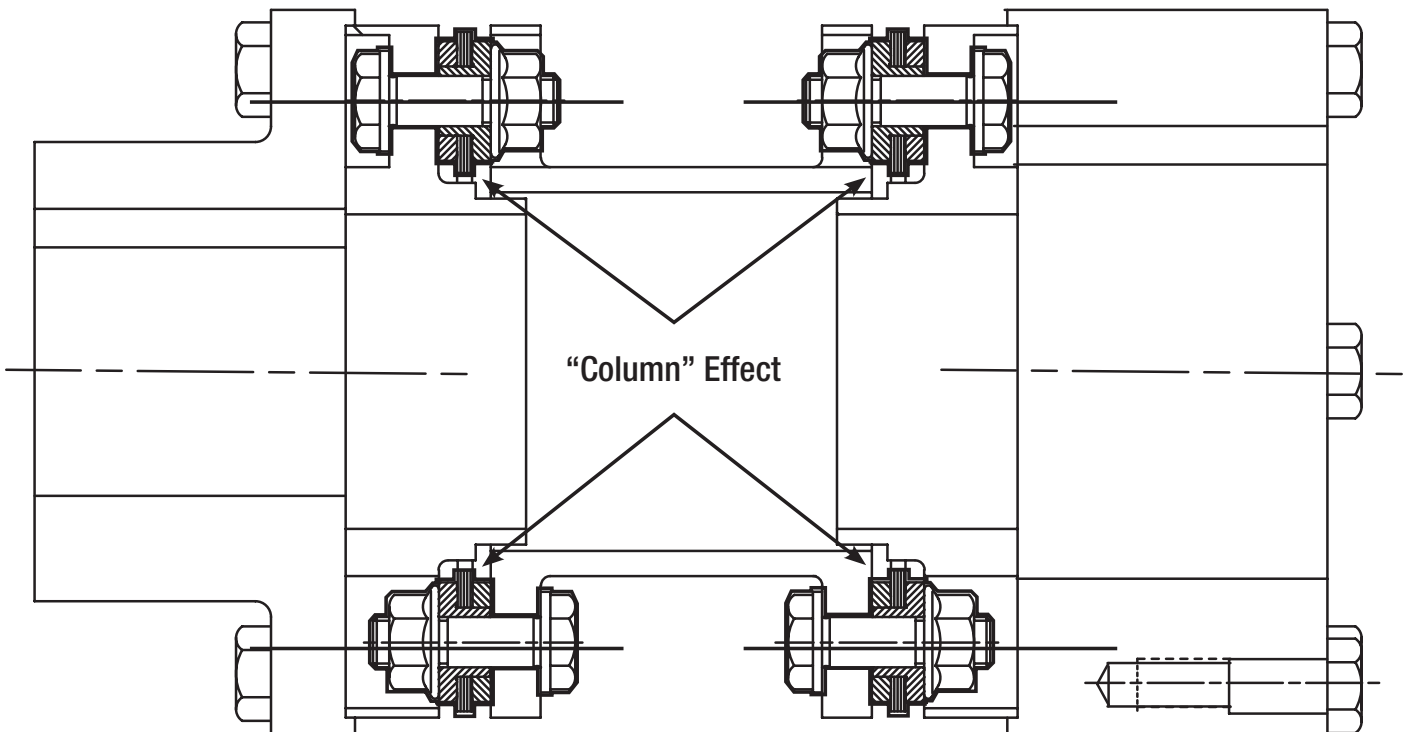
### Disc Couplings

#### Longer Life, Improved Reliability

##### *Unitized Assembly Design*

All Dodge Disc coupling spacer center assemblies are factory assembled and include a spacer, two disc packs, and two guard rings. Pre-assembling the spacer center assembly not only ensures that the system is assembled with the required tolerances, but also allows the customer to order a single part number and receive a single unit. Utilizing a custom, tight tolerance bushing and bolt to connect the spacer, disc pack, and guard ring, results in torque being transmitted through the entire assembly. The unitized assembly or “column” effect, which can be seen in Figure 4 below, prevents any single component from transmitting the application torque alone. Competitive designs that offer loose discs for assembly risk improper installation which can cause the bolt to quickly shear. The unitized assembly is just another reason why Dodge Disc couplings can offer users higher torque ratings, increased misalignment capability, and longer life.

**Figure 4: Unitized Assembly Column Effect**





# FEATURES/BENEFITS

## Disc Couplings

### Increased Productivity

#### Maintenance Free

The Dodge Disc coupling offers the power density, large bore capacity, and high speed capabilities of a metallic coupling while eliminating the need for maintenance. Traditional gear and grid style couplings require additional grease multiple times per year in order to lubricate gear teeth and looping segments. However, the Dodge Disc coupling does not have relative movement between mating parts which allows for increased maintenance productivity. Additionally, by not having any moving components, the Dodge Disc coupling is torsionally rigid, prevents backlash, and is perfect for applications needing precise positioning such as paper machines.

When comparing a metallic coupling that requires maintenance with an elastomeric, maintenance free design, the customer must sacrifice space since the maintenance free option would be much larger than the metallic design. However, Table 2 lists three common application examples driven by NEMA and IEC motors. Table 3 reveals that the Dodge Disc coupling selection has a smaller outside diameter than the grid and gear selection. Additionally, the Dodge Disc coupling selection has equal angular misalignment to the gear and more than the grid.

**Table 3 shows that the maintenance-free Dodge Disc Coupling offers comparable size and angular misalignment capability as other metallic coupling designs requiring maintenance.**

**Table 2: Application Details for Metallic Coupling Comparison**

|                  | Application 1 |         | Application 2 |           | Application 3 |           |
|------------------|---------------|---------|---------------|-----------|---------------|-----------|
|                  | NEMA          | IEC     | NEMA          | IEC       | NEMA          | IEC       |
| Motor Frame Size | 256T          | 160     | 365T          | 250       | 445T          | 315       |
| Motor Shaft Size | 1 5/8"        | 42 mm   | 2 3/8"        | 65 mm     | 3 3/8"        | 80 mm     |
| HP / kW          | 20 HP         | 15 kW   | 75 HP         | 55 kW     | 150 HP        | 110 kW    |
| RPM              | 1750          | 1500    | 1750          | 1500      | 1750          | 1500      |
| Service Factor   | 2.0           | 2.0     | 2.0           | 3.0       | 2.0           | 4.0       |
| Torque           | 1,441 in-lbs  | 191 N-m | 5,402 in-lbs  | 1,051 N-m | 10,804 in-lbs | 2,801 N-m |

**Table 3: Coupling Size Details for Metallic Coupling Comparison**

|               |            | Application 1           |                       |                      | Application 2           |                       |                      | Application 3           |                       |                      |
|---------------|------------|-------------------------|-----------------------|----------------------|-------------------------|-----------------------|----------------------|-------------------------|-----------------------|----------------------|
|               |            | Outside Diameter (inch) | Outside Diameter (mm) | Angular Misalignment | Outside Diameter (inch) | Outside Diameter (mm) | Angular Misalignment | Outside Diameter (inch) | Outside Diameter (mm) | Angular Misalignment |
| Disc Coupling | NEMA Motor | 3.70                    | 94.00                 | 1.5°                 | 5.47                    | 139.00                | 1.5°                 | 7.59                    | 193.00                | 1.5°                 |
|               | IEC Motor  | 3.70                    | 94.00                 | 1.5°                 | 5.47                    | 139.00                | 1.5°                 | 7.59                    | 193.00                | 1.5°                 |
| Gear Coupling | NEMA Motor | 4.56                    | 115.82                | 1.5°                 | 7.00                    | 177.80                | 1.5°                 | 9.44                    | 239.78                | 1.5°                 |
|               | IEC Motor  | 6.00                    | 152.40                | 1.5°                 | 7.00                    | 177.80                | 1.5°                 | 9.44                    | 239.78                | 1.5°                 |
| Grid Coupling | NEMA Motor | 4.22                    | 107.19                | 0.5°                 | 5.92                    | 2336.80               | 0.5°                 | 7.70                    | 195.58                | 0.5°                 |
|               | IEC Motor  | 5.09                    | 129.29                | 0.5°                 | 6.92                    | 175.77                | 0.5°                 | 7.70                    | 195.58                | 0.5°                 |



## FEATURES/BENEFITS

### Disc Couplings

#### Lower Costs, Reduce Unexpected Downtime

##### *Downsizing Capability*

Many disc coupling competitors utilize the disc geometry seen below which features a scalloped outside diameter and circular inside diameter. As seen in Figure 2, this single scalloped design unevenly distributes material along the “axis of bolt center”, which negatively impacts the torque ratings and the misalignment capability of the coupling. Figure 2 shows large peak stress areas are created around the bolt holes and along the outside diameter of each leg between bolts, resulting in lower torque ratings. Additionally, the uneven distribution of material along the “axis of bolt center” drastically reduces misalignment capability during operation.

**Figure 5: Large Hub Configurations**



Dodge Disc Coupling  
size 115 with  
two large hubs



Dodge Disc Coupling  
size 115 with one large hub  
and one standard hub

#### Reduce Unexpected Downtime with Strobe Light Inspection

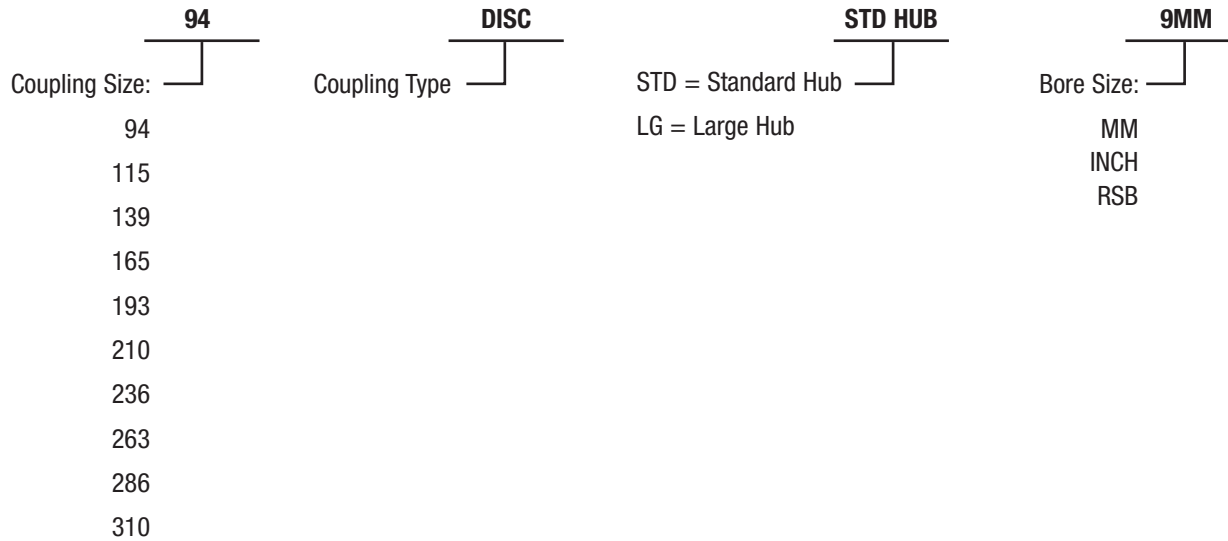
The Dodge Disc coupling has the ability to be inspected during operation. By observing the disc pack under a strobe light during operation, users can diagnose potential application issues before they experience costly, unexpected downtime. Cracks in the discs clearly communicate to the user that the driver and driven shafts are severely misaligned. Also, an “S” condition, the buckling of a disc leg between the driver and driven connecting bolts, tells the user the application is experiencing a torque overload situation. With this information, modifications can be made to the application to extend the life of the coupling or the spacer center assembly can be changed out, depending on the severity of the deformation. The ability to perform predictive maintenance during operation will greatly reduce plant costs by eliminating unexpected downtime associated with couplings.



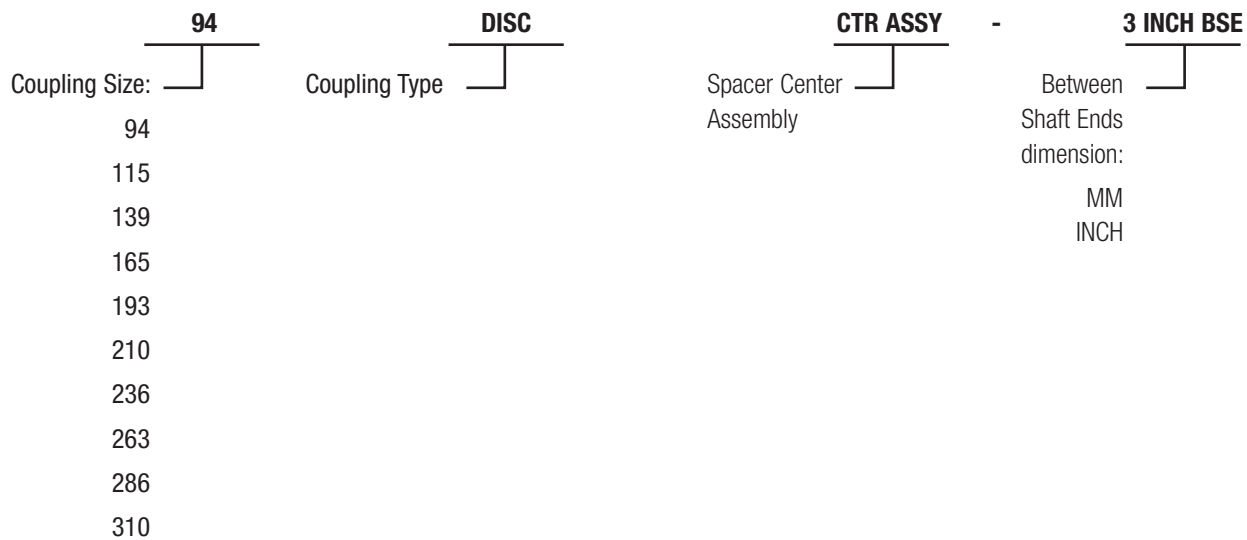
## Disc Couplings

Complete Dodge Disc Coupling Consists of:  
 Quantity two hubs (standard or large) and quantity one spacer center assembly

### DISC COUPLING HUB NOMENCLATURE



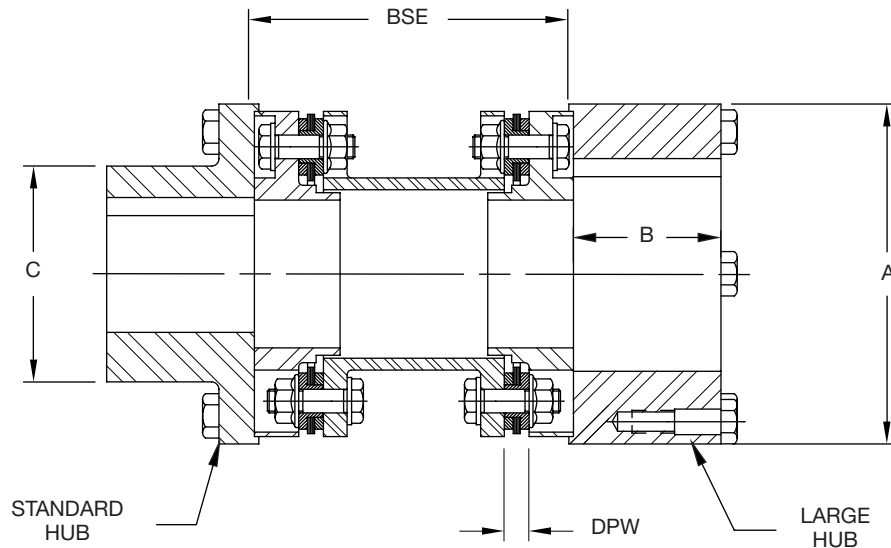
### DISC COUPLING SPACER CENTER ASSEMBLY NOMENCLATURE







## Disc Couplings



Dimensions (in)

| Coupling Size | A     | B    | C    | DPW   |
|---------------|-------|------|------|-------|
| 94            | 3.70  | 1.57 | 2.36 | 0.295 |
| 115           | 4.53  | 1.97 | 2.87 | 0.331 |
| 139           | 5.47  | 2.36 | 3.74 | 0.331 |
| 165           | 6.50  | 2.76 | 4.41 | 0.441 |
| 193           | 7.60  | 3.15 | 5.28 | 0.551 |
| 210           | 8.27  | 3.54 | 5.67 | 0.610 |
| 236           | 9.29  | 3.94 | 6.30 | 0.689 |
| 263           | 10.35 | 4.53 | 6.89 | 0.807 |
| 286           | 11.26 | 4.92 | 7.68 | 0.835 |
| 310           | 12.20 | 5.31 | 8.40 | 0.961 |

## Ratings (Imperial Units)

| Coupling Size | Max Bore          |                | Torque |                    |                 | Max RPM      |              | Axial Misalignment (in) (4) | Angular Misalignment (5) | Weight (lbs) (3) |
|---------------|-------------------|----------------|--------|--------------------|-----------------|--------------|--------------|-----------------------------|--------------------------|------------------|
|               | Standard Hub (in) | Large Hub (in) | HP/100 | Nominal (in.-lbs.) | Peak (in.-lbs.) | Standard (1) | Balanced (2) |                             |                          |                  |
| 94            | 1.68              | 2.25           | 3.33   | 2100               | 4200            | 9100         | 22700        | 0.059                       | 1.5°                     | 8                |
| 115           | 2.06              | 2.94           | 8.09   | 5100               | 10200           | 7200         | 18000        | 0.083                       |                          | 12               |
| 139           | 2.69              | 3.56           | 15.39  | 9700               | 19500           | 5840         | 14600        | 0.102                       |                          | 22               |
| 165           | 3.13              | 4.13           | 28.08  | 17700              | 35400           | 4920         | 12300        | 0.122                       |                          | 40               |
| 193           | 3.75              | 4.94           | 46.33  | 29200              | 58400           | 4200         | 10500        | 0.146                       |                          | 62               |
| 210           | 4.06              | 5.38           | 64.58  | 40700              | 81400           | 3840         | 9600         | 0.150                       | 1.0°                     | 84               |
| 236           | 4.50              | 5.94           | 98.37  | 62000              | 123900          | 3400         | 8500         | 0.165                       |                          | 121              |
| 263           | 4.94              | 6.63           | 143.28 | 90,300             | 180600          | 3080         | 7700         | 0.185                       |                          | 159              |
| 286           | 5.50              | 7.31           | 199.44 | 125700             | 251400          | 2800         | 7000         | 0.205                       |                          | 223              |
| 310           | 6.13              | 7.88           | 280.84 | 177000             | 354000          | 2560         | 6400         | 0.224                       |                          | 293              |

## Notes:

- (1) Coupling operational speed must be equal to or less than the allowable speed that is limited by the weight and critical speed of the spacer.
- (2) Standard Dodge Disc couplings will meet the maximum speed listed in the "Standard" column. Speed capabilities listed in the "Balanced" column require special balancing by Dodge.
- (3) Weight of complete coupling at maximum bores.
- (4) Axial misalignment for two disc packs.
- (5) Angular misalignment for one disc pack.
- (6) Anti-corrosive options including Black Oxide, Zinc or Manganese Phosphating, Electroless Nickel, and Stainless Steel are available upon request.
- (7) Standard BSE's are listed on page 9



## Disc Couplings

### Dodge Disc Coupling Inch and Metric Spacer Center Assembly Part Numbers

Complete Dodge Disc Coupling Consists of:  
Quantity two hubs (standard or large) and quantity one spacer center assembly

| BSE Distance |        | Pump Standard | Coupling Size |        |        |        |        |        |        |        |        |        |
|--------------|--------|---------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| (mm)         | (inch) |               | 94            | 115    | 139    | 165    | 193    | 210    | 236    | 263    | 286    | 310    |
| 76           | 3.00   | ANSI          | 138452        |        |        |        |        |        |        |        |        |        |
| 79           | 3.10   | ANSI          | 138453        | 138458 |        |        |        |        |        |        |        |        |
| 89           | 3.50   | ANSI          | 138454        | 138459 | 138463 |        |        |        |        |        |        |        |
| 100          | 3.94   | ISO           | 138482        | 138484 | 138487 |        |        |        |        |        |        |        |
| 111          | 4.38   | ANSI          | 138455        | 138460 | 138464 | 138467 |        |        |        |        |        |        |
| 127          | 5.00   | ANSI          | 138456        | 138461 | 138465 | 138468 | 138471 |        |        |        |        |        |
| 140          | 5.51   | ISO           | 138483        | 138485 | 138488 | 138490 | 138493 | 138496 |        |        |        |        |
| 178          | 7.00   | ANSI          | 138457        | 138462 | 138466 | 138469 | 138472 | 138475 | 138477 |        |        |        |
| 180          | 7.09   | ISO           |               | 138486 | 138489 | 138491 | 138494 | 138497 |        |        |        |        |
| 229          | 9.00   | ANSI          |               |        |        | 138470 | 138473 | 138476 | 138478 | 138480 | 138481 | 138503 |
| 250          | 9.84   | ISO           |               |        |        | 138492 | 138495 | 138498 | 138499 | 138500 | 138501 | 138502 |

**Note:** (1) In addition to the listed standard between shaft end (BSE) dimensions, spacer center assemblies with custom BSE dimensions are available upon request.

|                                  |   |   |                                      |
|----------------------------------|---|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-53 | SPECIFICATION/HOW TO ORDER<br>PAGE PT1-60 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|---|---|--------------------------------------|



# EASY SELECTION

## Disc Couplings

### Dodge Disc Coupling Inch Bore Hub Part Numbers

Complete Dodge Disc Coupling Consists of:  
Quantity two hubs (standard or large) and quantity one spacer center assembly

| Size<br>Inch Bore<br>(in) | 94           |           | 115          |           | 139          |           | 165          |           | 193          |           |
|---------------------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|-----------|
|                           | Standard Hub | Large Hub | Standard Hub | Large Hub | Standard Hub | Large Hub | Standard Hub | Large Hub | Standard Hub | Large Hub |
| Reborable                 | 138000       | 138020    | 138023       | 138046    | 138051       | 138076    | 138081       | 138103    | 138106       | 138129    |
| 1/2                       | 138225       |           |              |           |              |           |              |           |              |           |
| 5/8                       | 138226       |           |              |           |              |           |              |           |              |           |
| 3/4                       | 138227       |           |              |           |              |           |              |           |              |           |
| 7/8                       | 138228       |           | 138240       |           |              |           |              |           |              |           |
| 15/16                     | 138229       |           | 138241       |           |              |           |              |           |              |           |
| 1                         | 138230       |           | 138242       |           | 138258       |           | 138284       |           |              |           |
| 1 1/8                     | 138231       |           | 138243       |           | 138259       |           | 138285       |           |              |           |
| 1 3/16                    | 138232       |           | 138244       |           | 138260       |           | 138286       |           |              |           |
| 1 1/4                     | 138233       |           | 138245       |           | 138261       |           | 138287       |           | 138313       |           |
| 1 3/8                     | 138234       |           | 138246       |           | 138262       |           | 138288       |           | 138314       |           |
| 1 7/16                    | 138235       |           | 138247       |           | 138263       |           | 138289       |           | 138315       |           |
| 1 1/2                     | 138236       |           | 138248       |           | 138264       |           | 138290       |           | 138316       |           |
| 1 5/8                     | 138237       |           | 138249       |           | 138265       |           | 138291       |           | 138317       |           |
| 1 11/16                   |              |           | 138250       |           | 138266       |           | 138292       |           | 138318       |           |
| 1 3/4                     |              |           | 138251       |           | 138267       |           | 138293       |           | 138319       |           |
| 1 7/8                     |              |           | 138252       |           | 138268       |           | 138294       |           | 138320       |           |
| 1 15/16                   |              |           | 138253       |           | 138269       |           | 138295       |           | 138321       |           |
| 2                         |              |           | 138254       |           | 138270       |           | 138296       |           | 138322       |           |
| 2 1/8                     |              | 138239    |              | 138255    | 138271       |           | 138297       |           | 138323       |           |
| 2 3/16                    |              |           |              |           | 138272       |           | 138298       |           | 138324       |           |
| 2 1/4                     |              |           |              |           | 138273       |           | 138299       |           | 138325       |           |
| 2 3/8                     |              |           |              | 138256    | 138274       |           | 138300       |           | 138326       |           |
| 2 7/16                    |              |           |              |           | 138275       |           | 138301       |           | 138327       |           |
| 2 1/2                     |              |           |              |           | 138276       |           | 138302       |           | 138328       |           |
| 2 5/8                     |              |           |              |           | 138277       |           | 138303       |           | 138329       |           |
| 2 11/16                   |              |           |              |           | 138278       |           | 138304       |           | 138330       |           |
| 2 3/4                     |              |           |              |           |              |           | 138305       |           | 138331       |           |
| 2 7/8                     |              |           |              | 138257    |              | 138280    | 138306       |           | 138332       |           |
| 2 15/16                   |              |           |              |           |              | 138281    | 138307       |           | 138333       |           |
| 3                         |              |           |              |           |              | 138282    | 138308       |           | 138334       |           |
| 3 1/8                     |              |           |              |           |              |           | 138309       |           | 138335       |           |
| 3 1/4                     |              |           |              |           |              |           |              |           | 138336       |           |
| 3 3/8                     |              |           |              |           |              | 138283    |              | 138312    | 138337       |           |
| 3 7/16                    |              |           |              |           |              |           |              |           | 138338       |           |
| 3 1/2                     |              |           |              |           |              |           |              |           | 138339       |           |
| 3 5/8                     |              |           |              |           |              |           |              |           | 138340       |           |
| 3 3/4                     |              |           |              |           |              |           |              |           | 138341       |           |
| 3 7/8                     |              |           |              |           |              |           |              |           |              |           |
| 3 15/16                   |              |           |              |           |              |           |              |           |              |           |
| 4                         |              |           |              |           |              |           |              |           |              |           |
| 4 3/8                     |              |           |              |           |              |           |              |           |              |           |
| 4 3/4                     |              |           |              |           |              |           |              |           |              |           |

Unless otherwise specified, all Dodge Disc Couplings are interference fit per AGMA 9002.  
See page \_\_\_ for additional details

|                                  |   |   |                                      |
|----------------------------------|---|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-53 | SPECIFICATION/HOW TO ORDER<br>PAGE PT1-60 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|---|---|--------------------------------------|

# EASY SELECTION



PT Component Reference Guide

## Disc Couplings

### Dodge Disc Coupling Inch Bore Hub Part Numbers

Complete Dodge Disc Coupling Consists of:  
Quantity two hubs (standard or large) and quantity one spacer center assembly

| Size<br>Inch Bore<br>(in) | 210          |           | 236          |           | 263          |           | 286          |           | 310          |           |
|---------------------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|-----------|
|                           | Standard Hub | Large Hub | Standard Hub | Large Hub | Standard Hub | Large Hub | Standard Hub | Large Hub | Standard Hub | Large Hub |
| Reborable                 | 138130       | 138154    | 138155       | 138178    | 138179       | 138200    | 138201       | 138221    | 138223       | 138224    |
| 1/2                       |              |           |              |           |              |           |              |           |              |           |
| 5/8                       |              |           |              |           |              |           |              |           |              |           |
| 3/4                       |              |           |              |           |              |           |              |           |              |           |
| 7/8                       |              |           |              |           |              |           |              |           |              |           |
| 15/16                     |              |           |              |           |              |           |              |           |              |           |
| 1                         |              |           |              |           |              |           |              |           |              |           |
| 1 1/8                     |              |           |              |           |              |           |              |           |              |           |
| 1 3/16                    |              |           |              |           |              |           |              |           |              |           |
| 1 1/4                     | 138345       |           |              |           |              |           |              |           |              |           |
| 1 3/8                     | 138346       |           |              |           |              |           |              |           |              |           |
| 1 7/16                    | 138347       |           |              |           |              |           |              |           |              |           |
| 1 1/2                     | 138348       |           |              |           |              |           |              |           |              |           |
| 1 5/8                     | 138349       |           |              |           |              |           |              |           |              |           |
| 1 11/16                   | 138350       |           |              |           |              |           |              |           |              |           |
| 1 3/4                     | 138351       |           | 138380       |           | 138409       |           |              |           |              |           |
| 1 7/8                     | 138352       |           | 138381       |           | 138410       |           |              |           |              |           |
| 1 15/16                   | 138353       |           | 138382       |           | 138411       |           |              |           |              |           |
| 2                         | 138354       |           | 138383       |           | 138412       |           | 138439       |           |              |           |
| 2 1/8                     | 138355       |           | 138384       |           | 138413       |           | 138440       |           |              |           |
| 2 3/16                    | 138356       |           | 138385       |           | 138414       |           | 138441       |           |              |           |
| 2 1/4                     | 138357       |           | 138386       |           | 138415       |           | 138442       |           |              |           |
| 2 3/8                     | 138358       |           | 138387       |           | 138416       |           | 138443       |           |              |           |
| 2 7/16                    | 138359       |           | 138388       |           | 138417       |           | 138444       |           |              |           |
| 2 1/2                     | 138360       |           | 138389       |           | 138418       |           | 138445       |           |              |           |
| 2 5/8                     | 138361       |           | 138390       |           | 138419       |           | 138446       |           |              |           |
| 2 11/16                   | 138362       |           | 138391       |           | 138420       |           | 138447       |           |              |           |
| 2 3/4                     | 138363       |           | 138392       |           | 138421       |           | 138448       |           |              |           |
| 2 7/8                     | 138364       |           | 138393       |           | 138422       |           | 138449       |           |              |           |
| 2 15/16                   | 138365       |           | 138394       |           | 138423       |           | 138450       |           |              |           |
| 3                         | 138366       |           | 138395       |           | 138424       |           | 138451       |           |              |           |
| 3 1/8                     | 138367       |           | 138396       |           | 138425       |           |              |           |              |           |
| 3 1/4                     | 138368       |           | 138397       |           | 138426       |           |              |           |              |           |
| 3 3/8                     | 138369       |           | 138398       |           | 138427       |           |              |           |              |           |
| 3 7/16                    | 138370       |           | 138399       |           | 138428       |           |              |           |              |           |
| 3 1/2                     | 138371       |           | 138400       |           | 138429       |           |              |           |              |           |
| 3 5/8                     | 138372       |           | 138401       |           | 138430       |           |              |           |              |           |
| 3 3/4                     | 138373       |           | 138402       |           | 138431       |           |              |           |              |           |
| 3 7/8                     | 138374       |           | 138403       |           | 138432       |           |              |           |              |           |
| 3 15/16                   | 138375       |           | 138404       |           | 138433       |           |              |           |              |           |
| 4                         | 138376       |           | 138405       |           | 138434       |           |              |           |              |           |
| 4 3/8                     |              |           | 138406       |           | 138435       |           |              |           |              |           |
| 4 3/4                     |              |           |              |           | 138436       |           |              |           |              |           |

Couplings

Clutches and Brakes

FLEXIDYNE

Fluid Couplings

TORQUE-TAMER

Bushings

Unless otherwise specified, all Dodge Disc Couplings are interference fit per AGMA 9002.  
See page \_\_\_ for additional details

|                                  |   |   |                                      |
|----------------------------------|---|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-53 | SPECIFICATION/HOW TO<br>ORDER PAGE PT1-60 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|---|---|--------------------------------------|



# EASY SELECTION

## Disc Couplings

### Dodge Disc Coupling Metric Bore Hub Part Numbers

Complete Dodge Disc Coupling Consists of:  
Quantity two hubs (standard or large) and quantity one spacer center assembly

| Size<br>Metric Bore<br>(mm) | 94              |              | 115             |              | 139             |              | 165             |              | 193             |              | 210             |              |
|-----------------------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|
|                             | Standard<br>Hub | Large<br>Hub | Standard<br>Hub | Large<br>Hub | Standard<br>Hub | Large<br>Hub | Standard<br>Hub | Large<br>Hub | Standard<br>Hub | Large<br>Hub | Standard<br>Hub | Large<br>Hub |
| Reborable                   | 138000          | 138020       | 138023          | 138046       | 138051          | 138076       | 138081          | 138103       | 138106          | 138129       | 138130          | 138154       |
| 9                           | 138001          |              | 138024          |              |                 |              |                 |              |                 |              |                 |              |
| 11                          | 138002          |              | 138025          |              |                 |              |                 |              |                 |              |                 |              |
| 12                          | 138003          |              | 138026          |              |                 |              |                 |              |                 |              |                 |              |
| 14                          | 138004          |              | 138027          |              | 138052          |              |                 |              |                 |              |                 |              |
| 16                          | 138005          |              | 138028          |              | 138053          |              |                 |              |                 |              |                 |              |
| 17                          | 138006          |              | 138029          |              | 138054          |              |                 |              |                 |              |                 |              |
| 18                          | 138007          |              | 138030          |              | 138055          |              |                 |              |                 |              |                 |              |
| 19                          | 138008          |              | 138031          |              | 138056          |              |                 |              |                 |              |                 |              |
| 20                          | 138009          |              | 138032          |              | 138057          |              |                 |              |                 |              |                 |              |
| 22                          | 138010          |              | 138033          |              | 138058          |              |                 |              |                 |              |                 |              |
| 24                          | 138011          |              | 138034          |              | 138059          |              | 138082          |              |                 |              |                 |              |
| 25                          | 138012          |              | 138035          |              | 138060          |              | 138083          |              |                 |              |                 |              |
| 28                          | 138013          |              | 138036          |              | 138061          |              | 138084          |              | 138107          |              |                 |              |
| 30                          | 138014          |              | 138037          |              | 138062          |              | 138085          |              | 138108          |              | 138131          |              |
| 32                          | 138015          |              | 138038          |              | 138063          |              | 138086          |              | 138109          |              | 138132          |              |
| 35                          | 138016          |              | 138039          |              | 138064          |              | 138087          |              | 138110          |              | 138133          |              |
| 38                          | 138017          |              | 138040          |              | 138065          |              | 138088          |              | 138111          |              | 138134          |              |
| 40                          | 138018          |              | 138041          |              | 138066          |              | 138089          |              | 138112          |              | 138135          |              |
| 42                          | 138019          |              | 138042          |              | 138067          |              | 138090          |              | 138113          |              | 138136          |              |
| 45                          |                 |              | 138043          |              | 138068          |              | 138091          |              | 138114          |              | 138137          |              |
| 48                          |                 | 138022       | 138044          |              | 138069          |              | 138092          |              | 138115          |              | 138138          |              |
| 50                          |                 |              | 138045          |              | 138070          |              | 138093          |              | 138116          |              | 138139          |              |
| 55                          |                 |              |                 | 138048       | 138071          |              | 138094          |              | 138117          |              | 138140          |              |
| 56                          |                 |              |                 |              | 138072          |              | 138095          |              | 138118          |              | 138141          |              |
| 60                          |                 |              |                 | 138049       | 138073          |              | 138096          |              | 138119          |              | 138142          |              |
| 63                          |                 |              |                 |              | 138074          |              | 138097          |              | 138120          |              | 138143          |              |
| 65                          |                 |              |                 | 138050       | 138075          |              | 138098          |              | 138121          |              | 138144          |              |
| 70                          |                 |              |                 |              |                 |              | 138099          |              | 138122          |              | 138145          |              |
| 71                          |                 |              |                 |              |                 |              | 138100          |              | 138123          |              | 138146          |              |
| 75                          |                 |              |                 |              |                 | 138079       | 138101          |              | 138124          |              | 138147          |              |
| 80                          |                 |              |                 |              |                 | 138080       | 138102          |              | 138125          |              | 138148          |              |
| 85                          |                 |              |                 |              |                 |              |                 |              | 138126          |              | 138149          |              |
| 90                          |                 |              |                 |              |                 |              |                 |              | 138127          |              | 138150          |              |
| 95                          |                 |              |                 |              |                 |              |                 |              | 138128          |              | 138151          |              |
| 100                         |                 |              |                 |              |                 |              |                 |              |                 |              | 138152          |              |
| 105                         |                 |              |                 |              |                 |              |                 |              |                 |              | 138153          |              |
| 110                         |                 |              |                 |              |                 |              |                 |              |                 |              |                 |              |
| 120                         |                 |              |                 |              |                 |              |                 |              |                 |              |                 |              |
| 125                         |                 |              |                 |              |                 |              |                 |              |                 |              |                 |              |
| 130                         |                 |              |                 |              |                 |              |                 |              |                 |              |                 |              |

Unless otherwise specified, all Dodge Disc Couplings are supplied with interference fits per ISO R775.  
See page \_\_\_ for additional details

|                                  |   |   |                                      |
|----------------------------------|---|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-53 | SPECIFICATION/HOW TO ORDER<br>PAGE PT1-60 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|---|---|--------------------------------------|



## Disc Couplings

### Dodge Disc Coupling Metric Bore Hub Part Numbers

Complete Dodge Disc Coupling Consists of:  
 Quantity two hubs (standard or large) and quantity one spacer center assembly

| Size Metric Bore (mm) | 236          |           | 263          |           | 286          |           | 310          |           |
|-----------------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|-----------|
|                       | Standard Hub | Large Hub | Standard Hub | Large Hub | Standard Hub | Large Hub | Standard Hub | Large Hub |
| Reborable             | 138155       | 138178    | 138179       | 138200    | 138201       | 138221    | 138223       | 138224    |
| 9                     |              |           |              |           |              |           |              |           |
| 11                    |              |           |              |           |              |           |              |           |
| 12                    |              |           |              |           |              |           |              |           |
| 14                    |              |           |              |           |              |           |              |           |
| 16                    |              |           |              |           |              |           |              |           |
| 17                    |              |           |              |           |              |           |              |           |
| 18                    |              |           |              |           |              |           |              |           |
| 19                    |              |           |              |           |              |           |              |           |
| 20                    |              |           |              |           |              |           |              |           |
| 22                    |              |           |              |           |              |           |              |           |
| 24                    |              |           |              |           |              |           |              |           |
| 25                    |              |           |              |           |              |           |              |           |
| 28                    |              |           |              |           |              |           |              |           |
| 30                    |              |           |              |           |              |           |              |           |
| 32                    |              |           |              |           |              |           |              |           |
| 35                    | 138156       |           |              |           |              |           |              |           |
| 38                    | 138157       |           |              |           |              |           |              |           |
| 40                    | 138158       |           |              |           |              |           |              |           |
| 42                    | 138159       |           |              |           |              |           |              |           |
| 45                    | 138160       |           | 138180       |           |              |           |              |           |
| 48                    | 138161       |           | 138181       |           |              |           |              |           |
| 50                    | 138162       |           | 138182       |           | 138202       |           |              |           |
| 55                    | 138163       |           | 138183       |           | 138203       |           |              |           |
| 56                    | 138164       |           | 138184       |           | 138204       |           |              |           |
| 60                    | 138165       |           | 138185       |           | 138205       |           |              |           |
| 63                    | 138166       |           | 138186       |           | 138206       |           |              |           |
| 65                    | 138167       |           | 138187       |           | 138207       |           |              |           |
| 70                    | 138168       |           | 138188       |           | 138208       |           |              |           |
| 71                    | 138169       |           | 138189       |           | 138209       |           |              |           |
| 75                    | 138170       |           | 138190       |           | 138210       |           |              |           |
| 80                    | 138171       |           | 138191       |           | 138211       |           |              |           |
| 85                    | 138172       |           | 138192       |           | 138212       |           |              |           |
| 90                    | 138173       |           | 138193       |           | 138213       |           |              |           |
| 95                    | 138174       |           | 138194       |           | 138214       |           |              |           |
| 100                   | 138175       |           | 138195       |           | 138215       |           |              |           |
| 105                   | 138176       |           | 138196       |           | 138216       |           |              |           |
| 110                   | 138177       |           | 138197       |           | 138217       |           |              |           |
| 120                   |              |           | 138198       |           | 138218       |           |              |           |
| 125                   |              |           | 138199       |           | 138219       |           |              |           |
| 130                   |              |           |              |           | 138220       |           |              |           |

Unless otherwise specified, all Dodge Disc Couplings are supplied with interference fits per ISO R775.  
 See page \_\_\_ for additional details

|                                  |   |   |                                      |
|----------------------------------|---|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-53 | SPECIFICATION/HOW TO ORDER<br>PAGE PT1-60 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|---|---|--------------------------------------|



# NEW PRODUCT

## DODGE Moment Couplings

DODGE Moment Couplings are specifically designed to make the rigid connection between the output shaft of a gearbox and an overhung driven load, commonly a head pulley. Highly engineered to meet the most rigorous application requirements, these couplings are capable of handling both the required application torque and the bending moment forces of the suspended weight of a drive package, including the gearbox, motor, high-speed coupling, and swing base.

Moment Coupling hubs are designed to maximize the bore range of the driver and driven shafts. The male and female hubs are manufactured from 4140 alloy steel and are assembled with Grade 8 bolts. Suitable for a wide range of applications, DODGE Moment Couplings span a torque range of 100,000 to 920,000 inch-pounds and may be used in DODGE MagnaGear packages and in other operations.

### Information needed from the customer for DODGE engineering to select the appropriate Moment Coupling for an application:

- Horse Power / Torque / Speed Requirements
- Driver and Driven Shaft Sizes
- Overhung Load
- Length of Lever Arm
- Application Specifics: Type of Operation; Required Stops and Starts; Shock Loads and Vibration

**For more information on Couplings contact your authorized DODGE distributor or log onto [www.baldor.com](http://www.baldor.com).**

|                                  |   |   |                                      |
|----------------------------------|---|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-66 | SPECIFICATION/HOW TO ORDER<br>PAGE PT1-66 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|---|---|--------------------------------------|





# FEATURES/BENEFITS

## Chain Couplings



DODGE Chain Couplings offer a simple, widely accepted and inexpensive way to couple two shafts. They are interchangeable with industry standard dimensions. DODGE Chain Couplings can be provided with TAPER-LOCK bushed hubs, finished bore or reboreable flanges. Chain coupling covers and chain assemblies are also available from stock.

### Low Operating Cost

- Long service life
- Inexpensive initial investment
- Economical replacement costs

### Broad Product Line

- Six popular TAPER-LOCK coupling sizes
- Eleven popular straight bore sizes
- Stocked covers available for higher speeds

### Shaft Attachment Flexibility

- TAPER-LOCK bushings
- Slip fit with setscrews
- Interference fit

### High Torque Capability

- Hardened tooth sprockets
- ANSI standard double width roller chain

### Compact Design

- All metallic components
- Excellent torque to bore compatibility



**NOTE:** Instruction manual for Chain Couplings and TAPER-LOCK Bushings available on [www.baldor.com](http://www.baldor.com)



## Chain Couplings

### SPECIFICATION

Chain Couplings transmit torque through two hubs with hardened sprocket teeth and a double width roller chain. The chain is wrapped around the sprocket and connected with a link or pin for easy installation or removal. The Chain Coupling allows for misalignment through the clearances between chain and sprocket teeth. The coupling allows 2° angular misalignment, .015" parallel misalignment and up to .300" shaft end float. The temperature range is -30°F to +225°F.

The coupling hubs have optional methods of attachment to the shaft including but not limited to: clearance fit, interference fit or TAPER-LOCK bushings. Clearance fits and interference fits are supplied with an industry standard keyway. Clearance fits are supplied with one set screw over the keyway.


Aluminum covers with elastomeric seals contain lubricant and protect the chain and teeth in an abrasive or corrosive atmosphere.

### HOW TO ORDER

Standard couplings consist of:

- (2) Flanges
- (1) Chain Assembly
- (1) Cover (check RPM requirements on page PT1-68)

### NOMENCLATURE



FB = Finished Bore

B = Reborable

Blank = TAPER-LOCK

Chain Size

Number of Teeth



# EASY SELECTION

## Chain Couplings

| Basic Size No. | Max. Bore  |               |           | Max. RPM       |             | *HP Ratings at Various RPM 1.0 Service Factor |      |      |       |       |       |       |       |       |       |
|----------------|------------|---------------|-----------|----------------|-------------|---|------|------|-------|-------|-------|-------|-------|-------|-------|
|                | TAPER-LOCK | Finished Bore | Reborable | Without Covers | With Covers | 10  | 20   | 40   | 60    | 80    | 100   | 150   | 200   | 250   | 300   |
| 4012           | ..         | 3/4           | 7/8       | 875            | 5000        | 0.22  | 0.43 | 0.86 | 1.29  | 1.72  | 2.15  | 2.83  | 3.43  | 4.03  | 4.57  |
| 4016           | 1-1/8      | 1-1/8         | 1-5/16    | 875            | 5000        | 0.38  | 0.77 | 1.53 | 2.30  | 3.06  | 3.83  | 5.02  | 6.06  | 7.14  | 8.08  |
| 5012           | ...        | 1-1/8         | 1-1/8     | 875            | ...         | 40  | 0.81 | 1.61 | 2.42  | 3.23  | 4.03  | 5.30  | 6.39  | 7.57  | 8.57  |
| 5016           | ...        | 1-5/8         | 1-11/16   | 800            | 4000        | 0.73  | 1.46 | 2.93 | 4.39  | 5.86  | 7.32  | 9.60  | 11.7  | 13.7  | 15.5  |
| 5018           | 1-11/16    | ...           | 2         | 800            | 4000        | 0.95  | 1.89 | 3.79 | 5.68  | 7.57  | 9.47  | 12.4  | 15.0  | 17.7  | 20.0  |
| 6018           | ...        | 2-7/16        | 2-7/16    | 675            | 3000        | 1.73  | 3.46 | 6.92 | 10.4  | 13.8  | 17.3  | 22.9  | 27.6  | 32.5  | 36.8  |
| 6020           | 2-1/8      | ...           | 2-3/4     | 675            | 3000        | 2.25  | 4.50 | 9.01 | 13.5  | 18.0  | 22.5  | 29.6  | 35.6  | 42.0  | 47.6  |
| 8018           | ...        | 2-7/8         | 3-1/8     | 500            | 2000        | 3.86  | 7.72 | 15.4 | 23.2  | 30.9  | 38.6  | 50.8  | 61.4  | 72.3  | 81.5  |
| 8020           | 3-1/4      | ...           | 3-9/16    | 500            | 2000        | 5.03  | 10.1 | 20.1 | 30.2  | 40.3  | 50.3  | 66.1  | 79.7  | 94.0  | 106.0 |
| 10020          | 3-15/16    | ...           | 4-5/8     | 450            | 1800        | 8.68  | 17.4 | 34.7 | 52.1  | 69.4  | 86.8  | 115.0 | 139.0 | 162.0 | 184.0 |
| 12018          | ...        | ...           | 4-11/16   | 400            | ...         | 13.7  | 27.3 | 54.6 | 82.0  | 109.0 | 137.0 | 178.0 | 217.0 | 253.0 | 288.0 |
| 12020          | 4-7/16     | ...           | ...       | 400            | 1600        | 16.8  | 33.6 | 67.2 | 101.0 | 134.0 | 168.0 | 218.0 | 264.0 | 308.0 | 350.0 |

\* TAPER-LOCK Bushings are not recommended below 250 RPM

| Basic Size No. | Max. Bore  |               |           | Max. RPM       |             | HP Ratings at Various RPM 1.0 Service Factor |       |       |       |       |       |        |        |        |       |
|----------------|------------|---------------|-----------|----------------|-------------|--|-------|-------|-------|-------|-------|--------|--------|--------|-------|
|                | TAPER-LOCK | Finished Bore | Reborable | Without Covers | With Covers | 350  | 400   | 500   | 600   | 800   | 1000  | 1200   | 1400   | 160    | 1800  |
| 4012           | ..         | 3/4           | 7/8       | 875            | 5000        | 5.10   | 5.57  | 6.55  | 7.56  | 9.42  | 11.3  | 13.1   | 14.9   | 16.6   | 18.2  |
| 4016           | 1-1/8      | 1-1/8         | 1-5/16    | 875            | 5000        | 9.04   | 9.89  | 11.6  | 13.4  | 16.7  | 20.1  | 23.0   | 26.3   | 29.3   | 32.7  |
| 5012           | ...        | 1-1/8         | 1-1/8     | 875            | ...         | 9.41   | 10.42 | 12.2  | 14.1  | 17.5  | 21.0  | ...    | ...    | ..     | ...   |
| 5016           | ...        | 1-5/8         | 1-11/16   | 800            | 4000        | 17.3   | 18.9  | 22.3  | 25.7  | 32.0  | 38.3  | 44.5   | 50.4   | 56.2   | 61.9  |
| 5018           | 1-11/16    | ...           | 2         | 800            | 4000        | 22.4   | 24.5  | 28.8  | 33.1  | 41.4  | 49.7  | 56.8   | 65.1   | 72.6   | 80.9  |
| 6018           | ...        | 2-7/16        | 2-7/16    | 675            | 3000        | 41.2   | 44.9  | 53.0  | 60.9  | 75.9  | 90.7  | 105.0  | 120.0  | 134.0  | 147.0 |
| 6020           | 2-1/8      | ...           | 2-3/4     | 675            | 3000        | 53.2   | 58.2  | 68.5  | 78.8  | 98.5  | 118.0 | 135.0  | 155.0  | 173.0  | 192.0 |
| 8018           | ...        | 2-7/8         | 3-1/8     | 500            | 2000        | 91.5   | 99.8  | 118.0 | 135.0 | 169.0 | 202.0 | 234.0  | 266.0  | 297.0  | 326.0 |
| 8020           | 3-1/4      | ...           | 3-9/16    | 500            | 2000        | 119.0  | 130.0 | 153.0 | 176.0 | 220.0 | 264.0 | 302.0  | 346.0  | 386.0  | 430.0 |
| 10020          | 3-15/16    | ...           | 4-5/8     | 450            | 1800        | 205.0  | 225.0 | 265.0 | 305.0 | 380.0 | 454.0 | 527.0  | 598.0  | 667.0  | 734.0 |
| 12018          | ...        | ...           | 4-11/16   | 400            | ...         | 322.0  | 355.0 | ...   | ...   | ...   | ...   | ...    | ...    | ...    | ...   |
| 12020          | 4-7/16     | ...           | ...       | 400            | 1600        | 391.0  | 432.0 | 510.0 | 585.0 | 708.0 | 877.0 | 1003.0 | 1135.0 | 1273.0 | ...   |

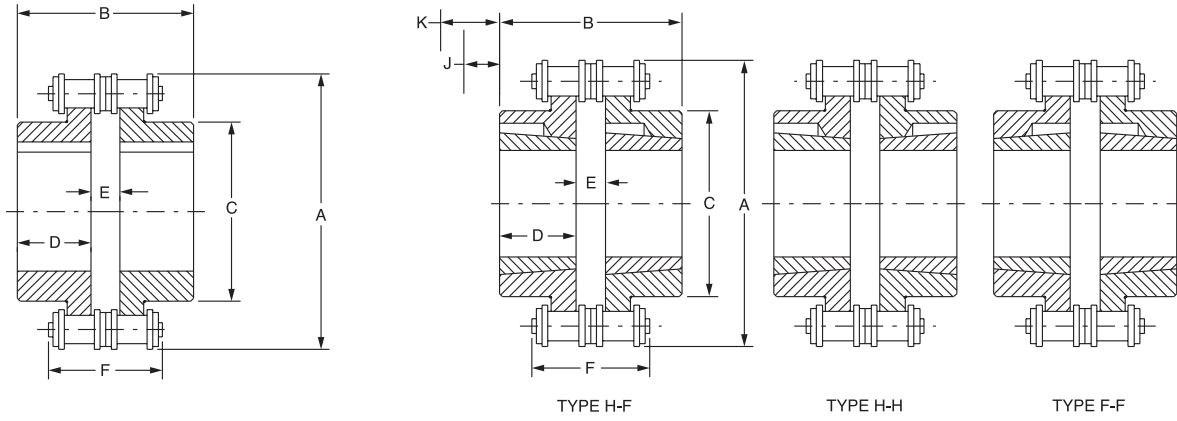
|                                  |   |   |                                      |
|----------------------------------|---|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-68 | SPECIFICATION/HOW TO ORDER<br>PAGE PT1-70 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|---|---|--------------------------------------|



## SELECTION/DIMENSIONS

### Chain Couplings

### STANDARD, STRAIGHT BORE AND TAPER-LOCK - FLANGES DIMENSIONS, RATINGS



STRAIGHT BORE CHAIN COUPLING

TAPER-LOCK CHAIN COUPLING

### Ratings

| Coupling Size | Straight Bore |         | TAPER-LOCK |         | Max. RPM      |            | Weight (lbs.) (1) |        |
|---------------|---------------|---------|------------|---------|---------------|------------|-------------------|--------|
|               | Min.          | Max.    | Min.       | Max.    | Without Cover | With Cover | Str.              | TL     |
| 4012          | 1/2           | 7/8     | ---        | ---     | 875           | 5000       | 2.20              | ---    |
| 4016          | 5/8           | 1-5/16  | 1/2        | 1-1/8   | 875           | 5000       | 3.80              | 2.70   |
| 5012          | 5/8           | 1-1/8   | ---        | ---     | 875           | ---        | 3.10              | ---    |
| 5016          | 5/8           | 1-11/16 | ---        | ---     | 800           | 4000       | 5.00              | ---    |
| 5018          | 3/4           | 2       | 1/2        | 1-11/16 | 800           | 4000       | 6.00              | 6.00   |
| 6018          | 1             | 2-7/16  | ---        | ---     | 675           | 3000       | 9.90              | ---    |
| 6020          | 1-1/8         | 2-3/4   | 1/2        | 2-1/8   | 675           | 3000       | 12.25             | 12.70  |
| 8018          | 1-1/8         | 3-1/8   | ---        | ---     | 500           | 2000       | 31.10             | ---    |
| 8020          | 1-1/2         | 3-9/16  | 7/8        | 3-1/4   | 500           | 2000       | 33.50             | 31.10  |
| 10020         | 1-1/2         | 4-5/8   | 1-3/16     | 3-15/16 | 450           | 1800       | 80.00             | 77.90  |
| 12018         | 2             | 4-11/16 | ---        | ---     | 400           | ---        | 110.00            | ---    |
| 12020         | ---           | ---     | 1-7/16     | 4-7/16  | 400           | 1600       | ---               | 135.00 |

### Dimensions

| Coupling Size | A     | B    |      | C    | D    |      | E    |      | K (2) | J (3) |
|---------------|-------|------|------|------|------|------|------|------|-------|-------|
|               |       | Str. | T-L  |      | Str. | T-L  | Str. | T-L  |       |       |
| 4012          | 2.41  | 2.53 | ---  | 1.41 | 1.13 | ---  | 0.28 | ---  | ---   | ---   |
| 4016          | 3.03  | 2.53 | 2.04 | 1.97 | 1.13 | 0.88 | 0.28 | 0.28 | 0.75  | 0.63  |
| 5012          | 3.00  | 2.88 | ---  | 1.75 | 1.25 | ---  | 0.38 | ---  | ---   | ---   |
| 5016          | 3.91  | 3.25 | ---  | 2.50 | 1.44 | ---  | 0.38 | ---  | ---   | ---   |
| 5018          | 4.19  | 3.75 | 2.38 | 2.97 | 1.69 | 1.00 | 0.38 | 0.38 | 1.06  | 0.81  |
| 6018          | 5.00  | 4.23 | ---  | 3.50 | 1.88 | ---  | 0.47 | ---  | ---   | ---   |
| 6020          | 5.50  | 4.47 | 2.94 | 3.88 | 2.00 | 1.25 | 0.47 | 0.47 | 1.38  | 0.94  |
| 8018          | 666   | 5.35 | ---  | 4.56 | 2.38 | ---  | 0.59 | ---  | ---   | ---   |
| 8020          | 7.30  | 5.85 | 4.59 | 5.38 | 2.63 | 2.00 | 0.59 | 0.59 | 2.06  | 1.19  |
| 10020         | 9.13  | 6.97 | 7.63 | 6.72 | 3.13 | 3.50 | 0.72 | 0.72 | 2.34  | 1.31  |
| 12018         | 10.00 | 7.88 | ---  | 6.75 | 3.50 | ---  | 0.86 | ---  | ---   | ---   |
| 12020         | 10.94 | ---  | 8.75 | 7.75 | ---  | 4.00 | ---  | 0.86 | 3.38  | 1.63  |

(1) Weight of complete coupling with cover at maximum bore (5012 & 12018 are without cover).

(2) Space required to loosen bushing with shortened hex key.

|                                  |                               |   |                                      |
|----------------------------------|-------------------------------|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-68 | EASY SELECTION<br>PAGE PT1-70 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|-------------------------------|---|--------------------------------------|



# SELECTION/DIMENSIONS

## Chain Couplings

### TAPER-LOCK, Reborable, Finished Bore Flanges - Part Number

| Bore (in.)         | Coupling Size |          |          |          |          |          |          |          |          |          |          |          |
|--------------------|---------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                    | 4012          | 4016     | 5012     | 5016     | 5018     | 6018     | 6020     | 8018     | 8020     | 10020    | 12018    | 12020    |
| Chain Assembly     | 100480        | 100490   | 100489   | 100481   | 100491   | 100482   | 100492   | 100483   | 100493   | 100495   | 100497   | 100496   |
| TL-H               | ---           | • 099049 | ---      | ---      | • 099053 | ---      | • 099055 | ---      | • 099057 | • 099061 | ---      | • 099063 |
| TL-F               | ---           | • 099048 | ---      | ---      | • 099052 | ---      | • 099054 | ---      | • 099056 | • 099060 | ---      | • 099062 |
| Bushing            | ---           | 1108     | ---      | ---      | 1610     | ---      | 2012     | ---      | 3020     | 3535     | ---      | 4040     |
| Reborable          | • 099190      | • 099151 | • 099150 | • 099152 | • 099161 | • 099153 | • 099162 | • 099154 | • 099163 | • 099164 | • 099226 |          |
| Finished Bore Hubs |               |          |          |          |          |          |          |          |          |          |          |          |
| 1/2"               | • 099100      |          |          |          |          |          |          |          |          |          |          |          |
| 5/8"               | • 099101      | • 099138 |          |          |          |          |          |          |          |          |          |          |
| 3/4"               | • 099102      | • 099103 | • 099132 | • 099141 | • 099193 |          |          |          |          |          |          |          |
| 7/8"               |               | • 099104 | • 099133 | • 099107 | • 099194 |          |          |          |          |          |          |          |
| 15/16"             |               | • 099139 | • 099134 |          |          |          |          |          |          |          |          |          |
| 1"                 |               | • 099105 | • 099135 | • 099108 | • 099195 | • 099142 |          |          |          |          |          |          |
| 1-1/8"             |               | • 099106 | • 099136 | • 099109 | • 099196 | • 099143 | • 099209 | • 099146 |          |          |          |          |
| 1-3/16"            |               | • 099191 |          | • 099192 | • 099197 | • 099206 |          |          |          |          |          |          |
| 1-1/4"             |               | • 099140 |          | • 099110 | • 099198 | • 099115 | • 099210 |          |          |          |          |          |
| 1-3/8"             |               |          |          | • 099111 | • 099199 | • 099116 |          |          |          |          |          |          |
| 1-7/16"            |               |          |          | • 099112 | • 099200 | • 099117 |          |          |          |          |          |          |
| 1-1/2"             |               |          |          | • 099113 | • 099201 | • 099118 | • 099211 |          | • 099219 |          |          |          |
| 1-5/8"             |               |          |          | • 099114 | • 099202 | • 099119 |          |          |          |          |          |          |
| 1-3/4"             |               |          |          |          | • 099203 | • 099120 | • 099212 | • 099147 |          |          |          |          |
| 1-7/8"             |               |          |          |          | • 099204 | • 099121 |          |          |          |          |          |          |
| 1-15/16"           |               |          |          |          | • 099205 | • 099122 | • 099213 | • 099125 |          |          |          |          |
| 2"                 |               |          |          |          |          | • 099123 |          | 099126   |          |          |          |          |
| 2-1/8"             |               |          |          |          |          | • 099124 | • 099214 | • 099127 |          |          |          |          |
| 2-3/16"            |               |          |          |          |          | • 099207 |          |          | • 099220 |          |          |          |
| 2-1/4"             |               |          |          |          |          | • 099208 |          |          |          |          |          |          |
| 2-3/8"             |               |          |          |          |          | • 099144 | • 099215 | • 099128 |          |          |          |          |
| 2-7/16"            |               |          |          |          |          | • 099145 | • 099216 | • 099129 | • 099221 |          |          |          |
| 2-5/8"             |               |          |          |          |          |          | • 099217 | • 099130 |          |          |          |          |
| 2-11/16"           |               |          |          |          |          |          |          |          | • 099222 |          |          |          |
| 2-7/8"             |               |          |          |          |          |          |          | • 099131 |          |          |          |          |
| 2-15/16"           |               |          |          |          |          |          |          | • 099218 | • 099223 |          |          |          |
| 3-1/8"             |               |          |          |          |          |          |          |          |          | • 099224 |          |          |
| 3-3/8"             |               |          |          |          |          |          |          |          |          | • 099225 |          |          |
| 3-7/16"            |               |          |          |          |          |          |          |          |          |          |          |          |

• Stock Sizes

Complete coupling consists of:

- (2) Hubs, TAPER-LOCK, straight bore, or reborable
- (1) Chain Assembly
- (1) Cover Assembly (if required)

**NOTE:** For TAPER-LOCK designs, TAPER-LOCK bushings must be ordered separately

|                                  |                               |   |                                      |
|----------------------------------|-------------------------------|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-68 | EASY SELECTION<br>PAGE PT1-70 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|-------------------------------|---|--------------------------------------|



## SELECTION/DIMENSIONS

### Chain Couplings

#### CHAIN COUPLING COVERS

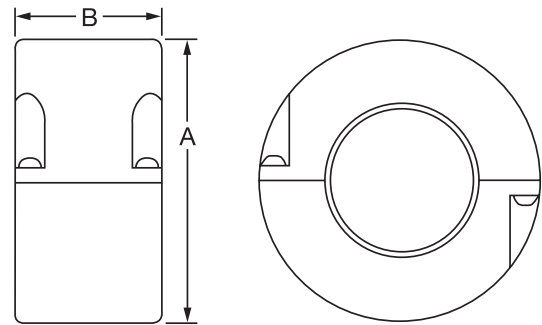
Chain coupling covers are recommended for use when couplings are operating under abrasive or moist conditions, or when coupling speeds exceed the RPM listed in the table below.

Cover should be filled with a roller bearing grease of soft or medium consistency. This provides excellent lubrication and substantially increases coupling life.



#### Chain Coupling Cover Recommendation

| Coupling Size | Cover required when Coupling RPM exceeds this figure |
|---------------|--|
| 4012          | 875  |
| 4016          | 875  |
| 5016          | 800  |
| 5018          | 800  |
| 6018          | 675  |
| 6020          | 675  |
| 8018          | 500  |
| 8020          | 500  |
| 10020         | 450  |
| 12020         | 400  |



#### Chain Coupling Cover Assemblies ▲

| For Coupling Size | Cover Size | Part No. | Wt. (lbs.) | A     | B    |
|-------------------|------------|----------|------------|-------|------|
| 4012              | 40         | 099026   | 1.0        | 4.00  | 2.00 |
| 4016              | 40         | 099026   | 1.0        | 4.00  | 2.00 |
| 5016              | 50         | 099027   | 1.3        | 5.13  | 2.38 |
| 5018              | 50         | 099027   | 1.3        | 5.13  | 2.38 |
| 6018              | 60         | 099028   | 2.6        | 6.38  | 2.94 |
| 6020              | 60         | 099028   | 2.6        | 6.38  | 2.94 |
| 8018              | 80         | 099029   | 5.1        | 8.19  | 4.00 |
| 8020              | 80         | 099029   | 5.1        | 8.19  | 4.00 |
| 10020             | 100        | 099024   | 12.2       | 10.13 | 5.25 |
| 12020             | 120        | 099025   | 19.5       | 12.25 | 6.13 |

▲ Consists of (2) cover halves and screws; (4) seals for cover sizes 4012/4016 thru 8012/8020; (2) seals for cover sizes 10020 and 12020; and (2) cover gaskets.





## POLY-DISC

### SPECIFICATION

POLY-DISC Couplings are a pin type coupling using a molded polyurethane disc. The physical properties of the disc allow for the cushioning of shock loads and the resistance to most common chemicals such as acids, alkalis and petroleum products. The disc has an operating range of -90°F to +170°F.

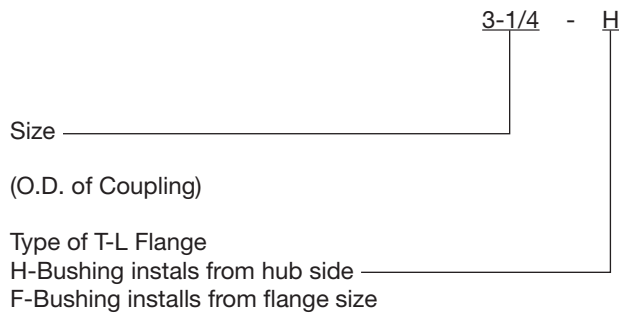
The flexible disc is captured through metallic pins, utilizing a light press fit over the pins to prevent the accumulation of abrasive particles between the disc and pins. The pin holes are barreled to allow 2° angular misalignment and the flexible disc allows 1/32" parallel misalignment. The disc has spacer buttons to achieve automatic flange spacing which speeds up installation. Both flanges are machined all over and are taper bored to receive TAPER-LOCK bushings to permit quick and easy installation and removal on shafts of equal or different diameters.

### HOW TO ORDER

Consists of:

- (2) TAPER-LOCK Flanges
- (2) TAPER-LOCK Bushings
- (1) POLY-DISC Element

### NOMENCLATURE



**NOTE:** Instruction manuals for POLY-DISC Couplings available on [www.baldor.com](http://www.baldor.com)

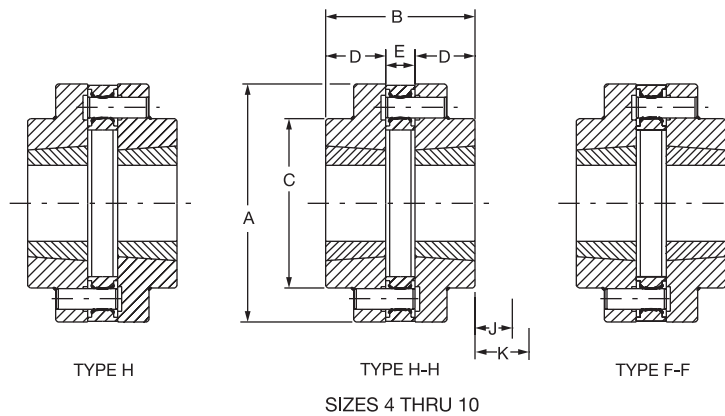
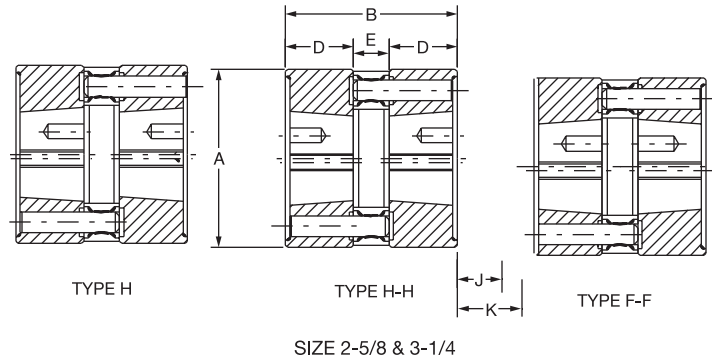
|                                  |                                     |   |                                      |
|----------------------------------|-------------------------------------|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-76 | SELECTION/DIMENSIONS<br>PAGE PT1-76 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|-------------------------------------|---|--------------------------------------|



# SPECIFICATION/HOW TO ORDER NOMENCLATURE



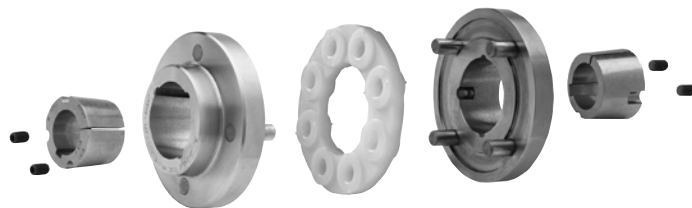
## POLY-DISC



| Coupling Size | TL Bushing Size | Min. Bore | Max. Bore | HP/100 | Torque (In-Lb) | Max. RPM | A     | B    | C    | D    | E    | J    | K    | Weight (Lbs.) | Inertia (Lb-Ft <sup>2</sup> ) | Holes In disc |
|---------------|-----------------|-----------|-----------|--------|----------------|----------|-------|------|------|------|------|------|------|---------------|-------------------------------|---------------|
| 2-5/8         | 1008            | 1/2       | 1         | 0.29   | 180            | 3600     | 2.63  | 2.56 | 2.63 | 1.00 | 0.69 | 0.63 | 0.75 | 2.50          | 2.30                          | 6             |
| 3-1/4         | 1210            | 1/2       | 1-1/4     | 0.57   | 360            | 3600     | 3.25  | 2.88 | 3.25 | 1.13 | 0.75 | 0.81 | 1.06 | 4.15          | 6.20                          | 6             |
| 4             | 1215            | 1/2       | 1-1/4     | 0.95   | 600            | 3600     | 4.00  | 3.63 | 2.63 | 1.50 | 0.63 | 0.81 | 1.06 | 5.80          | 10.00                         | 8             |
| 5-1/4         | 1615            | 1/2       | 1-11/16   | 2.29   | 1440           | 3600     | 5.25  | 3.75 | 3.25 | 1.50 | 0.75 | 0.81 | 1.06 | 12.10         | 34.40                         | 8             |
| 7             | 2517            | 1/2       | 2-11/16   | 4.6    | 2900           | 3000     | 7.00  | 4.38 | 4.97 | 1.75 | 0.88 | 1.00 | 1.63 | 25.90         | 141.20                        | 10            |
| 8             | 2517            | 1/2       | 2-11/16   | 10     | 6300           | 2400     | 8.00  | 4.63 | 5.00 | 1.75 | 1.13 | 1.00 | 1.63 | 34.10         | 246.70                        | 12            |
| 10            | 3030            | 15/16     | 3-1/4     | 17.26  | 10900          | 2000     | 10.00 | 7.5  | 6.00 | 3.00 | 1.50 | 1.31 | 2.69 | 77.70         | 866.00                        | 12            |

### POLY-DISC Part Numbers

| Coupling Size | TL Bushing Size | T-L Flanges |        | Disc   |
|---------------|-----------------|-------------|--------|--------|
|               |                 | Type H      | Type F |        |
| 2-5/8         | 1008            | 008057      | 008058 | 008030 |
| 3-1/4         | 1210            | 008059      | 008060 | 008031 |
| 4             | 1215            | 008041      | 008040 | 008032 |
| 5-1/4         | 1615            | 008043      | 008042 | 008033 |
| 7             | 2517            | 008045      | 008044 | 008034 |
| 8             | 2517            | 008047      | 008046 | 008035 |
| 10            | 3030            | 008049      | 008048 | 008036 |



Complete coupling consists of:

- (2) TAPER-LOCK Flanges
- (2) TAPER-LOCK Bushings
- (1) POLY-DISC Element

**NOTE:** TAPER-LOCK bushings ordered separately.  
Refer to Bushing section PT6-15

|                                  |                                     |  |                                      |
|----------------------------------|-------------------------------------|--|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-73 | SELECTION/DIMENSIONS<br>PAGE PT1-74 | MODIFICATION/<br>ACCESSORIES PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|-------------------------------------|--|--------------------------------------|



## RIGID COUPLINGS

### TAPER-LOCK Rigid

#### TAPER-LOCK RIGID SPECIFICATION

Rigid Couplings provide a connection between two perfectly aligned shafts. Flanged Rigid Couplings consist of two flanges joined by bolts and are taper bored for TAPER-LOCK bushings to connect shafts of the same or different diameters.

#### HOW TO ORDER

TAPER-LOCK consist of:  
(1) Male Flange Assembly  
(1) Female Flange

#### NOMENCLATURE

T-L Rigid R 35  
Size \_\_\_\_\_  
(Designated size of TAPER-LOCK Bushing)

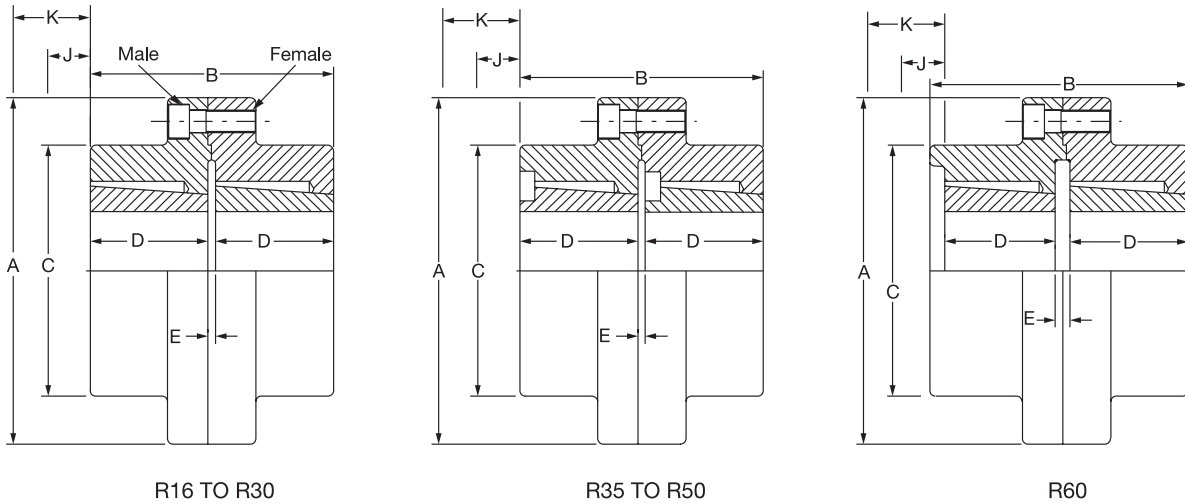
**NOTE:** Instruction manuals for TAPER-LOCK Bushings available on [www.baldor.com](http://www.baldor.com)

|                                  |                                     |   |                                      |
|----------------------------------|-------------------------------------|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-76 | SELECTION/DIMENSIONS<br>PAGE PT1-76 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|-------------------------------------|---|--------------------------------------|



## SELECTION/DIMENSIONS

### TAPER-LOCK RIGID



R16 TO R30

R35 TO R50

R60

| Size | Bushing Size | Min. Bore | Max. Bore | HP/100 | Torque (In Lb)** | Max. RPM | A     | B     | C     | D    | E    | J*   | K†   | Weight (Lbs.) |
|------|--------------|-----------|-----------|--------|------------------|----------|-------|-------|-------|------|------|------|------|---------------|
| R16  | 1615         | 1/2       | 1-11/16   | 8.0    | 5,050            | 4965     | 5.00  | 3.25  | 3.25  | 1.50 | 0.25 | 0.81 | 1.06 | 8.00          |
| R25  | 2517         | 1/2       | 2-11/16   | 29.2   | 18,400           | 3545     | 7.00  | 3.75  | 5.00  | 1.75 | 0.25 | 1.00 | 1.63 | 19.10         |
| R30  | 3030         | 15/16     | 3-1/4     | 50.5   | 31,800           | 2920     | 8.50  | 6.25  | 5.75  | 3.00 | 0.25 | 1.19 | 2.06 | 38.10         |
| R35  | 3535         | 1-3/16    | 3-15/16   | 80.0   | 50,500           | 2545     | 9.75  | 7.25  | 7.00  | 3.50 | 0.25 | 1.31 | 2.69 | 62.20         |
| R40  | 4040         | 1-7/16    | 4-7/16    | 120    | 75,500           | 2115     | 11.75 | 8.25  | 8.50  | 4.00 | 0.25 | 1.63 | 3.38 | 105.60        |
| R45  | 4545         | 1-15/16   | 4-15/16   | 170    | 107,000          | 1910     | 13.00 | 9.25  | 9.50  | 4.50 | 0.25 | 1.94 | 4.06 | 146.70        |
| R50  | 5050         | 2-7/16    | 5-5/16    | 233    | 147,000          | 1740     | 14.25 | 10.25 | 10.50 | 5.00 | 0.25 | 2.31 | 4.81 | 194.40        |
| R60  | 6050         | 3-7/16    | 6         | 404    | 254,500          | 1240     | 20.00 | 13.25 | 16.00 | 5.00 | 1.75 | 1.63 | 4.38 | 526.70        |

\* Space required to tighten bushing with shortened hex key in bushings 1615 through 5050. 6050 uses standard wrench. Also space required to loosen screws to permit removal of hub by a puller

† Space required to loosen bushing using screws as jack screws-no puller required. Use shortened hex key for bushing 1615 through 5050. 6050 uses standard wrench

\*\* Ratings are based on uniform, non-reversing type loads. For more severe conditions, consult DODGE



#### TAPER-LOCK Rigid Part Numbers

| Coupling Size | Bushing Size | Standard             |               | Stainless Steel*     |               |
|---------------|--------------|----------------------|---------------|----------------------|---------------|
|               |              | Male Flange Assembly | Female Flange | Male Flange Assembly | Female Flange |
| R16           | 1615         | 003001               | 003002        | 394157               | 394158        |
| R25           | 2517         | 003003               | 003004        | 424453               | 424452        |
| R30           | 3030         | 003005               | 003006        | 424490               | 424491        |
| R35           | 3535         | 003007               | 003008        | 394455               | 393340        |
| R40           | 4040         | 003009               | 003010        | 394032               | 394035        |
| R45           | 4545         | 003011               | 003012        | 395635               | 395634        |
| R50           | 5050         | 003013               | 003014        | 395637               | 395636        |
| R60           | 6050         | 003015               | 003016        | 395639               | 395638        |

Complete coupling consists of:

- (1) Male Flange Assembly
- (1) Female Flange
- (2) TL Bushings

\* Stainless Steel TL Rigid couplings include zinc coated hardware.

Hardware supplied with male flange

Available in reverse mount

NOTE: TAPER-LOCK bushings ordered separately.

Refer to bushing section PT6-16

TL Rigid couplings are capable of accommodating keyless locking devices for use with non-keyed shafting. Please contact DODGE for further details.

NOTE: Instruction manuals for TAPER-LOCK Rigid Couplings and TAPER-LOCK Bushings available on [www.baldor.com](http://www.baldor.com)

|                                  |   |   |                                      |
|----------------------------------|---|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-76 | SPECIFICATION/HOW TO ORDER<br>PAGE PT1-76 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|---|---|--------------------------------------|



## Rigid Couplings

### RIBBED RIGID

#### RIBBED RIGID SPECIFICATION

Rigid Couplings provide a connection between two perfectly aligned shafts. Ribbed Rigid Couplings are axially split to clamp on shafts of the same diameter and held together by bolts. The coupling uses one key over the entire length and permits quick and easy installation and removal.

#### HOW TO ORDER

TAPER-LOCK consist of:  
(1) Ribbed Rigid Coupling Assembly  
(Complete, by bore size)

#### NOMENCLATURE

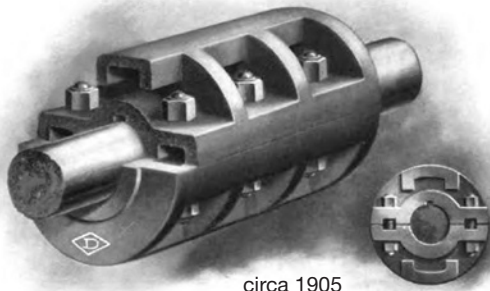
Ribbed Rigid 2-3/4  
Bore Size of Coupling

|                                  |                                     |   |                                      |
|----------------------------------|-------------------------------------|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-76 | SELECTION/DIMENSIONS<br>PAGE PT1-76 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|-------------------------------------|---|--------------------------------------|



# SELECTION/DIMENSIONS

## Ribbed Rigid



circa 1905

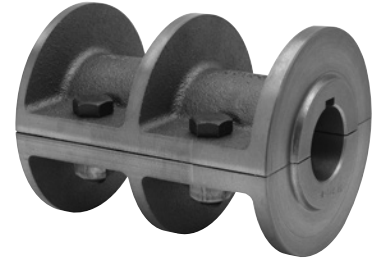


Figure 1

Today's Ribbed Rigid Coupling

**“Grim Death” Compression Coupling** as presented in the 1905 Dodge Catalog, is an original Dodge design. “Grim Death” is a substantial safety coupling adapted to any class of service, and complies with all legal requirements as to safety by having bolt heads and nuts protected. “Grim Death” coupling is finished and polished on periphery and faced on ends.

| For Nominal Shaft of: | Style Cplg. Figure no. | Part Number     | Max RPM | Torque (In-Lb) | Weight | Coupling Dia x Length | Keyway Size | Key Furnished          | Bolts |       |
|-----------------------|------------------------|-----------------|---------|----------------|--------|-----------------------|-------------|------------------------|-------|-------|
|                       |                        |                 |         |                |        |                       |             |                        | No.   | Dia.  |
| 1                     | 1                      | <b>009001</b>   | 5360    | 1200           | 6.0    |                       |             |                        |       |       |
| 1-3/16                | 1                      | <b>009002</b>   | 5360    | 2000           | 5.5    | 3-5/8 x 5-1/4         | 1/4 x 1/8   | 1/4 x 1/4 x 5-1/4      | 4     | 3/8   |
| 1-1/4                 | 1                      | <b>009003</b>   | 5360    | 2300           | 5.2    |                       |             |                        |       |       |
| 1-3/8                 | 1                      | <b>009004</b>   | 4130    | 3100           | 11.0   | 4-5/8 x 6-3/16        | 5/16 x 5/32 | 5/16 x 5/16 x 6-3/16   | 4     | 1/2   |
| 1-7/16                | 1                      | <b>009005</b>   | 4130    | 3500           | 10.5   | 4-5/8 x 6-3/16        | 3/8 x 3/16  | 3/8 x 3/8 x 6-3/16     | 4     | 1/2   |
| 1-1/2                 | 1                      | <b>009006</b>   | 4130    | 4000           | 10.2   |                       |             |                        |       |       |
| 1-11/16               | 1                      | <b>009007</b>   | 3965    | 5700           | 13.7   | 4-13/16 x 7-1/16      | 3/8 x 3/16  | 3/8 x 3/8 x 7-1/16     | 4     | 1/2   |
| 1-3/4                 | 1                      | <b>009008</b>   | 3965    | 6300           | 13.3   |                       |             |                        |       |       |
| 1-7/8                 |                        | <b>009009</b>   | 3635    | 7800           | 19.4   |                       |             |                        | 4     | 1/2   |
| 1-15/16               | ★                      | <b>009010</b>   | 3635    | 8600           | 20.6   | 5-1/4 x 7-15/16       | 1/2 x 1/4   | 1/2 x 1/2 x 7-15/16    |       |       |
| 2                     |                        | <b>009011</b>   | 3635    | 9400           | 20.0   |                       |             |                        |       |       |
| 2-3/16                |                        | <b>009013</b>   | 3180    | 12400          | 29.1   |                       |             |                        | 4     | 5/8   |
| 2-1/4                 | ★                      | <b>009012</b>   | 3180    | 13400          | 29.0   | 6 x 8-5/8             | 1/2 x 1/4   | 1/2 x 1/2 x 8-5/8      |       |       |
| 2-7/16                | 2                      | <b>009015</b>   | 2965    | 17100          | 37.3   | 6-7/16 x 9-11/16      | 5/8 x 5/16  | 5/8 x 5/8 x 9-11/16    | 6     | 5/8   |
| 2-1/2                 | 2                      | <b>009016</b>   | 2965    | 18400          | 36.6   |                       |             |                        |       |       |
| 2-11/16               | 2                      | <b>009017</b>   | 2830    | 22900          | 43.4   | 6-3/4 x 10-9/16       | 5/8 x 5/16  | 5/8 x 5/8 x 10-9/16    | 6     | 5/8   |
| 2-3/4                 | 2                      | <b>009014</b>   | 2830    | 24500          | 43.0   |                       |             |                        |       |       |
| 2-15/16               | 2                      | <b>009019</b>   | 2545    | 29900          | 58.7   | 7-1/2 x 11-3/8        | 3/4 x 3/8   | 3/4 x 3/4 x 11-3/8     | 6     | 3/4   |
| 3                     | 2                      | <b>009020</b> * | 2545    | 31800          | 56.2   |                       |             |                        |       |       |
| 3-3/16                | 2                      | <b>009022</b>   | 2315    | 38200          | 80.5   | 8-1/4 x 12-1/4        | 3/4 x 3/8   | 3/4 x 3/4 x 12-1/4     | 6     | 7/8   |
| 3-1/4                 | 2                      | <b>009021</b> * | 2315    | 40500          | 80.0   | 8-1/4 x 12-1/4        | 3/4 x 3/8   | 3/4 x 3/4 x 12-1/4     | 6     | 7/8   |
| 3-7/16                | 2                      | <b>009023</b>   | 2165    | 47900          | 94.6   | 8-13/16 x 13-3/16     | 7/8 x 7/16  | 7/8 x 7/8 x 13-3/16    | 6     | 7/8   |
| 3-1/2                 | 2                      | <b>009024</b> * | 2165    | 50500          | 94.0   | 8-13/16 x 13-3/16     | 7/8 x 7/16  | 7/8 x 7/8 x 13-3/16    | 6     | 7/8   |
| 3-15/16               | 2                      | <b>009025</b>   | 1900    | 72000          | 146.6  | 10-1/16 x 15-1/4      | 1 x 1/2     | 1 x 1 x 15-1/4         | 6     | 1     |
| 4                     | 2                      | <b>009027</b> * | 1900    | 75400          | 146.0  | 10-1/16 x 15-1/4      | 1 x 1/2     | 1 x 1 x 15-1/4         | 6     | 1     |
| 4-7/16                | 3                      | <b>009026</b>   | 1775    | 103000         | 215.0  | 10-3/4 x 18-3/16      | 1 x 1/2     | 1 x 1 x 18-3/16        | 6     | 1-1/8 |
| 4-1/2                 | 3                      | <b>009031</b> * | 1775    | 107400         | 214.4  | 10-3/4 x 18-3/16      | 1 x 1/2     | 1 x 1 x 18-3/16        | 6     | 1-1/8 |
| 4-15/16               | 3                      | <b>009028</b>   | 1625    | 142000         | 276.3  | 11-3/4 x 19-5/8       | 1-1/4 x 5/8 | 1-1/4 x 1-1/4 x 19-5/8 | 6     | 1-1/8 |
| 5                     | 3                      | <b>009043</b> * | 1625    | 147500         | 275.6  | 11-3/4 x 19-5/8       | 1-1/4 x 5/8 | 1-1/4 x 1-1/4 x 19-5/8 | 6     | 1-1/8 |
| 5-7/16                | 4                      | <b>009029</b>   | 1390    | 190000         | 426.2  | 13-3/4 x 20-3/8       | 1-1/4 x 5/8 | 1-1/4 x 1-1/4 x 20-3/8 | 8     | 1-1/8 |
| 5-1/2                 | 4                      | <b>009050</b> * | 1390    | 196000         | 425.4  | 13-3/4 x 20-3/8       | 1-1/4 x 5/8 | 1-1/4 x 1-1/4 x 20-3/8 | 8     | 1-1/8 |
| 5-15/16               | 3                      | <b>009042</b> * | 1365    | 247000         | 426.0  | 14 x 20-3/4           | 1-1/2 x 3/4 | 1-1/2 x 1-1/2 x 20-3/4 | 6     | 1-1/4 |
| 6                     | 3                      | <b>009054</b> * | 1365    | 255000         | 425.3  | 14 x 20-3/4           | 1-1/2 x 3/4 | 1-1/2 x 1-1/2 x 20-3/4 | 6     | 1-1/4 |
| 7                     | 4                      | <b>009044</b> * | 1230    | 404000         | 560.8  | 15-1/2 x 21-15/16     | 1-3/4 x 3/4 | 1-3/4 x 1-1/2 x        | 8     | 1-1/4 |

★ Same as Fig. 1 except with a rib parallel to the bore between each pair of flanges

\* Standard non-stock size. Consult DODGE Engineering for delivery

**Note: Coupled shafts must be the same diameters**

**NOTE: Instruction manuals for Ribbed Rigid Couplings available on [www.baldor.com](http://www.baldor.com)**

|                                  |   |   |                                      |
|----------------------------------|---|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT1-76 | SPECIFICATION/HOW TO ORDER<br>PAGE PT1-76 | MODIFICATION/ACCESSORIES<br>PAGE PT1-79 | ENGINEERING/TECHNICAL<br>PAGE PT1-81 |
|----------------------------------|---|---|--------------------------------------|



## PARA-FLEX Elements - Part Numbers

| Element Size | Standard | Neoprene (1) | Cordless (2) | Weight (Lbs) |
|--------------|----------|--------------|--------------|--------------|
|              | Part No. | Part No.     | Part No.     |              |
| PX40         | 011529   | 012455       | 012456       | 0.3          |
| PX50         | 011105   | 011296       | 011285       | 0.7          |
| PX60         | 011106   | 011297       | 011286       | 1.2          |
| PX70         | 011107   | 011298       | 011287       | 1.6          |
| PX80         | 011108   | 011299       | 011288       | 2.2          |
| PX90         | 011109   | 011300       | 011289       | 2.6          |
| PX100        | 011110   | 011301       | 011290       | 2.5          |
| PX110        | 011111   | 011302       | ---          | 3.0          |
| PX120        | 011112   | 011303       | 011292       | 4.8          |
| PX140        | 011114   | 011304       | ---          | 5.6          |
| PX160        | 011117   | 011305       | ---          | 9.1          |
| PX200        | 011120   | 011306       | ---          | 20.8         |
| PX240        | 011124   | 011312       | ---          | 27.0         |
| PX280        | 011457   | 011313       | ---          | 45.0         |
| PX320        | 011463   | 011315       | ---          | 80.0         |

| High Speed/Flywheel Elements |                   |                       |              |
|------------------------------|-------------------|-----------------------|--------------|
| Element Size                 | Standard Part No. | Neoprene Part No. (1) | Weight (lbs) |
| PH87                         | 011227            | 011266                | 1.20         |
| PH96                         | 011228            | 011267                | 1.80         |
| PH116                        | 011230            | 011268                | 2.00         |
| PH131                        | 011231            | 011269                | 3.50         |
| PH172                        | 011234            | 011270                | 7.50         |
| PH192                        | 011236            | 011271                | 9.30         |
| PH213                        | 011239            | 011272                | 13.90        |
| PH252                        | 011242            | 011273                | 27.00        |

(1) Neoprene element ratings are the same as the standard natural rubber element ratings. (Green sticker or painted mark)

- (1) Neoprene element ratings are the same as the standard natural rubber element ratings. (Green sticker or painted mark)
- (2) Cordless elements have an average static torsional stiffness 25% of the standard element and approximately 25% of the torque rating. (White sticker or painted mark)

### Elastomer Compatibility

Ratings: 1 - Minor Effect 2 - Moderate Effect 3 - Severe Effect nd - No Data

| Substance            | Nat. Rubber | Neo-prene | EPDM | Hytrel | Substance              | Nat. Rubber | Neo-prene | EPDM | Hytrel |
|----------------------|-------------|-----------|------|--------|------------------------|-------------|-----------|------|--------|
| Acetic Acids         | 2           | 1         | 1    | 1      | Hydrobromic Acid (40%) | 1           | 2         | 1    | nd     |
| Acetic Anhydride     | 2           | 1         | 2    | nd     | Kerosene               | 3           | 2         | 3    | nd     |
| Alcohols, Monohydric | 2           | 1         | 2    | nd     | Lacquers               | 3           | 3         | 3    | 2      |
| Ammonia Anhydrous    | 3           | 1         | 1    | nd     | Lead Sulfamate         | 2           | 1         | 1    | nd     |
| ASTM A Oils          | 3           | 1         | 1    | 1      | Mineral Oil            | 3           | 2         | 2    | 1      |
| Animal Fats          | 3           | 2         | 2    | nd     | Naphtha                | 3           | 2         | 3    | 1      |
| Benzene              | 3           | 3         | 3    | 2      | Nickel Chloride        | 1           | 2         | 1    | nd     |
| Carbonic Acid        | 3           | 2         | 2    | nd     | Nitric Acid (10%)      | 1           | 2         | 2    | 2      |
| Calcium Bisulfite    | 2           | 1         | 3    | nd     | Ozone                  | 3           | 2         | 1    | nd     |
| Chloroacetone        | 2           | 2         | 1    | 2      | Petroleum (<250°F)     | 3           | 2         | 3    | nd     |
| Chloroacetic Acid    | 2           | 1         | 1    | nd     | Potassium Dichromate   | 2           | 1         | 1    | nd     |
| Copper Sulphate      | 2           | 1         | 1    | 1      | Salt Water             | 1           | 2         | 1    | 1      |
| Corn Oil             | 2           | 2         | 2    | nd     | Silicone Oils          | 1           | 1         | 1    | 1      |
| Diesel Oil           | 3           | 2         | 3    | 1      | Sulfuric Acid (Conc.)  | 3           | 3         | 3    | 3      |
| Fuel Oil             | 3           | 2         | 3    | 1      | Vinegar                | 2           | 1         | 1    | nd     |
| Gasoline             | 2           | 2         | 3    | 1      | Zinc Sulfate           | 2           | 1         | 1    | nd     |



## GRID-LIGN Replacement Grids, Covers, and Seals - Part Numbers

| Coupling Size | Grid   | T10 Cover Assembly | T10 Seal Kit | T20 Cover Assembly | T20 Seal Kit |
|---------------|--------|--------------------|--------------|--------------------|--------------|
| 1020T         | 006275 | 006250             | 006805       | 006260             | 006815       |
| 1030T         | 006276 | 006251             | 006806       | 006261             | 006816       |
| 1040T         | 006277 | 006252             | 006807       | 006262             | 006817       |
| 1050T         | 006278 | 006253             | 006808       | 006263             | 006818       |
| 1060T         | 006279 | 006254             | 006809       | 006264             | 006819       |
| 1070T         | 006280 | 006255             | 006810       | 006265             | 006820       |
| 1080T         | 006281 | 006256             | 006811       | 006266             | 006821       |
| 1090T         | 006282 | 006257             | 006812       | 006267             | 006822       |
| 1100T         | 006283 | 006258             | 006813       | 006268             | 006823       |
| 1110T         | 006284 | 006259             | 006814       | 006269             | 006824       |
| 1120T         | 007462 | 007471             | 007520       | 426672             | 007529       |
| 1130T         | 007463 | 007472             | 007521       | 426673             | 007530       |
| 1140T         | 007464 | 007473             | 007522       | 426674             | 007531       |
| 1150T         | 007465 | 007474             | 007523       | 007011             | 007532       |
| 1160T         | 007466 | 007475             | 007524       | 007012             | 007533       |
| 1170T         | 007467 | 007476             | 007525       | 007013             | 007534       |
| 1180T         | 007468 | 007477             | 007526       | 007014             | 007535       |
| 1190T         | 007469 | 007478             | 007527       | 007015             | 007536       |
| 1200T         | 007470 | 007479             | 007528       | 007016             | 007537       |

## Chain Coupling: Chain Assemblies And Covers - Part Numbers

| Coupling Size | Chain Assembly | Chain Assembly Weight (Lbs.) | Cover Assembly (1) | Cover Assembly Weight (Lbs.) |
|---------------|----------------|------------------------------|--------------------|------------------------------|
| 4012          | 100480         | .4                           | 099026             | 1.0                          |
| 4016          | 100490         | .6                           | 099026             | 1.0                          |
| 5012          | 100489         | .9                           | N/A                | N/A                          |
| 5016          | 100481         | 1.4                          | 099027             | 1.3                          |
| 5018          | 100491         | 1.4                          | 099027             | 1.3                          |
| 6018          | 100482         | 2.7                          | 099028             | 2.6                          |
| 6020          | 100492         | 2.7                          | 099028             | 2.6                          |
| 8018          | 100483         | 6.1                          | 099029             | 5.1                          |
| 8020          | 100493         | 6.1                          | 099029             | 5.1                          |
| 10020         | 100495         | 11.0                         | 099024             | 12.2                         |
| 12018         | 100497         | 20.0                         | N/A                | N/A                          |
| 12020         | 100496         | 20.0                         | 099025             | 19.5                         |

(1) Cover assemblies consist of cover halves, screws, seals, and cover gaskets.

## PARA-FLEX Nickel Plated Screws

| Flange Assembly Size | Screw Size (2) | Part Number | Number per Flange (3) |
|----------------------|----------------|-------------|-----------------------|
| PX70, PX80           | 5/16-18X1-1/2  | 411767      | 5, 6                  |
| PX90, PX100          | 3/8-16X1-3/4   | 411768      | 6                     |
| PX120                | 1/2-13X2       | 411770      | 6                     |
| PX140                | 1/2-13X2-1/4   | 411771      | 8                     |

(2) Nickel plated Grade 8 hex head cap screws. Screws not available from stock for PX140 with iron flanges. For sizes not listed, contact DODGE.

(3) 5 required for PX70; 6 for PX80.

**NOTE:** Product installation and maintenance instructions can be found at [www.baldor.com](http://www.baldor.com)





## Selection Methods:

### D-FLEX, PARA-FLEX, GRID-LIGN, GEAR, POWER-PLUS, POLY-DISC, & RIGID COUPLINGS

#### HP/100 METHOD

**Step 1:** Obtain required service factor from Service Factor Tables on pages PT1-83 and PT1-84.

**Step 2:** Determine the application HP per 100 RPM:

$$HP / 100 \text{ RPM} = \frac{\text{Motor HP} \times 100 \times \text{Service Factor}}{\text{Coupling RPM}}$$

**Step 3:** From Rating Tables, find a rating equal to or greater than the HP/100 RPM. Note coupling size from left hand column.

**Step 4:** Check maximum RPM capability.

**Step 5:** Check maximum bore capacity. If maximum bore is exceeded, move to larger size with adequate bore-but be sure maximum RPM of coupling is not exceeded

**Step 6:** If the GT Adapter System is utilized then ensure the keyless torsional holding power exceeds the application demands. From the application tables listed on PT1-10 and PT1-11, ensure the **Maximum Adapter Torque** for the shaft size exceeds the application torque that was calculated in Step 2.

#### TORQUE METHOD:

**Step 1:** Obtain required service factor from Service Factor Tables on pages PT1-83 and PT1-84

**Step 2:** Determine torque required for application.

$$\text{Torque (In - lbs)} = \frac{63025 \times \text{HP} \times \text{SF}}{\text{Coupling RPM}}$$

**Step 3:** From Rating Tables, find a rating equal to or greater than the torque. Note coupling size from left hand column.

**Step 4:** Check maximum RPM capability

**Step 5:** Check maximum bore capacity. If maximum bore is exceeded, move to larger size with adequate bore-but be sure maximum RPM of coupling is not exceeded

### CHAIN COUPLINGS

#### DESIGN HP METHOD:

**Step1:** Obtain required service factor from Service Factory Tables on pages PT1-84 and PT1-85

**Step 2:** Determine application HP:  
HP Design = HP x SF

**Step 3:** From rating tables, select appropriate coupling RPM column and find a rating equal to or greater than HP design. Note coupling size from left hand column.

**Step 4:** Check maximum RPM capability

**Step 5:** Check maximum bore capacity. If maximum bore is exceeded, move to larger size with adequate bore-but be sure maximum RPM of coupling is not exceeded.

**NOTE:** If spring set motor brake is used, and brake HP is greater than prime mover, use brake HP in place of motor HP.

**NOTE:** If system peak torque is known and is non-reversing, start at Step 3. If system peak torque is known and reversing, multiply by 2.0 and start at Step 3

**NOTE:** Selection program "Couple" available on [www.ptwizard.com](http://www.ptwizard.com)



## SERVICE FACTOR

Table 1

| Application<br>(Read Footnotes)                            | Factor Δ                |                  |        |      |            |
|--|-------------------------|------------------|--------|------|------------|
|  | PARA-FLEX/<br>Poly-Disc | Grid Chain Rigid | D-FLEX | Gear | Power-Plus |
| <b>AGITATORS</b>   |                         |                  |        |      |            |
| Paddle or Propeller (Vert. or Horiz.)                      | 1.00                    | 1.00             | 1.25   | 1.00 | 1.25       |
| Screw  | 1.00                    | 1.00             | 1.25   | 1.00 | 1.25       |
| <b>BLOWERS</b>   |                         |                  |        |      |            |
| Centrifugal  | 1.00                    | 1.00             | 1.25   | 1.00 | 1.00       |
| Lobe   | 1.50                    | 1.25             | 1.50   | 1.25 | 1.50       |
| Vane   | 1.00                    | 1.25             | 1.25   | 1.25 | 1.25       |
| <b>BREWING &amp; DISTILLING</b>                            |                         |                  |        |      |            |
| Bottling Machinery, Brew Kettle                            | 1.00                    | 1.00             | 1.25   | 1.00 | 1.00       |
| Cooker (Continuous Duty)                                   | 1.00                    | 1.00             | 1.25   | 1.00 | 1.25       |
| Mash Tub   | 1.00                    | 1.00             | 1.25   | 1.00 | 1.25       |
| Scale Hopper-Frequent Starting Peaks                       | 1.50                    | 1.75             | ◆      | 1.75 | 1.75       |
| <b>CAN FILLING MACHINE</b>                                 | 1.00                    | 1.00             | 1.25   | 1.00 | 1.00       |
| <b>CAR DUMPER</b>  | 1.50                    | 2.50             | 2.00   | 2.50 | 2.00       |
| <b>CAR PULLER</b>  | 1.50                    | 1.50             | 1.50   | 1.50 | 1.50       |
| <b>CLARIFIER</b>   | 1.00                    | 1.00             | 1.25   | 1.00 | 1.25       |
| <b>CLASSIFIER</b>  | 1.00                    | 1.00             | 1.25   | 1.00 | 1.25       |
| <b>CLAY-WORKING MACHINES</b>                               |                         |                  |        |      |            |
| Brick Press, Briquette Mach., Clay Working Mach., Pug Mill | 1.50                    | 1.50             | 1.50   | 1.75 | 1.75       |
| <b>COMPRESSORS**</b>                                       |                         |                  |        |      |            |
| Centrifugal, Lobe, Screw                                   | 1.00                    | 1.00             | 1.25   | 1.00 | 1.00       |
| Lobe, Rotary   | 2.00                    | 1.25             | 2.00   | 1.25 | 1.50       |
| Reciprocating  |                         |                  |        |      |            |
| 1 cylinder - single acting                                 | 3.50                    | 3.00             | ◆      | 3.00 | 3.50       |
| 1 cylinder - double acting                                 | 3.00                    | 3.00             | ◆      | 3.00 | 3.00       |
| 2 cylinder - single acting                                 | 3.00                    | 3.00             | ◆      | 3.00 | 3.00       |
| 2 cylinder - double acting                                 | 2.50                    | 3.00             | ◆      | 3.00 | 2.50       |
| 3 cl. or more - single acting                              | 2.50                    | 3.00             | ◆      | 3.00 | 2.50       |
| 3 cl. or more - double acting                              | 2.00                    | 2.00             | ◆      | 2.00 | 2.00       |
| <b>CONVEYORS</b>   |                         |                  |        |      |            |
| Apron, Assembly, Belt, Chain, Flight, Oven                 | 1.00                    | 1.00             | 1.25   | 1.00 | 1.25       |
| Reciprocating  | 2.50                    | 3.00             | ◎      | 3.00 | 2.50       |
| Screw  | 1.00                    | 1.00             | 1.25   | 1.00 | 1.25       |
| <b>CRANES AND HOISTS</b>                                   |                         |                  |        |      |            |
| Main Hoist-Medium Duty                                     | 1.50                    | 1.75             | 1.50   | 1.75 | 1.75       |
| Main Hoist-Heavy Duty                                      | 2.00                    | 2.00             | 2.00   | 2.00 | 2.50       |
| Skip Hoist, Travel Motion, Trolley                         | 1.50                    | 1.75             | 1.00   | 1.75 | 2.00       |
| Motion, Slope  | 1.50                    | 1.75             | 1.00   | 1.75 | 1.75       |
| <b>CRUSHERS</b>  |                         |                  |        |      |            |
| Cane   | 2.00                    | 2.00             | 2.00   | 2.00 | 2.00       |
| Gyratory   | 2.50                    | 2.50             | ◆      | 2.50 | 2.50       |

| Application<br>(Read Footnotes)   | Factor Δ                |                  |        |      |            |
|-----------------------------------|-------------------------|------------------|--------|------|------------|
|                                   | PARA-FLEX/<br>Poly-Disc | Grid Chain Rigid | D-FLEX | Gear | Power-Plus |
| <b>DREDGES</b>                    |                         |                  |        |      |            |
| Cable Reel, Screen Drive, Stacker | 1.50                    | 1.75             | 1.50   | 1.75 | 1.75       |
| Conveyor                          | 1.50                    | 1.75             | 1.50   | 1.25 | 1.75       |
| Cutter Head Drive, Jig Drive      | 2.50                    | 2.00             | 2.00   | 2.00 | 2.00       |
| Pump, Utility Winch               | 1.50                    | 1.75             | 1.50   | 1.50 | 1.75       |
| <b>DYNAMOMETER</b>                | 1.00                    | 1.00             | 1.25   | 1.00 | 1.00       |
| <b>ELEVATORS</b>                  |                         |                  |        |      |            |
| Bucket, Freight                   | 2.00                    | 1.25             | 2.00   | 1.25 | 2.00       |
| <b>EXCITER</b>                    | 1.00                    | 1.00             | 1.25   | 1.00 | 1.00       |
| <b>FANS</b>                       |                         |                  |        |      |            |
| Centrifugal                       | 1.00                    | 1.00             | 1.25   | 1.00 | 1.00       |
| Cooling Tower                     | 2.00                    | 2.00             | 2.00   | 2.00 | 2.00       |
| Heavy Duty (Forced Draft)         | 1.50                    | 1.50             | 2.00   | 1.50 | 1.50       |
| Induced Draft                     | 1.50                    | 1.50             | 2.00   | 1.50 | 2.00       |
| Light                             | 1.00                    | 1.00             | 1.25   | 1.00 | 1.00       |
| Propeller Indoor                  | 1.50                    | 1.50             | 2.00   | 1.50 | 1.50       |
| <b>FOOD INDUSTRY</b>              |                         |                  |        |      |            |
| Beet Slicer                       | 1.50                    | 1.75             | 1.50   | 1.75 | 1.75       |
| Cereal Cooker                     | 1.00                    | 1.25             | 1.25   | 1.25 | 1.25       |
| Dough Mixer, Meat Grinder         | 1.50                    | 1.75             | 1.50   | 1.75 | 1.75       |
| <b>GENERATORS</b>                 |                         |                  |        |      |            |
| Even Load                         | 1.00                    | 1.00             | 1.25   | 1.00 | 1.00       |
| Hoist or Railway Service          | 1.50                    | 1.50             | 1.50   | 1.50 | 1.50       |
| Welder Load                       | 2.00                    | 2.00             | 2.00   | 2.00 | 2.00       |
| <b>GRIZZLY</b>                    | 2.00                    | 2.00             | 2.00   | 2.00 | 2.00       |
| <b>KILN</b>                       | 2.00                    | 2.00             | 2.00   | 2.00 | 2.00       |
| <b>LAUNDRY MACHINES</b>           |                         |                  |        |      |            |
| Tumbler Washer                    | 2.00                    | 2.00             | 2.00   | 2.00 | 2.00       |
| <b>LINE SHAFTS</b>                |                         |                  |        |      |            |
| Driving Processing Machinery      | 1.00                    | 1.50             | 1.25   | 1.50 | 1.50       |
| Light                             | 1.00                    | 1.50             | 1.25   | 1.50 | 1.50       |
| <b>LUMBER INDUSTRY</b>            |                         |                  |        |      |            |
| Band Resaw                        | 1.50                    | 1.50             | 1.50   | 1.50 | 1.50       |
| Circular Resaw                    | 1.50                    | 1.50             | 1.50   | 1.75 | 1.50       |
| Edger Head Rig, Hog, Log Haul     | 2.00                    | 2.00             | 2.00   | 2.00 | 2.00       |
| Planer                            | 1.50                    | 1.75             | 1.50   | 1.75 | 1.75       |
| Rolls Non-Reversing               | 1.50                    | 1.25             | 1.50   | 1.25 | 1.25       |
| Rolls Reversing                   | 2.00                    | 2.00             | 2.00   | 2.00 | 2.00       |
| Sawdust Conveyor                  | 1.00                    | 1.25             | 1.25   | 1.25 | 1.25       |
| Slab Conveyor                     | 1.50                    | 1.75             | 1.50   | 1.75 | 1.50       |
| Sorting Table                     | 1.50                    | 1.75             | 1.50   | 1.50 | 1.50       |
| <b>MACHINE TOOLS</b>              |                         |                  |        |      |            |
| Auxiliary                         | 1.00                    | 1.00             | 1.25   | 1.00 | 1.00       |

Note: Selection program "Couple" available on [www.ptwizard.com](http://www.ptwizard.com)



## SERVICE FACTOR

Table 1 (continued)

| Application<br>(Read Footnotes)                               | Factor Δ                |                  |        |      |            |
|---|-------------------------|------------------|--------|------|------------|
|   | PARA-FLEX/<br>Poly-Disc | Grid Chain Rigid | D-FLEX | Gear | Power-Plus |
| <b>MACHINE TOOLS (continued)</b>                              |                         |                  |        |      |            |
| Main Drive  | 1.50                    | 1.75             | 1.50   | 1.50 | 1.75       |
| Notching Press, Planer (Reversing), Plate Planer, Punch Press | 1.50                    | 1.75             | 1.50   | 1.75 | 1.75       |
| Traverse  | 1.00                    | 1.00             | 1.25   | 1.00 | 1.00       |
| <b>METAL FORMING MACHINES</b>                                 |                         |                  |        |      |            |
| Draw Bench, Carriage, Main Drive, Extruder,                   | 2.00                    | 2.00             | 1.50   | 2.00 | 2.00       |
| Wire Drawing, Flattening Machine                              | 2.00                    | 2.00             | 1.50   | 1.75 | 2.00       |
| <b>MILLS Rotary Type</b>                                      |                         |                  |        |      |            |
| Ball or Pebble direct or                                      | 2.50                    | 2.00             | 2.00   | 2.00 | 2.25       |
| on LS Shaft Gear Reducer                                      | 2.50                    | 2.00             | 2.00   | 2.00 | 2.25       |
| on HS Shaft Gear Reducer                                      | 2.00                    | 1.50             | 1.50   | 1.50 | 1.75       |
| Dryer and Cooler  | 1.50                    | 1.75             | 1.50   | 1.75 | 2.00       |
| Rod or Tube direct or   | 2.50                    | 2.00             | 2.00   | 2.00 | 2.25       |
| on LS Shaft Gear Reducer                                      | 2.50                    | 2.00             | 2.00   | 2.00 | 2.25       |
| on HS Shaft Gear Reducer                                      | 2.00                    | 1.50             | 1.50   | 1.50 | 1.75       |
| Tumbling Barrel   | 1.50                    | 1.75             | 2.00   | 1.75 | 1.75       |
| <b>MIXERS</b>   |                         |                  |        |      |            |
| Concrete (Continuous or intermittent)                         | 1.50                    | 1.75             | 1.50   | 1.75 | 1.75       |
| Muller-Simpson type   | 1.50                    | 1.75             | 1.50   | 1.50 | 1.75       |
| <b>OIL INDUSTRY</b>   |                         |                  |        |      |            |
| Chiller   | 1.00                    | 1.25             | 1.25   | 1.25 | 1.25       |
| Oil Well Pumping (Not over 150% peak torque)                  | 2.00                    | 2.00             | 2.00   | 2.00 | 2.00       |
| Paraffin Filter Press   | 1.50                    | 1.50             | 1.50   | 1.50 | 1.50       |
| <b>PAPER MILLS</b>  |                         |                  |        |      |            |
| Agitator  | 1.00                    | 2.00             | 1.25   | 2.00 | 2.00       |
| Barking Drum  | 2.50                    | 2.50             | 2.00   | 2.50 | 2.25       |
| Beater and Pulper   | 1.50                    | 1.75             | 1.50   | 1.75 | 1.75       |
| Bleacher  | 1.00                    | 1.00             | 1.25   | 1.00 | 1.00       |
| Calender  | 2.00                    | 1.75             | 2.00   | 1.75 | 2.00       |
| Chipper   | 3.00                    | 2.50             | 2.00   | 2.50 | 2.50       |
| Couch Cylinder Dryer  | 1.50                    | 1.75             | 1.50   | 1.75 | 1.75       |
| Felt Stretcher  | 1.00                    | 1.25             | 1.25   | 1.25 | 1.25       |
| Fourdrinier   | 1.50                    | 1.75             | 1.50   | 1.75 | 1.75       |
| Jordan  | 2.00                    | 2.00             | 2.00   | 2.00 | 2.00       |
| Press   | 2.00                    | 1.75             | 1.50   | 1.75 | 1.75       |
| Pulp Grinder  | 2.00                    | 1.75             | 2.00   | 1.75 | 1.75       |
| Stock Chest   | 1.50                    | 1.50             | 1.50   | 1.50 | 1.50       |
| Stock Pump  |                         |                  |        |      |            |
| Reciprocating   | 2.00                    | 2.00             | ◆      | 2.00 | 2.00       |

| Application<br>(Read Footnotes)                 | Factor Δ                |                  |        |      |            |
|---|-------------------------|------------------|--------|------|------------|
|   | PARA-FLEX/<br>Poly-Disc | Grid Chain Rigid | D-FLEX | Gear | Power-Plus |
| <b>PAPER MILLS (continued)</b>                  |                         |                  |        |      |            |
| Suction Roll                                    | 2.00                    | 1.75             | 1.50   | 1.75 | 1.75       |
| Winder  | 1.50                    | 1.50             | 1.50   | 1.50 | 1.50       |
| <b>PARAFFIN FILTER PRESS</b>                    |                         |                  |        |      |            |
|   | 1.50                    | 1.50             | 1.50   | 1.50 | 1.50       |
| <b>PRINTING PRESS</b>                           |                         |                  |        |      |            |
|   | 1.50                    | 1.50             | 1.50   | 1.50 | 1.50       |
| <b>PROPELLER Marine</b>                         |                         |                  |        |      |            |
|   | 1.50                    | 1.50             | ◆      | 1.50 | 1.50       |
| <b>PULLERS</b>                                  |                         |                  |        |      |            |
| Barge Hall                                      | 2.50                    | 2.00             | 2.00   | 1.50 | 2.00       |
| <b>PULVERIZERS</b>                              |                         |                  |        |      |            |
| Hammermill-Light Duty                           | 1.50                    | 1.50             | 1.50   | 1.50 | 1.50       |
| Hammermill-Heavy Duty                           | 2.00                    | 1.75             | 2.00   | 1.75 | 1.75       |
| Hog   | 2.00                    | 1.75             | 2.00   | 1.75 | 1.75       |
| Roller  | 1.50                    | 1.50             | 1.50   | 1.50 | 1.50       |
| <b>PUMPS</b>                                    |                         |                  |        |      |            |
| For Stock Pumps See Paper Mills                 |                         |                  |        |      |            |
| Centrifugal                                     | 1.00                    | 1.00             | 1.25   | 1.00 | 1.00       |
| Descaling Gear Type                             | 1.50                    | 1.25             | 1.50   | 1.25 | 1.50       |
| Oil Well Pumping (Not over 150% peak torque)    | 2.00                    | 2.00             | 2.00   | 2.00 | 2.00       |
| Rotary -other than gear                         | 1.50                    | 1.25             | 1.50   | 1.25 | 1.50       |
| Reciprocating                                   |                         |                  |        |      |            |
| 1 cylinder-single acting                        | 2.50                    | 3.00             | ◆      | 3.00 | 2.25       |
| 1 cylinder-double acting                        | 2.00                    | 3.00             | ◆      | 3.00 | 2.00       |
| 2 cylinder-single acting                        | 2.00                    | 2.00             | ◆      | 2.00 | 2.25       |
| 2 cylinder-double acting                        | 1.50                    | 1.75             | ◆      | 1.75 | 2.00       |
| 3 cylinder or more                              | 1.50                    | 1.50             | ◆      | 1.50 | 1.75       |
| <b>RUBBER INDUSTRY</b>                          |                         |                  |        |      |            |
| Banbury Mixer                                   | 2.50                    | 2.50             | 2.00   | 2.50 | 2.50       |
| Calender  | 2.00                    | 2.00             | 2.00   | 2.00 | 2.00       |
| Cracker Mixing Mill Plasticator                 | 2.50                    | 2.50             | 2.00   | 2.50 | 2.50       |
| Refiner, Sheeter                                | 2.00                    | 2.50             | 2.00   | 2.50 | 2.00       |
| Tire-Building Machine                           | 2.00                    | 2.50             | 2.00   | 2.50 | 2.50       |
| Tire and Tube Press Opener Based on Peak Torque | 1.00                    | 1.00             | 1.25   | 1.00 | 1.00       |
| Tuber and Strainer                              | 1.50                    | 1.75             | 1.50   | 1.75 | 1.75       |
| Warming Mill                                    | 2.00                    | 2.00             | 2.00   | 2.00 | 2.00       |
| Washer  | 2.50                    | 2.50             | 2.00   | 2.50 | 2.50       |
| <b>SCREENS</b>                                  |                         |                  |        |      |            |
| Air Washing                                     | 1.00                    | 1.00             | 1.25   | 1.00 | 1.00       |
| Coal and Sand Rotary                            | 1.50                    | 1.50             | 1.50   | 1.50 | 1.50       |
| Vibrating                                       | 2.50                    | 2.50             | 2.00   | 2.50 | 2.50       |
| Water   | 1.00                    | 1.00             | 1.25   | 1.00 | 1.25       |

 Note: Selection program "Couple" available on [www.ptwizard.com](http://www.ptwizard.com)



## SERVICE FACTOR

Table 1 (continued)

| Application<br>(Read Footnotes)  | Factor Δ                |                  |        |      |            |
|----------------------------------|-------------------------|------------------|--------|------|------------|
|                                  | PARA-FLEX/<br>Poly-Disc | Grid Chain Rigid | D-FLEX | Gear | Power-Plus |
| <b>SEWAGE DISPOSAL EQUIPMENT</b> | 1.00                    | 1.00             | 1.25   | 1.00 | 1.25       |
| <b>SHOVEL</b>                    | 2.00                    | 2.00             | 2.00   | 2.00 | 2.00       |
| <b>SHREDDER</b>                  | 1.50                    | 1.50             | 1.50   | 1.50 | 1.50       |
| <b>STEEL INDUSTRY</b>            |                         |                  |        |      |            |
| Cold Mills                       |                         |                  |        |      |            |
| Coiler up or down                | 1.50                    | 2.00             | ◆      | 1.50 | 2.00       |
| Strip, Temper                    | 2.00                    | 2.00             | ◆      | 2.00 | 2.00       |
| Hot Mills                        |                         |                  |        |      |            |
| Coiler up or down                | 1.50                    | 2.00             | ◆      | 1.50 | 2.00       |
| Edger Drive                      | 1.50                    | 2.00             | ◆      | 1.50 | 2.00       |
| Feed Roll Blooming               | 3.00                    | 2.50             | ◆      | 3.00 | 3.50       |
| Roughing Mill Delivery           | 3.00                    | 2.50             | ◆      | 2.50 | 3.00       |
| Non-reversing, Sheet Strip       | 3.00                    | 2.50             | ◆      | 2.50 | 3.00       |
| Rod Mill                         | 2.50                    | 2.50             | ◆      | 2.00 | 2.25       |
| Soaking Pit Cover Drive Lift     | 3.00                    | 1.50             | ◆      | 1.00 | 3.00       |
| Soaking Pit Cover Drive Travel   | 3.00                    | 1.50             | ◆      | 2.00 | 3.00       |

| Application<br>(Read Footnotes) | Factor Δ                |                  |        |      |            |
|---------------------------------|-------------------------|------------------|--------|------|------------|
|                                 | PARA-FLEX/<br>Poly-Disc | Grid Chain Rigid | D-FLEX | Gear | Power-Plus |
| <b>STEERING GEAR</b>            | 1.00                    | 1.00             | 1.25   | 1.00 | 1.25       |
| <b>STOKER</b>                   |                         | 1.00             | 1.25   | 1.00 | 1.25       |
| <b>TEXTILE MILLS</b>            |                         |                  |        |      |            |
| Batcher                         | 1.00                    | 1.25             | 1.25   | 1.25 | 1.25       |
| "Calender, Card Machine, D Can" | 1.50                    | 1.50             | 1.50   | 1.50 | 1.50       |
| Dyeing Machine                  | 1.00                    | 1.25             | 1.25   | 1.25 | 1.25       |
| Loom                            | 1.50                    | 1.50             | 1.50   | 1.50 | 1.50       |
| Mangel, Napper, Soaper          | 1.00                    | 1.25             | 1.25   | 1.25 | 1.25       |
| Spinner, Tenter Frame           | 1.50                    | 1.50             | 1.50   | 1.50 | 1.50       |
| <b>WINDLASS</b>                 | 1.50                    | 1.50             | 1.50   | 1.50 | 1.50       |
| <b>WOODWORKING MACHINES</b>     | 1.00                    | 1.00             | 1.25   | 1.00 | 1.25       |

### SYSTEM SERVICE FACTOR CALCULATION

To determine the system service factor, the driver service factor adder (Table 1A) must be added to the driven service factor. (Table 1) Example: Determine the system service factor for a PARA-FLEX coupling used to couple a barking drum and a six-cylinder diesel engine.

$$\text{Driven S.F.} + \text{Driver S.F. Adder} = \text{System S.F.}$$

$$2.5 + .5 = 3.0$$

Δ The service factors listed are intended only as a general guide. Where substantial shock occurs or starting and stopping is frequent as on some "inching" drives and on some reversing drives or where the power source is an internal combustion engine with less

than four cylinders—Consult DODGE. Where torsional vibrations occur as in, for example, internal combustion engine or reciprocating compressor or pump applications, check the coupling stiffness for the possible development of damaging large-amplitude vibrations. A complete system torsional analysis may be necessary.

\*\* Add 0.5 to factor if without flywheel

◆ CONSULT DODGE FOR SELECTION ASSISTANCE

Table 1A-Driver Service Factor Adders

| Type of Coupling | Electric Motor Std. Torque | High Torque Motors                                  | Turbines  | Reciprocating Engine Number of Cylinders          |         |        |        |             |
|------------------|----------------------------|---|---|---|---------|--------|--------|-------------|
|                  |                            |   |   | 12 or More  | 8 to 11 | 6 to 7 | 4 to 5 | Less than 4 |
| PARA-FLEX        | 0.00                       | 0.00  | 0.00  | 0.00  | 0.50    | 0.50   | 0.50   | ◆           |
| METALLIC         | 0.00                       | 0.00  | 0.00  | 0.00  | 0.50    | 0.50   | 1.00   | ◆           |
| D-FLEX           | 0.00                       | IF SF < 1.25<br>ADD 0.25<br>IF SF > 1.25<br>ADD 0.5 | IF SF < 1.5<br>SUBTRACT 0.25<br>IF SF > 1.5<br>SUBTRACT 0.5 | IF SF < 1.25 ADD 0.25<br><br>IF SF > 1.25 ADD 0.5 |         |        |        | ◆<br><br>◆  |

Note: Selection program "Couple" available on [www.ptwizard.com](http://www.ptwizard.com)



## Comparative Table

| Coupling Type              | Misalignment   |          | End Float |
|----------------------------|--|----------|-----------|
|                            | Angular  | Parallel |           |
| PARA-FLEX (PX, PS) (1) (2) | 4°   | .125"    | ± 0.156"  |
| PARA-FLEX (PH, PF)         | 1°   | 0.0625"  | ± 0.094"  |
| GRID-LIGN                  | 1/2°   | 0.012"   | 0.375"    |
| CHAIN                      | 2°   | .015"    | 0.300"    |
| POLY-DISC                  | 2°   | 0.032"   |           |
| POWERPLUS                  | Please refer to instruction manual #MN4025 on www.baldor.com |          |           |

(1) PX40 is 4° Angular / .06" Parallel / ±.094" End Float

(2) PX110 is 4° Angular / 0.125" Parallel / ±.125" End Float

## Temperature Range

| Coupling Type | °F                     |
|---------------|------------------------|
| PARA-FLEX     |                        |
| PX, PS        | -45°F (1) to +180°F(1) |
| PH, PF        | -45°F (1) to +180°F(1) |
| D-FLEX        |                        |
| EPDM          | -30°F to +275°F        |
| NEOPRENE      | 0°F to +200°F          |
| HYTREL        | -65°F to +250°F        |
| GRID-LIGN     | -35°F to +210°F        |
| CHAIN         | -30°F to +225°F        |
| GEAR          | -30°F to +250°F        |
| POLY-DISC     | -90°F to +170°F        |
| NYLIGN        | 0°F to +170°F          |
| POWERPLUS     | -22°F to 176°F         |

(1) -40°F to +210°F for neoprene element.

## D-Flex Misalignment (1)

| Size | Types JE, JN, E & N |             |               | Types H & HS (4) |             |               |
|------|---------------------|-------------|---------------|------------------|-------------|---------------|
|      | Parallel (1)        | Angular (2) | End Float (3) | Parallel (1)     | Angular (2) | End Float (3) |
| 3    | 0.010               | 1°          | ± 0.030       | -                | -           | -             |
| 4    | 0.010               | 1°          | ± 0.030       | -                | -           | -             |
| 5    | 0.015               | 1°          | ± 0.046       | -                | -           | -             |
| 6    | 0.015               | 1°          | ± 0.060       | .010             | 1/4°        | ± 0.060       |
| 7    | 0.020               | 1°          | ± 0.060       | .012             | 1/4°        | ± 0.060       |
| 8    | 0.020               | 1°          | ± 0.096       | .015             | 1/4°        | ± 0.096       |
| 9    | 0.025               | 1°          | ± 0.096       | .017             | 1/4°        | ± 0.096       |
| 10   | 0.025               | 1°          | ± 0.125       | .020             | 1/4°        | ± 0.125       |
| 11   | 0.032               | 1°          | ± 0.125       | .022             | 1/4°        | ± 0.125       |
| 12   | 0.032               | 1°          | ± 0.125       | .025             | 1/4°        | ± 0.125       |
| 13   | 0.040               | 1°          | ± 0.125       | .030             | 1/4°        | ± 0.125       |
| 14   | 0.045               | 1°          | ± 0.125       | .035             | 1/4°        | ± 0.125       |
| 16   | 0.062               | 1°          | ± 0.125       | -                | 1/4°        | -             |

**NOTE:** (1) All dimensions are in inches

(2) Values are for when 1/4 or more of the rated torque is transmitted.  
Reduce values by 50% for lower torques

(3) Increase E dimension by this amount to accommodate end float.

(4) Types H & HS should not be used as direct replacements for EPDM or Neoprene sleeves



## PARA-FLEX Couplings Bolt Torque Information

| Size      | Standard                                  |                 |                 |                           |                      |
|-----------|---|-----------------|-----------------|---------------------------|----------------------|
|           | Clamp Ring Bolts (5)<br>Torque (In.-Lbs.) |                 |                 | PS Shaft Hub<br>Bolts (3) |                      |
|           | No.                                       | 2-Piece<br>Assy | 3-Piece<br>Assy | No.                       | Torque<br>(In.-Lbs.) |
| PX40      | 4   | 130             | 130             | 4                         | 130                  |
| PX50      | 5   | 130             | 130             | 4                         | 180                  |
| PX60      | 5   | 290             | 290             | 5                         | 180                  |
| PX70      | 5   | 290             | 290             | 5                         | 180                  |
| PX80      | 6   | 290             | 290             | 5                         | 300                  |
| PX90      | 6   | 480             | 480             | 6                         | 300                  |
| PX100     | 6   | 480             | 480             | 6                         | 300                  |
| PX110     | 6   | 480             | 480             | 6                         | 300                  |
| PX120     | 6   | 1080            | 1080            | 6                         | 720                  |
| PX140     | 8   | 1080            | 1080            | 5                         | 720                  |
| PX160 (2) | 8   | 2160            | 1150            | 6                         | 1296                 |
| PX200     | 12  | 2160            | 2400            | 8                         | 1296                 |
| PX240     | 12  | 3600            | 4020            | -                         | -                    |
| PX280     | 14  | 4320            | 6600            | -                         | -                    |
| PX320     | 16  | 4320            | 6600            | -                         | -                    |

(2) PX160 steel flanges have 10 clamp ring bolts

(3) SAE Grade 8

(5) SAE Grade 8. FB style couplings utilize class 10.9 metric clamping ring bolts

## PARA-FLEX High Speed & Fly Wheel Bolt Torque Information (in-lb)

| Size | For Flange (3) |            | For Bolt Ring<br>(3) |
|------|----------------|------------|----------------------|
|      | Iron Fig.      | Steel Fig. |                      |
| 87   | 290            | 290        | 180                  |
| 96   | 290            | 290        | 300                  |
| 116  | 480            | 480        | 360                  |
| 131  | 480            | 480        | 420                  |
| 172  | 1080           | 1150       | 600                  |
| 192  | 2160           | 1150       | 780                  |
| 213  | 2160           | 2160       | 840                  |
| 252  | 3600           | 3600       | 2880                 |

(3) SAE Grade 8

## Torsional Stiffness

| PARA-FLEX |                      | HIGH SPEED PARA-FLEX |                      |
|-----------|----------------------|----------------------|----------------------|
| Size      | In-Lbs/Degree<br>(4) | Size                 | In-Lbs/Degree<br>(4) |
| PX40      | 120                  | PH 87                | 1000                 |
| PX50      | 224                  | PH 96                | 1190                 |
| PX60      | 414                  | PH 116               | 2182                 |
| PX70      | 544                  | PH 131               | 2566                 |
| PX80      | 876                  | PH 172               | 6737                 |
| PX90      | 1088                 | PH 192               | 13893                |
| PX100     | 1530                 | PH 213               | 23143                |
| PX110     | 2420                 | PH 252               | 39008                |
| PX120     | 4014                 |                      |                      |
| PX140     | 8296                 |                      |                      |
| PX160     | 12,000               |                      |                      |
| PX200     | 29,000               |                      |                      |
| PX240     | 48,000               |                      |                      |
| PX280     | 98,000               |                      |                      |
| PX320     | 151,000              |                      |                      |

(4) Values are nominal and may vary +/- 20%. To convert static values to approximate dynamic values, multiply the static values by 1.2

## D-Flex Torsional Stiffness\*

| Size | EPDM & Neoprene<br>(In-Lbs/radian) | Hytrel<br>(In-Lbs/radian) |
|------|------------------------------------|---------------------------|
| 3    | 229                                | -                         |
| 4    | 458                                | -                         |
| 5    | 916                                | -                         |
| 6    | 1,718                              | 10,000                    |
| 7    | 2,769                              | 20,000                    |
| 8    | 4,335                              | 30,000                    |
| 9    | 6,875                              | 47,500                    |
| 10   | 10,980                             | 100,000                   |
| 11   | 17,300                             | 125,000                   |
| 12   | 27,500                             | 225,000                   |
| 13   | 43,350                             | 368,900                   |
| 14   | 68,775                             | 593,250                   |
| 16   | 180,480                            | -                         |

\* Values shown are for an ambient temperature of 75°F

## D-Flex Spacer Bolt Torques

| Size  | Shaft Hub Bolts (1) |                  |
|-------|---------------------|------------------|
|       | Number              | Torque<br>Ft-Lbs |
| 5SCH  | 4                   | 4                |
| 6SCH  | 4                   | 9                |
| 7SCH  | 4                   | 9                |
| 8SCH  | 4                   | 18               |
| 9SCH  | 4                   | 31               |
| 10SCH | 4                   | 50               |
| 11SCH | 4                   | 75               |
| 12SCH | 4                   | 150              |
| 13SCH | 4                   | 150              |
| 14SCH | 4                   | 150              |

(1) SAE Grade 8



## AGMA Class 1 Fits

| Nom. Shaft<br>Diameter (In.) | Bore Dimensions         |                   |                         |                   |
|------------------------------|-------------------------|-------------------|-------------------------|-------------------|
|                              | Clearance               |                   | Interference            |                   |
|                              | Nom. Shaft<br>Dia. Less | Bore<br>Tolerance | Nom. Shaft<br>Dia. Less | Bore<br>Tolerance |
| 0 - 1-1/2                    | .000                    | + .001 - .000     | .001                    | + .0005 - .000    |
| 1-1/2 - 2                    | .000                    | + .001 - .000     | .002                    | + .001 - .000     |
| 2 - 3                        | .000                    | + .0015 - .000    | .002                    | + .0015 - .000    |
| 3 - 4                        | .000                    | + .0015 - .000    | .003                    | + .0015 - .000    |
| 4 - 5                        | .000                    | + .002 - .000     | .0035                   | + .0015 - .000    |
| 5 - 6                        | .000                    | + .002 - .000     | .004                    | + .0015 - .000    |

## Standard Keyways

| Keyway<br>Bore Size | Width | For Sq. Key | For Rec. Key |
|---------------------|-------|-------------|--------------|
| 7/16                | 3/32  | 3/64        | ...          |
| 1/2 - 9/16          | 1/8   | 1/16        | ...          |
| 5/8 - 7/8           | 3/16  | 3/32        | ...          |
| 15/16 - 1-1/4       | 1/4   | 1/8         | ...          |
| 1-5/16 - 1-3/8      | 5/16  | 5/32        | ...          |
| 1-7/16 - 1-3/4      | 3/8   | 3/16        | 1/8          |
| 1-13/16 - 2-1/4     | 1/2   | 1/4         | 3/16         |
| 2-5/16 - 2-3/4      | 5/8   | 5/16        | 7/32         |
| 2-13/16 - 3-1/4     | 3/4   | 3/8         | 1/4          |
| 3-5/16 - 3-3/4      | 7/8   | 7/16        | 5/16         |
| 3-13/16 - 4-1/2     | 1     | 1/2         | 3/8          |
| 4-9/16 - 5-1/2      | 1-1/4 | 5/8         | 7/16         |

## Metric Bore Standard

| MM<br>Bore | MM<br>Keyway Width | MM<br>Hub Keyseat | MM<br>Key |
|------------|--------------------|-------------------|-----------|
| 14         | 5                  | 2.3               | 5x5       |
| 16         | 5                  | 2.3               | 5x5       |
| 18         | 6                  | 2.8               | 6X6       |
| 19         | 6                  | 2.8               | 6X6       |
| 20         | 6                  | 2.8               | 6X6       |
| 22         | 6                  | 2.8               | 6X6       |
| 24         | 8                  | 3.3               | 8X7       |
| 25         | 8                  | 3.3               | 8X7       |
| 28         | 8                  | 3.3               | 8X7       |
| 30         | 8                  | 3.3               | 8X7       |
| 32         | 10                 | 3.3               | 10X8      |
| 35         | 10                 | 3.3               | 10X8      |
| 38         | 10                 | 3.3               | 10X8      |
| 40         | 12                 | 3.3               | 12X8      |
| 42         | 12                 | 3.3               | 12X8      |
| 45         | 14                 | 3.8               | 14X9      |
| 48         | 14                 | 3.8               | 14X9      |
| 50         | 14                 | 3.8               | 14X9      |
| 55         | 16                 | 4.3               | 16X10     |
| 60         | 18                 | 4.4               | 18X11     |
| 65         | 18                 | 4.4               | 18X11     |
| 70 & 75    | 20                 | 4.9               | 20X12     |
| 80 & 85    | 22                 | 5.4               | 22X14     |
| 90         | 25                 | 5.4               | 25X14     |
| 95         | 25                 | 5.4               | 25X14     |
| 100        | 28                 | 6.4               | 28X16     |

MM bore and keyway conform to ISO standard recommendation R773, for "FREE" fit



# CONTENTS

## Clutches and Brakes

### Features / Benefits

|   |        |
|---|--------|
| Motor Brakes . . . . .                    | PT2-2  |
| Clutch/Brake Modules . . . . .            | PT2-11 |
| Shaft Mounted Clutches & Brakes . . . . . | PT2-18 |
| Fractional HP Clutches & Brakes . . . . . | PT2-24 |

### Specification

### How to Order

### Nomenclature

|   |        |
|---|--------|
| Motor Brakes . . . . .                    | PT2-3  |
| Clutch/Brake Modules . . . . .            | PT2-12 |
| Shaft Mounted Clutches & Brakes . . . . . | PT2-19 |
| Fractional HP Clutches & Brakes . . . . . | PT2-25 |

### Selection

|   |        |
|---|--------|
| Fractional HP Clutches & Brakes . . . . . | PT2-26 |
|---|--------|

### Selection/Dimensions

|                                 |        |
|---------------------------------|--------|
| Motor Brakes                    |        |
| DBSS . . . . .                  | PT2-5  |
| DBSC . . . . .                  | PT2-6  |
| DBEC . . . . .                  | PT2-8  |
| DBES . . . . .                  | PT2-9  |
| Clutch/Brakes & Modules         |        |
| DMCCB & DMCCO . . . . .         | PT2-14 |
| DMCCB-PSM . . . . .             | PT2-15 |
| DMCBO & DMCBX . . . . .         | PT2-16 |
| DMSCB & DMSCO . . . . .         | PT2-17 |
| Shaft Mounted Clutches & Brakes |        |
| IEC Series . . . . .            | PT2-21 |
| IEB Series . . . . .            | PT2-22 |
| IPB Series . . . . .            | PT2-23 |
| Fractional HP Clutches & Brakes |        |
| SL Series . . . . .             | PT2-30 |
| BSL Series . . . . .            | PT2-31 |
| SO Series . . . . .             | PT2-32 |
| FB Series . . . . .             | PT2-33 |
| FSB Series . . . . .            | PT2-34 |
| FSBR Series . . . . .           | PT2-35 |

### Modifications/Accessories

|   |        |
|---|--------|
| Motor Brake . . . . .                   | PT2-10 |
| Power Supplies/Motor Adapters . . . . . | PT2-36 |

### Engineering/Technical . . . . . PT2-38

|                             |         |
|-----------------------------|---------|
| Part Number Index . . . . . | INDEX-1 |
|-----------------------------|---------|

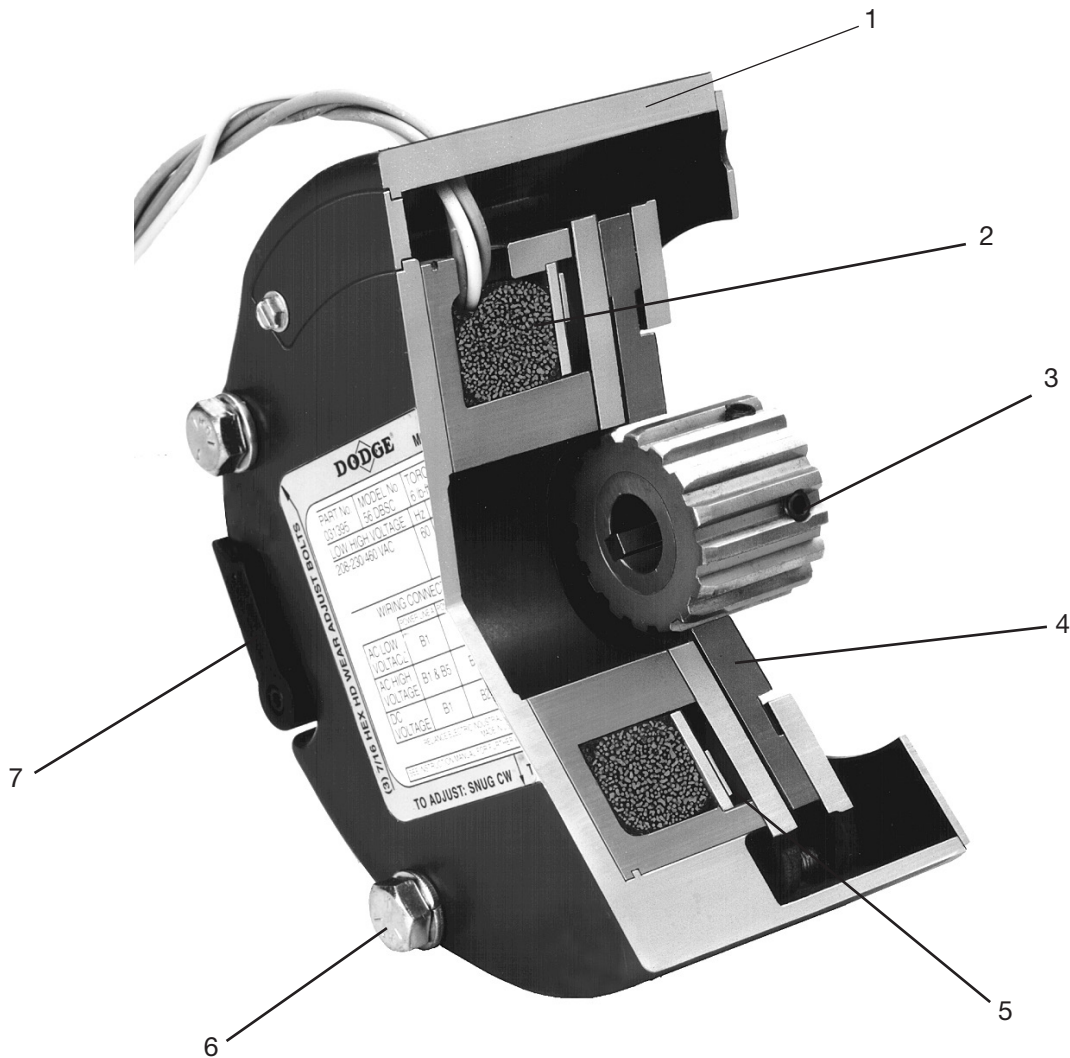
|                         |          |
|-------------------------|----------|
| Keyword Index . . . . . | INDEX-43 |
|-------------------------|----------|



## FEATURES/BENEFITS

### Motor Brakes

1. Rugged, die-cast aluminum housing mounts at any angle without modification.
2. Internally rectified DC voltage coil operates on either AC or DC voltage. Class B insulation is standard.
3. Splined hub permits uniform load distribution. Integral key design simplifies installation - no loose parts.
4. Single, non-asbestos friction disc design extends life, reduces replacement parts and allows quiet operation (1)
5. Wave spring provides 360° of force when power is removed from the brake.
6. Industry standard NEMA C-face mounting. Interchanges easily with competitive units.
7. Easy-to-use, reliable manual release levers reset automatically.



- (1) 35 & 50 ft. lb. motor brakes employ two friction discs and can be mounted at any angle without modification





## Motor Brakes

### SPECIFICATION

D-Series Motor Brakes are designed with a single\* non-asbestos friction disc for fewer adjustments, reduced replacement parts, and extended life. They are released when power is applied to the brake coil. The friction disc hub assembly and ultimately the load are free to turn. However, when power is taken away, intentionally or accidentally, an internal wave spring clamps the friction disc to stop and hold the load. The single\* disc design has significantly fewer parts than competitive brakes and provides a dramatic improvement in brake friction disc life. Just as dramatic is the quiet operation compared to solenoid type brakes. DODGE D-Series motor brakes are available as stock off-the-shelf units in 2 configurations. DBSC C-Face brakes mount on the fan end (non-driving end) of a motor. DBSS double C-Face brakes are generally used as a coupler between standard C-Face motors and C-Face gear reducers.

\* 35/50 ft.-lb motor brakes employ two friction discs

### HOW TO ORDER

Motor Brakes are ordered by specifying the unit size, the motor frame size, and the voltage. Part numbers are found on the selection pages for each type of unit. Refer to the part number when ordering.

### NOMENCLATURE

|   |           |             |          |          |          |           |          |                    |              |
|---|-----------|-------------|----------|----------|----------|-----------|----------|--------------------|--------------|
|   | <b>56</b> | <b>DBSS</b> | <b>-</b> | <b>3</b> | <b>-</b> | <b>MA</b> | <b>-</b> | <b>115/230 VAC</b> | <b>60 HZ</b> |
| <b>NEMA C-Face Designation</b> _____        |           |             |          |          |          |           |          |                    |              |
| 56 = 56C (5/8" shaft)                       |           |             |          |          |          |           |          |                    |              |
| 140 = 143TC/145TC (7/8" shaft)              |           |             |          |          |          |           |          |                    |              |
| 180 = 180TC/210TC (1-1/8" shaft)            |           |             |          |          |          |           |          |                    |              |
| <b>DODGE Brakes</b> _____                   |           |             |          |          |          |           |          |                    |              |
| <b>Housing Enclosure</b> _____              |           |             |          |          |          |           |          |                    |              |
| S = Standard Enclosure/Drip-Proof           |           |             |          |          |          |           |          |                    |              |
| E = E-Z KLEEN (Food Duty/NEMA 4X)           |           |             |          |          |          |           |          |                    |              |
| <b>Mounting Configuration</b> _____         |           |             |          |          |          |           |          |                    |              |
| C = C-face (single)/Fan End Mounting        |           |             |          |          |          |           |          |                    |              |
| S = Shaft-out (Double C-Face) Coupler       |           |             |          |          |          |           |          |                    |              |
| <b>Static Torque Rating (Ft.-Lbs)</b> _____ |           |             |          |          |          |           |          |                    |              |
| <b>Wear Adjustment Method</b> _____         |           |             |          |          |          |           |          |                    |              |
| MA = Manually Adjusted                      |           |             |          |          |          |           |          |                    |              |
| <b>Coil Voltage</b> _____                   |           |             |          |          |          |           |          |                    |              |
| 115/230 VAC                                 |           |             |          |          |          |           |          |                    |              |
| 230/460 VAC                                 |           |             |          |          |          |           |          |                    |              |
| Others As Noted On Brake Label              |           |             |          |          |          |           |          |                    |              |
| <b>Frequency</b> _____                      |           |             |          |          |          |           |          |                    |              |
| 60 Hz                                       |           |             |          |          |          |           |          |                    |              |
| 50 Hz                                       |           |             |          |          |          |           |          |                    |              |
| Blank If DC Voltage Only                    |           |             |          |          |          |           |          |                    |              |

|                                 |                                    |   |                                      |
|---------------------------------|------------------------------------|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT2-2 | SELECTION/DIMENSIONS<br>PAGE PT2-4 | MODIFICATION/ACCESSORIES<br>PAGE PT2-10 | ENGINEERING/TECHNICAL<br>PAGE PT2-38 |
|---------------------------------|------------------------------------|---|--------------------------------------|



# SELECTION/DIMENSIONS

## Motor Brakes

### Selection Procedure

1. Determine the motor frame size, horsepower and speed.
2. Use chart for brake static torque selection. Note that chart selections are based on a **1.4 service factor** and increased to the next highest standard brake torque rating. To select a brake using a different service factor, use the formula below to determine the required brake static torque.

$$T = \frac{HP \times 5252 \times SF}{RPM}$$

**T = Brake Static Torque (Ft-Lbs)**

**HP = Motor Horsepower**

**SF = Service Factor Desired**

**RPM = Motor Speed**

Once your torque requirement has been determined, select a brake with at least that capacity.

3. Consult Part Number charts on pages PT2-5 thru PT2-10 for appropriate part number. Brake voltage should be matched with motor voltage rating.
4. Verify mounting dimensions (C-face tenon, mounting bolt pattern, shaft size, etc.) from pages PT2-5 thru PT2-10.
5. In positioning applications, use of a fast response kit allows you to obtain faster stop times. To order see page PT2-10.
6. In positioning applications, use 2.0 SF

**Note:** DODGE D Series brakes are intended as holding brakes. Contact application engineering with inertia and application information for cycle rates exceeding 6 per minute.

### Brake Static Torque Ratings\* (Ft.-Lbs)

| Motor HP | Motor Speed (RPM) |     |      |      |      |      |      |      |
|----------|-------------------|-----|------|------|------|------|------|------|
|          | 750               | 900 | 1200 | 1500 | 1800 | 3000 | 3600 | 5000 |
| 1/4      | 3                 | 3   | 3    | 3    | 3    | 3    | 3    | 3    |
| 1/3      | 6                 | 3   | 3    | 3    | 3    | 3    | 3    | 3    |
| 1/2      | 6                 | 6   | 6    | 3    | 3    | 3    | 3    | 3    |
| 3/4      | 10                | 10  | 6    | 6    | 6    | 3    | 3    | 3    |
| 1        | 10                | 10  | 10   | 6    | 6    | 3    | 3    | 3    |
| 1-1/2    | 15                | 15  | 10   | 10   | 10   | 6    | 6    | 3    |
| 2        | 20                | 20  | 15   | 10   | 10   | 6    | 6    | 3    |
| 3        | 35                | 25  | 20   | 15   | 15   | 10   | 10   | 6    |
| 5        | 50                | 50  | 35   | 25   | 25   | 15   | 15   | 10   |
| 7-1/2    | -                 | -   | 50   | 50   | 35   | 20   | 20   | 15   |
| 10       | -                 | -   | -    | 50   | 50   | 35   | 25   | 15   |

\*Selections based on 1.4 service factor and increased to next highest standard brake torque rating.

Speed limit 5000 RPM maximum motor speed

|                                 |  |   |                                      |
|---------------------------------|--|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT2-2 | SPECIFICATION/HOW TO ORDER<br>PAGE PT2-3 | MODIFICATION/ACCESSORIES<br>PAGE PT2-10 | ENGINEERING/TECHNICAL<br>PAGE PT2-38 |
|---------------------------------|--|---|--------------------------------------|

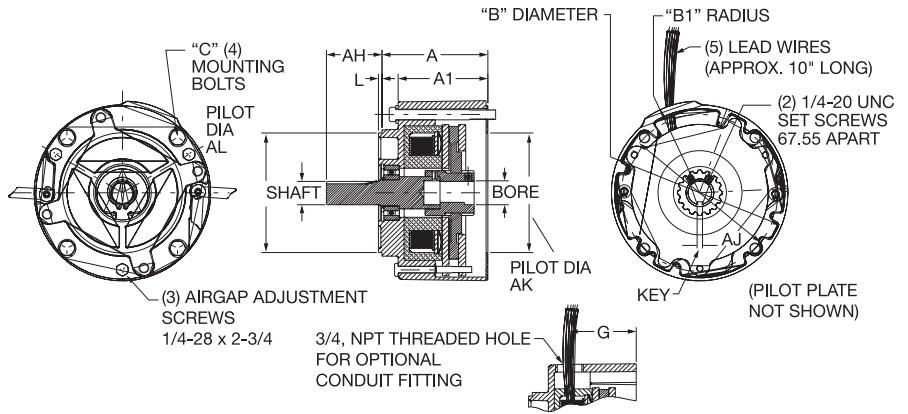


## SELECTION/DIMENSIONS

### Motor Brakes



**DBSS Model**



### Complete Unit Part Numbers

| Standard Enclosure | Unit Size --- Static Torque                         | Unit Size --- Static Torque |           |            |            |            |            |
|--------------------|---|-----------------------------|-----------|------------|------------|------------|------------|
|                    |   | 3 Ft- Lbs                   | 6 Ft- Lbs | 10 Ft- Lbs | 15 Ft- Lbs | 20 Ft- Lbs | 25 Ft- Lbs |
| DOUBLE C-FACE      | <b>DBSS Complete Units<br/>56 Frame, 5/8" Bore</b>  |                             |           |            |            |            |            |
|                    | 115/230 VAC 60 Hz (1)                               | 031369                      | 031411    | 031453     | 031342     | 031345     | 031348     |
|                    | 230/460 VAC 60 HZ (2)                               | 031371                      | 031413    | 031455     | 031343     | 031346     | 031349     |
|                    | 287/575 VAC 60 Hz (3)                               | 031373                      | 031415    | 031457     | 031344     | 031347     | 031350     |
|                    | 104/208 VAC 60 Hz (4)                               | 031088                      | 031100    | 031112     | 031124     | 031136     | 031148     |
|                    | 190/380 VAC 50 Hz (5)                               | 031089                      | 031101    | 031113     | 031125     | 031137     | 031149     |
|                    | 250/500 VAC 50 Hz                                   | 031090                      | 031102    | 031114     | 031126     | 031138     | 031150     |
|                    | 48 VDC  | 031091                      | 031103    | 031115     | 031127     | 031139     | 031151     |
|                    | 24 VDC  | 031092                      | 031104    | 031116     | 031128     | 031140     | 031152     |
|                    | 12 VDC  | 031093                      | 031105    | 031117     | 031129     | 031141     | 031153     |
|                    | <b>DBSS Complete Units<br/>140 Frame, 7/8" Bore</b> |                             |           |            |            |            |            |
|                    | 115/230 VAC 60 Hz (1)                               | 031375                      | 031417    | 031459     | 031495     | 031525     | 031555     |
|                    | 230/460 VAC 60 Hz (2)                               | 031377                      | 031419    | 031461     | 031497     | 031527     | 031557     |
|                    | 287/575 VAC 60 Hz (3)                               | 031379                      | 031421    | 031463     | 031499     | 031529     | 031559     |
|                    | 104/208 VAC 60 Hz (4)                               | 031094                      | 031106    | 031118     | 031130     | 031142     | 031154     |
|                    | 190/380 VAC 50 Hz (5)                               | 031095                      | 031107    | 031119     | 031131     | 031143     | 031155     |
|                    | 250/500 VAC 50 Hz                                   | 031096                      | 031108    | 031120     | 031132     | 031144     | 031156     |
|                    | 48 VDC  | 031097                      | 031109    | 031121     | 031133     | 031145     | 031157     |
|                    | 24 VDC  | 031098                      | 031110    | 031122     | 031134     | 031146     | 031158     |
|                    | 12 VDC  | 031099                      | 031111    | 031123     | 031135     | 031147     | 031159     |

#### NOTES:

Coil will operate at the following voltages:

- (1) 115/208-230 VAC 50 or 60 Hz, 133/265 VAC 60 Hz, 110-125 VDC
- (2) 208-230/460 VAC 50 or 60 Hz, 240/480 VAC 60 Hz, 220/440 VAC 50 Hz, 230 VDC

- (3) 287/575 VAC 60 Hz, 300/600 VAC 60 Hz
- (4) 104/208 VAC 50 or 60 Hz, 100/200 VAC 60 Hz, 90-95 VDC
- (5) 190/380 VAC 50 Hz, 200/400 VAC 60 Hz, 206/416 VAC 50 Hz

### Dimensions

#### Standard Enclosure Double C-Face Coupler

| Unit Size  | Inertia Friction Disc & Hub (Lb-In2) | Input Bore Output Shaft Dia. | Output Keyway & Input Key | A Max | A1 Nom | AK Pilot Dia. | AL Pilot Dia. | AH   | AJ   | B Dia. Max | B1 Radius Max. | C Mounting Bolts  | G    | L    | Shipping Weight (Lbs) |
|--|--------------------------------------|------------------------------|---------------------------|-------|--------|---------------|---------------|------|------|------------|----------------|---|------|------|-----------------------|
| 56DBSS-3<br>56DBSS-6<br>56DBSS-10<br>56DBSS-15<br>56DBSS-20<br>56DBSS-25       | 1.73                                 | 5/8"                         | 3/16 x 3/32               | 3.97  | 3.36   | 4.5           | 4.5           | 2.12 | 5.88 | 6.63       | 3.46           | 3/8 -16 UNC-2A (4) Equally Spaced on 5.875 Dia. Bolt Circle | 2.57 | 0.13 | 13.2                  |
| 140DBSS-3<br>140DBSS-6<br>140DBSS-10<br>140DBSS-15<br>140DBSS-20<br>140DBSS-25 | 1.74                                 | 7/8"                         | 3/16 x 3/32               | 3.97  | 3.36   | 4.5           | 4.5           | 2.12 | 5.88 | 6.63       | 3.46           | 3/8 -16 UNC-2A (4) Equally Spaced on 5.875 Dia. Bolt Circle | 2.57 | 0.13 | 13.3                  |

|                                 |  |   |                                      |
|---------------------------------|--|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT2-2 | SPECIFICATION/HOW TO ORDER<br>PAGE PT2-3 | MODIFICATION/ACCESSORIES<br>PAGE PT2-10 | ENGINEERING/TECHNICAL<br>PAGE PT2-38 |
|---------------------------------|--|---|--------------------------------------|

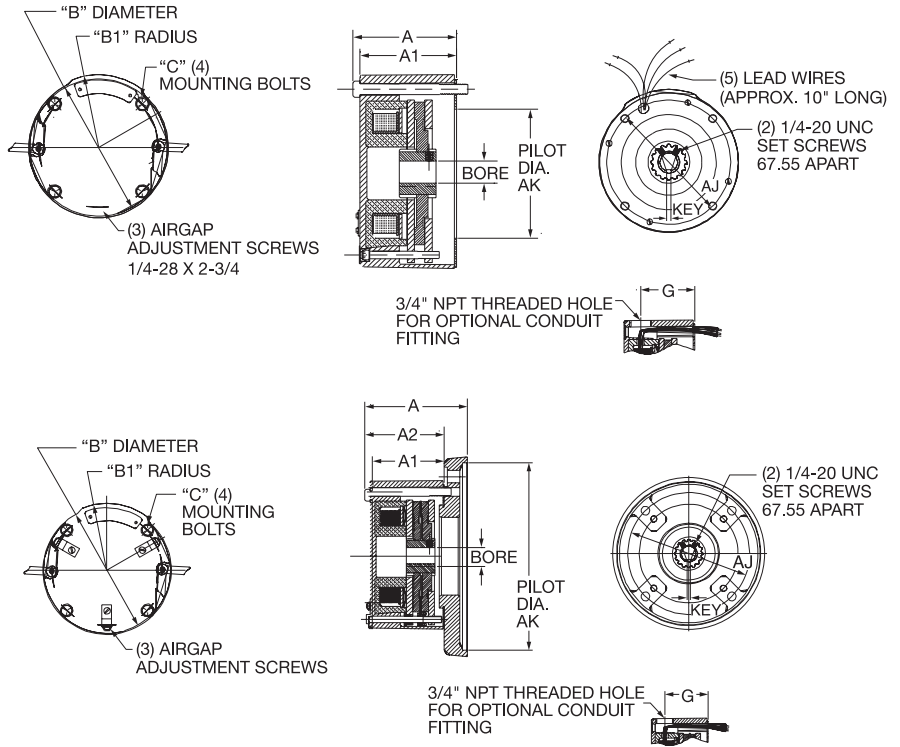


# SELECTION/DIMENSIONS

## Motor Brakes



**DBSC Model**



### Complete Unit Part Numbers

| Standard Enclosure           |                             | Unit Size-Static Torque |          |           |           |           |           |
|------------------------------|-----------------------------|-------------------------|----------|-----------|-----------|-----------|-----------|
|                              |                             | 3 Ft-Lbs                | 6 Ft-Lbs | 10 Ft-Lbs | 15 Ft-Lbs | 20 Ft-Lbs | 25 Ft-Lbs |
| C-FACE<br>(FAN END MOUNTING) | <b>DBSC Complete Units</b>  |                         |          |           |           |           |           |
|                              | <b>56 Frame, 5/8" Bore</b>  |                         |          |           |           |           |           |
|                              | 115/230 VAC 60 Hz (1)       | 031351                  | 031393   | 031435    | 031477    | 031507    | 031537    |
|                              | 230/460 VAC 60 HZ (2)       | 031353                  | 031395   | 031437    | 031479    | 031509    | 031539    |
|                              | 287/575 VAC 60 Hz (3)       | 031355                  | 031397   | 031439    | 031481    | 031511    | 031541    |
|                              | 104/208 VAC 60 Hz (4)       | 031000                  | 031015   | 031030    | 031043    | 031058    | 031073    |
|                              | 190/380 VAC 50 Hz (5)       | 031001                  | 031016   | 031031    | 031044    | 031059    | 031074    |
|                              | 250/500 VAC 50 Hz           | 031002                  | 031017   | 031032    | 031045    | 031060    | 031075    |
|                              | 48 VDC                      | 031003                  | 031018   | 031033    | 031046    | 031061    | 031076    |
|                              | 24 VDC                      | 031004                  | 031019   | 031034    | 031047    | 031062    | 031077    |
|                              | 12 VDC                      | 031005                  | 031020   | 031035    | 031048    | 031063    | 031078    |
|                              | <b>DBSC Complete Units</b>  |                         |          |           |           |           |           |
|                              | <b>140 Frame, 7/8" Bore</b> |                         |          |           |           |           |           |
|                              | 115/230 VAC 60 Hz (1)       | 031007                  | 031022   | 031037    | 031050    | 031065    | 031080    |
|                              | 230/460 VAC 60 HZ (2)       | 031009                  | 031024   | 031039    | 031052    | 031067    | 031082    |
|                              | 287/575 VAC 60 Hz (3)       | 031011                  | 031026   | 031041    | 031054    | 031069    | 031084    |
|                              | 104/208 VAC 60 Hz (4)       | 031006                  | 031021   | 031036    | 031049    | 031064    | 031079    |
|                              | 190/380 VAC 50 Hz (5)       | 031008                  | 031023   | 031038    | 031051    | 031066    | 031081    |
|                              | 250/500 VAC 50 Hz           | 031010                  | 031025   | 031040    | 031053    | 031068    | 031083    |
|                              | 48 VDC                      | 031012                  | 031027   | 031042    | 031055    | 031070    | 031085    |
| 24 VDC                       | 031013                      | 031028                  | 031160   | 031056    | 031071    | 031086    |           |
| 12 VDC                       | 031014                      | 031029                  | 031161   | 031057    | 031072    | 031087    |           |

**NOTES:**

- Coil will operate at the following voltages:
- (1) 115/208-230 VAC 50 or 60 Hz, 133/265 VAC 60 Hz, 110-125 VDC
  - (2) 208-230/460 VAC 50 or 60 Hz, 240/480 VAC 60 Hz, 220/440 VAC 50 Hz, 230 VDC
  - (3) 287/575 VAC 60 Hz, 300/600 VAC 60 Hz
  - (4) 104/208 VAC 50 or 60 Hz, 100/200 VAC 60 Hz, 90-95 VDC
  - (5) 190/380 VAC 50 Hz, 200/400 VAC 60 Hz, 206/416 VAC 50 Hz

|                                 |  |   |                                      |
|---------------------------------|--|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT2-2 | SPECIFICATION/HOW TO ORDER<br>PAGE PT2-3 | MODIFICATION/ACCESSORIES<br>PAGE PT2-10 | ENGINEERING/TECHNICAL<br>PAGE PT2-38 |
|---------------------------------|--|---|--------------------------------------|



# SELECTION/DIMENSIONS

## Complete Unit Part Numbers (Continued)

|                              | Standard Enclosure                                      | Unit Size-Static Torque |           |           |           |           |           |          |
|------------------------------|---|-------------------------|-----------|-----------|-----------|-----------|-----------|----------|
|                              |   | 6 Ft-Lbs                | 10 Ft-Lbs | 15 Ft-Lbs | 20 Ft-Lbs | 25 Ft-Lbs | 35 Ft-Lbs | 50 Ft-Lb |
| C-FACE<br>(FAN END MOUNTING) | <b>180 Frame, 1-1/8" Bore<br/>8-1/2" Pilot Diameter</b> |                         |           |           |           |           |           |          |
|                              | 115/230 VAC 60 Hz (1)                                   | 027023                  | 027032    | 027041    | 027050    | 027059    | 027068    | 027077   |
|                              | 230/460 VAC 60 Hz (2)                                   | 027024                  | 027033    | 027042    | 027051    | 027060    | 027069    | 027078   |
|                              | 287/575 VAC 60 Hz (3)                                   | 027025                  | 027034    | 027043    | 027052    | 027061    | 027070    | 027079   |
|                              | 104/208 VAC 60 Hz (4)                                   | 027026                  | 027035    | 027044    | 027053    | 027062    | 027071    | 027080   |
|                              | 190/380 VAC 50 Hz (5)                                   | 027027                  | 027036    | 027045    | 027054    | 027063    | 027072    | 027081   |
|                              | 250/500 VAC 50 Hz                                       | 027028                  | 027037    | 027046    | 027055    | 027064    | 027073    | 027082   |
|                              | 48 VDC  | 027029                  | 027038    | 027047    | 027056    | 027065    | 027074    | 027083   |
|                              | 24 VDC  | 027030                  | 027039    | 027048    | 027057    | 027066    | 027075    | 027084   |
|                              | 12 VDC  | 027031                  | 027040    | 027049    | 027058    | 027067    | 027076    | 027085   |

### NOTES:

Coil will operate at the following voltages:

(1) 115/208-230 VAC 50 or 60 Hz, 133/265 VAC 60 Hz, 110-125 VDC

(2) 208-230/460 VAC 50 or 60 Hz, 240/480 VAC 60 Hz, 220/440 VAC 50 Hz, 230 VDC

(3) 287/575 VAC 60 Hz, 300/600 VAC 60 Hz

(4) 104/208 VAC 50 or 60 Hz, 100/200 VAC 60 Hz, 90-95 VDC

(5) 190/380 VAC 50 Hz, 200/400 VAC 60 Hz, 206/416 VAC 50 Hz

## Dimensions

### Standard Enclosure Single C-face (Fan End Mounting)

| Unit Size (Lb-In2)   | Inertia Friction Disc & Hub | Input Bore | Key         | A Max | A1 Nom | AJ   | AK Pilot Dia. | B Dia. Max. | B1 Radius Max | C Mounting Bolts  | G    | Shipping Weight (Lbs) |
|--|-----------------------------|------------|-------------|-------|--------|------|---------------|-------------|---------------|---|------|-----------------------|
| 56DBSC-3<br>56DBSC-6<br>56DBSC-10<br>56DBSC-15<br>56DBSC-20<br>56DBSC-25       | 1.52                        | 5/8"       | 3/16 x 3/32 | 3.74  | 3.36   | 5.88 | 4.5           | 6.63        | 3.46          | 3/8 - 16 UNC-2A (4) Equally Spaced on 5.875" Dia. Bolt Circle | 2.57 | 11.7                  |
| 140DBSC-3<br>140DBSC-6<br>140DBSC-10<br>140DBSC-15<br>140DBSC-20<br>140DBSC-25 | 1.51                        | 7/8"       | 3/16 x 3/32 | 3.74  | 3.36   | 5.88 | 4.5           | 6.63        | 3.46          |   | 2.57 | 11.8                  |

| Unit Size (6)  | Inertia Friction Disc & Hub (7) (Lb-In2) | Input Bore | Key         | A Max | A1 Nom | A2   | AJ   | AK Pilot Dia. | B Dia. Max. | B1 Radius Max. | C Mounting Bolts  | G    | Shipping Weight (Lbs) |
|--|--|------------|-------------|-------|--------|------|------|---------------|-------------|----------------|---|------|-----------------------|
| 180DBSC-6*<br>180DBSC-10*<br>180DBSC-15*<br>180DBSC-20*<br>180DBSC-25*<br>180DBSC-35<br>180DBSC-50 | 1.51                                     | 1-1/8"     | 1/4" X 1/8" | 4.78  | 3.36   | 3.74 | 7.25 | 8.5           | 6.63        | 3.46           | 3/8 - 16 UNC-2A (4) Equally Spaced on 5.875" Dia. Bolt Circle | 2.57 | 20.6                  |

(6) 140 Sizes do not require an adapter plate.

(7) Inertia for single-disc units.

\*These sizes employ one friction disc.

|                                 |  |   |                                      |
|---------------------------------|--|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT2-2 | SPECIFICATION/HOW TO ORDER<br>PAGE PT2-3 | MODIFICATION/ACCESSORIES<br>PAGE PT2-10 | ENGINEERING/TECHNICAL<br>PAGE PT2-38 |
|---------------------------------|--|---|--------------------------------------|



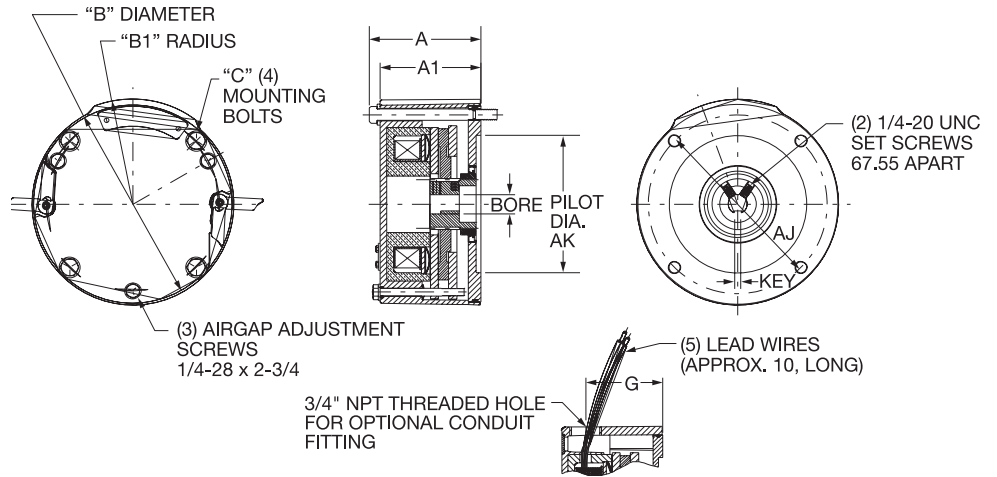


# SELECTION/DIMENSIONS

## Motor Brakes



**DBEC Model**



### Complete Unit Part Numbers

| E-Z KLEEN Enclosure          |   | Unit Size-Static Torque |           |            |            |            |            |
|------------------------------|---|-------------------------|-----------|------------|------------|------------|------------|
|                              |   | 3 Ft- Lbs               | 6 Ft- Lbs | 10 Ft- Lbs | 15 Ft- Lbs | 20 Ft- Lbs | 25 Ft- Lbs |
| C-FACE<br>(FAN END MOUNTING) | <b>DBEC Complete Units</b><br><b>56 Frame, 5/8" Bore</b>  |                         |           |            |            |            |            |
|                              | 115/230 VAC 60 Hz (1)                                     | 031910                  | 031913    | 031915     | 031918     | 031921     | 031924     |
|                              | 230/460 VAC 60 Hz (2)                                     | 031716                  | 031718    | 031916     | 031919     | 031922     | 031925     |
|                              | 287/575 VAC 60 Hz (3)                                     | 031911                  | 031914    | 031917     | 031920     | 031923     | 031926     |
|                              | <b>DBEC Complete Units</b><br><b>140 Frame, 7/8" Bore</b> |                         |           |            |            |            |            |
|                              | 115/230 VAC 60 Hz (1)                                     | 029436                  | 029439    | 029442     | 029445     | 029448     | 029451     |
| 230/460 VAC 60 Hz (2)        | 029437  | 029440                  | 029443    | 029446     | 029449     | 029452     |            |
| 287/575 VAC 60 Hz (3)        | 029438  | 029441                  | 029444    | 029447     | 029450     | 029453     |            |

**NOTES:**

Coil will operate at the following voltages:

- (1) 115/208-230 VAC 50 or 60 Hz, 133/265 VAC 60 Hz, 110-125 VDC
- (2) 208-230/460 VAC 50 or 60 Hz, 240/480 VAC 60 Hz, 220/440 VAC 50 Hz, 230 VDC
- (3) 287/575 VAC 60 Hz, 300/600 VAC 60 Hz

### Dimensions

#### E-Z KLEEN Single C- Face (Fan End Mounting)

| Unit Size  | Inertia Friction Disc & Hub (Lb-In <sup>2</sup> ) | Input Bore | Key         | A Max | A1 Nom | AJ   | AK Pilot Dia. | B Dia. Max | B1 Radius Max. | C Mounting Bolts  | G    | Shipping Weight (Lbs) |
|--|---|------------|-------------|-------|--------|------|---------------|------------|----------------|---|------|-----------------------|
| 56DBEC-3<br>56DBEC-6<br>56DBEC-10<br>56DBEC-15<br>56DBEC-20<br>56DBEC-25       | 1.52  | 5/8"       | 3/16 x 3/32 | 3.74  | 3.36   | 5.88 | 4.5           | 6.63       | 3.46           | 3/8 - 16 UNC-2A (4) Equally Spaced on 5.875" Dia. Bolt Circle | 2.57 | 14.4                  |
| 140DBEC-3<br>140DBEC-6<br>140DBEC-10<br>140DBEC-15<br>140DBEC-20<br>140DBEC-25 | 1.51  | 7/8"       | 3/16 x 3/32 | 3.74  | 3.36   | 5.88 | 4.5           | 6.63       | 3.46           | 3/8 - 16 UNC-2A (4) Equally Spaced on 5.875" Dia. Bolt Circle | 2.57 | 14.5                  |

|                                 |  |   |                                      |
|---------------------------------|--|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT2-2 | SPECIFICATION/HOW TO ORDER<br>PAGE PT2-3 | MODIFICATION/ACCESSORIES<br>PAGE PT2-10 | ENGINEERING/TECHNICAL<br>PAGE PT2-38 |
|---------------------------------|--|---|--------------------------------------|

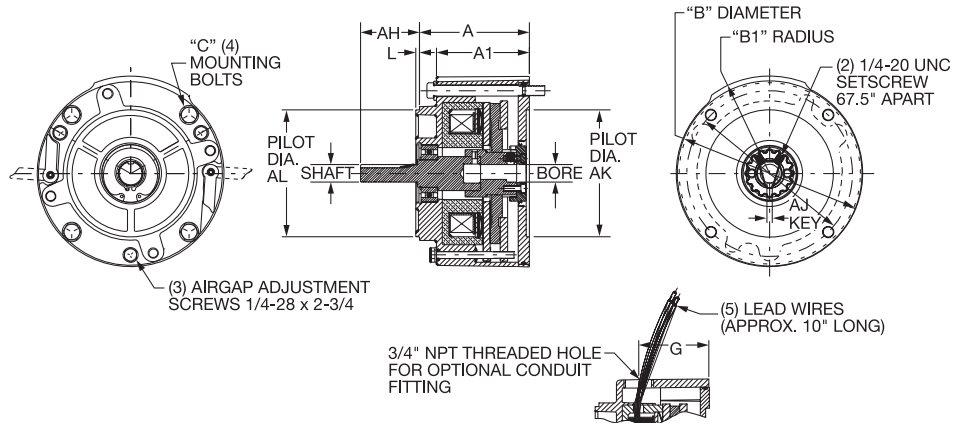


## SELECTION/DIMENSIONS

### Motor Brakes



**DBES Model**



### Complete Unit Part Numbers

| E-Z KLEEN Enclosure   |   | Unit Size-Static Torque |           |            |            |            |            |
|-----------------------|---|-------------------------|-----------|------------|------------|------------|------------|
|                       |   | 3 Ft- Lbs               | 6 Ft- Lbs | 10 Ft- Lbs | 15 Ft- Lbs | 20 Ft- Lbs | 25 Ft- Lbs |
| DOUBLE C-FACE         | <b>DBES Complete Units<br/>56 Frame, 5/8" Bore</b>  |                         |           |            |            |            |            |
|                       | 115/230 VAC 60 Hz (1)                               | 030381                  | 030384    | 030387     | 030390     | 030393     | 030396     |
|                       | 230/460 VAC 60 HZ (2)                               | 030382                  | 030385    | 030388     | 030391     | 030394     | 030397     |
|                       | 287/575 VAC 60 Hz (3)                               | 030383                  | 030386    | 030389     | 030392     | 030395     | 030398     |
|                       | <b>DBES Complete Units<br/>140 Frame, 7/8" Bore</b> |                         |           |            |            |            |            |
|                       | 115/230 VAC 60 Hz (1)                               | 029400                  | 029403    | 029406     | 029409     | 029412     | 029415     |
| 230/460 VAC 60 HZ (2) | 029401  | 029404                  | 029407    | 029410     | 029413     | 029416     |            |
| 287/575 VAC 60 Hz (3) | 029402  | 029405                  | 029408    | 029411     | 029414     | 029417     |            |

**NOTES:**

Coil will operate at the following voltages:

- (1) 115/208-230 VAC 50 or 60 Hz, 133/265 VAC 60 Hz, 110-125 VDC
- (2) 208-230/460 VAC 50 or 60 HZ, 240/480 VAC 60 Hz, 220/440 VAC 50 Hz, 230 VDC
- (3) 287/575 VAC 60 Hz, 275/550 VAC 60 Hz, 300/600 VAC 60 Hz

### Dimensions

#### E-Z KLEEN Double C-Face Coupler

| Unit Size  | Inertia Friction Disc & Hub (Lb-In <sup>2</sup> ) | Input Bore & Output Shaft Dia. | Output Keyway & Input Key | A Max | A1 Nom | AK Pilot Dia. | AL Pilot Dia. | AH   | AJ   | B Dia Max. | B1 Radius Max | C Mounting Bolts  | G    | L    | Shipping Weight (Lbs) |
|--|---|--------------------------------|---------------------------|-------|--------|---------------|---------------|------|------|------------|---------------|---|------|------|-----------------------|
| 56DBES-3<br>56DBES-6<br>56DBES-10<br>56DBES-15<br>56DBES-20<br>56DBES-25       | 1.73  | 5/8"                           | 3/16 x 3/32               | 3.97  | 3.36   | 4.5           | 4.5           | 2.12 | 5.88 | 6.63       | 3.46          | 3/8-16 UNC-2A (4) Equally Spaced on 5.875" Dia. Bolt Circle | 2.57 | 0.13 | 14.4                  |
| 140DBES-3<br>140DBES-6<br>140DBES-10<br>140DBES-15<br>140DBES-20<br>140DBES-25 | 1.74  | 7/8"                           | 3/16 x 3/32               | 3.97  | 3.36   | 4.5           | 4.5           | 2.12 | 5.88 | 6.63       | 3.46          | 3/8-16 UNC-2A (4) Equally Spaced on 5.875" Dia. Bolt Circle | 2.57 | 0.13 | 14.5                  |

|                                 |  |   |                                      |
|---------------------------------|--|---|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT2-2 | SPECIFICATION/HOW TO ORDER<br>PAGE PT2-3 | MODIFICATION/ACCESSORIES<br>PAGE PT2-10 | ENGINEERING/TECHNICAL<br>PAGE PT2-38 |
|---------------------------------|--|---|--------------------------------------|



## Motor Brakes

### Fast Response Kits

In positioning applications, use of a fast response kit allows you to obtain stop times equivalent to AC voltage brakes while continuing to get all of the benefits associated with DC voltage brakes:

- Low power draw = less energy consumption
- Constant current creates smooth operation
- Lower coil temperature during cycling applications
- Quieter operation

The kit has two wiring configurations:

- Wired to brake and motor
- Wired to brake and isolated AC line

### Part Number

| Description                   | Part Number |
|-------------------------------|-------------|
| Fast Response Kit 115/230V    | 031386      |
| Fast Response Kit 230/460V    | 031389      |
| FRK w/ Conduit Cover 115/230V | 031424      |
| FRK w/ Conduit Cover 230/460V | 031425      |
| Fast Response Kit 190/380V    | 032552      |
| Fast Response Kit 287/575V    | 032525      |
| Fast Response Kit 575V        | 032531      |

### Replacement Rectifier Kit

DODGE D-Series Motor Brakes come with an internal rectifier allowing operation on either AC or DC voltage. A “one size fits all” replacement rectifier is available, in the event a new rectifier is needed. The kit wires external to the brake housing.

### Part Number

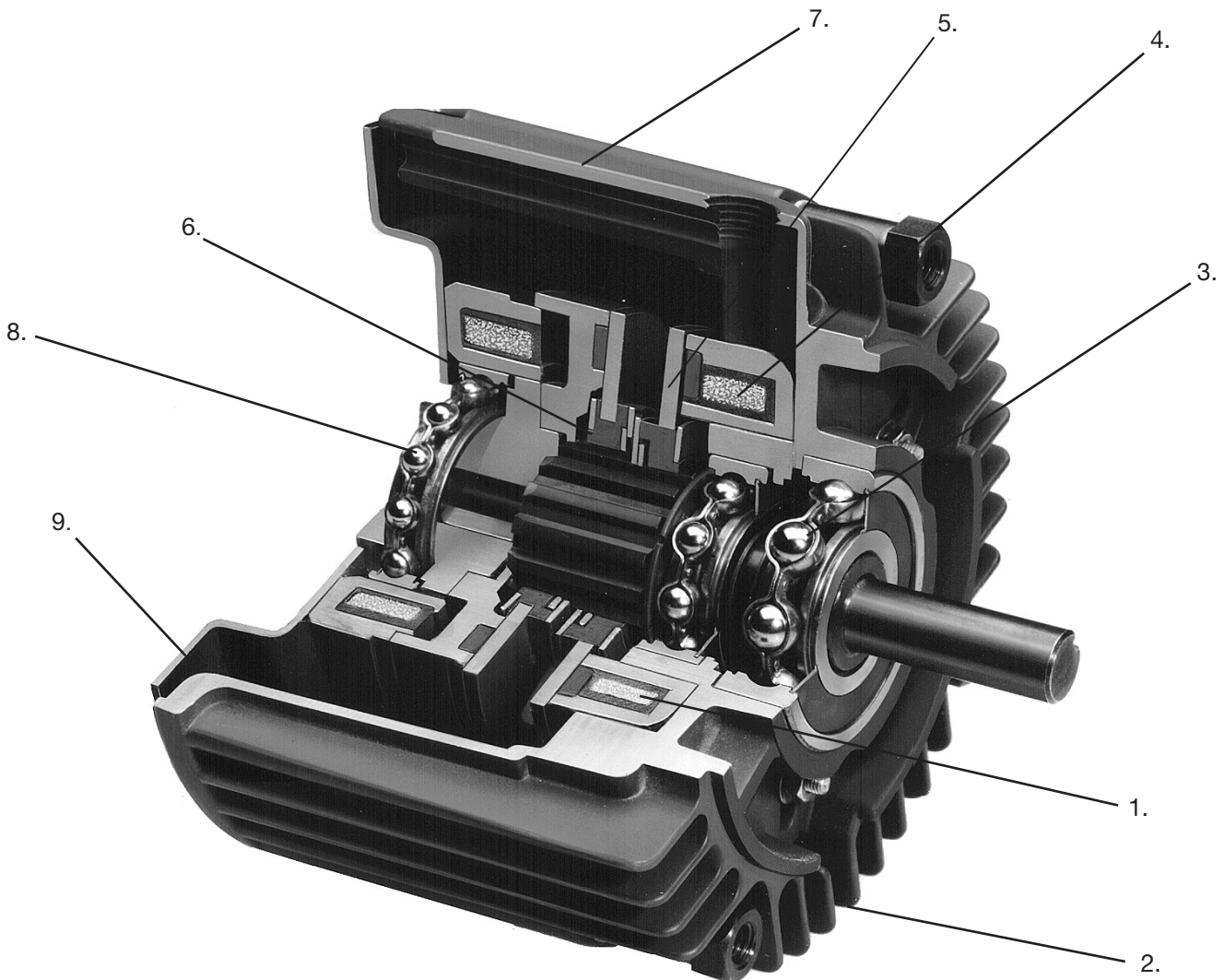
| Description                     | Part Number |
|---------------------------------|-------------|
| DBSC/DBSS Replacement Rectifier | 024018      |



## FEATURES/BENEFITS

### Clutch/Brakes Modules

1. Conforms to UL and C-UL requirements.
2. One-piece, die-cast housing simplifies mounting. Housing is finned for maximum heat dissipation.
3. Pre-lubricated and sealed ball bearings have higher B10 life rating than competitive modules.
4. High torque, non-asbestos friction material assures long life and environmental safety.
5. Armatures incorporate a high impact, high temp molded spline for heavy torque and high cycle capabilities. (Patent # 4,760,898)
6. DYNA-GAP automatic air gap mechanism automatically compensates for friction surface wear.
7. Modules are factory assembled, adjusted and burnished for easy installation and out-of-the-box operation.
8. Rotor incorporates ball bearing and Driv-Lok key for foolproof installation.
9. Standard NEMA C-face and Base Mounted, Shaft-in/ Shaft-out mounting configurations.





## CLUTCH/BRAKE MODULES

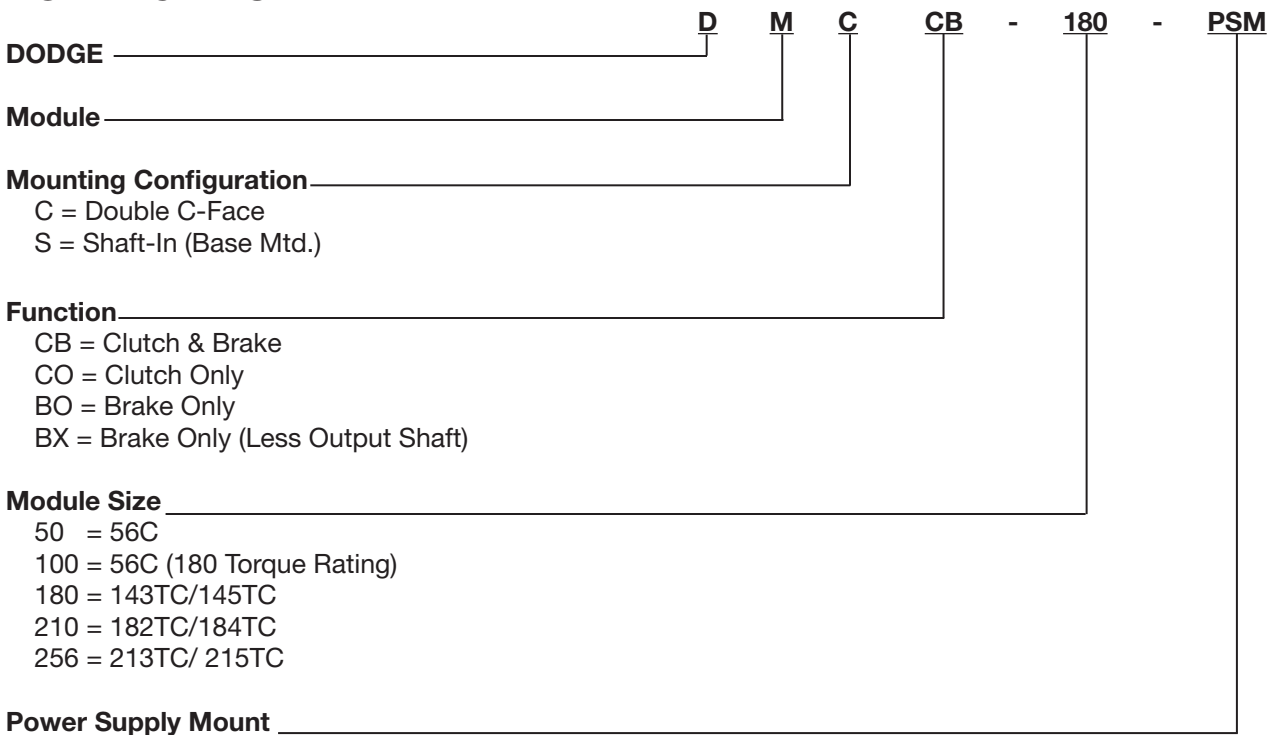
### SPECIFICATION

Clutch/Brake Modules mount directly to NEMA C-face motors and reducers or can be used with separate base mount frames. These modules are completely factory assembled, tested, and pre-burnished for easy installation and long maintenance free operation. The units are designed with large ball-bearings to provide greater over-hung load capacity and longer life. They use larger armatures for high torque transmission.

### HOW TO ORDER

Clutch/Brake Modules are ordered by specifying the type of unit, size and voltage. Part numbers are found on the selection pages for each type of unit. Refer to the part number when ordering.

### NOMENCLATURE



PT Component  
Quick References

Couplings

Clutches and Brakes

FLEXIDYNE

Fluid Couplings

TORQUE-TAMER

Bushings

|                                  |   |                                     |                                      |
|----------------------------------|---|-------------------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT2-11 | SPECIFICATION/HOW TO ORDER<br>PAGE PT2-12 | SELECTION/DIMENSIONS<br>PAGE PT2-13 | ENGINEERING/TECHNICAL<br>PAGE PT2-38 |
|----------------------------------|---|-------------------------------------|--------------------------------------|



## Clutch/Brake Modules SELECTION

### DMC Selection by NEMA Frame Size

| Frame Size  | Module Size   |
|-------------|---------------|
| 56C         | DMC-50, 100 ◆ |
| 143TC/145TC | DMC-180       |
| 182TC/184TC | DMC-210       |
| 213TC/215TC | DMC-256       |

◆ DMC 100 module has rating of 180 module with 56C (5/8") shafts

### Selection Procedure

- (1) Determine the frame size, horsepower and speed at the module location (motor speed for DMC Series).
- (2) Choose proper module size based on motor frame size for DMC Series or motor HP and operating speed for DMS Series.
- (3) Check to ensure the max allowable cycles per minute rating is not exceeded by consulting charts in the engineering/technical section. Consult DODGE Engineering when allowable cycle rate is exceeded.

### DMS Series Selection

| HP    | Shaft Speed at Module (RPM) |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |     |
|-------|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|-----|
|       | 100                         | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1500 | 1800 | 2000 | 2400 | 3000 | 3600 |     |
| 1/4   | 210                         | 180 | 180 | 180 | 50  | 50  | 50  | 50  | 50  | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50  |
| 1/2   | 210                         | 210 | 180 | 180 | 180 | 180 | 180 | 180 | 50  | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50  |
| 3/4   |                             | 210 | 210 | 210 | 180 | 180 | 180 | 180 | 180 | 180  | 180  | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50  |
| 1     |                             | 210 | 210 | 210 | 210 | 210 | 180 | 180 | 180 | 180  | 180  | 180  | 180  | 50   | 50   | 50   | 50   | 50   | 50  |
| 1-1/2 |                             |     | 210 | 210 | 210 | 210 | 210 | 210 | 210 | 210  | 180  | 180  | 180  | 180  | 180  | 180  | 180  | 180  | 180 |
| 2     |                             |     |     | 210 | 210 | 210 | 210 | 210 | 210 | 210  | 210  | 210  | 210  | 180  | 180  | 180  | 180  | 180  | 180 |
| 3     |                             |     |     |     | 210 | 210 | 210 | 210 | 210 | 210  | 210  | 210  | 210  | 210  | 210  | 210  | 180  | 180  | 180 |
| 5     |                             |     |     |     |     |     |     |     | 256 | 256  | 256  | 210  | 210  | 210  | 210  | 210  | 210  | 210  | 210 |
| 7-1/2 |                             |     |     |     |     |     |     |     |     |      |      |      | 256  | 210  | 210  | 210  | 210  | 210  | 210 |
| 10    |                             |     |     |     |     |     |     |     |     |      |      |      |      | 256  | 256  | 256  | 256  | 256  | 256 |
| 15    |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      | 256  | 256  | 256 |

**NOTE:** 256 modules may be selected as an alternate to the 210 size. Check shaft diameter for proper drive components

# SELECTION/DIMENSIONS

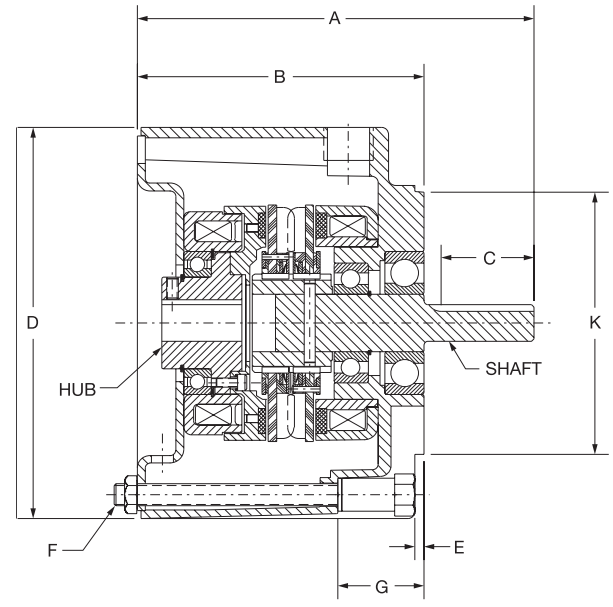


## Clutch/Brake Modules



### DMCCB & DMCCO

DMCCB modules are ideal for rapid cycling applications. They can be mounted directly between a C-face motor and reducer. Five standard sizes are available in 90, 24 or 6 VDC input voltage. The brake is power on. The DMCCO mounts and operates in a manner similar to DMCCB, but as a clutch only. The clutch ratings and external dimensions of both units are the same and are completely factory preassembled, adjusted, burnished and dynamically tested.



**Clutch/Brake Module  
(Clutch Only - Same Dimensions)**

| Part Numbers             |           | Static Torque<br>(Lb. - Ft.) | Coil Voltage  |               |               |
|--------------------------|-----------|------------------------------|---------------|---------------|---------------|
|                          |           |                              | 90 VDC        | 24 VDC        | 6 VDC         |
| C-Face<br>Clutch & Brake | DMCCB-50  | 22                           | <b>028765</b> | <b>028763</b> | <b>028761</b> |
|                          | DMCCB-100 | 34                           | <b>028770</b> | <b>028768</b> | <b>028766</b> |
|                          | DMCCB-180 | 34                           | <b>028775</b> | <b>028773</b> | <b>028771</b> |
|                          | DMCCB-210 | 100                          | <b>028780</b> | <b>028778</b> | <b>028776</b> |
|                          | DMCCB-256 | 100                          | <b>028785</b> | <b>028783</b> | <b>028781</b> |
| C-Face<br>Clutch Only    | DMCCO-50  | 22                           | <b>028855</b> | <b>028853</b> | <b>028851</b> |
|                          | DMCCO-100 | 34                           | <b>028860</b> | <b>028858</b> | <b>028856</b> |
|                          | DMCCO-180 | 34                           | <b>028865</b> | <b>028863</b> | <b>028861</b> |
|                          | DMCCO-210 | 100                          | <b>028870</b> | <b>028868</b> | <b>028866</b> |
|                          | DMCCO-256 | 100                          | <b>028875</b> | <b>028873</b> | <b>028871</b> |

| Size | Static Torque<br>(Lb.-Ft.) | C-Face Frame          | Input Hub Dia | Output Shaft Dia | Keyway      | A Max | B    | C    | D Max | E Max | F  | G*   | K    |
|------|----------------------------|-----------------------|---------------|------------------|-------------|-------|------|------|-------|-------|--|------|------|
| 50   | 22                         | 56C                   | 5/8           | 5/8              | 3/16 x 3/32 | 6.75  | 4.84 | 1.59 | 6.75  | .16   | 4 Equally Spaced<br>3/8-16 UNC<br>on 5.875"<br>Dia. B.C. | 1.30 | 4.50 |
| 100  | 34                         | 56C                   | 5/8           | 5/8              | 3/16 x 3/32 | 6.75  | 4.84 | 1.59 | 6.75  | .16   |  | 1.30 | 4.50 |
| 180  | 34                         | 143TC<br>and<br>145TC | 7/8           | 7/8              | 3/16 x 3/32 | 6.75  | 4.84 | 1.59 | 6.75  | .16   | 4 Equally Spaced<br>1/2-13 UNC<br>on 7.25"<br>Dia. B.C.  | 1.30 | 4.50 |
| 210  | 100                        | 182TC<br>and<br>184TC | 1-1/8         | 1-1/8            | 1/4 x 1/8   | 8.83  | 6.20 | 2.00 | 9.05  | .27   |  | 1.57 | 8.50 |
| 256  | 100                        | 213TC<br>and<br>215TC | 1-3/8         | 1-3/8            | 5/16 x 5/32 | 9.32  | 6.20 | 2.50 | 9.05  | .27   | 1.57   | 8.50 |      |

\* G Dimension = Electrical Connection

|                                  |   |                                     |                                      |
|----------------------------------|---|-------------------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT2-11 | SPECIFICATION/HOW TO ORDER<br>PAGE PT2-12 | SELECTION/DIMENSIONS<br>PAGE PT2-13 | ENGINEERING/TECHNICAL<br>PAGE PT2-38 |
|----------------------------------|---|-------------------------------------|--------------------------------------|

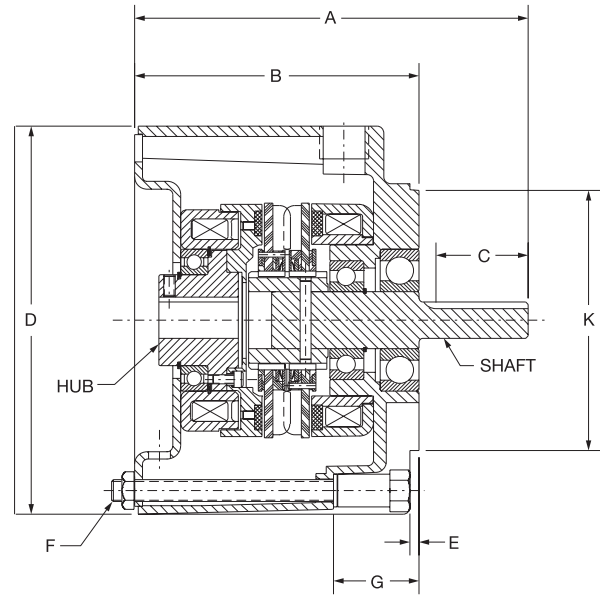




## Clutch/Brake Modules



**DMCCB-PSM**  
Power Supply Mounted †  
Clutch Brake Motor



| Part Number |               | Static Torque (Lb-Ft) | Coil Voltage |  |
|-------------|---------------|-----------------------|--------------|--|
|             |               |                       | 90 VDC       |  |
| C-Face      | DMCCB-50-PSM  | 22                    | 028977       |  |
| Clutch &    | DMCCB-180-PSM | 34                    | 028979       |  |
| Brake       | DMCCB-210-PSM | 100                   | 028981       |  |

| Size | Static Torque (Lb.-Ft.) | C-Face Frame          | Input Hub Dia | Output Shaft Dia | Keyway      | A Max | B    | C    | D Max | E Max | F  | G*    | K    |
|------|-------------------------|-----------------------|---------------|------------------|-------------|-------|------|------|-------|-------|--|-------|------|
| 50   | 22                      | 56C                   | 5/8           | 5/8              | 3/16 x 3/32 | 6.75  | 4.84 | 1.59 | 6.75  | .16   | 4 Equally Spaced<br>3/8-16 UNC<br>on 5.875"<br>Dia. B.C. | 1.30  | 4.50 |
| 180  | 34                      | 143TC<br>and<br>145TC | 7/8           | 7/8              | 3/16 x 3/32 | 6.75  | 4.84 | 1.59 | 6.75  | .16   |  | 1.30  | 4.50 |
| 210  | 100                     | 182TC<br>and<br>184TC | 1-1/8         | 1-1/8            | 1/4 x 1/8   | 8.83  | 6.20 | 2.00 | 9.05  | .27   | 4 Equally Spaced<br>1/2-13 UNC<br>on 7.25"<br>Dia. B.C.  | 1.570 | 8.50 |

\* G Dimension = Electrical Connection

† **NOTE:** Unit includes two model 50 power supplies (120 VAC input) part number 032408

|                                  |   |                                     |                                      |
|----------------------------------|---|-------------------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT2-11 | SPECIFICATION/HOW TO ORDER<br>PAGE PT2-12 | SELECTION/DIMENSIONS<br>PAGE PT2-13 | ENGINEERING/TECHNICAL<br>PAGE PT2-38 |
|----------------------------------|---|-------------------------------------|--------------------------------------|

# SELECTION/DIMENSIONS



## Clutch/Brake Modules

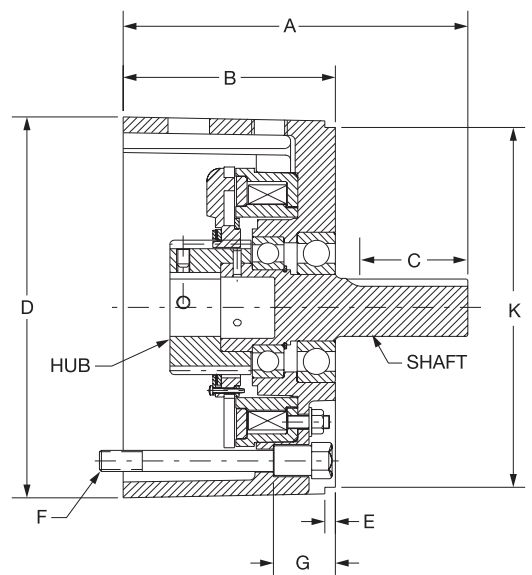


**DMCBO**



**DMCBX**

The DMCBO mounts and operates in a manner similar to DMCCB, but as a power-on brake only. Brake ratings are the same as the DMCCB. Dimensionally, the DMCBO is shorter axially from C-face to output shaft. The DMCBX power-on brake is designed to be mounted on a double shafted C-face motor. It is shorter axially than comparable power-off brakes and provides the advantages of C-face mounting in space restricted applications. Sizes and ratings are the same as the DMCBO brakes.



**Clutch/Brake Module  
(Clutch Only - Same Dimensions)**

| Part Numbers                 |           | Static Torque (Lb.-Ft.) | Coil Voltage  |               |               |
|------------------------------|-----------|-------------------------|---------------|---------------|---------------|
|                              |           |                         | 90 VDC        | 24 VDC        | 6 VDC         |
| C-Face Brake Only            | DMCBO-50  | 22                      | <b>028120</b> | <b>028123</b> | <b>028121</b> |
|                              | DMCBO-100 | 34                      | <b>028920</b> | <b>028923</b> | <b>028921</b> |
|                              | DMCBO-180 | 34                      | <b>028220</b> | <b>028223</b> | <b>028221</b> |
|                              | DMCBO-210 | 100                     | <b>028320</b> | <b>028323</b> | <b>028321</b> |
|                              | DMCBO-256 | 100                     | <b>028820</b> | <b>028823</b> | <b>028821</b> |
| C-Face Brake Only (No Shaft) | DMCBX-50  | 22                      | <b>028125</b> | <b>028128</b> | <b>028126</b> |
|                              | DMCBX-180 | 34                      | <b>028225</b> | <b>028228</b> | <b>028226</b> |
|                              | DMCBX-210 | 100                     | <b>028325</b> | <b>028328</b> | <b>028326</b> |
|                              | DMCBX-256 | 100                     | <b>028825</b> | <b>028828</b> | <b>028826</b> |

| Size      | Static Torque (Lb.-Ft.) | C-Face Frame Size | Hub Dia. | Output Shaft Dia. | Keyway    | A Max | B    | C    | D Max | E Max | F   | G*  | K    |      |
|-----------|-------------------------|-------------------|----------|-------------------|-----------|-------|------|------|-------|-------|---|---|------|------|
| DMCBO-50  | 22                      | 56C               | 5/8      | 5/8               | 3/16x3/32 | 5.18  | 3.28 | 1.59 | 6.75  | .16   | 4 Equally Spaced 3/8-16 UNC on 5.875" Dia. B.C. | 1.30  | 4.50 |      |
| DMCBX-50  | 22                      | 56C               | 5/8      | -                 | 3/16x3/32 | 3.30  | 3.28 | -    | 6.75  | .16   |   | 1.30  | 4.50 |      |
| DMCBO-100 | 34                      | 56C               | 5/8      | 5/8               | 3/16x3/32 | 5.18  | 3.28 | 1.59 | 6.75  | .16   | 4 Equally Spaced 3/8-16 UNC on 5.875" Dia. B.C. | 1.30  | 4.50 |      |
| DMCBO-180 |                         |                   |          | 7/8               |           | 5.18  |      | 1.59 |       |       |   |   |      |      |
| DMCBX-180 | -                       | 3.30              | -        |                   |           |       |      |      |       |       |   |   |      |      |
| DMCBO-210 | 100                     | 182TC and 184TC   | 1-1/8    | 1-1/8             | 1/4x1/8   | 7.65  | 5.02 | 2.00 | 9.00  | .27   |   | 4 Equally Spaced 1/2-13UNC on 7.25" Dia. B.C. | 1.57 | 8.50 |
| DMCBX-210 |                         |                   |          | -                 |           | 5.17  |      | -    |       |       |   |   |      |      |
| DMCBO-256 | 100                     | 213TC and 215TC   | 1-3/8    | 1-3/8             | 3/16x5/32 | 8.04  | 5.02 | 2.50 | 9.00  | .27   | 4 Equally Spaced 1/2-13UNC on 7.25" Dia. B.C.   |   | 1.57 | 8.50 |
| DMCBX-256 |                         |                   |          | -                 |           | 4.92  |      | -    |       |       |   |   |      |      |

\* G Dimension = Electrical Connection

|                                  |   |                                     |                                      |
|----------------------------------|---|-------------------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT2-11 | SPECIFICATION/HOW TO ORDER<br>PAGE PT2-12 | SELECTION/DIMENSIONS<br>PAGE PT2-13 | ENGINEERING/TECHNICAL<br>PAGE PT2-38 |
|----------------------------------|---|-------------------------------------|--------------------------------------|

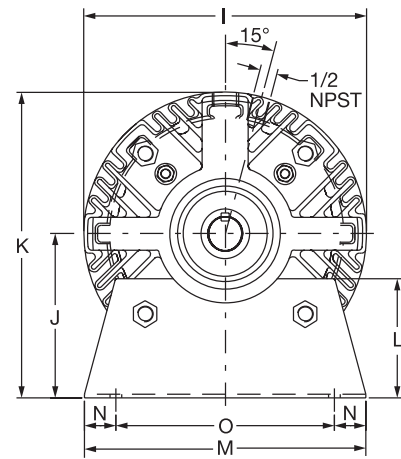
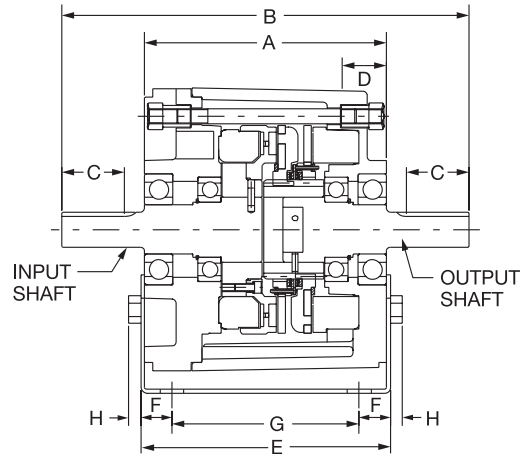


## Clutch/Brake Modules



### DMSCB & DMSCO

The DMSCB clutch/brake module is rated identically to the C-face version, but is mounted on a base with standard shaft input and output. It can be direct coupled or linked by belt drive to motor and driven equipment. The DMSCO mounts and operates in a manner similar to the DMSCB, but as a clutch only. Clutch ratings and dimensions of both units are identical.



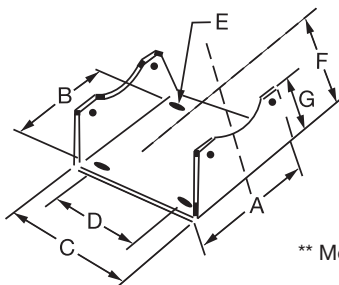
| Part Numbers   |           | Static Torque (Lb.-Ft.) | Coil Voltage  |               |               |
|----------------|-----------|-------------------------|---------------|---------------|---------------|
|                |           |                         | 90 VDC        | 24 VDC        | 6 VDC         |
| Base Mount     | DMSCB-50  | 22                      | <b>028130</b> | <b>028133</b> | <b>028131</b> |
| Clutch & Brake | DMSCB-180 | 34                      | <b>028230</b> | <b>028233</b> | <b>028231</b> |
|                | DMSCB-210 | 100                     | <b>028330</b> | <b>028333</b> | <b>028331</b> |
| Base Mount     | DMSCO-50  | 22                      | <b>028140</b> | <b>028143</b> | <b>028141</b> |
| Clutch         | DMSCO-180 | 34                      | <b>028240</b> | <b>028243</b> | <b>028241</b> |
| Only           | DMSCO-210 | 100                     | <b>028340</b> | <b>028343</b> | <b>028341</b> |

| Size | Static Torque (Lb.-Ft.) | Shaft Dia. | Keyway      | A    | B     | C Min | D*   | E    | F    | G | H    | I Max | J    | K    | L    | M | N    | O    |
|------|-------------------------|------------|-------------|------|-------|-------|------|------|------|---|------|-------|------|------|------|---|------|------|
| 50   | 22                      | 5/8        | 3/16 x 3/32 | 5.72 | 9.49  | 1.59  | 1.30 | 5.70 | 0.85 | 4 | 0.34 | 6.75  | 3.50 | 6.87 | 2.00 | 6 | 0.50 | 5.00 |
| 180  | 34                      | 7/8        |             |      | 9.49  | 1.59  |      |      |      |   |      |       | 4.50 | 7.87 | 3.00 |   |      |      |
| 210  | 100                     | 1-1/8      | 1/4 x 1/8   | 7.71 | 12.97 | 2.00  | 1.57 | 8.20 | 1.09 | 6 | 0.44 | 9.05  | 5.25 | 9.78 | 3.37 | 9 | 0.62 | 7.75 |

\* D Dimension - Electrical Connection

## DMS Series Module Bases

| Style       | Size     | Base Part Number |
|-------------|----------|------------------|
| Module Base | DM-50-B  | <b>028180</b>    |
|             | DM-180-B | <b>028280</b>    |
|             | DM-210-B | <b>028380</b>    |



\*\* Module base sold separately

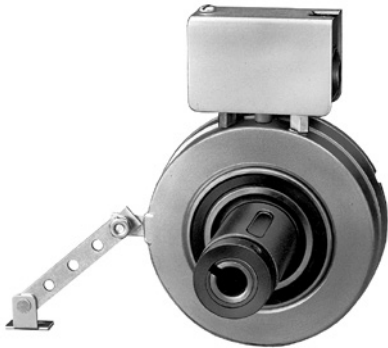
| Size     | A    | B    | C    | D Nom | E (Slot) | F    | G    |
|----------|------|------|------|-------|----------|------|------|
| DM-50-B  | 6.00 | 5.00 | 5.70 | 4.00  | .75 x.40 | 3.50 | 2.00 |
| DM-180-B | 6.00 | 5.00 | 5.70 | 4.00  | .75 x.40 | 4.50 | 3.00 |
| DM-210-B | 9.00 | 7.75 | 8.20 | 6.00  | .75 x.53 | 5.25 | 3.80 |



## FEATURES/BENEFITS

### Shaft Mounted Clutches & Brakes

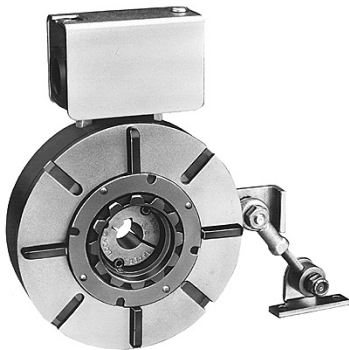
#### IEC SERIES - Shaft Mounted Clutches



DODGE IEC Electric Clutches are engineered to mount on standard motor shafts or thru shafts. These clutches are designed to accept standard sheaves, sprockets & gears. The product features include:

- **Mounting Flexibility**-Offered in bore sizes from 1/2" to 1-3/8"
- **Torque Range**-Rating from 22 lb-ft. to 175 lb-ft. handling from 1/50 to 7-1/2 HP @ 1800 RPM. Units are pre-burnished at the factory.
- **Easy Installation**-Sheaves, sprockets, gears or other standard power transmission components mount directly to the clutch hub.
- **Conduit Box** meets Industry Standards-C-UL-UL.
- **Long Life**-Minimal Maintenance-Integral splined armature and fan designed for maximum cooling.
- **DYNA-GAP**-Automatic Wear Compensation.
- **Maintenance**- Friction surfaces easily replaced.

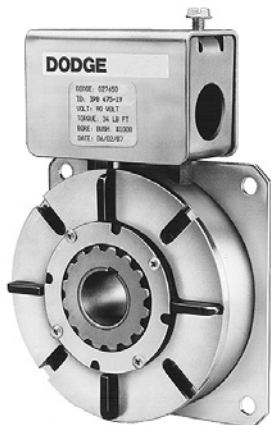
#### IEB SERIES - Shaft Mounted Power-On Brakes



DODGE IEB Electric Brakes are engineered to mount on standard motor shafts or thru shafts.

- **Mounting Flexibility**-Offered in bore sizes from 1/2" to 1-11/16"
- **Torque Range**-Rating from 22 lb-ft. to 175 lb-ft. handling from 3/4 to 20 HP @1800 RPM. Units are pre-assembled at the factory.
- **Conduit Box** meets Industry Standards-C-UL-UL.
- **Long Life**-Minimal Maintenance-Integral splined armature and fan designed for maximum cooling.
- **DYNA-GAP**-Automatic Wear Compensation

#### IPB SERIES - Flange Mounted Brakes



DODGE IPB Electric Brakes are equipped with flange for ease of mounting to any suitable mounting surface.

- **Mounting Flexibility**-Offered in bore sizes from 1/2" to 1-3/8"
- **Torque Range**-Rating from 22 lb-ft. to 100 lb-ft. handling from 3/4 HP to 10 HP@ 1800 RPM.
- **Conduit Box** meets Industry Standards-CUL-UL.
- **Long Life**-Minimal maintenance-Integral splined armature and fan designed for maximum cooling.
- **DYNA-GAP**-Automatic wear compensation.



## Shaft Mounted Clutches & Brakes

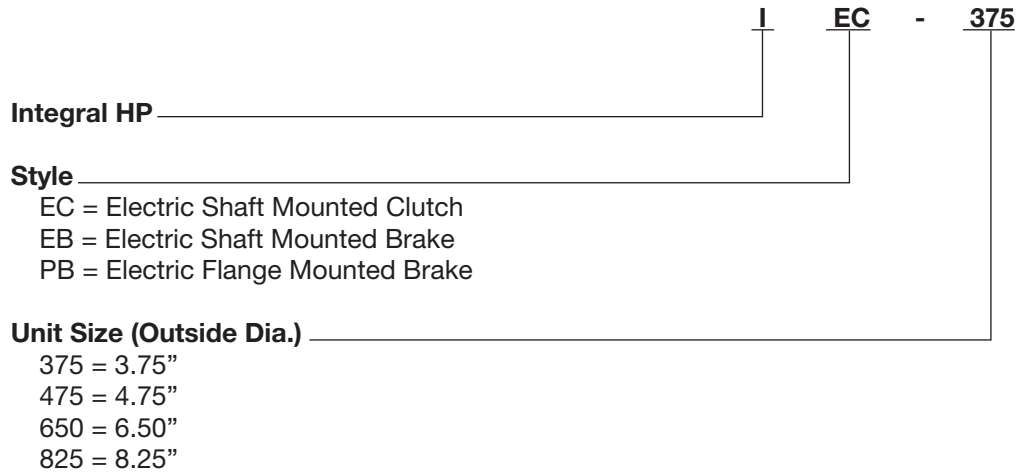
### SPECIFICATION

The Shaft Mounted Series of Clutches and Brakes are factory assembled, tested, and pre-burnished. They are engineered and ready to mount on standard motor shafts or thru shafts. The IPB brake is flange mounted on a bulkhead, suitable frame, or on the motor. They are long life and minimal maintenance with an integral splined armature with fan designed for maximum cooling.

### HOW TO ORDER

Shaft Mounted Clutches & Brakes are ordered by specifying the unit size, bore size (or bushing size if Taper-Lock), and voltage. Part numbers are found on the selection pages for each type of unit. Refer to the part number when ordering.

### NOMENCLATURE



# SPECIFICATION/HOW TO ORDER/NOMENCLATURE



## Shaft Mounted Clutches & Brakes

1. Determine the horsepower and the speed at the clutch or brake.
2. Choose proper size based on motor HP and operating speed.
3. Check to ensure the maximum allowable cycles per minute rating is not exceeded by consulting the charts in the Engineering/Technical section.

### IEC Series/RPM

| HP    | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000    | 1100 | 1200 | 1500 | 1800 | 2000 | 2400 | 3000 | 3600 | 4000 | 4500 | 5000 |  |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|------|------|------|------|------|------|------|------|------|------|------|--|
| 1/50  |     |     |     |     |     |     |     |     |     |         |      |      |      |      |      |      |      |      |      |      |      |  |
| 1/20  |     |     |     |     |     |     |     |     |     |         |      |      |      |      |      |      |      |      |      |      |      |  |
| 1/12  |     |     |     |     |     |     |     |     |     | IEC-375 |      |      |      |      |      |      |      |      |      |      |      |  |
| 1/8   |     |     |     |     |     |     |     |     |     |         |      |      |      |      |      |      |      |      |      |      |      |  |
| 1/6   |     |     |     |     |     |     |     |     |     |         |      |      |      |      |      |      |      |      |      |      |      |  |
| 1/4   |     |     |     |     |     |     |     |     |     |         |      |      |      |      |      |      |      |      |      |      |      |  |
| 1/2   |     |     |     |     |     |     |     |     |     |         |      |      |      |      |      |      |      |      |      |      |      |  |
| 3/4   |     |     |     |     |     |     |     |     |     | IEC-475 |      |      |      |      |      |      |      |      |      |      |      |  |
| 1     |     |     |     |     |     |     |     |     |     |         |      |      |      |      |      |      |      |      |      |      |      |  |
| 1-1/2 |     |     |     |     |     |     |     |     |     |         |      |      |      |      |      |      |      |      |      |      |      |  |
| 2     |     |     |     |     |     |     |     |     |     | IEC-650 |      |      |      |      |      |      |      |      |      |      |      |  |
| 3     |     |     |     |     |     |     |     |     |     |         |      |      |      |      |      |      |      |      |      |      |      |  |
| 5     |     |     |     |     |     |     |     |     |     | IEC-825 |      |      |      |      |      |      |      |      |      |      |      |  |
| 7-1/2 |     |     |     |     |     |     |     |     |     |         |      |      |      |      |      |      |      |      |      |      |      |  |

### IEB and IPB\* Series/RPM

| HP    | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000            | 1100 | 1200 | 1500 | 1800 | 2000 | 2400 | 3000 | 3600 | 4000 | 4500 | 5000 |  |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------|------|------|------|------|------|------|------|------|------|------|------|--|
| 1/12  |     |     |     |     |     |     |     |     |     |                 |      |      |      |      |      |      |      |      |      |      |      |  |
| 1/8   |     |     |     |     |     |     |     |     |     |                 |      |      |      |      |      |      |      |      |      |      |      |  |
| 1/6   |     |     |     |     |     |     |     |     |     |                 |      |      |      |      |      |      |      |      |      |      |      |  |
| 1/4   |     |     |     |     |     |     |     |     |     | IEB-375/IPB-375 |      |      |      |      |      |      |      |      |      |      |      |  |
| 1/3   |     |     |     |     |     |     |     |     |     |                 |      |      |      |      |      |      |      |      |      |      |      |  |
| 1/2   |     |     |     |     |     |     |     |     |     |                 |      |      |      |      |      |      |      |      |      |      |      |  |
| 3/4   |     |     |     |     |     |     |     |     |     |                 |      |      |      |      |      |      |      |      |      |      |      |  |
| 1     |     |     |     |     |     |     |     |     |     |                 |      |      |      |      |      |      |      |      |      |      |      |  |
| 1-1/2 |     |     |     |     |     |     |     |     |     | IEB-475/IPB-475 |      |      |      |      |      |      |      |      |      |      |      |  |
| 2     |     |     |     |     |     |     |     |     |     |                 |      |      |      |      |      |      |      |      |      |      |      |  |
| 3     |     |     |     |     |     |     |     |     |     | IEB-650/IPB-650 |      |      |      |      |      |      |      |      |      |      |      |  |
| 5     |     |     |     |     |     |     |     |     |     |                 |      |      |      |      |      |      |      |      |      |      |      |  |
| 7-1/2 |     |     |     |     |     |     |     |     |     | IEB-825*        |      |      |      |      |      |      |      |      |      |      |      |  |
| 10    |     |     |     |     |     |     |     |     |     |                 |      |      |      |      |      |      |      |      |      |      |      |  |
| 15    |     |     |     |     |     |     |     |     |     |                 |      |      |      |      |      |      |      |      |      |      |      |  |
| 20    |     |     |     |     |     |     |     |     |     |                 |      |      |      |      |      |      |      |      |      |      |      |  |
| 25    |     |     |     |     |     |     |     |     |     |                 |      |      |      |      |      |      |      |      |      |      |      |  |
| 30    |     |     |     |     |     |     |     |     |     |                 |      |      |      |      |      |      |      |      |      |      |      |  |
| 40    |     |     |     |     |     |     |     |     |     |                 |      |      |      |      |      |      |      |      |      |      |      |  |

\* IPB selection through size 650

PT Component  
Quick References

Couplings

Clutches and Brakes

FLEXIDYNE

Fluid Couplings

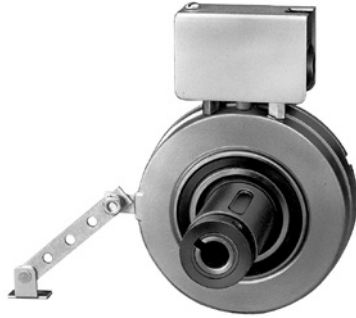
TORQUE-TAMER

Bushings

# SPECIFICATION/HOW TO ORDER/NOMENCLATURE

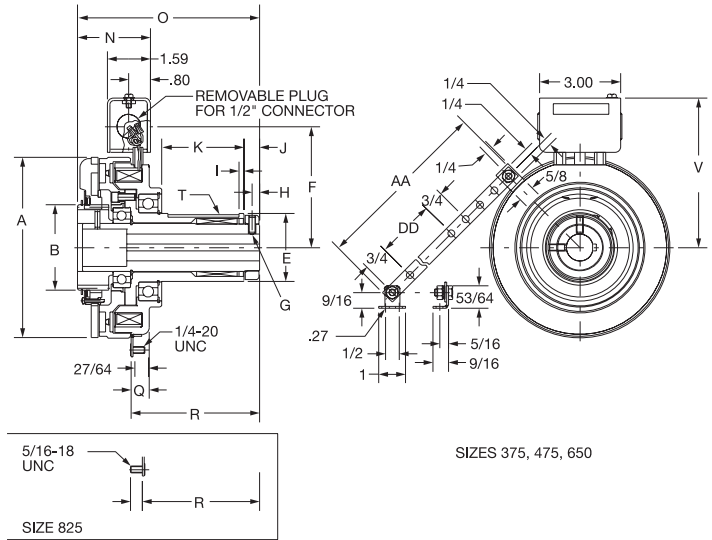


## Shaft Mounted Clutches & Brakes



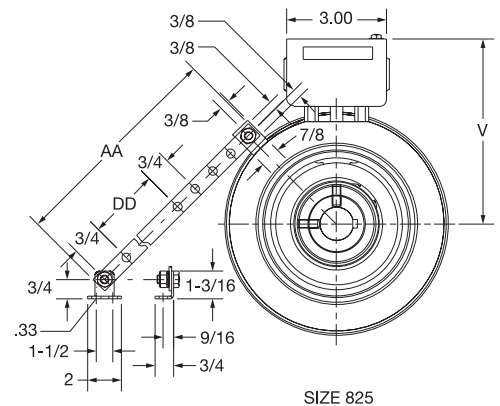
### IEC SERIES

IEC Series Shaft Mounted Clutches are factory assembled, tested, preburnished and ready to mount on standard motor shafts. Sheaves, sprockets, gears or other power transmission components can be mounted directly on the clutch hub extension with standard DODGE TAPER-LOCK® bushings.



### Part Numbers

| Unit Size | Voltage | Bore Size |        |        |        |        |         |         |         |
|-----------|---------|-----------|--------|--------|--------|--------|---------|---------|---------|
|           |         | 1/2"      | 5/8"   | 3/4"   | 7/8"   | 1      | 1- 1/8" | 1- 1/4" | 1- 3/8" |
| IEC-375   | 90 VDC  | 027500    | 027501 |        |        |        |         |         |         |
|           | 24 VDC  | 027506    | 027507 |        |        |        |         |         |         |
|           | 6 VDC   | 027502    | 027503 |        |        |        |         |         |         |
| IEC-475   | 90 VDC  |           | 027600 | 027601 | 027602 |        |         |         |         |
|           | 24 VDC  |           | 027609 | 027610 | 027611 |        |         |         |         |
|           | 6 VDC   |           | 027603 | 027604 | 027605 |        |         |         |         |
| IEC-650   | 90 VDC  |           |        |        |        | 027700 | 027701  | 027702  | 027703  |
|           | 24 VDC  |           |        |        |        | 027712 | 027713  | 027714  | 027715  |
|           | 6 VDC   |           |        |        |        | 027704 | 027705  | 027706  | 027707  |
| IEC-825   | 90 VDC  |           |        |        |        | 027806 | 027800  | 027801  | 027802  |
|           | 24 VDC  |           |        |        |        | 027812 | 027813  | 027814  | 027815  |
|           | 6 VDC   |           |        |        |        | 027807 | 027803  | 027804  | 027805  |



### IEC Series Dimensions

| Size    | Bore ±.001 | Keyway       | Static Torque Lb-Ft | A Max | B Max | E Dia  | F    | G Set Screw | H   | I   | J   | K    | N Max | O Max | Q   | R    | T Keyway   | V Max | W    | AA  | DD   |
|---------|------------|--------------|---------------------|-------|-------|--------|------|-------------|-----|-----|-----|------|-------|-------|-----|------|------------|-------|------|-----|------|
| IEC-375 | 1/2        | 1/8 x 1/16   | 22                  | 4.08  | 1.70  | 1.375  | 3.20 | #10-24      | .18 | .22 | .35 | 2.10 | 2     | 4.65  | .60 | 3    | 5/16x3/16* | 4.23  | 2.44 | 5   | 1.50 |
|         | 5/8        | 3/16 x 1/16* |                     |       |       | 1.3735 |      |             |     |     |     |      |       |       |     |      |            |       |      |     |      |
| IEC-475 | 5/8        | 3/16 x 3/32  | 34                  | 5.17  | 2.20  | 1.625  | 3.78 | 1/4-20      | .28 | .20 | .58 | 2.39 | 2.10  | 5.30  | .60 | 3.53 | 3/8x1/16*  | 4.98  | 2.98 | 5   | 1.50 |
|         | 3/4        | 3/16 x 3/32  |                     |       |       | 1.6235 |      |             |     |     |     |      |       |       |     |      |            |       |      |     |      |
| IEC-650 | 1          | 1/4 x 1/8    | 100                 | 6.68  | 3.17  | 2.500  | 4.47 | 1/4-20      | .27 | .19 | .56 | 3.08 | 2.69  | 6.72  | .52 | 4.61 | 5/8x3/32*  | 5.66  | 3.73 | 10♦ | 6.50 |
|         | 1-1/8      | 1/4 x 1/8    |                     |       |       | 2.4985 |      |             |     |     |     |      |       |       |     |      |            |       |      |     |      |
|         | 1-1/4      | 1/4 x 1/8    |                     |       |       |        |      |             |     |     |     |      |       |       |     |      |            |       |      |     |      |
|         | 1-3/8      | 5/6 x 3/32*  |                     |       |       |        |      |             |     |     |     |      |       |       |     |      |            |       |      |     |      |
| IEC-825 | 1          | 1/4 x 1/8    | 175                 | 8.43  | 3.17  | 2.500  | 5.35 | 1/4-20      | .27 | .19 | .56 | 3.08 | 2.81  | 7.01  | -   | 4.19 | 5/8x3/32*  | 6.54  | 5.06 | 17♦ | 2.88 |
|         | 1-1/8      | 1/4 x 1/8    |                     |       |       | 2.4985 |      |             |     |     |     |      |       |       |     |      |            |       |      |     |      |
|         | 1-1/4      | 1/4 x 1/8    |                     |       |       |        |      |             |     |     |     |      |       |       |     |      |            |       |      |     |      |
|         | 1-3/8      | 5/16x3/32*   |                     |       |       |        |      |             |     |     |     |      |       |       |     |      |            |       |      |     |      |

♦ Tab location on IEC-650 45° counterclockwise from top; tab location on IC-825 45° clockwise from top

\* Non-standard keyway - keys furnished with clutch

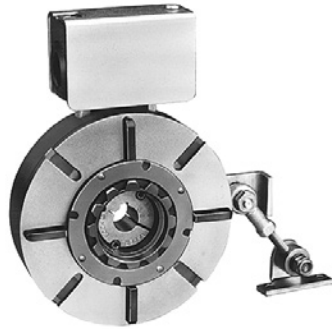
|                                  |   |                                     |                                      |
|----------------------------------|---|-------------------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT2-18 | SPECIFICATION/HOW TO ORDER<br>PAGE PT2-19 | SELECTION/DIMENSIONS<br>PAGE PT2-20 | ENGINEERING/TECHNICAL<br>PAGE PT2-38 |
|----------------------------------|---|-------------------------------------|--------------------------------------|



# SPECIFICATION/HOW TO ORDER/NOMENCLATURE

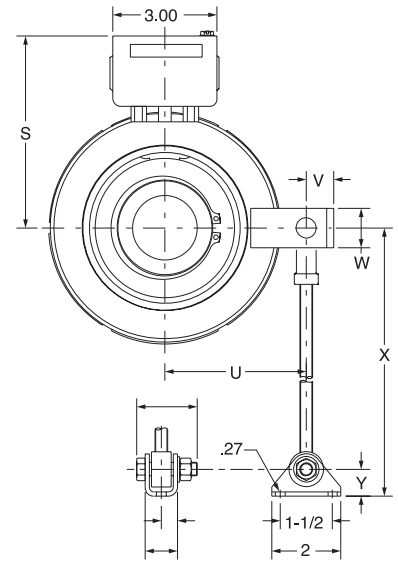
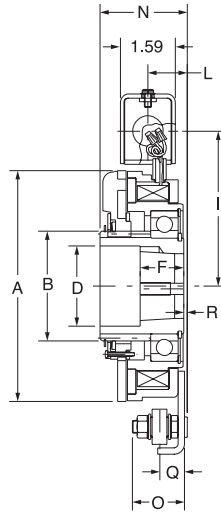


## Shaft Mounted Clutches & Brakes

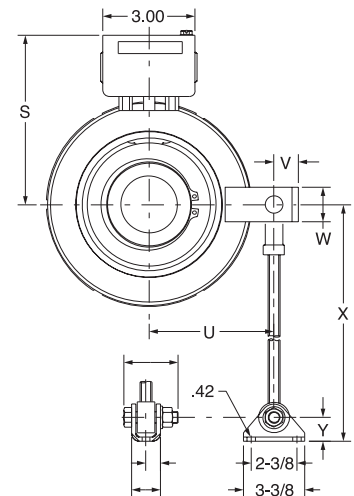


**IEB SERIES**

IEB Series Shaft Mounted Power-On Brakes offer a wide selection of bore sizes with the use of the DODGE TAPER-LOCK bushings. The anti-rotation torque arm can be mounted in any location around the shaft for further application flexibility.



SIZES 375, 475



SIZES 650, 825

### Part Numbers

| Unit Size | Voltage | Bore Size     |               |                             |
|-----------|---------|---------------|---------------|-----------------------------|
|           |         | 1/2"          | 5/8"          | TAPER-LOCK                  |
| IEB-375   | 90 VDC  | <b>027550</b> | <b>027551</b> |                             |
| IEB-375   | 24 VDC  | <b>027556</b> | <b>027557</b> |                             |
| IEB-375   | 6 VDC   | <b>027552</b> | <b>027553</b> |                             |
| IEB-475   | 90 VDC  |               |               | <b>027650</b> TAPER-LOCK    |
| IEB-475   | 24 VDC  |               |               | <b>027653</b> #1008         |
| IEB-475   | 6 VDC   |               |               | <b>027651</b> 1" Max.       |
| IEB-650   | 90 VDC  |               |               | <b>027750</b> TAPER-LOCK    |
| IEB-650   | 24 VDC  |               |               | <b>027753</b> #1310         |
| IEB-650   | 6 VDC   |               |               | <b>027751</b> 1-7/16" Max.  |
| IEB-825   | 90 VDC  |               |               | <b>027850</b> TAPER-LOCK    |
| IEB-825   | 24 VDC  |               |               | #1615                       |
| IEB-825   | 6 VDC   |               |               | <b>027851</b> 1-11/16" Max. |

\*TL Bushing sold separately

| Size    | Bore       | Keyway                                       | Static Torque Lb.-Ft. | A Max. | B    | D    | F    | I    | L    | N Max. | O    | Q   | R Max. | S    | U    | V   | W    | X Max. | Y   |
|---------|------------|--|-----------------------|--------|------|------|------|------|------|--------|------|-----|--------|------|------|-----|------|--------|-----|
| IEB-375 | 1/2<br>5/8 | 1/8 x 1/16<br>3/16 x 3/32                    | 22                    | 4.08   | 1.70 | .98  | 1.66 | 3.34 | .90  | 2.25   | 1.00 | .33 | .15    | 4.45 | 2.52 | .66 | 1.00 | 8      | .69 |
| IEB-475 |            | TAPER-LOCK<br>Bushing #1008<br>1" Max.       | 34                    | 5.17   | 2.20 | 1.45 | 1.00 | 3.88 | .75  | 1.88   | 1.00 | .33 | .15    | 4.98 | 3.05 | .78 | 1.00 | 10     | .69 |
| IEB-650 |            | TAPER-LOCK<br>Bushing #1310<br>1-7/16" Max.  | 100                   | 6.65   | 3.17 | 2.30 | 1.27 | 4.55 | 1.13 | 2.51   | 1.31 | .80 | .09    | 5.74 | 4.06 | .78 | 1.13 | 11.78  | .78 |
| IEB-825 |            | TAPER-LOCK<br>Bushing #1615<br>1-11/16" Max. | 175                   | 8.39   | 3.17 | 2.25 | 1.63 | 5.42 | 1.18 | 2.72   | 1.31 | .80 | -      | 6.61 | 4.81 | .84 | 1.13 | 11.78  | .78 |

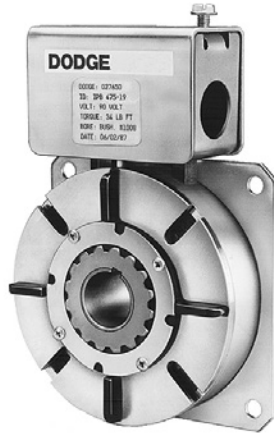
|                                  |   |                                     |                                      |
|----------------------------------|---|-------------------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT2-18 | SPECIFICATION/HOW TO ORDER<br>PAGE PT2-19 | SELECTION/DIMENSIONS<br>PAGE PT2-20 | ENGINEERING/TECHNICAL<br>PAGE PT2-38 |
|----------------------------------|---|-------------------------------------|--------------------------------------|



# SPECIFICATION/HOW TO ORDER/NOMENCLATURE

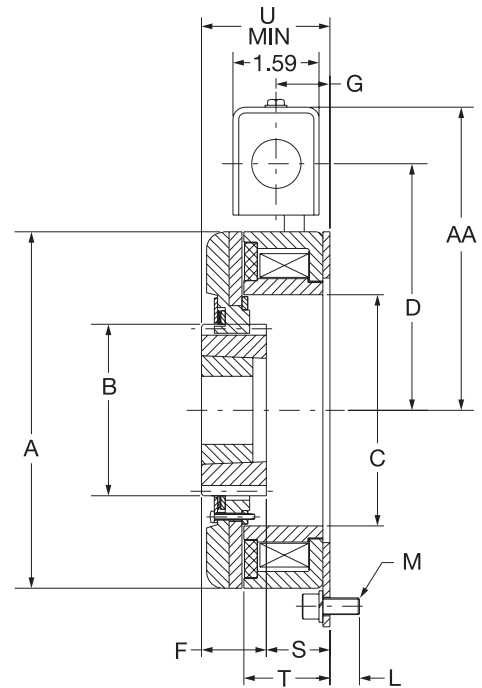


## Shaft Mounted Clutches & Brakes



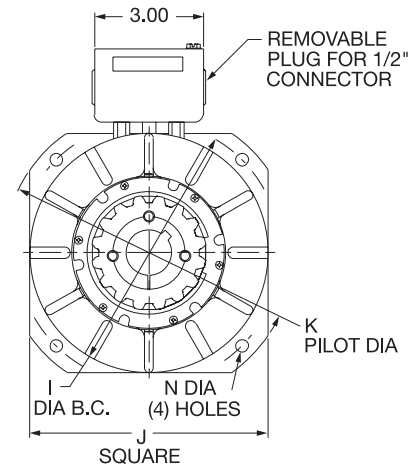
### IPB SERIES

IPB Series Flange Mounted Power-On Brakes operate similar to the FB Series brake. The brake magnet/flange can be mounted to any suitable mounting surface. Armature mounts to load shaft using DODGE TAPER-LOCK bushings.



| Unit    | Voltage Size | Bore Size |        |        |        | TAPER-LOCK           |
|---------|--------------|-----------|--------|--------|--------|----------------------|
|         |              | 1/2"      | 5/8"   | 3/4"   | 7/8"   |                      |
| IPB-375 | 90 VDC       | 029900    | 029901 | 029902 | 029903 |                      |
|         | 24 VDC       | 029918    | 029919 | 029920 | 029921 |                      |
|         | 6 VDC        | 029909    | 029910 | 029911 | 029912 |                      |
| IPB-475 | 90 VDC       |           |        |        |        | 029904 TAPER-LOCK    |
|         | 24 VDC       |           |        |        |        | 029922 #1008         |
|         | 6 VDC        |           |        |        |        | 029913 1" Max.       |
| IPB-650 | 90 VDC       |           |        |        |        | 029905 TAPER-LOCK    |
|         | 24 VDC       |           |        |        |        | 029923 #1610         |
|         | 6 VDC        |           |        |        |        | 029914 1-11/16" Max. |

\* TL Bushing sold separately



| Size    | Bore                     | Keyway      | Static Torque (Lb.-Ft.) | A Max | B    | C    | D    | F    | G   | I    | J Sq. | K     | S    | T    | U Min. | M    | L Max. | AA*         | N     | P    |
|---------|--------------------------|-------------|-------------------------|-------|------|------|------|------|-----|------|-------|-------|------|------|--------|------|--------|-------------|-------|------|
| IPB-375 | 1/2                      | 1/8x1/16    | 22                      | 4.08  | 1.70 | 2.62 | 3.34 | 1.66 | .78 | 5.00 | 4.25  | 5.625 | 1.04 | 1.15 | 2.36   | 4.45 | .61    | 1/4-20 UNC  | .280  | 4.00 |
|         | 5/8                      | 3/16x3/32   |                         |       |      |      |      |      |     |      |       | .300  |      |      |        |      |        |             |       |      |
|         | 3/4                      | 3/16 x 3/32 |                         |       |      |      |      |      |     |      |       |       |      |      |        |      |        |             |       |      |
|         | 7/8                      | 3/16 x 3/32 |                         |       |      |      |      |      |     |      |       |       |      |      |        |      |        |             |       |      |
| IPB-475 | Bushing 1008-1 1" Max.   |             | 34                      | 5.17  | 2.20 | 3.15 | 3.88 | 1.00 | .88 | 5.88 | 5.00  | 6.500 | .97  | 1.31 | 2.23   | 4.98 | .52    | 3/8-16 UNC  | 0.389 | 4.00 |
|         |                          |             |                         |       |      |      |      |      |     |      |       | 6.498 |      |      |        |      |        | 0.409       |       |      |
| IPB-650 | Bushing 1610 1-3/8" Max. |             | 100                     | 6.65  | 3.17 | 4.27 | 4.55 | 1.20 | .99 | 7.25 | 6.50  | 8.000 | 1.17 | 1.59 | 2.37   | 5.74 | .55    | 5/16-18 UNC | 0.338 | 4.00 |
|         |                          |             |                         |       |      |      |      |      |     |      |       | 7.998 |      |      |        |      |        | 0.358       |       |      |

\* Screw not included

|                                  |   |                                     |                                      |
|----------------------------------|---|-------------------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT2-18 | SPECIFICATION/HOW TO ORDER<br>PAGE PT2-19 | SELECTION/DIMENSIONS<br>PAGE PT2-20 | ENGINEERING/TECHNICAL<br>PAGE PT2-38 |
|----------------------------------|---|-------------------------------------|--------------------------------------|



**FEATURES/BENEFITS**

**Fractional HP Clutches & Brakes**

PT Component  
Quick References

Couplings

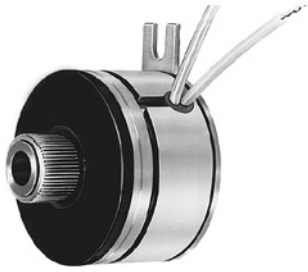
Clutches and Brakes

FLEXIDYNE

Fluid Couplings

TORQUE-TAMER

Bushings



**SL SERIES**



**BSL SERIES**

**SL & BSL SERIES ELECTRIC CLUTCHES**

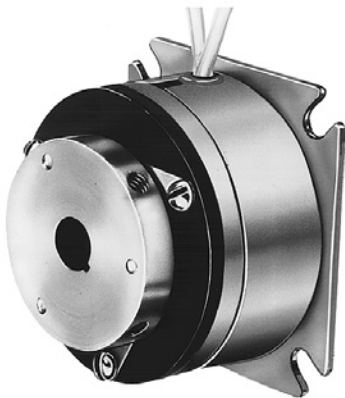
- Bearing Mounted
- Couples 2 Parallel Shafts
- Sl Has 9 Sizes For Shaft Diameters 3/16"-3/4"
- Bsl Has 2 Sizes For Shaft Diameters 1/2"-1"
- Protective Zinc Chromate Plating



**SO SERIES**

**SO SERIES ELECTRIC CLUTCH-COUPPLINGS**

- Couples In-Line Shafts
- Zinc Chromate Plating For Corrosion Resistance
- 9 Sizes For Shaft Diameters 3/16"-1"



**FB SERIES**

**FB SERIES POWER ON BRAKES**

- Power-On Brake, Engages When Voltage Is Applied, Releases When Voltage Is Turned Off
- 9 Sizes For Shaft Diameters 3/16"-1"



**FSB SERIES**



**FSBR SERIES**

**FSB AND FSBR SERIES POWER OFF BRAKES**

**FSB**

- Flange Mounted
- Engages When Voltage Is Removed
- 7 Sizes For Shaft Diameters 3/16"-3/4"
- Non-Asbestos, Non-Lead Friction Material For Long-Life And Quiet Operation

**FSBR**

- Designed For Applications Requiring Minimal Space
- 5 Sizes For Shaft Diameters 5/16"-3/4"
- Non-Asbestos, Non-Lead Friction Material For Long-Life And Quiet Operation



## Fractional HP Clutches & Brakes

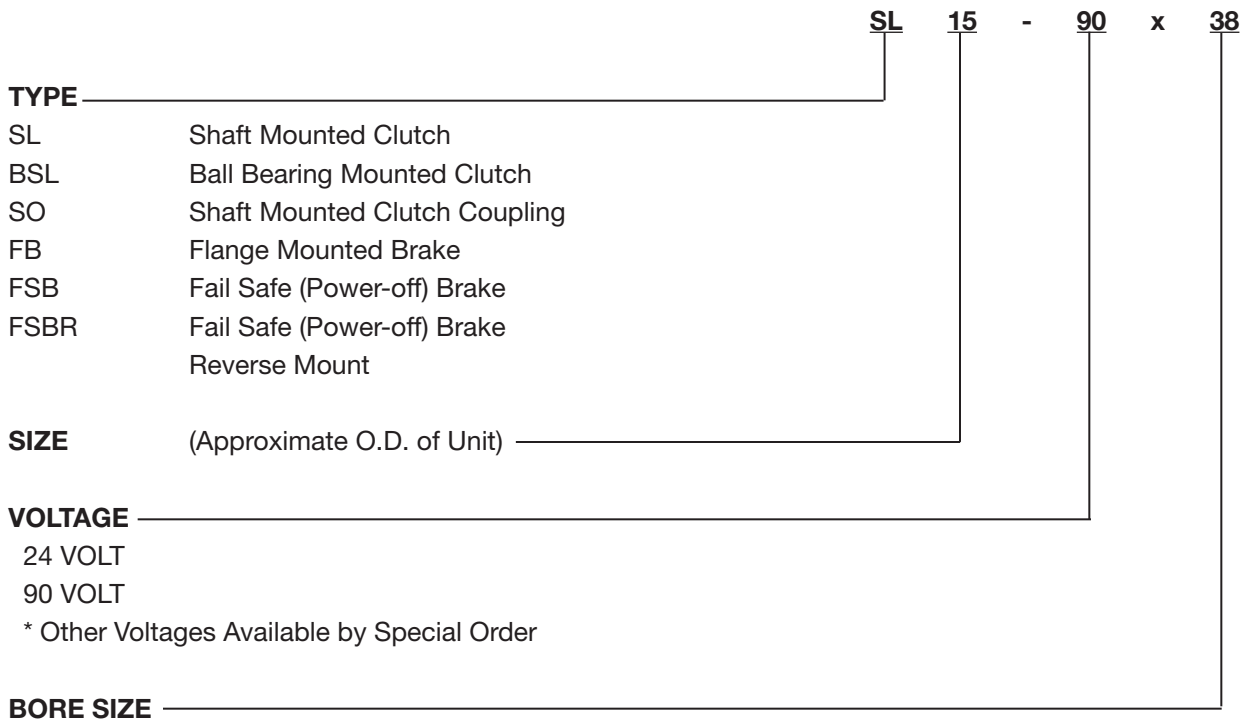
### SPECIFICATION

The Fractional HP product offerings include three shaft mounted clutches and three flange mounted brakes. In the shaft mounted line, the SL and BSL series are used to couple two parallel shafts, and the SO series is used to couple two in-line shafts. They are engineered for easy installation, and incorporate a zero backlash armature hub assembly. In the flange mounted line, the FB series is “power-on” and the FSB and FSBR series are “power-off”.

### HOW TO ORDER

Fractional HP Clutches and Brakes are ordered by specifying the type of unit, size, voltage and bore size. Part numbers are found on the selection pages for each type of unit. Refer to the part number when ordering.

### NOMENCLATURE





## SELECTION

### Fractional Hp Clutches & Brakes

#### Power-On Clutch & Brake Selection

1. Determine the motor horsepower required (or torque required for sizes 08-15) and speed at the clutch location. For optimum performance, the clutch should be mounted on the highest speed shaft.
2. Using the Selection Chart, identify the proper clutch size-where the shaft speed intersects the HP (or torque) required.
3. Where rapid cycling occurs, check the Allowable Cycles Chart below. If the allowable cycle rate is exceeded, consult DODGE Engineering.
4. Specify the voltage and shaft size when ordering.
5. For optimum performance, use a properly sized control.

#### Allowable Cycles/Minute\*

| Unit Size | RPM | Inertia (Lb-In2) |     |     |     | Unit Size | RPM | Inertia (Lb-In2) |     |     |      |
|-----------|-----|------------------|-----|-----|-----|-----------|-----|------------------|-----|-----|------|
|           |     | 5                | 10  | 50  | 100 |           |     | 50               | 100 | 500 | 1000 |
| 08        | 225 | 300              | 200 | 30  | 12  | 19        | 225 | 200              | 120 | 20  | 8    |
|           | 900 | 30               | 12  | 2   | 1   |           | 900 | 9                | 5   | 1   | -    |
| 11        | 225 | -                | 300 | 60  | 30  | 22        | 225 | 250              | 150 | 25  | 10   |
|           | 900 | 45               | 20  | 3   | 2   |           | 900 | 12               | 6   | 1   | -    |
| 15        | 225 | -                | 350 | 120 | 60  | 26        | 225 | 300              | 200 | 30  | 12   |
|           | 900 | 60               | 30  | 6   | 3   |           | 900 | 20               | 9   | 2   | 1    |
| 17        | 225 | -                | -   | 150 | 100 | 30        | 225 | 350              | 250 | 40  | 20   |
|           | 900 | 80               | 40  | 7   | 4   |           | 900 | 25               | 12  | 3   | 1    |
|           |     |                  |     |     |     | 42        | 225 | -                | 300 | 60  | 30   |
|           |     |                  |     |     |     |           | 900 | 30               | 20  | 4   | 2    |

\* Chart intended as a guide. For other speeds and inertias, consult DODGE

#### For SL, BSL, SO Series

| Torque Lb-In★ | Shaft Speed At Clutch (Rpm) |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |  |
|---------------|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|--|
|               | 100                         | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1500 | 1800 | 2000 | 2400 | 3000 | 3600 | 4000 | 5000 |  |
| 0.50          |                             |     |     |     |     |     |     | 08  |     |      |      |      |      |      |      |      |      |      |      |      |  |
| 1.00          |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |  |
| 1.50          |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |  |
| 2.00          |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |  |
| 2.50          |                             |     |     |     |     |     |     |     |     | 11   |      |      |      |      |      |      |      |      |      |      |  |
| 3.00          |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |  |
| 3.50          |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |  |
| 4.00          |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |  |
| 4.50          |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |  |
| 5.00          |                             |     |     |     |     |     |     |     |     | 15   |      |      |      |      |      |      |      |      |      |      |  |
| 5.50          |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |  |
| 6.00          |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |  |
| 6.50          |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |  |
| 7.00          |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |  |

★ Slightly higher torque ratings may be allowable for some speeds. Consult DODGE

|                                  |                              |                                     |                                      |
|----------------------------------|------------------------------|-------------------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT2-24 | SPECIFICATION<br>PAGE PT2-25 | SELECTION/DIMENSIONS<br>PAGE PT2-30 | ENGINEERING/TECHNICAL<br>PAGE PT2-38 |
|----------------------------------|------------------------------|-------------------------------------|--------------------------------------|



# SELECTION

PT Component  
Quick References

Couplings

Clutches and Brakes

FLEXIDYNE

Fluid Couplings

TORQUE-TAMER

Bushings

## HP vs. RPM (Sizes 17 thru 42) - Selection Chart

| HP    | Shaft Speed At Clutch (RPM) |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
|-------|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|
|       | 100                         | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1500 | 1800 | 2000 | 2400 | 3000 | 3600 | 4000 | 5000 |
| 1/50  |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 1/20  |                             |     |     |     |     |     |     |     |     |      |      |      | 17   |      |      |      |      |      |      |      |
| 1/12  |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 1/8   |                             |     |     |     |     |     |     |     |     |      |      | 19   |      |      |      |      |      |      |      |      |
| 1/6   |                             |     |     |     |     |     |     |     |     |      | 22   |      |      |      |      |      |      |      |      |      |
| 1/4   |                             |     |     |     |     |     |     |     |     |      | 26   |      |      |      |      |      |      |      |      |      |
| 1/3   |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 1/2   |                             |     |     |     |     |     |     |     |     |      |      | 30   |      |      |      |      |      |      |      |      |
| 3/4   |                             |     |     |     |     |     |     |     |     |      |      | 42   |      |      |      |      |      |      |      |      |
| 1     |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 1 1/2 |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 2     |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 3     |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 5     |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 7-1/2 |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 10    |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |

## For FB Series: Torque Rating vs. RPM (Sizes 08 thru 15)- Selection Chart

| Torque Lb-In ★ | Shaft Speed At Clutch (RPM) |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
|----------------|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|
|                | 100                         | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1500 | 1800 | 2000 | 2400 | 3000 | 3600 | 4000 | 5000 |
| 0.5            |                             |     |     |     |     |     |     | 08  |     |      |      |      |      |      |      |      |      |      |      |      |
| 1.0            |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 1.5            |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 2.0            |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 2.5            |                             |     |     |     |     |     |     |     |     |      | 11   |      |      |      |      |      |      |      |      |      |
| 3.0            |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 3.5            |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 4.0            |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 4.5            |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 5.0            |                             |     |     |     |     |     |     |     |     |      | 15   |      |      |      |      |      |      |      |      |      |
| 5.5            |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 6.0            |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 6.5            |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 7.0            |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |

★ Slightly higher torque ratings may be allowable for some speeds. Consult DODGE.

## HP vs. RPM (Sizes 17 thru 42)-Selection Chart

| HP    | Shaft Speed At Clutch (RPM) |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
|-------|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|
|       | 100                         | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1500 | 1800 | 2000 | 2400 | 3000 | 3600 | 4000 | 5000 |
| 1/50  |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 1/20  |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 1/12  |                             |     |     |     |     |     |     |     |     |      |      |      | 17   |      |      |      |      |      |      |      |
| 1/8   |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 1/6   |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 1/4   |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 1/3   |                             |     |     |     |     |     |     |     |     |      | 19   |      |      |      |      |      |      |      |      |      |
| 1/2   |                             |     |     |     |     |     |     |     |     |      |      | 22   |      |      |      |      |      |      |      |      |
| 3/4   |                             |     |     |     |     |     |     |     |     |      |      | 26   |      |      |      |      |      |      |      |      |
| 1     |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 1 1/2 |                             |     |     |     |     |     |     |     |     |      |      | 30   |      |      |      |      |      |      |      |      |
| 2     |                             |     |     |     |     |     |     |     |     |      |      | 42   |      |      |      |      |      |      |      |      |
| 3     |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 5     |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 7 1/2 |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 10    |                             |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |



# SELECTION

## Fractional HP Clutches & Brakes

1. Determine the motor horsepower required and speed at the brake location. For optimum performance, the brake should be mounted on the highest speed shaft.
2. Using the Selection Chart, identify the proper brake size-where the shaft speed intersects the HP required.
3. Where rapid cycling occurs, check the Allowable Cycles Chart below. If the allowable cycle rate is exceeded, consult DODGE Engineering.
4. Specify the voltage and shaft size when ordering.
5. For optimum performance, use a properly sized control.

### FSB Allowable Cycles/Minutes\*

| Unit Size | RPM  | Inertia (Lb-In2) |    |      |      | Unit Size | RPM  | Inertia (Lb-In2) |      |      |      |
|-----------|------|------------------|----|------|------|-----------|------|------------------|------|------|------|
|           |      | 1                | 5  | 10   | 50   |           |      | 10               | 50   | 100  | 500  |
| 01        | 1800 | 60               | 12 | 6    | 1    | 35        | 1800 | 25               | 5    | 2.50 | 0.50 |
|           | 3600 | 15               | 3  | 1.50 | -    |           | 3600 | 5                | 1    | 0.50 | -    |
| 03        | 1800 | 80               | 16 | 8    | 2    | 50        | 1800 | 25               | 5    | 2.50 | 0.50 |
|           | 3600 | 20               | 4  | 2    | -    |           | 3600 | 5                | 1    | 0.50 | -    |
| 07        | 1800 | 150              | 30 | 15   | 3    | 100       | 1800 | 50               | 10   | 5    | 1    |
|           | 3600 | 40               | 8  | 4    | 3    |           | 3600 | 12               | 2.50 | 1.20 | -    |
| 15        | 1800 | 150              | 30 | 15   | 3    |           |      |                  |      |      |      |
|           | 3600 | 40               | 8  | 4    | 0.80 |           |      |                  |      |      |      |

\* Chart intended as guide. For other speed and inertias, consult DODGE

### For FSB Series:

#### Torque Rating vs. RPM (Sizes 001 thru 007) - Selection

| Torque Lb-In | Shaft Speed At Brake (RPM) |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
|--------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|
|              | 100                        | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1500 | 1800 | 2000 | 2400 | 3000 | 3600 | 4000 | 5000 |
| 0.50         |                            |     |     |     |     |     |     |     |     |      | 1    |      |      |      |      |      |      |      |      |      |
| 0.75         |                            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 1.00         |                            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 2.00         |                            |     |     |     |     |     |     |     |     |      | 3    |      |      |      |      |      |      |      |      |      |
| 2.50         |                            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 2.75         |                            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 3.00         |                            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 5.00         |                            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 6.25         |                            |     |     |     |     |     |     |     |     |      | 7    |      |      |      |      |      |      |      |      |      |
| 6.50         |                            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 6.75         |                            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 7.00         |                            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |

#### HP vs. RPM (Sizes 17 thru 42) - Selection

| HP    | Shaft Speed At Brake (RPM) |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
|-------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|
|       | 100                        | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1500 | 1800 | 2000 | 2400 | 3000 | 3600 | 4000 | 5000 |
| 1/50  |                            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 1/20  |                            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 1/12  |                            |     |     |     |     |     |     |     |     |      | 15   |      |      |      |      |      |      |      |      |      |
| 1/8   |                            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 1/6   |                            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 1/4   |                            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 1/3   |                            |     |     |     |     |     |     |     |     |      | 35   |      |      |      |      |      |      |      |      |      |
| 1/2   |                            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 3/4   |                            |     |     |     |     |     |     |     |     |      | 50   |      |      |      |      |      |      |      |      |      |
| 1     |                            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 1-1/2 |                            |     |     |     |     |     |     |     |     |      | 100  |      |      |      |      |      |      |      |      |      |
| 2     |                            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 3     |                            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 5     |                            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 7-1/2 |                            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 10    |                            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |



# SELECTION

## Fractional HP Clutches & Brakes

### For FSBR Series

| HP    | Shaft Speed At Brake (RPM) |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
|-------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|
|       | 100                        | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1500 | 1800 | 2000 | 2400 | 3000 | 3600 | 4000 | 5000 |
| 1/50  |                            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 1/20  |                            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 1/12  |                            |     |     |     |     |     |     |     |     | 7    |      |      |      |      |      |      |      |      |      |      |
| 1/8   |                            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 1/6   |                            |     |     |     |     |     |     |     |     | 15   |      |      |      |      |      |      |      |      |      |      |
| 1/4   |                            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 1/3   |                            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 1/2   |                            |     |     |     |     |     |     |     |     | 35   |      |      |      |      |      |      |      |      |      |      |
| 3/4   |                            |     |     |     |     |     |     |     |     | 50   |      |      |      |      |      |      |      |      |      |      |
| 1     |                            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 1-1/2 |                            |     |     |     |     |     |     |     |     | 100  |      |      |      |      |      |      |      |      |      |      |
| 2     |                            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 3     |                            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 5     |                            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 7-1/2 |                            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |
| 10    |                            |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |

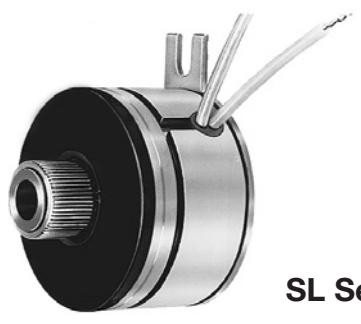
### FSBR Allowable Cycles/Minutes ★

| Unit Size | RPM  | Inertia (Lb.- in.2) |    |     |     |
|-----------|------|---------------------|----|-----|-----|
|           |      | 5                   | 10 | 50  | 100 |
| 07        | 1800 | 30                  | 15 | 3   | -   |
|           | 3600 | 8                   | 4  | 0.8 | -   |
| 15        | 1800 | 30                  | 15 | 3   | -   |
|           | 3600 | 8                   | 4  | 0.8 | -   |
| 35        | 1800 | 50                  | 25 | 5   | 2.5 |
|           | 3600 | 10                  | 5  | 1   | 0.5 |
| 50        | 1800 | 50                  | 25 | 5   | 2.5 |
|           | 3600 | 10                  | 5  | 1   | 0.5 |
| 100       | 1800 | 100                 | 50 | 10  | 5   |
|           | 3600 | 25                  | 12 | 2.5 | 1.2 |

★ Chart intended as a guide. For other speeds and inertias, consult DODGE.

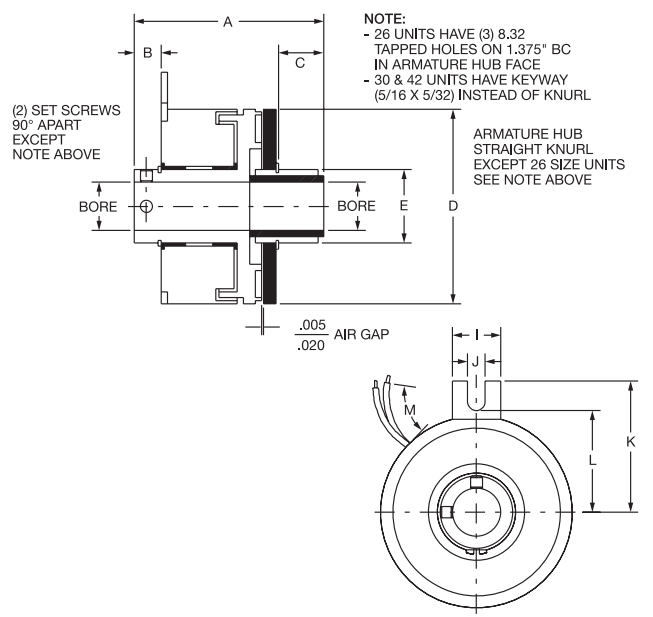


# SELECTION/DIMENSIONS



**SL Series**

The Shaft Mounted SL SERIES clutches are engineered for easy installation. Nine sizes are available for shaft diameters from 3/16" to 3/4". The SL Armature Hub will accept sheaves, sprockets, gears or other typical power transmission drive components. SL Clutches are plated for protection from the environment. The SL units have a zero backlash armature hub assembly.



## SL Series Dimensions

| Size   | Part No. | Volts DC | Bore In. ★ | Rotor Keyway | Static Torque (Lb.-In.) | A Max | B Nom | C Max | D Max | E ±.002 | I Max | J Min | K Nom | L Nom | M ±.500   |
|--------|----------|----------|------------|--------------|-------------------------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-----------|
| SL-08  | 024000   | 90       | 3/16       | set screws   | 2.5                     | 1.370 | .191  | .410  | .903  | .507    | .305  | .094  | 0.625 | .445  | 12.00     |
|        | 024001   |          | 1/4        |              |                         |       |       |       |       |         |       |       |       |       |           |
|        | 024002   | 24       | 3/16       |              |                         |       |       |       |       |         |       |       |       |       |           |
| SL-11  | 024100   | 90       | 1/4        | set screws   | 6                       | 1.409 | .147  | .396  | 1.160 | .506    | .380  | .122  | 0.875 | .585  | 12.00     |
|        | 024101   |          | 5/16       |              |                         |       |       |       |       |         |       |       |       |       |           |
|        | 024102   | 24       | 1/4        |              |                         |       |       |       |       |         |       |       |       |       |           |
|        | 024103   |          | 5/16       |              |                         |       |       |       |       |         |       |       |       |       |           |
| SL-15  | 024200   | 90       | 5/16       | set screws   | 10                      | 1.695 | .275  | .303  | 1.500 | .630    | .520  | .180  | 1.120 | .750  | 12.00     |
|        | 024201   |          | 3/8        |              |                         |       |       |       |       |         |       |       |       |       |           |
|        | 024202   | 24       | 5/16       |              |                         |       |       |       |       |         |       |       |       |       |           |
| SL-17  | 024300   | 90       | 5/16       | set screws   | 15                      | 1.823 | .279  | .380  | 1.780 | .630    | .505  | .184  | 1.325 | .975  | 12.00     |
|        | 024301   |          | 3/8        |              |                         |       |       |       |       |         |       |       |       |       |           |
|        | 024302   | 24       | 5/16       |              |                         |       |       |       |       |         |       |       |       |       |           |
| SL-19  | 024400   | 90       | 3/8        | 3/32x3/64    | 25                      | 1.948 | .279  | .465  | 2.000 | .756    | .505  | .184  | 1.325 | .975  | 12.00     |
|        | 024401   |          | 1/2        | set screws   |                         |       |       |       |       |         |       |       |       |       |           |
|        | 024402   | 24       | 3/8        | 3/32x3/64    |                         |       |       |       |       |         |       |       |       |       |           |
| SL-22  | 024500   | 90       | 3/8        | 3/32x3/64    | 50                      | 2.160 | .281  | .432  | 2.260 | .756    | .442  | .170  | 1.515 | 1.160 | 18.00     |
|        | 024501   |          | 1/2        | 1/8x1/16     |                         |       |       |       |       |         |       |       |       |       |           |
|        | 024502   | 24       | 3/8        | 3/32x3/64    |                         |       |       |       |       |         |       |       |       |       |           |
| SL-26  | 024600   | 90       | 1/2        | 1/8x1/16     | 80                      | 2.464 | .277  | .472  | 2.645 | .999    | .510  | .190  | 1.750 | 1.465 | 18.00     |
|        | 024602   | 24       | 1/2        | 1/8x1/16     |                         |       |       |       |       |         |       |       |       |       |           |
|        | 024700   | 90       | 1/2        | 1/8x1/16     |                         |       |       |       |       |         |       |       |       |       |           |
| SL-30  | 024701   | 90       | 5/8        | 3/16x3/32    | 125                     | 2.800 | .250  | .830  | 3.268 | 1.374   | .442  | .170  | 2.050 | 1.695 | terminals |
|        | 024702   | 24       | 1/2        | 1/8x1/16     |                         |       |       |       |       |         |       |       |       |       |           |
|        | 024703   |          | 5/8        | 3/16x3/32    |                         |       |       |       |       |         |       |       |       |       |           |
| SL-42  | 024800   | 90       | 1/2        | 1/8x1/16     | 250                     | 3.820 | .320  | 1.560 | 4.270 | 1.374   | .645  | .190  | 2.500 | 2.312 | terminals |
|        | 024801   |          | 5/8        | 3/16x3/32    |                         |       |       |       |       |         |       |       |       |       |           |
|        | 024802   |          | 3/4        | 3/16x3/32    |                         |       |       |       |       |         |       |       |       |       |           |
|        | 024803   | 24       | 1/2        | 1/8x1/16     |                         |       |       |       |       |         |       |       |       |       |           |
|        | 024804   |          | 5/8        | 3/16x3/32    |                         |       |       |       |       |         |       |       |       |       |           |
| 024805 |          | 3/4      | 3/16x3/32  |              |                         |       |       |       |       |         |       |       |       |       |           |

★ Consult DODGE for other bore sizes

|                                  |                              |                          |                                      |
|----------------------------------|------------------------------|--------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT2-24 | SPECIFICATION<br>PAGE PT2-25 | SELECTION<br>PAGE PT2-26 | ENGINEERING/TECHNICAL<br>PAGE PT2-28 |
|----------------------------------|------------------------------|--------------------------|--------------------------------------|

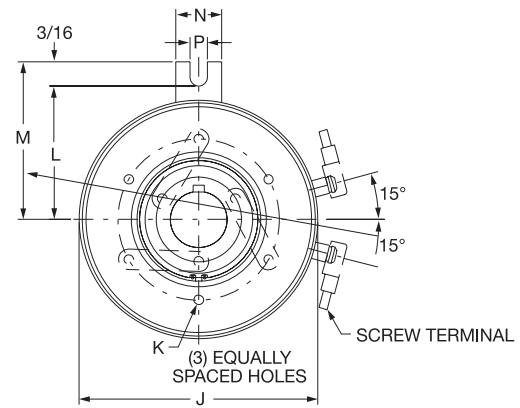
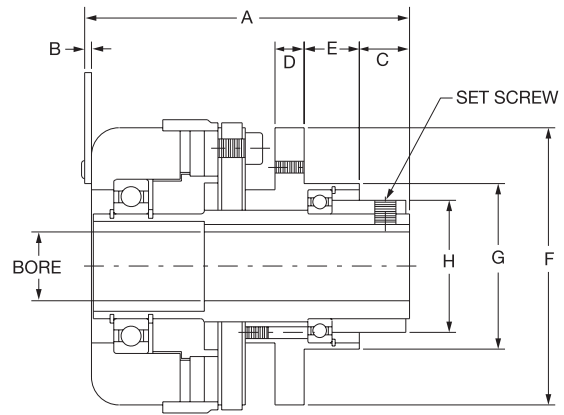


# SELECTION/DIMENSIONS



**BSL Series**

The Shaft Mounted BSL SERIES clutches are engineered for easy installation. Two sizes are available for shaft diameters from 1/2" to 1". The BSL Armature Hub will accept sheaves, sprockets, gears or other typical power transmission drive components. BSL Clutches are plated for protection from the environment. The BSL units have a zero backlash armature hub assembly.



## BSL Series Dimensions

| Size   | Part No. | Volts | ★ Bore | Rotor Keyway | Set Screw | Static Torque (Lb.-In.) | A Max | B Nom | C Max | D Max |
|--------|----------|-------|--------|--------------|-----------|-------------------------|-------|-------|-------|-------|
| BSL-26 | 024900   | 90    | 1/2    | 1/8x1/16     | #10-32    | 80                      | 2.93  | .06   | .45   | .265  |
|        | 024901   | 90    | 5/8    | 3/16x3/32    |           |                         |       |       |       |       |
|        | 024902   | 24    | 1/2    | 1/8x1/16     |           |                         |       |       |       |       |
|        | 024903   | 24    | 5/8    | 3/16x3/32    |           |                         |       |       |       |       |
| BSL-42 | 025100   | 90    | 7/8    | 3/16x3/32    | 1/4-28    | 250                     | 3.35  | .06   | .41   | .282  |
|        | 025101   | 90    | 1      | 1/4x1/8      |           |                         |       |       |       |       |
|        | 025102   | 24    | 7/8    | 3/16x3/32    |           |                         |       |       |       |       |
|        | 025103   | 24    | 1      | 1/4x1/8      |           |                         |       |       |       |       |

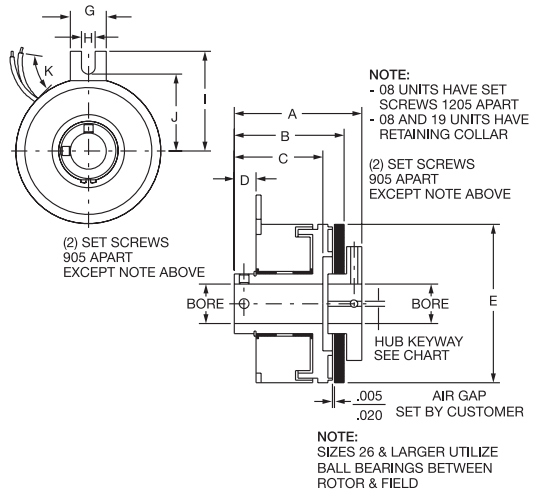
| Size   | E ±.005 | F Max | G Pilot Dia.   | H Max | J Max | K                                    | L Max | M ±.015 | N Max | P Min. |
|--------|---------|-------|----------------|-------|-------|--------------------------------------|-------|---------|-------|--------|
| BSL-26 | .50     | 2.505 | 1.499<br>1.497 | 1.195 | 2.65  | (3)<br>6-32<br>on<br>1.790<br>B.C.   | 1.482 | 1.750   | .510  | .190   |
| BSL-42 | .673    | 4.015 | 3.000<br>2.998 | 1.82  | 4.27  | (3)<br>1/4-20<br>on<br>3.500<br>B.C. | 2.223 | 2.500   | .545  | .190   |

★ Consult DODGE for other bore sizes

|                                  |                              |                          |                                      |
|----------------------------------|------------------------------|--------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT2-24 | SPECIFICATION<br>PAGE PT2-25 | SELECTION<br>PAGE PT2-26 | ENGINEERING/TECHNICAL<br>PAGE PT2-38 |
|----------------------------------|------------------------------|--------------------------|--------------------------------------|



# SELECTION/DIMENSIONS



## SO Series

The Shaft Mounted SO SERIES Clutches are engineered for easy installation. Nine sizes are available for shaft diameters from 3/16" to 1". SO Clutches are plated for protection from the environment and have a zero backlash armature hub assembly.

### SO Series Dimensions

| Size   | Part No. | Volts DC | Bore In. ★ | Rotor Keyway | Static Torque (Lb.-In.) | A Max | B Max | C Max | D Max | E Max | G Max | H Min | I Nom | J Nom | K ±.500         |
|--------|----------|----------|------------|--------------|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|
| SO-08  | 029000   | 90       | 3/16       | set screws   | 2.5                     | 1.059 | .875  | .763  | .200  | .903  | .305  | .094  | .625  | .445  | 12.0            |
|        | 029001   |          | 1/4        |              |                         |       |       |       |       |       |       |       |       |       |                 |
|        | 029002   | 24       | 3/16       |              |                         |       |       |       |       |       |       |       |       |       |                 |
|        | 029003   |          | 1/4        |              |                         |       |       |       |       |       |       |       |       |       |                 |
| SO-11  | 029004   | 90       | 1/4        | set screws   | 6                       | 1.168 | .933  | .777  | .164  | 1.160 | .380  | .122  | .875  | .585  | 12.0            |
|        | 029005   |          | 5/16       |              |                         |       |       |       |       |       |       |       |       |       |                 |
|        | 029006   | 24       | 1/4        |              |                         |       |       |       |       |       |       |       |       |       |                 |
|        | 029007   |          | 5/16       |              |                         |       |       |       |       |       |       |       |       |       |                 |
| SO-15  | 029008   | 90       | 5/16       | set screws   | 10                      | 1.575 | 1.255 | 1.075 | .295  | 1.500 | .520  | .180  | 1.120 | .750  | 12.0            |
|        | 029009   |          | 3/8        |              |                         |       |       |       |       |       |       |       |       |       |                 |
|        | 029010   | 24       | 5/16       |              |                         |       |       |       |       |       |       |       |       |       |                 |
|        | 029011   |          | 3/8        |              |                         |       |       |       |       |       |       |       |       |       |                 |
| SO-17  | 029012   | 90       | 5/16       | 1/16x1/32    | 15                      | 1.605 | 1.311 | 1.060 | .301  | 1.780 | .505  | .184  | 1.325 | .975  | 12.0            |
|        | 029013   |          | 3/8        | 3/32x3/64    |                         |       |       |       |       |       |       |       |       |       |                 |
|        | 029014   | 24       | 5/16       | 1/16x1/32    |                         |       |       |       |       |       |       |       |       |       |                 |
|        | 029015   |          | 3/8        | 3/32x3/64    |                         |       |       |       |       |       |       |       |       |       |                 |
| SO-19  | 029016   | 90       | 3/8        | 3/32x3/64    | 25                      | 1.609 | 1.314 | 1.060 | .301  | 2.000 | .505  | .184  | 1.325 | .975  | 12.0            |
|        | 029017   |          | 1/2        | 1/8x1/16     |                         |       |       |       |       |       |       |       |       |       |                 |
|        | 029018   | 24       | 3/8        | 3/32x3/64    |                         |       |       |       |       |       |       |       |       |       |                 |
|        | 029019   |          | 1/2        | 1/8x1/16     |                         |       |       |       |       |       |       |       |       |       |                 |
| SO-22  | 029020   | 90       | 3/8        | 3/32x3/64    | 50                      | 1.989 | 1.578 | 1.273 | .316  | 2.260 | .442  | .170  | 1.515 | 1.160 | 18.0            |
|        | 029021   |          | 1/2        | 1/8x1/16     |                         |       |       |       |       |       |       |       |       |       |                 |
|        | 029022   | 24       | 3/8        | 3/32x3/64    |                         |       |       |       |       |       |       |       |       |       |                 |
|        | 029023   |          | 1/2        | 1/8x1/16     |                         |       |       |       |       |       |       |       |       |       |                 |
| SO-26  | 029024   | 90       | 1/2        | 1/8x1/16     | 80                      | 2.115 | 1.754 | 1.444 | .302  | 2.645 | .510  | .190  | 1.750 | 1.465 | 18.0            |
|        | 029025   |          | 5/8        | 3/16x3/32    |                         |       |       |       |       |       |       |       |       |       |                 |
|        | 029026   | 24       | 1/2        | 1/8x1/16     |                         |       |       |       |       |       |       |       |       |       |                 |
|        | 029027   |          | 5/8        | 3/16x3/32    |                         |       |       |       |       |       |       |       |       |       |                 |
| SO-30  | 029028   | 90       | 1/2        | 1/8x1/16     | 125                     | 2.130 | 1.795 | 1.390 | .270  | 3.268 | .442  | .170  | 2.050 | 1.695 | screw terminals |
|        | 029029   |          | 5/8        | 3/16x3/32    |                         |       |       |       |       |       |       |       |       |       |                 |
|        | 029031   | 24       | 1/2        | 1/8x1/16     |                         |       |       |       |       |       |       |       |       |       |                 |
|        | 029032   |          | 5/8        | 3/16x3/32    |                         |       |       |       |       |       |       |       |       |       |                 |
| SO-42  | 029034   | 90       | 1/2        | 1/8x1/16     | 250                     | 2.570 | 2.050 | 1.625 | .340  | 4.270 | .645  | .190  | 2.500 | 2.312 | screw terminals |
|        | 029035   |          | 5/8        | 3/16x3/32    |                         |       |       |       |       |       |       |       |       |       |                 |
|        | 029036   |          | 3/4        | 3/16x3/32    |                         |       |       |       |       |       |       |       |       |       |                 |
|        | 029037   |          | 7/8        | 3/16x3/32    |                         |       |       |       |       |       |       |       |       |       |                 |
|        | 029038   | 1        | 1/4x1/8    |              |                         |       |       |       |       |       |       |       |       |       |                 |
|        | 029039   | 24       | 1/2        | 1/8x1/16     |                         |       |       |       |       |       |       |       |       |       |                 |
|        | 029040   |          | 5/8        | 3/16x3/32    |                         |       |       |       |       |       |       |       |       |       |                 |
|        | 029041   |          | 3/4        | 3/16x3/32    |                         |       |       |       |       |       |       |       |       |       |                 |
| 029042 | 7/8      |          | 3/16x3/32  |              |                         |       |       |       |       |       |       |       |       |       |                 |
| 029043 | 1        | 1/4x1/8  |            |              |                         |       |       |       |       |       |       |       |       |       |                 |

● Other voltages available on request

★ Consult DODGE for other bore sizes

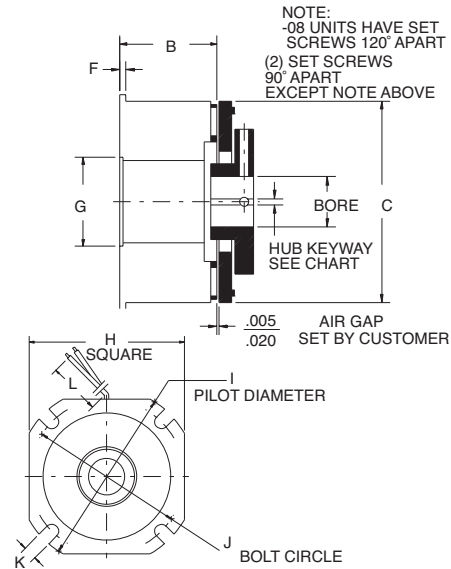
|                                  |                              |                          |                                      |
|----------------------------------|------------------------------|--------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT2-24 | SPECIFICATION<br>PAGE PT2-25 | SELECTION<br>PAGE PT2-26 | ENGINEERING/TECHNICAL<br>PAGE PT2-38 |
|----------------------------------|------------------------------|--------------------------|--------------------------------------|

# SELECTION/DIMENSIONS



## FB Series

The FB Flange Mounted Electric Brakes are designed for easy installation. These power on brakes engage when voltage is applied and release when the voltage is turned off. FB Brakes are available in nine sizes in shaft diameters from 3/16" to 1". These brakes can be used to accurately and repetitively decelerate inertial loads or to control web tension. (Contact application engineering for application assistance.) They incorporate zero backlash style armature assembly.



## FB Series Dimensions

| Size   | Part No. | Volts DC | Bore In. ★ | Nominal Keyway   | Static Torque (Lb.-In.) | A Max | B Nom | C Max | F Max | G ±.001 | H Max | I ±.001 | J Nom | K Min | L ±.500   |
|--------|----------|----------|------------|--|-------------------------|-------|-------|-------|-------|---------|-------|---------|-------|-------|-----------|
| FB-08  | 025200   | 90       | 3/16       | set screws   | 2.5                     | .885  | .634  | .905  | .034  | N.A.    | .980  | 1.1995  | 1.030 | .094  | 12.00     |
|        | 025201   | 24       | 1/4        |  |                         |       |       |       |       |         |       |         |       |       |           |
|        | 025202   |          | 3/16       |  |                         |       |       |       |       |         |       |         |       |       |           |
|        | 025203   |          | 1/4        |  |                         |       |       |       |       |         |       |         |       |       |           |
| FB-11  | 025300   | 90       | 1/4        | set screws   | 6                       | .974  | .650  | 1.160 | .052  | N.A.    | 1.230 | 1.498   | 1.312 | .123  | 12.00     |
|        | 025301   | 24       | 5/16       |  |                         |       |       |       |       |         |       |         |       |       |           |
|        | 025302   |          | 1/4        |  |                         |       |       |       |       |         |       |         |       |       |           |
|        | 025303   |          | 5/16       |  |                         |       |       |       |       |         |       |         |       |       |           |
| FB-15  | 025400   | 90       | 5/16       | set screws   | 10                      | 1.304 | .867  | 1.500 | .063  | N.A.    | 1.567 | 1.999   | 1.750 | .156  | 12.00     |
|        | 025401   | 24       | 3/8        |  |                         |       |       |       |       |         |       |         |       |       |           |
|        | 025402   |          | 5/16       |  |                         |       |       |       |       |         |       |         |       |       |           |
|        | 025403   |          | 3/8        |  |                         |       |       |       |       |         |       |         |       |       |           |
| FB-17  | 025500   | 90       | 5/16       | 1/16x1/32<br>3/32x3/64   | 15                      | 1.269 | .848  | 1.780 | .064  | 0.751   | 1.943 | 2.436   | 2.125 | .186  | 12.00     |
|        | 025501   | 24       | 3/8        |  |                         |       |       |       |       |         |       |         |       |       |           |
|        | 025502   |          | 5/16       |  |                         |       |       |       |       |         |       |         |       |       |           |
|        | 025503   |          | 3/8        |  |                         |       |       |       |       |         |       |         |       |       |           |
| FB-19  | 025600   | 90       | 3/8        | 3/32x3/64<br>1/8x1/16<br>3/32x3/64<br>1/8x1/16   | 25                      | 1.33  | .901  | 2.00  | .062  | 0.751   | 1.943 | 2.436   | 2.125 | 0.186 | 12.00     |
|        | 025601   | 24       | 1/2        |  |                         |       |       |       |       |         |       |         |       |       |           |
|        | 025602   |          | 3/8        |  |                         |       |       |       |       |         |       |         |       |       |           |
|        | 025603   |          | 1/2        |  |                         |       |       |       |       |         |       |         |       |       |           |
| FB-22  | 025700   | 90       | 3/8        | 3/32x3/64<br>1/8x1/16<br>3/32x3/64<br>1/8x1/16   | 50                      | 1.757 | 1.173 | 2.260 | .096  | 1.001   | 2.322 | 2.873   | 2.500 | 0.160 | 18.00     |
|        | 025701   | 24       | 1/2        |  |                         |       |       |       |       |         |       |         |       |       |           |
|        | 025702   |          | 3/8        |  |                         |       |       |       |       |         |       |         |       |       |           |
|        | 025703   |          | 1/2        |  |                         |       |       |       |       |         |       |         |       |       |           |
| FB-26  | 025800   | 90       | 1/2        | 1/8x1/16<br>3/16x3/32<br>1/8x1/16<br>3/16x3/32   | 80                      | 1.815 | 1.300 | 2.645 | .064  | 1.062   | 2.630 | 3.499   | 3.125 | 0.182 | 18.00     |
|        | 025801   | 24       | 5/8        |  |                         |       |       |       |       |         |       |         |       |       |           |
|        | 025802   |          | 1/2        |  |                         |       |       |       |       |         |       |         |       |       |           |
|        | 025803   |          | 5/8        |  |                         |       |       |       |       |         |       |         |       |       |           |
| FB-30  | 025900   | 90       | 5/8        | 3/16x3/32<br>3/16x3/32<br>3/16x3/32<br>1/4x1/8   | 125                     | 1.9   | 1.310 | 3.268 | .097  | 1.751   | 3.200 | 4.186   | 3.750 | 0.182 | terminals |
|        | 025901   | 24       | 3/4        |  |                         |       |       |       |       |         |       |         |       |       |           |
|        | 025902   |          | 5/8        |  |                         |       |       |       |       |         |       |         |       |       |           |
|        | 025903   |          | 3/4        |  |                         |       |       |       |       |         |       |         |       |       |           |
| FB-42  | 026000   | 90       | 5/8        | 3/16x3/32<br>3/16x3/32<br>3/16x3/32<br>1/4x1/8<br>3/16x3/32<br>3/16x3/32<br>3/16x3/32<br>1/4x1/8 | 250                     | 2.28  | 1.490 | 4.270 | .097  | 1.875   | 4.255 | 5.624   | 5.000 | 0.276 | terminals |
|        | 026001   |          | 3/4        |  |                         |       |       |       |       |         |       |         |       |       |           |
|        | 026004   |          | 7/8        |  |                         |       |       |       |       |         |       |         |       |       |           |
|        | 026005   | 1        |            |  |                         |       |       |       |       |         |       |         |       |       |           |
|        | 026002   | 24       | 5/8        |  |                         |       |       |       |       |         |       |         |       |       |           |
|        | 026003   |          | 3/4        |  |                         |       |       |       |       |         |       |         |       |       |           |
|        | 026006   |          | 7/8        |  |                         |       |       |       |       |         |       |         |       |       |           |
| 026007 | 1        |          |            |  |                         |       |       |       |       |         |       |         |       |       |           |

★ Consult DODGE for other bore sizes

|                                  |                              |                          |                                      |
|----------------------------------|------------------------------|--------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT2-24 | SPECIFICATION<br>PAGE PT2-25 | SELECTION<br>PAGE PT2-26 | ENGINEERING/TECHNICAL<br>PAGE PT2-38 |
|----------------------------------|------------------------------|--------------------------|--------------------------------------|

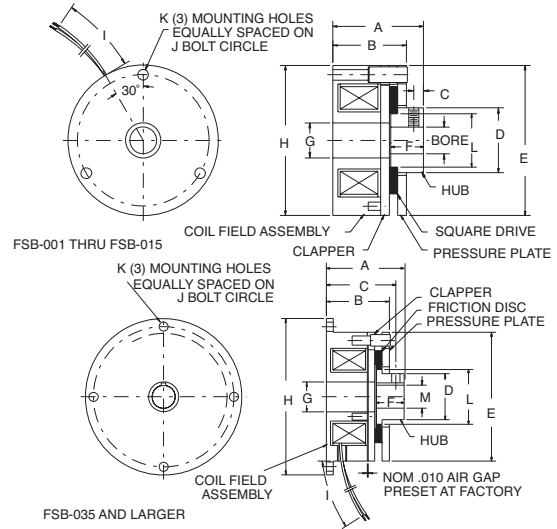


# SELECTION/DIMENSIONS



**FSB Series**

FSB SERIES Power Off Brakes are designed to decelerate or park inertial loads when the voltage is turned off, either intentionally or accidentally (as in the case of a power failure). These units can be bulkhead or motor mounted and are available in seven torque ranges and shaft sizes 3/16" to 3/4". These units employ unique friction material for long life and quiet operation.



## FSB Series Dimensions

| Size    | Part No. | Volts  | Bore In. ★ | Nominal Keyway | Static Torque (Lb.-In.) | A Max | B Nom | C Nom | D Max | E Max | F Min | G Nom | H Max | I ±.500 | J Nom | K Min |
|---------|----------|--------|------------|----------------|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|
| FSB-001 | 026100   | 90 DC  | 3/16       | set screws     | 1                       | 0.890 | .710  | .072  | .510  | 1.485 | .320  | .280  | 1.375 | 12.0    | 1.180 | .124  |
|         | 026101   | 90 DC  | 1/4        |                |                         |       |       |       |       |       |       |       |       |         |       |       |
|         | 026102   | 24 DC  | 3/16       |                |                         |       |       |       |       |       |       |       |       |         |       |       |
|         | 026103   | 24 DC  | 1/4        |                |                         |       |       |       |       |       |       |       |       |         |       |       |
|         | 026104   | 120 AC | 3/16       |                |                         |       |       |       |       |       |       |       |       |         |       |       |
|         | 026105   | 120 AC | 1/4        |                |                         |       |       |       |       |       |       |       |       |         |       |       |
| FSB-003 | 026200   | 90 DC  | 1/4        | set screws     | 3                       | 1.060 | .870  | .115  | 0.755 | 1.910 | .380  | .410  | 1.752 | 12.0    | 1.545 | .124  |
|         | 026201   | 90 DC  | 5/16       |                |                         |       |       |       |       |       |       |       |       |         |       |       |
|         | 026202   | 24 DC  | 1/4        |                |                         |       |       |       |       |       |       |       |       |         |       |       |
|         | 026203   | 24 DC  | 5/16       |                |                         |       |       |       |       |       |       |       |       |         |       |       |
|         | 026204   | 120 AC | 1/4        |                |                         |       |       |       |       |       |       |       |       |         |       |       |
|         | 026205   | 120 AC | 5/16       |                |                         |       |       |       |       |       |       |       |       |         |       |       |
| FSB-007 | 026300   | 90 DC  | 5/16       | 1/16x1/32      | 7                       | 1.400 | 1.200 | 1.255 | 0.722 | 2.465 | .605  | .781  | 2.436 | 12.0    | 2.125 | .172  |
|         | 026301   | 90 DC  | 3/8        | 3/32x3/64      |                         |       |       |       |       |       |       |       |       |         |       |       |
|         | 026302   | 24 DC  | 5/16       | 1/16x1/32      |                         |       |       |       |       |       |       |       |       |         |       |       |
|         | 026303   | 24 DC  | 3/8        | 3/32x3/64      |                         |       |       |       |       |       |       |       |       |         |       |       |
|         | 026304   | 120 AC | 5/16       | 1/16x1/32      |                         |       |       |       |       |       |       |       |       |         |       |       |
|         | 026305   | 120 AC | 3/8        | 3/32x3/64      |                         |       |       |       |       |       |       |       |       |         |       |       |
| FSB-015 | 026400   | 90 DC  | 5/16       | 1/16x1/32      | 15                      | 1.400 | 1.200 | 1.255 | 0.722 | 2.465 | .605  | .781  | 2.436 | 12.0    | 2.125 | 0.172 |
|         | 026401   | 90 DC  | 3/8        | 3/32x3/64      |                         |       |       |       |       |       |       |       |       |         |       |       |
|         | 026402   | 24 DC  | 5/16       | 1/16x1/32      |                         |       |       |       |       |       |       |       |       |         |       |       |
|         | 026403   | 24 DC  | 3/8        | 3/32x3/64      |                         |       |       |       |       |       |       |       |       |         |       |       |
|         | 026404   | 120 AC | 5/16       | 1/16x1/32      |                         |       |       |       |       |       |       |       |       |         |       |       |
|         | 026405   | 120 AC | 3/8        | 3/32x3/64      |                         |       |       |       |       |       |       |       |       |         |       |       |
| FSB-035 | 026500   | 90 DC  | 1/2        | 1/8x1/16       | 35                      | 2.090 | 1.920 | 1.960 | 1.000 | 3.010 | .580  | .891  | 3.500 | 18.0    | 3.125 | 0.200 |
|         | 026501   | 90 DC  | 5/8        | 3/16x3/32      |                         |       |       |       |       |       |       |       |       |         |       |       |
|         | 026502   | 24 DC  | 1/2        | 1/8x1/16       |                         |       |       |       |       |       |       |       |       |         |       |       |
|         | 026503   | 24 DC  | 5/8        | 3/16x3/32      |                         |       |       |       |       |       |       |       |       |         |       |       |
|         | 026504   | 120 AC | 1/2        | 1/8x1/16       |                         |       |       |       |       |       |       |       |       |         |       |       |
|         | 026505   | 120 AC | 5/8        | 3/16x3/32      |                         |       |       |       |       |       |       |       |       |         |       |       |
| FSB-050 | 026600   | 90 DC  | 1/2        | 1/8x1/16       | 50                      | 2.090 | 1.920 | 1.960 | 1.000 | 3.010 | .580  | .891  | 3.500 | 18.0    | 3.125 | 0.200 |
|         | 026601   | 90 DC  | 5/8        | 3/16x3/32      |                         |       |       |       |       |       |       |       |       |         |       |       |
|         | 026602   | 24 DC  | 1/2        | 1/8x1/16       |                         |       |       |       |       |       |       |       |       |         |       |       |
|         | 026603   | 24 DC  | 5/8        | 3/16x3/32      |                         |       |       |       |       |       |       |       |       |         |       |       |
|         | 026604   | 120 AC | 1/2        | 1/8x1/16       |                         |       |       |       |       |       |       |       |       |         |       |       |
|         | 026605   | 120 AC | 5/8        | 3/16x3/32      |                         |       |       |       |       |       |       |       |       |         |       |       |
| FSB-100 | 026800   | 90 DC  | 5/8        | 3/16x3/32      | 100                     | 2.320 | 2.080 | 2.100 | .975  | 4.000 | .555  | 1.188 | 5.250 | 18.0    | 4.750 | 0.216 |
|         | 026801   | 90 DC  | 3/4        |                |                         |       |       |       |       |       |       |       |       |         |       |       |
|         | 026802   | 24 DC  | 5/8        |                |                         |       |       |       |       |       |       |       |       |         |       |       |
|         | 026803   | 24 DC  | 3/4        |                |                         |       |       |       |       |       |       |       |       |         |       |       |
|         | 026804   | 120 AC | 5/8        |                |                         |       |       |       |       |       |       |       |       |         |       |       |
|         | 026805   | 120 AC | 3/4        |                |                         |       |       |       |       |       |       |       |       |         |       |       |

★ Consult DODGE for other bore sizes

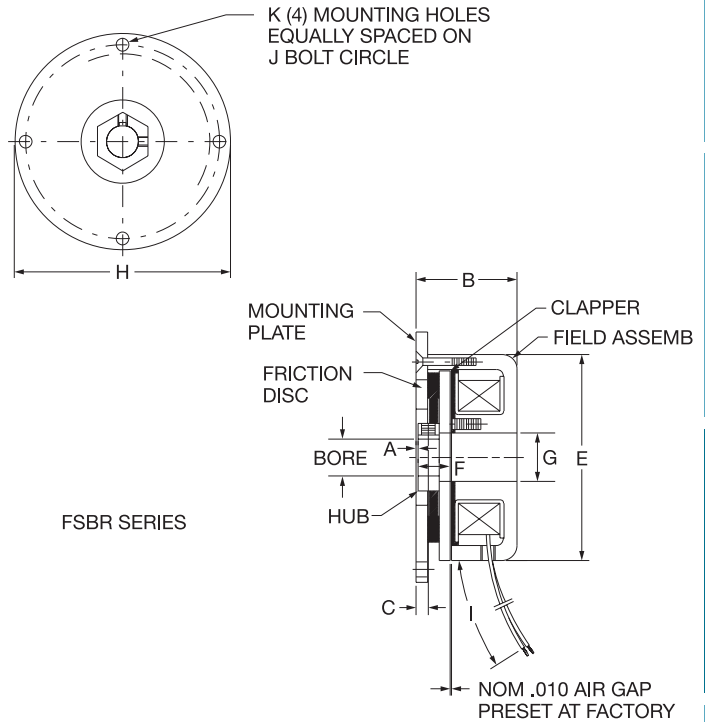
|                                  |                              |                          |                                      |
|----------------------------------|------------------------------|--------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT2-24 | SPECIFICATION<br>PAGE PT2-25 | SELECTION<br>PAGE PT2-26 | ENGINEERING/TECHNICAL<br>PAGE PT2-38 |
|----------------------------------|------------------------------|--------------------------|--------------------------------------|

# SELECTION/DIMENSIONS



## FSBR Series

FSBR SERIES Power Off Brakes are designed for applications requiring minimum space or on motors with short shaft extensions. When mounted, the armature hub on these units is not exposed like the FSB series. These units are available in five torque ranges and shaft sizes from 5/16" thru 3/4". Unique friction material is employed for long wear life and quiet operation.



### FSBR Series Dimensions

| Size     | Part No. | Volts  | Bore In. ★ | Nominal Keyway | Static Torque (Lb.-In.) | A ● Max | B Nom | C Nom | E Max | F Min | G Nom | H Max | I .500 | J Nom | K Min |
|----------|----------|--------|------------|----------------|-------------------------|---------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| FSBR-007 | 026900   | 90 DC  | 5/16       | 1/16x1/32      | 7                       | .062    | .960  | .115  | 2.260 | .605  | .781  | 3.235 | 12.0   | 2.844 | .172  |
|          | 026901   | 90 DC  | 3/8        | 3/32x3/64      |                         |         |       |       |       |       |       |       |        |       |       |
|          | 026902   | 24 DC  | 5/16       | 1/16x1/32      |                         |         |       |       |       |       |       |       |        |       |       |
|          | 026903   | 24 DC  | 3/8        | 3/32x3/64      |                         |         |       |       |       |       |       |       |        |       |       |
|          | 026904   | 120 AC | 5/16       | 1/16x1/32      |                         |         |       |       |       |       |       |       |        |       |       |
| 026905   | 120 AC   | 3/8    | 3/32x3/64  |                |                         |         |       |       |       |       |       |       |        |       |       |
| FSBR-015 | 027000   | 90 DC  | 5/16       | 1/16x1/32      | 15                      | .062    | 1.200 | .115  | 2.400 | .605  | .945  | 3.235 | 12.0   | 2.844 | .172  |
|          | 027001   | 90 DC  | 3/8        | 3/32x3/64      |                         |         |       |       |       |       |       |       |        |       |       |
|          | 027002   | 24 DC  | 5/16       | 1/16x1/32      |                         |         |       |       |       |       |       |       |        |       |       |
|          | 027003   | 24 DC  | 3/8        | 3/32x3/64      |                         |         |       |       |       |       |       |       |        |       |       |
|          | 027004   | 120 AC | 5/16       | 1/16x1/32      |                         |         |       |       |       |       |       |       |        |       |       |
| 027005   | 120 AC   | 3/8    | 3/16x3/32  |                |                         |         |       |       |       |       |       |       |        |       |       |
| FSBR-035 | 027100   | 90 DC  | 1/2        | 1/8x1/16       | 35                      | .094    | 1.905 | .239  | 2.810 | .280  | .891  | 3.500 | 18.0   | 3.125 | .200  |
|          | 027101   | 90 DC  | 5/8        | 3/16x3/32      |                         |         |       |       |       |       |       |       |        |       |       |
|          | 027102   | 24 DC  | 1/2        | 1/8x1/16       |                         |         |       |       |       |       |       |       |        |       |       |
|          | 027103   | 24 DC  | 5/8        | 3/16x3/32      |                         |         |       |       |       |       |       |       |        |       |       |
|          | 027104   | 120 AC | 1/2        | 1/8x1/16       |                         |         |       |       |       |       |       |       |        |       |       |
| 027105   | 120 AC   | 5/8    | 3/16x3/32  |                |                         |         |       |       |       |       |       |       |        |       |       |
| FSBR-050 | 027200   | 90 DC  | 1/2        | 1/8x1/16       | 50                      | .094    | 1.905 | .239  | 2.810 | .280  | .891  | 3.500 | 18.0   | 3.125 | .200  |
|          | 027201   | 90 DC  | 5/8        | 3/16x3/32      |                         |         |       |       |       |       |       |       |        |       |       |
|          | 027202   | 24 DC  | 1/2        | 1/8x1/16       |                         |         |       |       |       |       |       |       |        |       |       |
|          | 027203   | 24 DC  | 5/8        | 3/16x3/32      |                         |         |       |       |       |       |       |       |        |       |       |
|          | 027204   | 120 AC | 1/2        | 1/8x1/16       |                         |         |       |       |       |       |       |       |        |       |       |
| 027205   | 120 AC   | 5/8    | 3/16x3/32  |                |                         |         |       |       |       |       |       |       |        |       |       |
| FSBR-100 | 027400   | 90 DC  | 5/8        | 3/16x3/32      | 100                     | .140    | 1.870 | .610  | 4.000 | .575  | 1.188 | 5.250 | 18.0   | 4.750 | .216  |
|          | 027401   | 90 DC  | 3/4        |                |                         |         |       |       |       |       |       |       |        |       |       |
|          | 027402   | 24 DC  | 5/8        |                |                         |         |       |       |       |       |       |       |        |       |       |
|          | 027403   | 24 DC  | 3/4        |                |                         |         |       |       |       |       |       |       |        |       |       |
|          | 027404   | 120 AC | 5/8        |                |                         |         |       |       |       |       |       |       |        |       |       |
| 027405   | 120 AC   | 3/4    |            |                |                         |         |       |       |       |       |       |       |        |       |       |

● Required distance between Hub & Mounting surface

★ Consult DODGE for other bore sizes

|                                  |                              |                          |                                      |
|----------------------------------|------------------------------|--------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT2-24 | SPECIFICATION<br>PAGE PT2-25 | SELECTION<br>PAGE PT2-26 | ENGINEERING/TECHNICAL<br>PAGE PT2-38 |
|----------------------------------|------------------------------|--------------------------|--------------------------------------|



## Power Supplies



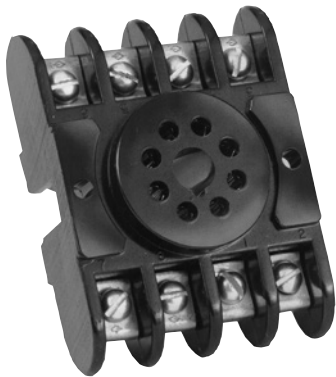
### Model 50 - Conduit box Supply

- Controls one Brake or Clutch
- Input: 120 VAC; 50/60 Hz
- Output: 90 VDC
- Rating: 0.8 amps
- Full wave rectifier
- Dimensions: 5/8" H, 2" W, 1-3/8" D
- Part Number **032408**



### Model 75 - Conduit Box Supply

- Controls one Brake or Clutch
- Input: 230 VAC; 50/60 Hz, 1 Phase
- Output: 90 VDC Nominal
- Rating: 0.4 amp Maximum
- Dimensions: 0.62" H, 1.40" W, 0.90" D
- Part Number: **030336**



### Octal Socket

- Socket used with Model 100, 200 and 250 power supplies
- Prewired
- U. L. approved
- Industry Standard design
- Dimensions: 3/4" H, 2 1/2" W, 2" D
- Part Number: **032401**



### Model 100-Octal Base Mount

- Controls one brake or clutch
- Used with octal socket
- Full wave rectifier
- Input: 120 VAC; 50/60 Hz
- Output: 90 VDC
- Rating: 1.5 amps
- Dimensions: 2" H, 2" W, 2" D
- Part Number: **032400**





## Power Supplies



### Model 200-Octal Base Mount w/Fuse

- Controls one brake and clutch, or two clutches or two brakes
- Input: 120 VAC; 50/60 Hz fused
- Output: 90 VDC
- Used with octal socket
- Full wave rectifier
- Rating: 1.5 amps
- Fused for overload protection
- Dimensions: 2 1/2, H, 2, W, 2, D
- Part Number: **032402**



### Model 250 - Octal Base Mount

- Controls one Brake and Clutch; or two Clutches or two Brakes
- Used with Octal Socket
- Input: 115 VAC; 50/60 Hz
- Output: 15-90 VDC Nominal one unit, 90 VDC for the other unit
- Rating: 0.5 amp Maximum
- Dimensions: 2.88" H, 2.38" W, 1.75" D
- Part Number: **030337**

|                                  |                              |                          |                                      |
|----------------------------------|------------------------------|--------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT2-24 | SPECIFICATION<br>PAGE PT2-25 | SELECTION<br>PAGE PT2-26 | ENGINEERING/TECHNICAL<br>PAGE PT2-38 |
|----------------------------------|------------------------------|--------------------------|--------------------------------------|





## Motor Brakes

### Motor Brake Coil Data

DODGE D-Series motor brakes are equipped with DC voltage coils which are capable of a variety of nameplate voltage possibilities. Please consult Voltage Notes below the chart for these capabilities.

| Coil Voltage          | 3 and 6 Ft.-Lb      |                   | 10 thru 50 Ft.-Lb   |                   |
|-----------------------|---------------------|-------------------|---------------------|-------------------|
|                       | Current Draw (Amps) | Resistance (Ohms) | Current Draw (Amps) | Resistance (Ohms) |
| 115/230 VAC 60 Hz (1) | 0.19                | 562               | 0.28                | 387               |
| 230/460 VAC 60 Hz (2) | 0.10                | 2078              | 0.14                | 1550              |
| 287/575 VAC 60 Hz (3) | 0.09                | 2987              | 0.12                | 2245              |
| 104/208 VAC 60 Hz (4) | 0.24                | 384               | 0.31                | 290               |
| 190/380 VAC 50 Hz (5) | 0.13                | 1341              | 0.19                | 923               |
| 250/500 VAC 50 Hz     | 0.10                | 2336              | 0.13                | 1793              |
| 48 VDC                | 0.48                | 100               | 0.58                | 82                |
| 24 VDC                | 0.97                | 24.70             | 1.14                | 21.70             |
| 12 VDC                | 1.95                | 6.16              | 2.24                | 5.40              |

### Voltage News:

- 115/208-230 VAC 50 or 60 Hz, 133/265 VAC 60 Hz, 110-125 VDC
- 208-230/460 VAC 50 or 60 Hz, 240/480 VAC 60 Hz, 220/440 VAC 50 Hz, 230 VDC
- 287/575 VAC 60 Hz, 275/550 VAC 60 Hz, 300/600 VAC 60 Hz
- 104/208 VAC 50 or 60 Hz, 100/200 VAC 60 Hz 90-95 VDC
- 190/380 VAC 50 Hz, 260/400 VAC 60 Hz, 208/416 VAC 50 Hz

### General Notes:

- Current and Resistance values are approximate only.
- Current and Resistance for other nameplate voltages may vary slightly. Consult DODGE Engineering for actual values
- Coil Resistance is measured between leads B4 and B5.

### ELECTRICAL CONNECTIONS

Standard DODGE D-Series motor brakes operate on single phase, dual voltage AC.

Connections should be made per Chart 1 (similar chart is also included in a label on the brake). To change the operating voltage, simply change the wiring connections per Chart 1.

When changing brake wiring connections for operation at another voltage, be sure to verify the brake's compatibility with the voltage desired.

Consult Instruction Manual #499765 for complete details on Electrical Connections of DODGE D-Series motor brakes.

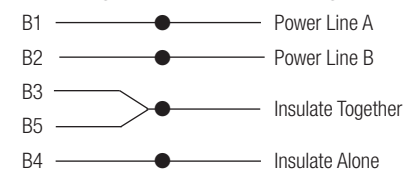
**Chart 1**

| Voltage             | Power Line A | Power Line B | Insulate Together | Insulate Alone |
|---------------------|--------------|--------------|-------------------|----------------|
| AC Voltage-Low (1)  | B1           | B2           | B3 & B5           | B4             |
| AC Voltage-High (1) | B1<br>B5     | B2           | -                 | B3<br>B4       |
| DC Voltage-Low      | B1           | B2           | B3 & B5           | B4             |

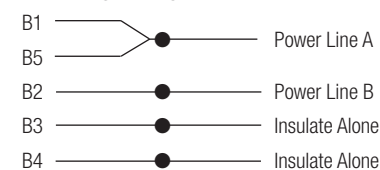
#### Notes:

- Unless specified, all brakes have dual voltage coils. For example, with a 230/460 VAC brake, low voltage = 230 VAC and high voltage = 460 VAC.

#### AC Voltage - Low and DC Voltage



#### AC Voltage - High



PT Component  
Quick References

Couplings

Clutches and Brakes

FLEXIDYNE

Fluid Couplings

TORQUE-TAMER

Bushings



## Clutch/Brake Modules

### Technical Data

| Module Size | Static Torque (Lb-Ft.) | Inertia (Lb-Ft.(2)) |                  | Unit Weight (Lbs.) | 90 VDC |      |       |      | 24 VDC |      |       |      | 6 VDC  |      |       |      |
|-------------|------------------------|---------------------|------------------|--------------------|--------|------|-------|------|--------|------|-------|------|--------|------|-------|------|
|             |                        |                     |                  |                    | Clutch |      | Brake |      | Clutch |      | Brake |      | Clutch |      | Brake |      |
|             |                        | Rotor & Hub         | Armature & Shaft |                    | Amps   | Ohms | Amps  | Ohms | Amps   | Ohms | Amps  | Ohms | Amps   | Ohms | Amps  | Ohms |
| DMCCB-50    | 22                     | .022                | .017             | 11.8               | .207   | 434  | .196  | 460  | .797   | 30.1 | .800  | 30   | 3.23   | .186 | 3.05  | 1.97 |
| DMCCO-50    |                        | .022                | .010             | 9.9                | .207   | 434  | ---   | ---  | .797   | 30.1 | ---   | ---  | 3.23   | ---  | ---   | ---  |
| DMCBO-50    |                        | ---                 | .009             | 6.1                | ---    | ---  | .196  | 460  | ---    | ---  | .800  | 30   | ---    | ---  | 3.05  | 1.97 |
| DMCBX-50    |                        | ---                 | .009             | 6.1                | ---    | ---  | .196  | 460  | ---    | ---  | .800  | 30   | ---    | ---  | 3.05  | 1.97 |
| DMSCB-50    |                        | .023                | .017             | 16.2               | .207   | 434  | .196  | 460  | .797   | 30.1 | .800  | 30   | 3.23   | .186 | 3.05  | 1.97 |
| DMSCO-50    |                        | .023                | .010             | 14.3               | .207   | 434  | ---   | ---  | .797   | 30.1 | ---   | ---  | 3.23   | .186 | ---   | ---  |
| DMCCB-100   | 34                     | .050                | .049             | 11.9               | .208   | 432  | .189  | 476  | .805   | 29.8 | .743  | 32.3 | 3.23   | .186 | 2.91  | 2.06 |
| DMCCO-100   |                        | .050                | .027             | 10                 | .208   | 432  | ---   | ---  | .805   | 29.8 | ---   | ---  | 3.23   | .186 | ---   | ---  |
| DMCBO-100   |                        | ---                 | .026             | 6.2                | ---    | ---  | .189  | 476  | ---    | ---  | .743  | 32.3 | ---    | ---  | 2.91  | 2.06 |
| DMCBX-100   |                        | ---                 | .026             | 6.2                | ---    | ---  | .189  | 476  | ---    | ---  | .743  | 32.3 | ---    | ---  | 2.91  | 2.06 |
| DMCCB-180   | 34                     | .051                | .050             | 15.9               | .208   | 432  | .189  | 476  | .805   | 29.8 | .743  | 32.3 | 3.23   | .186 | 2.91  | 2.06 |
| DMCCO-180   |                        | .051                | .028             | 12.5               | .208   | 432  | ---   | ---  | .805   | 29.8 | ---   | ---  | 3.23   | .186 | ---   | ---  |
| DMCBO-180   |                        | ---                 | .027             | 7.2                | ---    | ---  | .189  | 476  | ---    | ---  | .743  | 32.3 | ---    | ---  | 2.91  | 2.06 |
| DMCBX-180   |                        | ---                 | .027             | 7.2                | ---    | ---  | .189  | 476  | ---    | ---  | .743  | 32.3 | ---    | ---  | 2.91  | 2.06 |
| DMSCB-180   |                        | .049                | .050             | 19.6               | .208   | 432  | .189  | 476  | .805   | 29.8 | .743  | 32.3 | 3.23   | .186 | 2.91  | 2.06 |
| DMSCO-180   |                        | .049                | .028             | 16.2               | .208   | 432  | ---   | ---  | .805   | 29.8 | ---   | ---  | 3.23   | .186 | ---   | ---  |
| DMCCB-210   | 100                    | .233                | .196             | 44.2               | .390   | 231  | .360  | 250  | 1.61   | 14.9 | 1.480 | 16.2 | 6.67   | .900 | 6.59  | 0.91 |
| DMCCO-210   |                        | .233                | .113             | 38.2               | .390   | 231  | ---   | ---  | 1.61   | 14.9 | ---   | 16.2 | 6.67   | .900 | ---   | ---  |
| DMCBO-210   |                        | ---                 | .100             | 28                 | ---    | ---  | .360  | 250  | ---    | ---  | 1.480 | ---  | ---    | ---  | 6.59  | 0.91 |
| DMCBX-210   |                        | ---                 | .100             | 28                 | ---    | ---  | .360  | 250  | ---    | ---  | 1.480 | ---  | ---    | ---  | 6.59  | 0.91 |
| DMSCB-210   |                        | .240                | .190             | 59.5               | .390   | 231  | .360  | 250  | 1.61   | 14.9 | 1.480 | 16.2 | 6.67   | .900 | 6.59  | 0.91 |
| DMSCO-210   |                        | .240                | .190             | 53.5               | .390   | 231  | ---   | ---  | 1.61   | 14.9 | ---   | 16.2 | 6.67   | .900 | ---   | ---  |
| DMCCB-256   | 100                    | .230                | .200             | 44.4               | .390   | 231  | .360  | 250  | 1.61   | 14.9 | 1.480 | 16.2 | 6.67   | .900 | 6.59  | 0.91 |
| DMCCO-256   |                        | .230                | .110             | 38.4               | .390   | 231  | ---   | ---  | 1.61   | 14.9 | ---   | ---  | 6.67   | .900 | ---   | ---  |
| DMCBO-256   |                        | ---                 | .110             | 28.2               | ---    | ---  | .360  | 250  | ---    | ---  | 1.480 | 16.2 | ---    | ---  | 6.59  | 0.91 |
| DMCBX-256   |                        | ---                 | .110             | 28.2               | ---    | ---  | .360  | 250  | ---    | ---  | 1.480 | 16.2 | ---    | ---  | 6.59  | 0.91 |

Consult DODGE for other voltages

PT Component  
Quick References

Couplings

Clutches and Brakes

FLEXIDYNE

Fluid Couplings

TORQUE-TAMER

Bushings



**Shaft Mounted Clutches & Brakes**

**IEC Series Shaft Mounted Clutches**

| Unit Size | Static Torque (Lb-Ft.) | Max RPM | Inertia (Lb-Ft.2) |                   | 90 VDC |      | 24 VDC |      | 6 VDC |      | Wt.(Lbs.) |
|-----------|------------------------|---------|-------------------|-------------------|--------|------|--------|------|-------|------|-----------|
|           |                        |         | Rotor & Sleeve    | Armature & Sleeve | Amps   | Ohms | Amps   | Ohms | Amps  | Ohms |           |
| IEC-375   | 22                     | 5000    | 0.022             | 0.01              | 0.207  | 434  | 0.797  | 30.1 | 3.23  | 1.86 | 5.5       |
| IEC-475   | 34                     | 4500    | 0.052             | 0.027             | 0.208  | 432  | 0.805  | 29.8 | 3.23  | 1.86 | 9         |
| IEC-650   | 100                    | 3600    | 0.214             | 0.107             | 0.39   | 231  | 1.61   | 14.9 | 6.67  | 0.9  | 19.5      |
| IEC-825   | 175                    | 3600    | 0.417             | 0.268             | 0.405  | 222  | 1.66   | 14.5 | 5.41  | 1.11 | 29        |

Consult DODGE for other voltages.

**IEB Series Shaft Mounted Brakes/IPB Series Flange Mounted Brakes**

| Unit Size   | Static Torque (Lb-Ft.) | Max Speed RPM | Inertia (Lb-Ft2) Armature & Hub | 90 VDC |      | 24 VDC |       | 6 VDC |      | Brake Wt. (Lbs.) | Bore Range (In.) | DODGE TAPER LOCK BUSHING |
|-------------|------------------------|---------------|---------------------------------|--------|------|--------|-------|-------|------|------------------|------------------|--------------------------|
|             |                        |               |                                 | Amps   | Ohms | Amps   | Ohms  | Amps  | Ohms |                  |                  |                          |
| IEB/IPB-375 | 22                     | 5000          | .010                            | .196   | 460  | .800   | 30.00 | 3.05  | 1.97 | 4                | 1/2" & 5/8"      | N/A                      |
| IEB/IPB-475 | 34                     | 4500          | .029                            | .189   | 476  | .743   | 32.30 | 2.91  | 2.06 | 6                | 1/2" to 1"       | 1008                     |
| IEB/IPB-650 | 100                    | 3600          | 0.11                            | .360   | 250  | 1.48   | 16.20 | 6.59  | 0.91 | 11               | 1/2" to 1-7/16"  | 1310                     |
| IEB-825     | 175                    | 3600          | 0.33                            | .405   | 222  | 1.66   | 14.50 | 5.41  | 1.11 | 19               | 1/2" to 1-11/16" | 1615                     |

Consult DODGE for other voltages.

\* See page CB-53 (1-1R)

PT Component Quick References

Couplings

Clutches and Brakes

FLEXIDYNE

Fluid Couplings

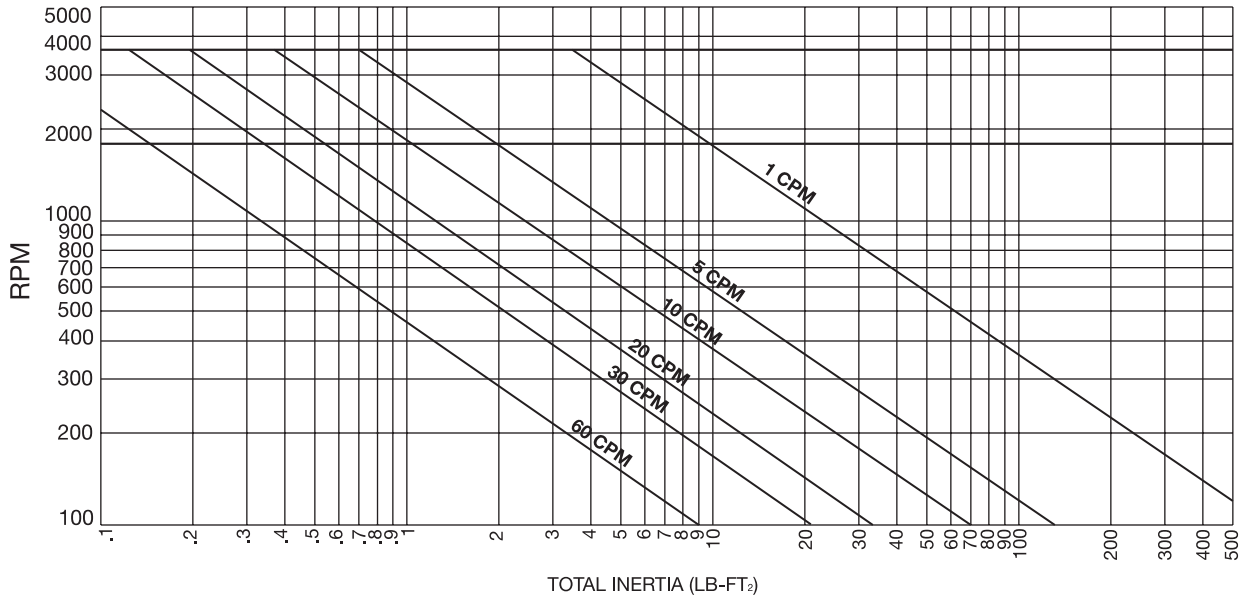
TORQUE-TAMER

Bushings

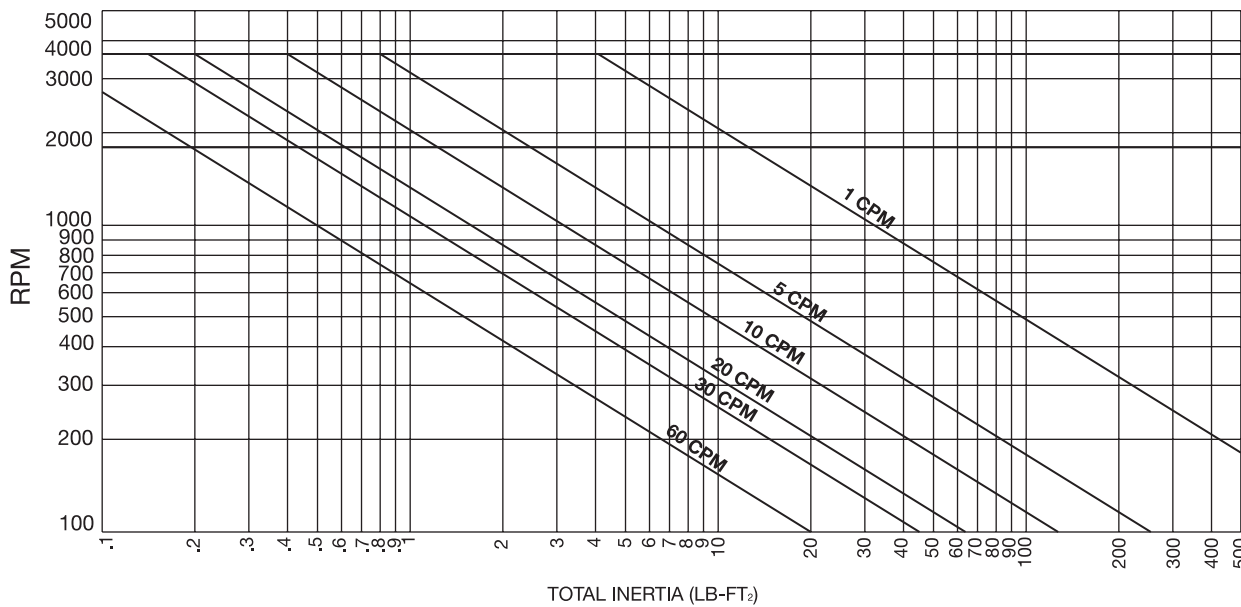


**Clutch/Brake Modules  
ALLOWABLE CYCLE RATES**

**DMCCB-50**



**DMCCB-100**

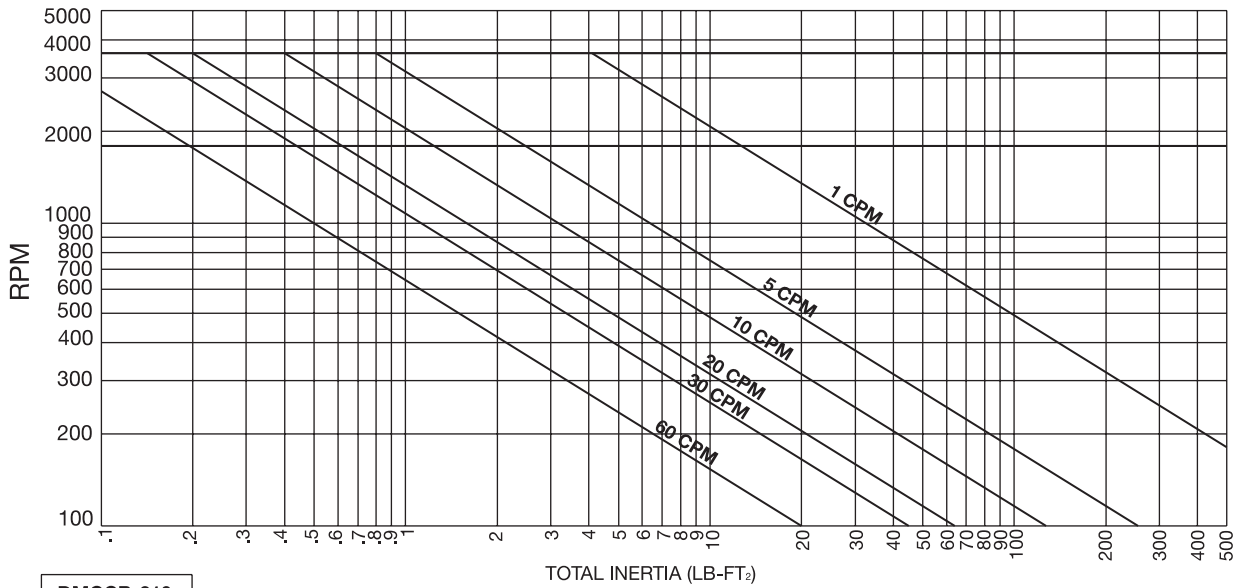


- NOTES:**
1. Consult DODGE for cycle rates that exceed chart.
  2. Max. coil temperature 250°F
  3. Motor fan cooled
  4. 100% current

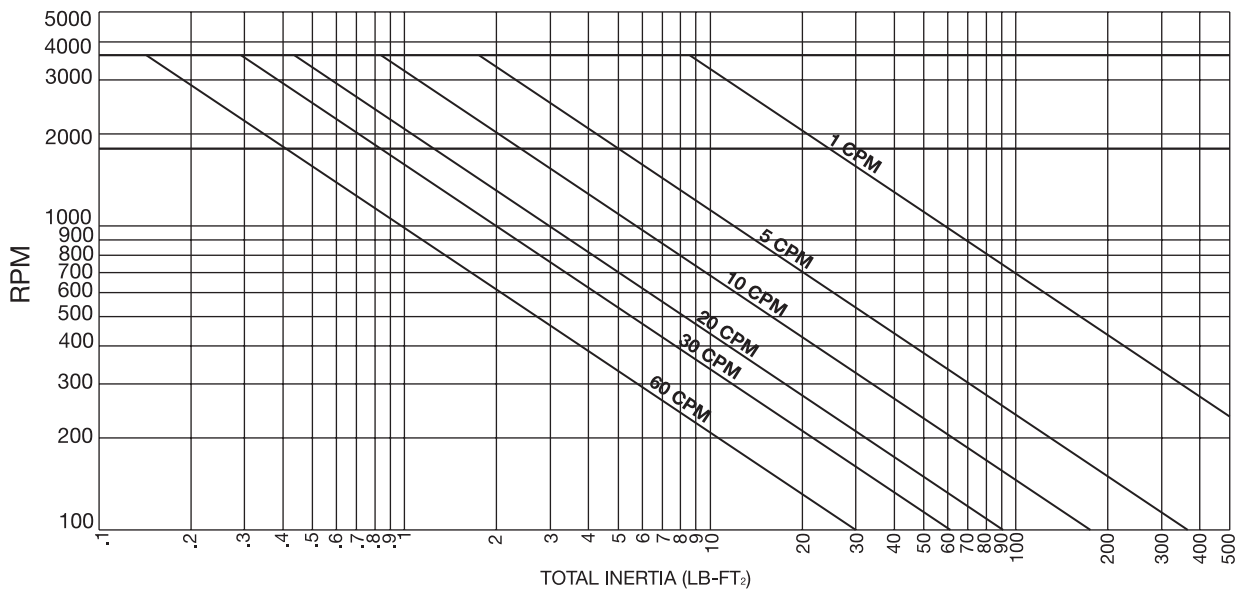


## Clutch/Brake Modules ALLOWABLE CYCLE RATES

**DMCCB-180**



**DMCCB-210**



**NOTES:**

1. Consult DODGE for cycle rates that exceed chart.
2. Max. coil temperature 250°F
3. Motor fan cooled
4. 100% current

PT Component  
Quick References

Couplings

Clutches and Brakes

FLEXIDYNE

Fluid Couplings

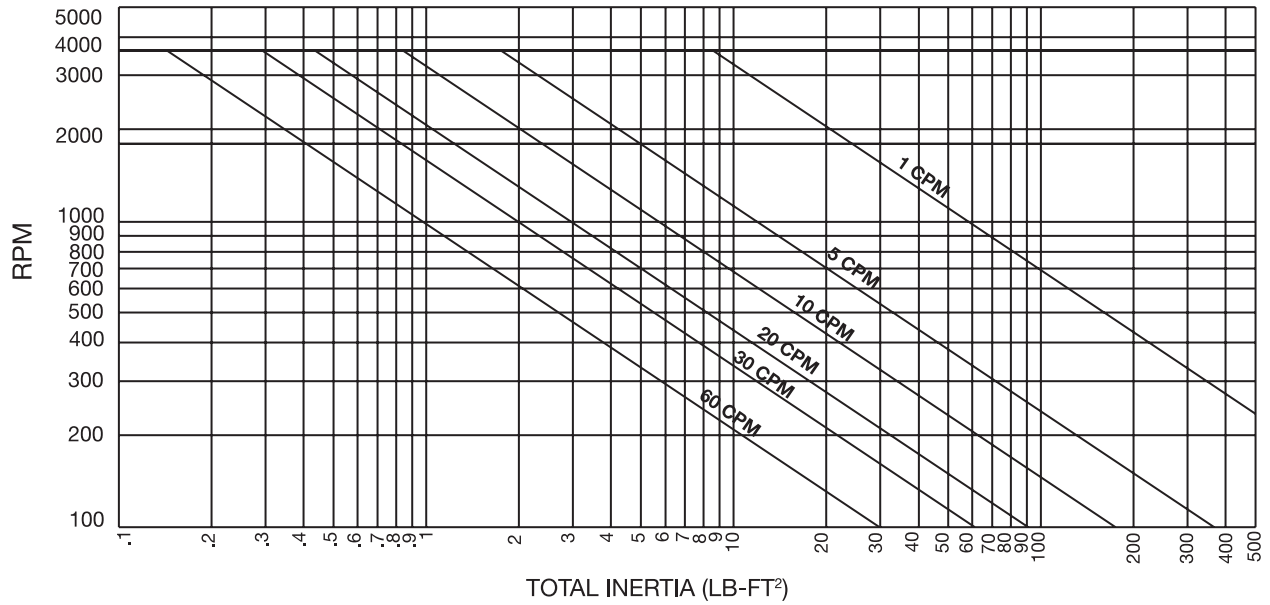
TORQUE-TAMER

Bushings



**Clutch/Brake Modules  
ALLOWABLE CYCLE RATES**

**DMCCB-256**



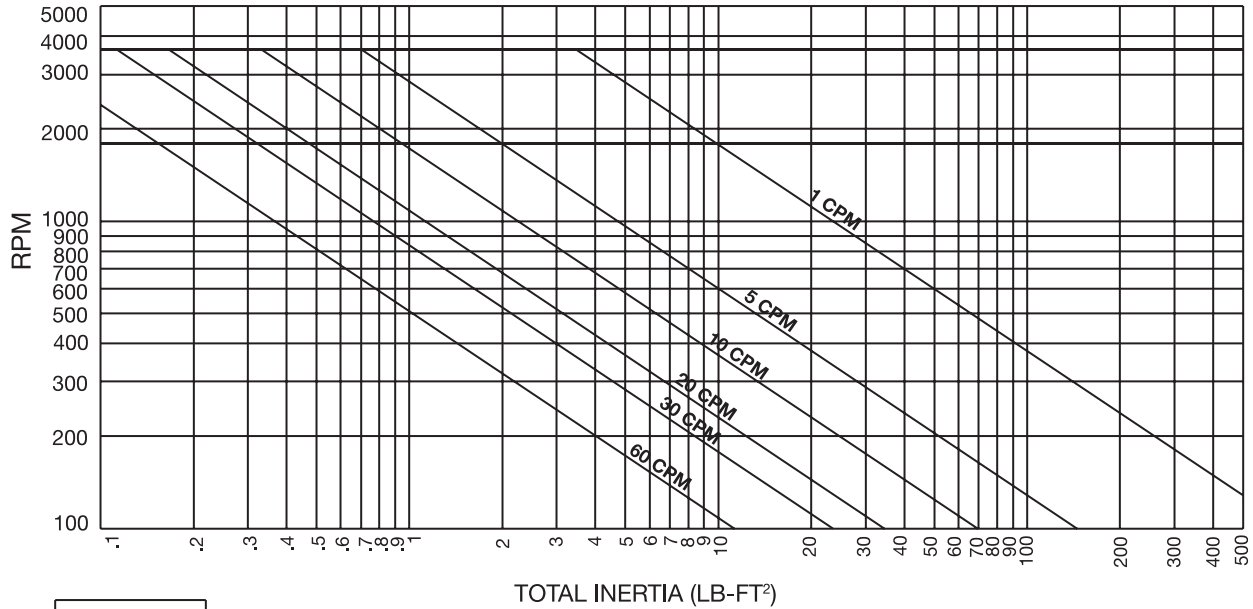
**NOTES:**

1. Consult DODGE for cycle rates that exceed chart.
2. Max. coil temperature 250°F
3. Motor fan cooled
4. 100% current

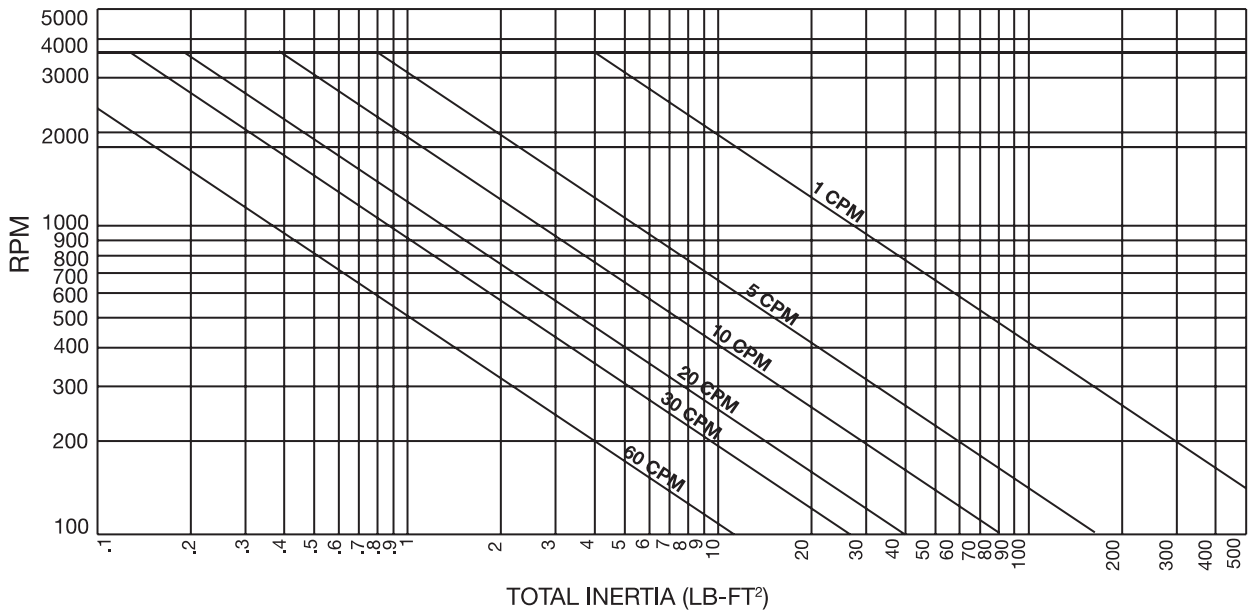


## Clutch/Brake Modules ALLOWABLE CYCLE RATES

**DMCCO-50**



**DMCCO-100**



**NOTES:**

1. Consult DODGE for cycle rates that exceed chart.
2. Max. coil temperature 250°F
3. Motor fan cooled
4. 100% current

PT Component  
Quick References

Couplings

Clutches and Brakes

FLEXIDYNE

Fluid Couplings

TORQUE-TAMER

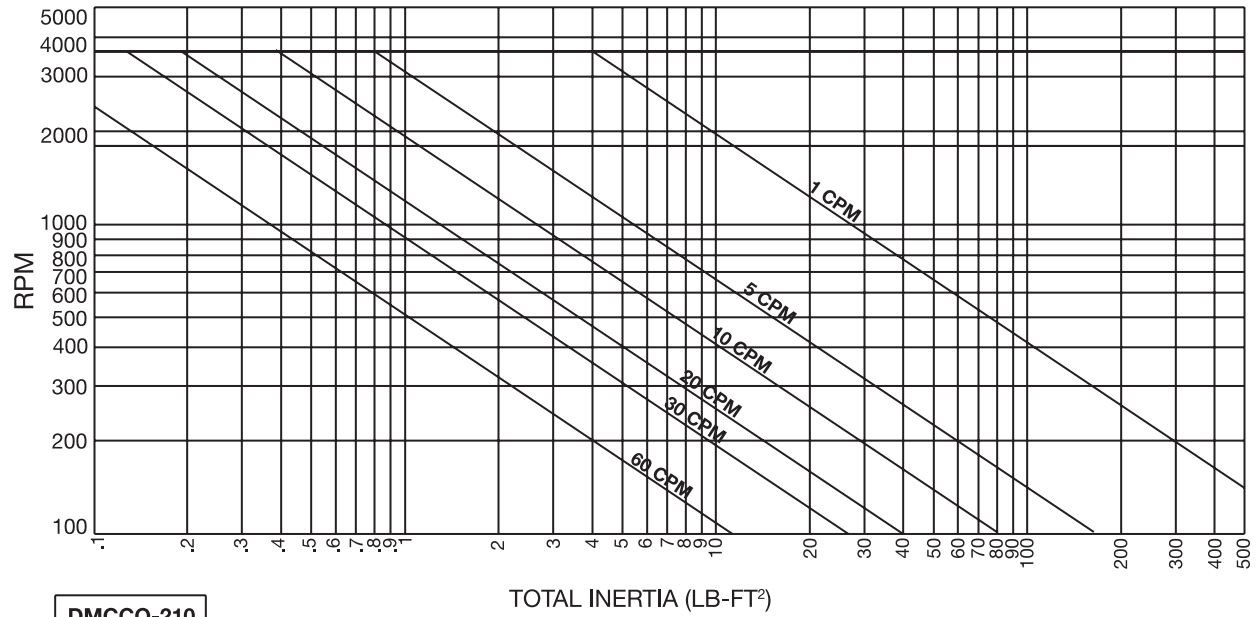
Bushings



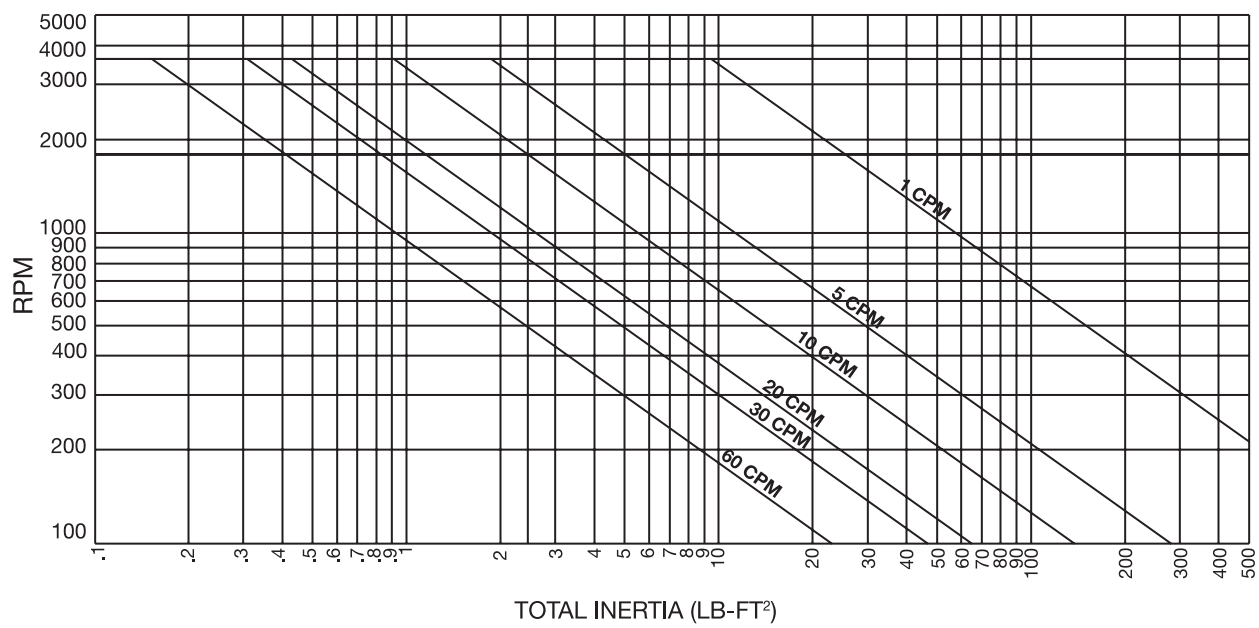


**Clutch/Brake Modules  
ALLOWABLE CYCLE RATES**

**DMCCO-180**



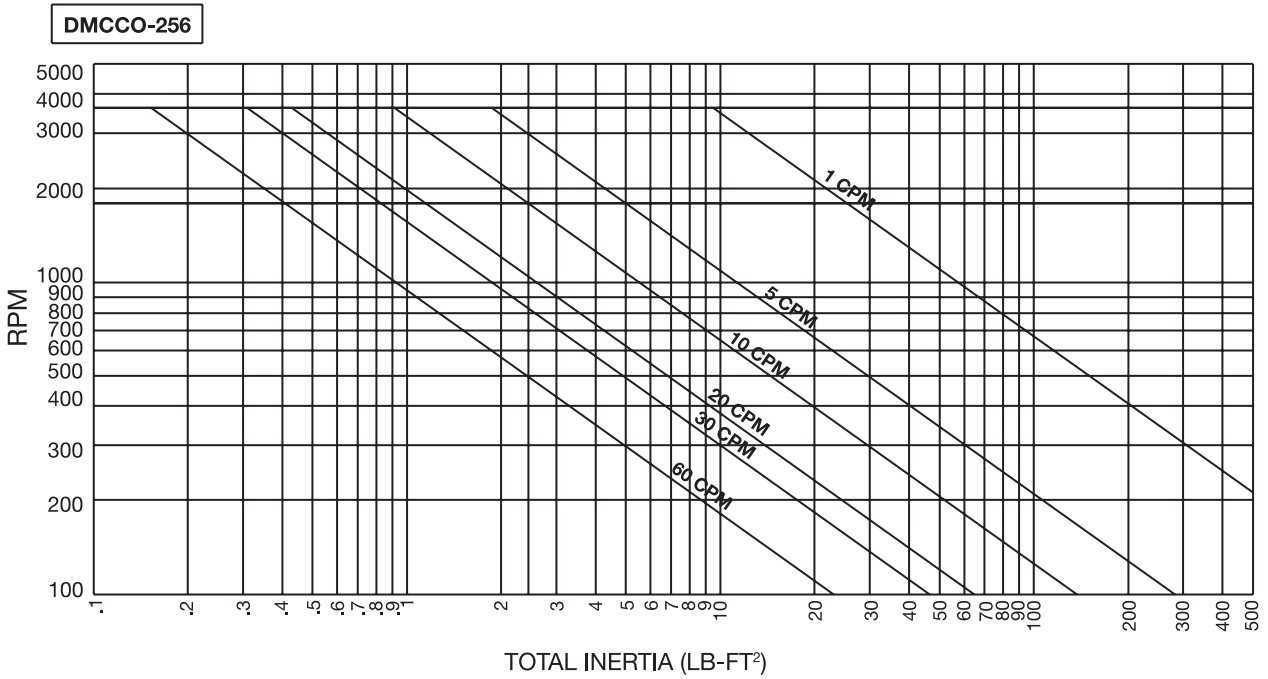
**DMCCO-210**



- NOTES:**
1. Consult DODGE for cycle rates that exceed chart.
  2. Max. coil temperature 250°F
  3. Motor fan cooled
  4. 100% current



**Clutch/Brake Modules  
ALLOWABLE CYCLE RATES**



- NOTES:**
1. Consult DODGE for cycle rates that exceed chart.
  2. Max. coil temperature 250°F
  3. Motor fan cooled
  4. 100% current

PT Component  
Quick References

Couplings

Clutches and Brakes

FLEXIDYNE

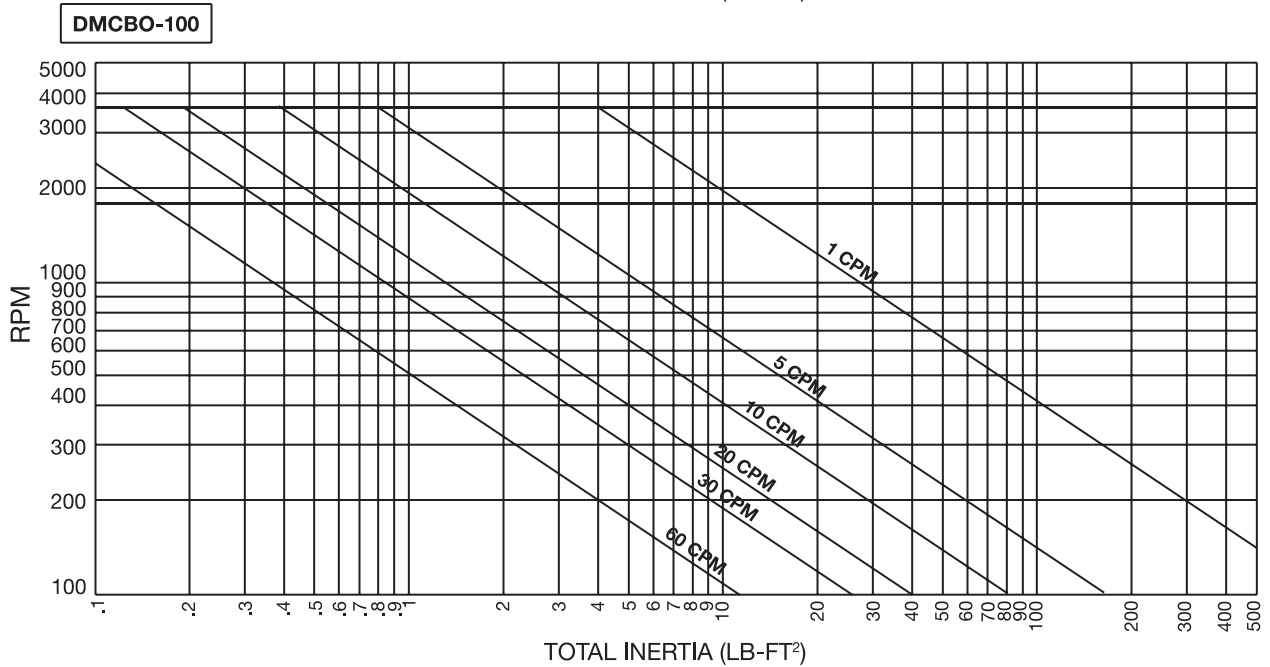
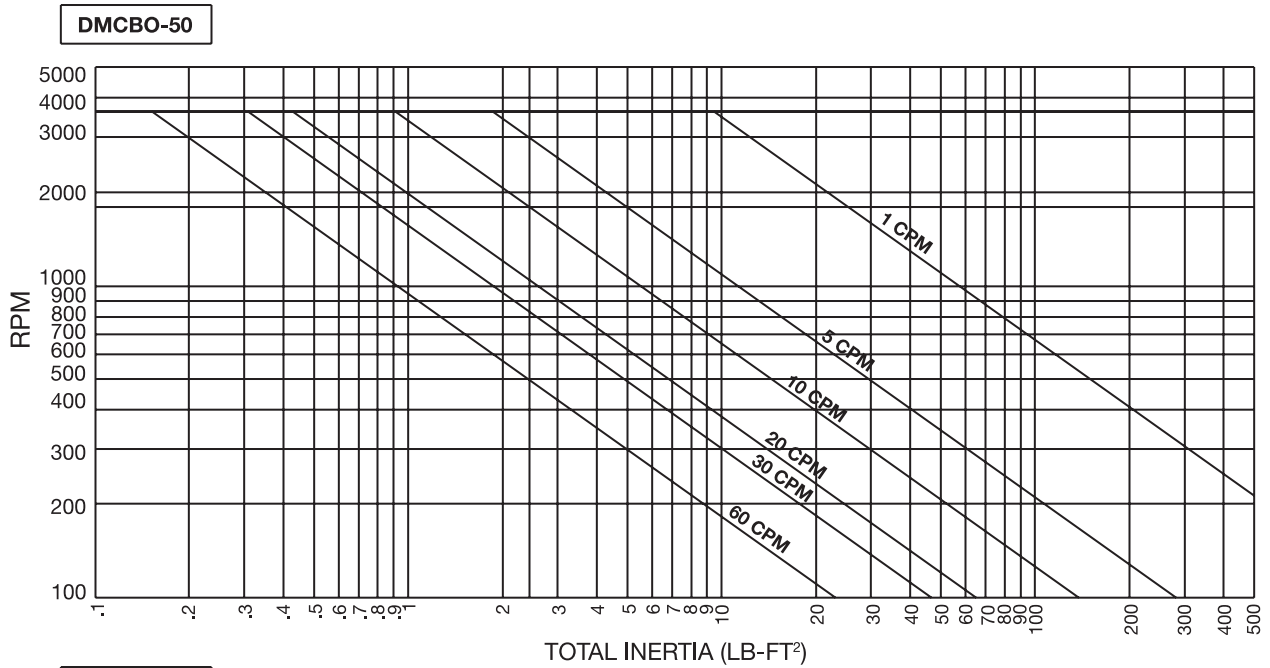
Fluid Couplings

TORQUE-TAMER

Bushings



## Clutch/Brake Modules ALLOWABLE CYCLE RATES



**NOTES:**

1. Consult DODGE for cycle rates that exceed chart.
2. Max. coil temperature 250°F
3. Motor fan cooled
4. 100% current



## Clutch/Brake Modules ALLOWABLE CYCLE RATES

PT Component  
Quick References

Couplings

Clutches and Brakes

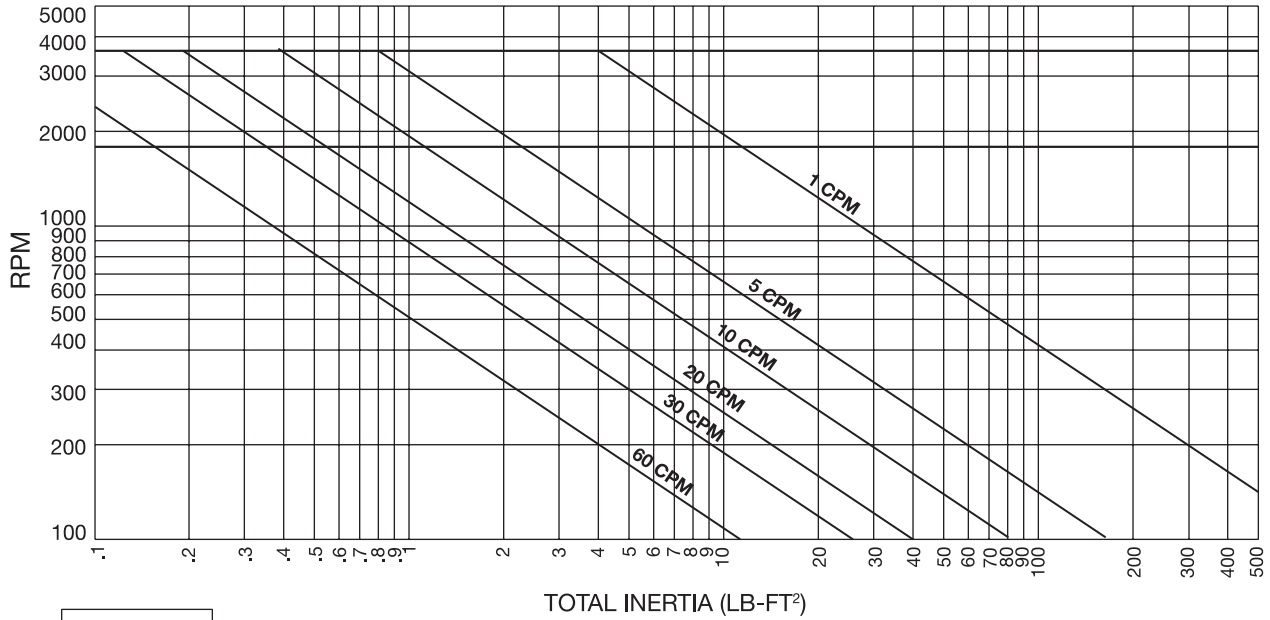
FLEXIDYNE

Fluid Couplings

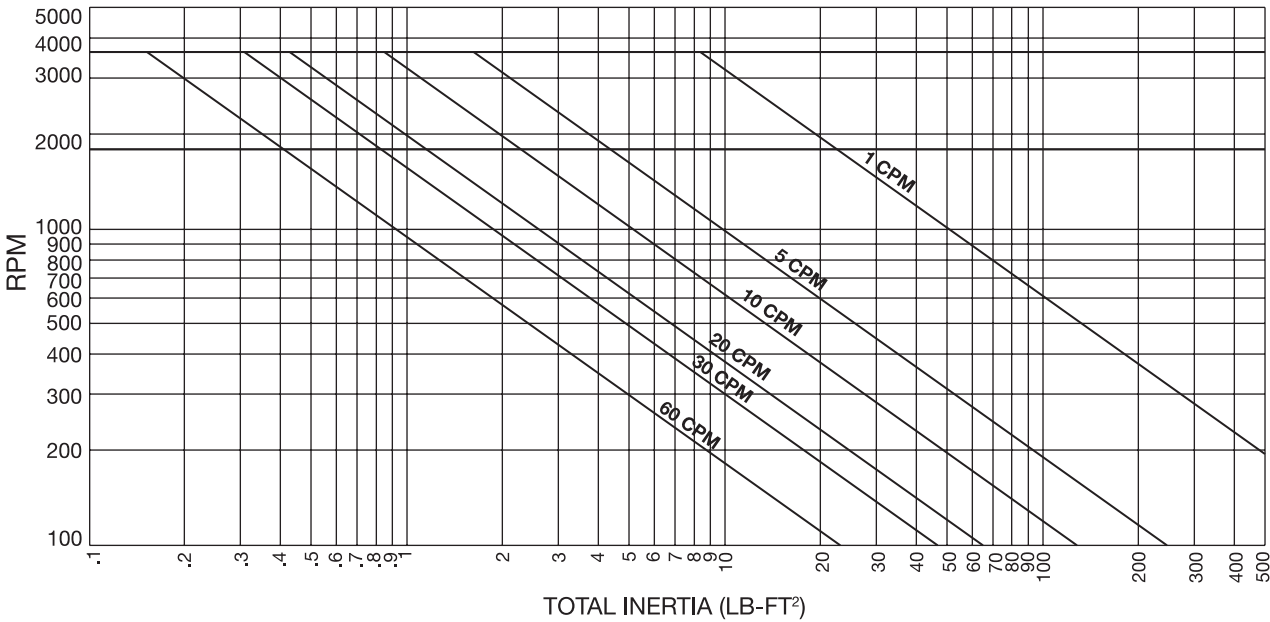
TORQUE-TAMER

Bushings

DMCBO-180



DMCBO-210

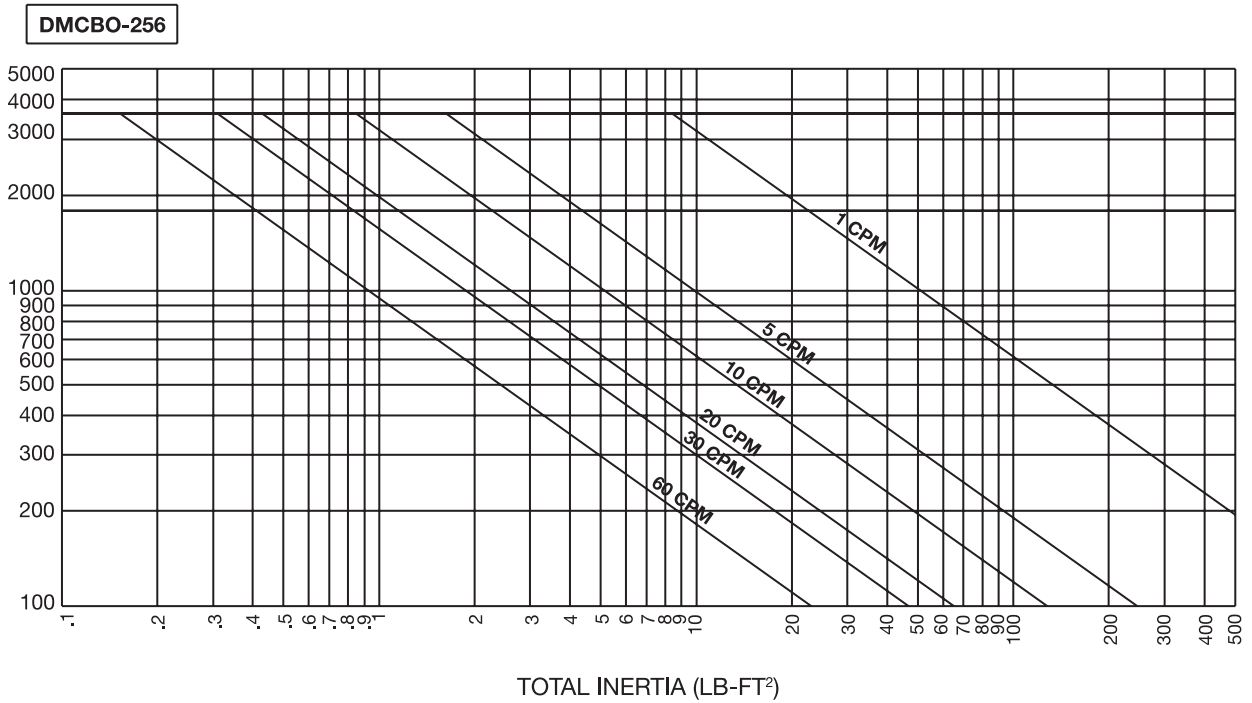


**NOTES:**

1. Consult DODGE for cycle rates that exceed chart.
2. Max. coil temperature 250°F
3. Motor fan cooled
4. 100% current



**Clutch/Brake Modules  
ALLOWABLE CYCLE RATES**



- NOTES:**
1. Consult DODGE for cycle rates that exceed chart.
  2. Max. coil temperature 250°F
  3. Motor fan cooled
  4. 100% current



**Clutch/Brake Modules  
ALLOWABLE CYCLE RATES**

PT Component  
Quick References

Couplings

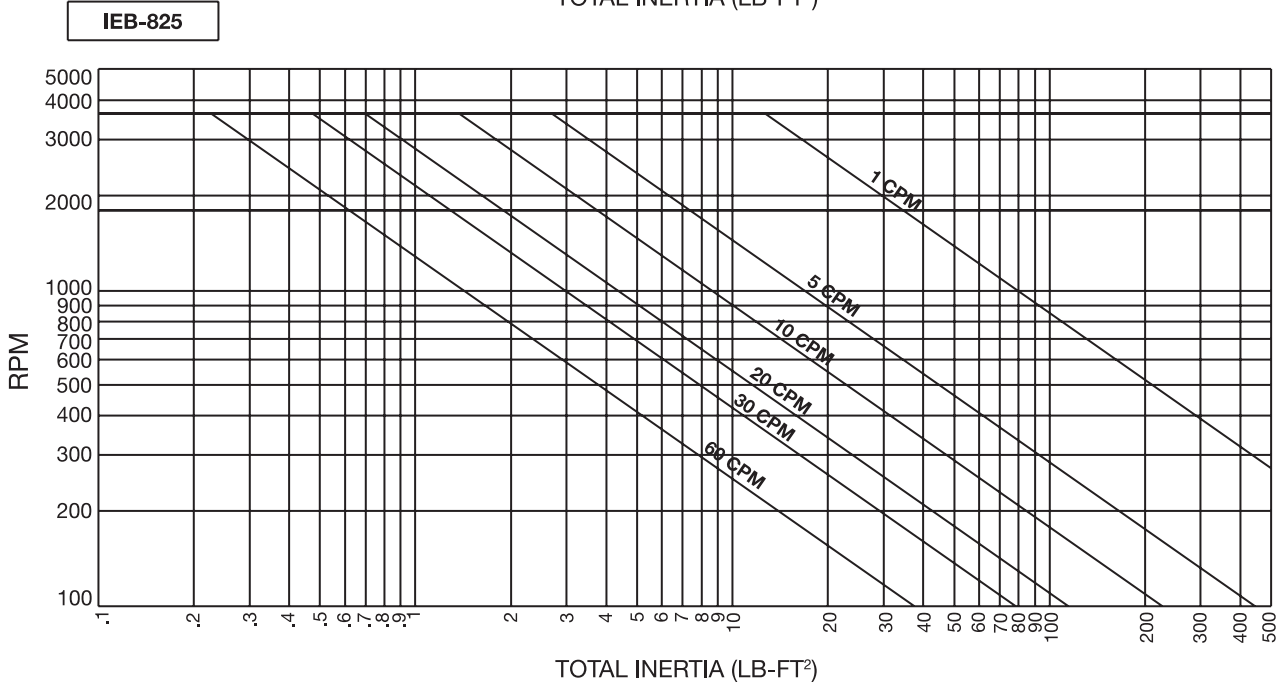
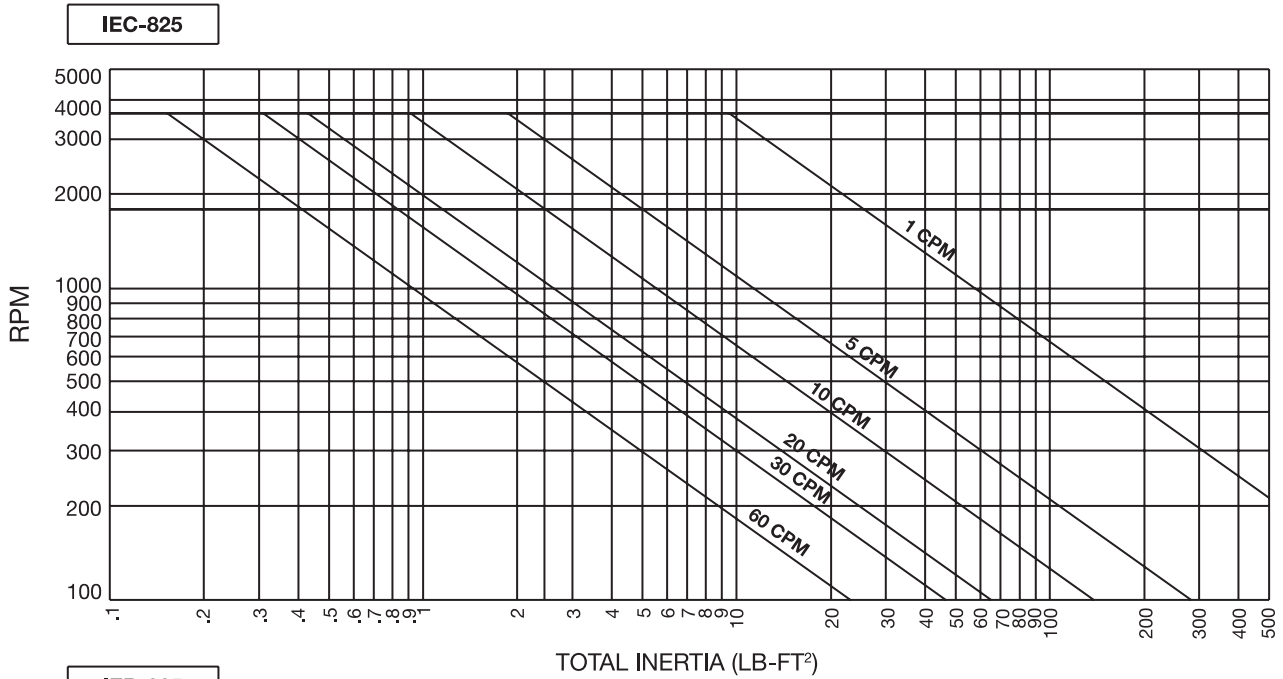
Clutches and Brakes

FLEXIDYNE

Fluid Couplings

TORQUE-TAMER

Bushings



- NOTES:**
1. Consult DODGE for cycle rates that exceed chart.
  2. Max. coil temperature 250°F
  3. Motor fan cooled
  4. 100% current



**CLUTCHES**

**SL Series Technical Data**

| Unit Size | Static Torque Lb-In. | Inertia Lb.-In. <sup>2</sup> |           | Wgt. Oz. | 90 v DC |      | 24 v DC |      |
|-----------|----------------------|------------------------------|-----------|----------|---------|------|---------|------|
|           |                      | Rotor                        | Arm & Hub |          | Amps    | Ohms | Amps    | Ohms |
| SL-08     | 2.5                  | .002                         | .0015     | 2        | .046    | 1977 | .117    | 205  |
| SL-11     | 6                    | .0058                        | .0029     | 3.2      | .047    | 1930 | .198    | 121  |
| SL-15     | 10                   | .060                         | .0031     | 3.8      | .042    | 2150 | .183    | 132  |
| SL-17     | 15                   | .061                         | .036      | 11       | .066    | 1369 | .289    | 83   |
| SL-19     | 25                   | .082                         | .047      | 12       | .074    | 1213 | .294    | 81.6 |
| SL-22     | 50                   | .215                         | .079      | 20       | .079    | 1140 | .322    | 74.6 |
| SL-26     | 80                   | .362                         | .292      | 28       | .088    | 1024 | .358    | 67.1 |
| SL-30     | 125                  | .610                         | .561      | 50       | .091    | 988  | .378    | 65.3 |
| SL-42     | 250                  | 2.50                         | 2.30      | 85       | .124    | 722  | .468    | 51.2 |

**BSL Series Technical Data**

| Unit Size | Static Torque Lb-In. | Inertia Lb.-In. <sup>2</sup> |           | Wgt. Oz. | 90 v DC |      | 24 v DC |      |
|-----------|----------------------|------------------------------|-----------|----------|---------|------|---------|------|
|           |                      | Rotor                        | Arm & Hub |          | Amps    | Ohms | Amps    | Ohms |
| BSL-26    | 80                   | .29                          | .53       | 38       | .088    | 1024 | .358    | 67.1 |
| BSL-42    | 250                  | 2.25                         | 4.99      | 94       | .124    | 722  | .468    | 51.2 |

**S0 Series Technical Data**

| Unit Size | Static Torque Lb-In. | Inertia Lb.-In. <sup>2</sup> |           | Wgt. Oz. | 90 v DC |      | 24 v DC |      |
|-----------|----------------------|------------------------------|-----------|----------|---------|------|---------|------|
|           |                      | Rotor                        | Arm & Hub |          | Amps    | Ohms | Amps    | Ohms |
| S0-08     | 2.5                  | .002                         | .0011     | 2        | .046    | 1977 | .117    | 205  |
| S0-11     | 6                    | .0058                        | .0024     | 3.2      | .047    | 1930 | .198    | 121  |
| S0-15     | 10                   | .06                          | .026      | 3.8      | .042    | 2150 | .183    | 132  |
| S0-17     | 15                   | .061                         | .031      | 11       | .066    | 1369 | .289    | 83   |
| S0-19     | 25                   | .082                         | .042      | 12       | .074    | 1213 | .294    | 81.3 |
| S0-22     | 50                   | .215                         | .070      | 20       | .079    | 1140 | .322    | 74.6 |
| S0-26     | 80                   | .362                         | .320      | 28       | .088    | 1024 | .358    | 67.1 |
| S0-30     | 125                  | .61                          | .561      | 45       | .091    | 988  | .378    | 65.3 |
| S0-42     | 250                  | 2.50                         | 2.30      | 80       | .124    | 722  | .468    | 51.2 |





**Fractional HP**

**BRAKES**

**FB Series Technical Data**

| Unit Size | Static Torque Lb.-In. | Inertia Lb.-In. <sup>2</sup><br>Arm & Hub | Wgt. Oz. | 90 v DC |      | 24 v DC |      |
|-----------|-----------------------|---|----------|---------|------|---------|------|
|           |                       |   |          | Amps    | Ohms | Amps    | Ohms |
| FB-08     | 2.5                   | .0011                                     | 2        | .046    | 1977 | .117    | 205  |
| FB-11     | 6                     | .0024                                     | 3.2      | .047    | 1930 | .198    | 121  |
| FB-15     | 10                    | .026                                      | 3.8      | .042    | 2150 | .183    | 132  |
| FB-17     | 15                    | .031                                      | 11       | .066    | 1369 | .289    | 83   |
| FB-19     | 25                    | .042                                      | 12       | .074    | 1213 | .294    | 81.6 |
| FB-22     | 50                    | .070                                      | 20       | .079    | 1140 | .322    | 74.6 |
| FB-26     | 10                    | .320                                      | 26       | .088    | 1024 | .358    | 67.1 |
| FB-30     | 125                   | .561                                      | 35       | .091    | 988  | .378    | 65.3 |
| FB-42     | 250                   | 2.30                                      | 60       | .124    | 722  | .468    | 51.2 |

**FSB Series Technical Data**

| Unit Size | Static Torque Lb.-In. | Inertia Lb.-In. <sup>2</sup><br>Arm & Hub | Wgt. Oz. | 90 v DC |      | 24 v DC |      | 120 v AC |      |
|-----------|-----------------------|---|----------|---------|------|---------|------|----------|------|
|           |                       |   |          | Amps    | Ohms | Amps    | Ohms | Amps     | Ohms |
| FSB-001   | 1                     | .0004                                     | 2        | .051    | 1880 | .220    | 117  | .041     | N.A. |
| FSB-002   | 3                     | .0017                                     | 3        | .064    | 2177 | .190    | 132  | .050     | N.A. |
| FSB-007   | 7                     | .0133                                     | 15       | .059    | 1520 | .247    | 97.3 | .045     | N.A. |
| FSB-015   | 15                    | .0133                                     | 16       | .098    | 922  | .369    | 65.1 | .077     | N.A. |
| FSB-035   | 35                    | .084                                      | 33       | .093    | 964  | .394    | 61   | .073     | N.A. |
| FSB-050   | 50                    | .084                                      | 36       | .194    | 465  | .717    | 35.5 | .140     | N.A. |
| FSB-100   | 100                   | .205                                      | 64       | .180    | 501  | .707    | 34   | .142     | N.A. |

**FSBR Series Technical Data**

| UNIT SIZE | Static Torque Lb.-In. | Inertia Lb.-In. <sup>2</sup><br>Arm & Hub | Wgt. Oz. | 90 v DC |      | 24 v DC |      | 120 v AC |      |
|-----------|-----------------------|---|----------|---------|------|---------|------|----------|------|
|           |                       |   |          | Amps    | Ohms | Amps    | Ohms | Amps     | Ohms |
| FSB-001   | 7                     | .0133                                     | 11       | .059    | 1520 | .247    | 97.3 | .045     | N.A. |
| FSB-002   | 15                    | .0133                                     | 12       | .098    | 922  | .369    | 65.1 | .077     | N.A. |
| FSB-007   | 35                    | .084                                      | 24       | .093    | 964  | .394    | 61   | .073     | N.A. |
| FSB-015   | 50                    | .084                                      | 27       | .194    | 465  | .717    | 35.5 | .140     | N.A. |
| FSB-035   | 100                   | .205                                      | 56       | .180    | 501  | .707    | 34   | .142     | N.A. |

Consult DODGE for other voltages.

PT Component  
Quick References

Couplings

Clutches and Brakes

FLEXIDYNE

Fluid Couplings

TORQUE-TAMER

Bushings

# CONTENTS



## FLEXIDYNE®

|  |          |
|--|----------|
| <b>Features/Benefits</b> .....         | PT3-2    |
| <b>Specification</b> .....             | PT3-3    |
| <b>How To Order</b> .....              | PT3-3    |
| <b>Nomenclature</b> .....              | PT3-3    |
| <b>Selection</b> .....                 | PT3-4    |
| <b>Selection/Dimensions</b>            |          |
| FLEXIDYNE Drives .....                 | PT3-8    |
| FLEXIDYNE Couplings .....              | PT3-10   |
| PH Couplings .....                     | PT3-12   |
| C-FLEX Modules .....                   | PT3-14   |
| <b>Modifications/Accessories</b> ..... | PT3-15   |
| <b>Engineering/Technical</b> .....     | PT3-26   |
| Part Number Index .....                | INDEX-1  |
| Keyword Index .....                    | INDEX-43 |

PT Component  
Reference Guide

Couplings

Clutches and Brakes

FLEXIDYNE

Fluid Couplings

TORQUE-TAMER

Bushings



## FEATURES/BENEFITS

### FLEXIDYNE

- **Smoother, Faster Acceleration**

- Smaller motors may be used
- Motor starts under no load conditions
- Smoother starts
- Starting torque can be easily customized

- **More Efficient Design**

- Permits use of standard NEMA Design B motors
- High torque or high slip motors not needed
- Reduced voltage starters not needed
- Wound rotor motors not needed

- **More Efficient Running**

- No slip at running speed means no wear, no heat, no power loss

- **Overload Protection**

- Provides overload protection at overloads somewhat greater than starting torque
- Protection devices to prevent damage to FLEXIDYNE are available

- **Low Current Draw**

- Less than twice the nameplate amperage during both starting and overload periods
- Many electric utilities recommend FLEXIDYNE

- **Increased Productivity**

- Eliminates product spillage and machine damage due to harsh starts or jammed loads



## FLEXIDYNE

### SPECIFICATION

FLEXIDYNE is available in three designs: Drives, Couplings, and C-Flex Modules to meet most system needs. The Drive style is designed to mount directly on the motor shaft to provide an extremely compact unit for belted service. The Coupling style provides a versatile solution for transmitting torque between in-line shafts. The C-Flex Module style provides all of the benefits of regular FLEXIDYNE in a compact package that readily mounts between C-Face motors and reducers.

### HOW TO ORDER

#### DRIVE STYLE

Specify mechanism size and bore size. Select a sheave from the selection tables found in the Modifications/Accessories section. Refer to the part number when ordering.

#### COUPLING STYLE

On size 5C - specify bore size. A complete coupling consists of (1) output hub and (1) mechanism.

On larger sizes - specify coupling size, and bore size. A complete coupling consists of (1) mechanism, including flexible disc, (1) Poly-Disc flange, and (2) bushings.

Type PH Couplings - specify coupling size, bore size of the driven end and the motor end. A complete coupling consists of (1) mechanism, (1) Taper-Lock or Bored-To-Size flange assembly, and (1) element.

Refer to the part numbers when ordering.

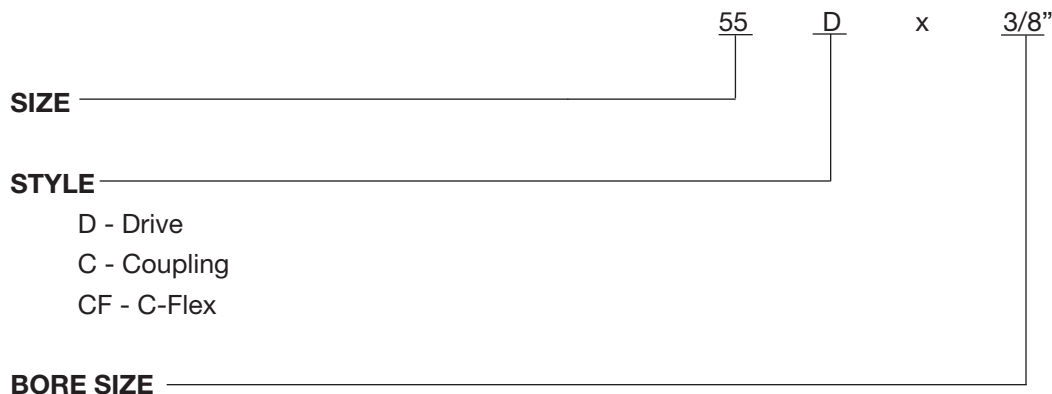
#### C-FLEX MODULE STYLE

Specify the C-Flex unit size and the FLEXIDYNE mechanism. Refer to the part numbers when ordering.

#### FLOW CHARGE

Determine the amount of flow charge to be ordered by referring to the Flow Charge tables in the Modifications/Accessories section. Choose between cast steel and stainless. Refer to the part number when ordering.

### NOMENCLATURE



## SELECTION



## FLEXIDYNE

## SIMPLIFIED SELECTION PROCEDURE

The tables on pages PT3-6 -PT3-7 give FLEXIDYNE mechanism size and amount of flow charge to provide starting capacities from 100-200% of motor nameplate HP of a NEMA Design B squirrel cage induction motor. This starting capacity is satisfactory for most ordinary industrial applications.

The FLEXIDYNE unit sizes shown in the simplified selection tables suggest the most economical FLEXIDYNE mechanism for a given RPM and HP. In some cases, under the same conditions, there may be other sizes of FLEXIDYNE which may be utilized.

## STEP 1

Determine the approximate starting torque percentage for the application. As a guide, suggested percentages are listed in the table below.

## STEP 2

Determine motor speed and HP to be used. Refer to tables on pages PT3-6 -PT3-7 based on 1760, 1175, or 875 RPM NEMA Design B motors.

## STEP 3

Check maximum bore from Selection/Dimensions pages.

## FLEXIDYNE Mechanism Starting Torque

| Application         | Range    | Application           | Range    | Application  | Range    |
|---------------------|----------|-----------------------|----------|--------------|----------|
| Air Conditioning    | 130-175% | Cranes (Bridge Draw)  | 150-200% | Mixers       | 130-150% |
| Agitators           | 130-175% | Crushers              | 150-200% | Oven Drivers | 150-175% |
| Belt Conveyors      | 130-150% | Dryers                | 130-175% | Paper Mills  |          |
| Blenders            | 130-175% | Fans                  | 150-175% | Agitator     | 130-175% |
| Blowers             | 150-175% | Lumber Chippers       | 150-200% | Hydropulper  | 130-175% |
| Bucket Elevators    | 130-175% | Sawdust Conv.         | 130-175% |              | 150-200% |
| Can Filling Machine | 125-150% | Matl. Handling Equip. | 130-150% | Drier        | 130-150% |
| Compressors         | 150-175% | Mills (Ball, Pebble)  | 150-175% | Pumps        | 125-150% |

**NOTE:** Since FLEXIDYNE Drives and Couplings are selected primarily as torque limiting devices by using the starting torque percentages shown above, the use of a service factor is not necessary.



## FLEXIDYNE OTHER APPLICATIONS

The information on the previous page provides a simple method of selecting the FLEXIDYNE mechanism size when used with NEMA Design B motors under general operating conditions. Selection for any other application is based on the specific conditions and requirements of the installation. The power transmitting characteristics of the FLEXIDYNE unit vary with input speed and amount of flow charge used. A FLEXIDYNE unit can be adapted to the specific conditions and requirements of the individual application by using the proper amount of flow charge.

**FLEXIDYNE units are not recommended for variable speed applications, engines or speeds below 700 RPM.**

DODGE engineers welcome inquiries on FLEXIDYNE mechanism selection for applications not previously covered. It is suggested that their experience be called upon to recommend the best installation. To contact Dodge engineering please call 864-284-5700.

Please provide the following information with your request:

- Type, HP, RPM, shaft size of motor
- Type, RPM, shaft size of driven machine
- Frequency of starts, reversals, and overloads
- Time required to accelerate
- For high inertia loads,  $WR^2$
- Starting HP and Overload Breakaway HP desired
- Functions the FLEXIDYNE unit must perform

|                                 |                             |                                    |                                      |
|---------------------------------|-----------------------------|------------------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT3-2 | SPECIFICATION<br>PAGE PT3-3 | SELECTION/DIMENSIONS<br>PAGE PT3-8 | ENGINEERING/TECHNICAL<br>PAGE PT3-26 |
|---------------------------------|-----------------------------|------------------------------------|--------------------------------------|

# SELECTION



## FLEXIDYNE

### SELECTION OF FLEXIDYNE MECHANISM SIZE

(BASED ON % OF STARTING TORQUE FOR NEMA DESIGN B MOTORS)

#### 1760 RPM

| Rated Motor HP | FLEXIDYNE Mech Size | 100% @ 1760 rpm |             |     | 125% @ 1750 RPM |             |      | 150% @ 1740 RPM |             |      | 175% @ 1700 RPM |             |      | 200% @ 1650 RPM |             |      |
|----------------|---------------------|-----------------|-------------|-----|-----------------|-------------|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|-------------|------|
|                |                     | Start-ing HP    | Flow Charge |     | Start-ing HP    | Flow Charge |      | Start-ing HP    | Flow Charge |      | Start-ing HP    | Flow Charge |      | Start-ing HP    | Flow Charge |      |
|                |                     |                 | Lbs.        | Oz. |                 | Lbs.        | Oz.  |                 | Lbs.        | Oz.  |                 | Lbs.        | Oz.  |                 | Lbs.        | Oz.  |
| 1/2            | 5D, 5C              | .5              | 0           | 8   | .62             | 0           | 9    | .75             | 0           | 9.5  | .85             | 0           | 10   | .94             | 0           | 10.5 |
| 3/4            | 5D, 5C              | .75             | 0           | 9   | .94             | 0           | 10.5 | 1.1             | 0           | 11   | 1.3             | 0           | 11.5 | 1.4             | *           | *    |
| 1              | 55D, 55C            | 1.0             | 0           | 9   | 1.2             | 0           | 10   | 1.5             | 0           | 11   | 1.7             | 0           | 12   | 1.9             | 0           | 13   |
| 1-1/2          | 55D, 55C            | 1.5             | 0           | 10  | 1.9             | 0           | 12   | 2.2             | 0           | 13.5 | 2.5             | 0           | 14   | 2.8             | 0           | 16   |
| 2              | 55D, 55C            | 2.0             | 0           | 12  | 2.5             | 0           | 13.5 | 3.0             | 0           | 15   | 3.4             | 0           | 17   | 3.8             | 0           | 18   |
| 3              | 70D, 70C            | 3.0             | 1           | 11  | 3.7             | 1           | 13   | 4.5             | 1           | 14   | 5.1             | 2           | 0    | 5.7             | 2           | 2    |
| 5              | 70D, 70C            | 5.0             | 1           | 14  | 6.2             | 2           | 1    | 7.5             | 2           | 4    | 8.5             | 2           | 8    | 9.4             | 2           | 10   |
| 7-1/2          | 75D, 75             | 7.5             | 1           | 11  | 9.4             | 1           | 14   | 11.2            | 2           | 1    | 12.7            | 2           | 4    | 14.1            | 2           | 9    |
| 10             | 75D, 75C            | 10              | 1           | 15  | 12.5            | 2           | 3    | 14.9            | 2           | 6    | 17.0            | 2           | 9    | 18.8            | 2           | 12   |
| 15             | 9D, 9C              | 15              | 2           | 9   | 18.8            | 3           | 0    | 22.3            | 3           | 7    | 25.5            | 3           | 13   | 28.3            | 4           | 2    |
| 20             | 9D, 9C              | 20              | 3           | 2   | 25              | 3           | 10   | 30              | 4           | 0    | 34              | 4           | 8    | 38              | 5           | 3    |
| 25             | 11D, 11C            | 25              | 4           | 3   | 31              | 4           | 12   | 37              | 5           | 0    | 42              | 5           | 8    | 47              | 6           | 2    |
| 30             | 11D, 11C            | 30              | 4           | 10  | 37              | 5           | 0    | 45              | 5           | 12   | 51              | 6           | 3    | 57              | 6           | 12   |
| 40             | 11D, 11C            | 40              | 5           | 5   | 50              | 6           | 0    | 60              | 6           | 8    | 68              | 7           | 3    | 75              | 8           | 0    |
| 50             | 11D, 11C            | 50              | 5           | 13  | 62              | 6           | 10   | 74              | 7           | 6    | 85              | 8           | 2    | 94              | 8           | 11   |
| 60             | 15D, 15116          | 60              | 7           | 3   | 75              | 8           | 3    | 89              | 9           | 1    | 102             | 10          | 1    | 113             | 10          | 14   |
| 75             | 15D, 15116          | 75              | 8           | 3   | 94              | 9           | 3    | 111             | 10          | 3    | 127             | 11          | 0    | 141             | 12          | 0    |
| 100            | 15D, 15116          | 100             | 9           | 7   | 125             | 10          | 10   | 149             | 11          | 9    | 170             | 12          | 8    | 188             | 13          | 5    |
| 125            | D15131 ▲            | 125             | 7           | 3   | 156             | 8           | 6    | 186             | 9           | 4    | 212             | 10          | 4    | 236             | 11          | 1    |
| 150            | D15131 ▲            | 150             | 8           | 3   | 187             | 9           | 3    | 224             | 10          | 3    | 255             | 11          | 1    | 283             | 12          | 1    |

#### 1175 RPM

| Rated Motor HP | FLEXIDYNE Mech Size | 100% @ 1175 rpm |             |     | 125% @ 1160 RPM |             |     | 150% @ 1150 RPM |             |      | 175% @ 1130 RPM |             |     | 200% @ 1100 RPM |             |     |
|----------------|---------------------|-----------------|-------------|-----|-----------------|-------------|-----|-----------------|-------------|------|-----------------|-------------|-----|-----------------|-------------|-----|
|                |                     | Start-ing HP    | Flow Charge |     | Start-ing HP    | Flow Charge |     | Start-ing HP    | Flow Charge |      | Start-ing HP    | Flow Charge |     | Start-ing HP    | Flow Charge |     |
|                |                     |                 | Lbs.        | Oz. |                 | Lbs.        | Oz. |                 | Lbs.        | Oz.  |                 | Lbs.        | Oz. |                 | Lbs.        | Oz. |
| 1/4            | 5D, 5C              | .25             | 0           | 8.5 | ..              | ..          | ..  | .46             | 0           | 10.5 | ..              | ..          | ..  | ..              | ..          | ..  |
| 1/2            | 55D, 55C            | .5              | 0           | 11  | .62             | 0           | 15  | .75             | 0           | 13   | .85             | 0           | 15  | .94             | 0           | 16  |
| 3/4            | 55D, 55C            | .75             | 0           | 12  | .94             | 0           | 15  | 1.1             | 0           | 16   | 1.3             | 0           | 17  | 1.4             | 0           | 18  |
| 1              | 70D, 70C            | 1.0             | 1           | 10  | 1.2             | 1           | 12  | 1.5             | 1           | 14   | 1.7             | 2           | 1   | 1.9             | 2           | 4   |
| 1-1/2          | 70D, 70C            | 1.5             | 1           | 13  | 1.9             | 2           | 1   | 2.2             | 2           | 3    | 2.5             | 2           | 6   | 2.8             | 2           | 9   |
| 2              | 75D, 75C            | 2.0             | 1           | 10  | 2.5             | 1           | 13  | 3.0             | 2           | 0    | 3.4             | 2           | 2   | 3.8             | 2           | 6   |
| 3              | 75D, 75C            | 3.0             | 1           | 15  | 3.7             | 2           | 3   | 4.5             | 2           | 7    | 5.1             | 2           | 10  | 5.7             | 2           | 12  |
| 5              | 9D, 9C              | 5.0             | 2           | 4   | 6.2             | 2           | 11  | 7.4             | 3           | 1    | 8.5             | 3           | 8   | 9.4             | 3           | 12  |
| 7-1/2          | 9D, 9C              | 7.5             | 3           | 0   | 9.3             | 3           | 9   | 11.1            | 3           | 14   | 12.7            | 4           | 4   | 14.1            | 4           | 12  |
| 10             | 11D, 11C            | 10              | 5           | 0   | 12.4            | 5           | 5   | 14.8            | 5           | 10   | 17              | 6           | 3   | 19              | 7           | 0   |
| 15             | 11D, 11C            | 15              | 5           | 14  | 18              | 6           | 5   | 22              | 7           | 0    | 25              | 7           | 14  | 28              | 9           | 0   |
| 20             | 11D, 11C            | 20              | 6           | 8   | 25              | 7           | 14  | 30              | 8           | 4    | 34              | 8           | 13  | 38              | 9           | 10  |
| 25             | 15D, 15116          | 25              | 8           | 8   | 31              | 9           | 13  | 37              | 10          | 12   | 42              | 11          | 13  | 47              | 12          | 10  |
| 30             | 15D, 15116          | 30              | 9           | 7   | 37              | 10          | 10  | 44              | 11          | 11   | 51              | 12          | 9   | 57              | 13          | 8   |
| 40             | 15D, 15116          | 40              | 10          | 14  | 50              | 12          | 14  | 59              | 13          | 0    | 68              | 14          | 0   | 75              | 15          | 3   |
| 50             | 15D                 | 50              | 12          | 0   | 62              | 13          | 1   | 74              | 14          | 2    | 85              | 15          | 8   | ..              | ..          | ..  |
|                | D15116 ▲            | 50              | 8           | 8   | 62              | 9           | 13  | 74              | 10          | 12   | 85              | 11          | 8   | 94              | 12          | 0   |
|                | 18D                 | ...             | ...         | ... | ...             | ...         | ... | ...             | ...         | ...  | ...             | ...         | ... | 94              | 15          | 11  |
| 60             | 15D                 | 60              | 12          | 11  | 75              | 14          | 1   | 89              | 15          | 6    | ...             | ...         | ... | ...             | ...         | ... |
|                | D15116 ▲            | 60              | 9           | 7   | 75              | 10          | 10  | 89              | 11          | 11   | 102             | 12          | 9   | 113             | 13          | 8   |
|                | 18D                 | ...             | ...         | ... | ...             | ...         | ... | ...             | ...         | ...  | 102             | 17          | 4   | 113             | 19          | 6   |
| 75             | 15D                 | 75              | 13          | 14  | 93              | 15          | 8   | ...             | ...         | ...  | ...             | ...         | ... | ...             | ...         | ... |
|                | D15116 ▲            | 75              | 10          | 9   | 93              | 11          | 13  | 111             | 12          | 11   | 127             | 13          | 10  | 141             | 14          | 12  |
|                | 18D                 | ...             | ...         | ... | ...             | ...         | ... | 111             | 17          | 10   | 127             | 19          | 10  | 141             | 21          | 14  |
| 100            | 18D, 18172          | 100             | 15          | 12  | 124             | 18          | 7   | 148             | 20          | 9    | 170             | 22          | 13  | 189             | 24          | 13  |
| 125            | 18D, 18172          | 125             | 18          | 7   | 155             | 21          | 1   | 185             | 23          | 3    | 212             | 25          | 3   | 236             | 27          | 3   |
| 150            | 18D, 18172          | 150             | 20          | 5   | 186             | 22          | 15  | 222             | 25          | 0    | 254             | 27          | 0   | 283             | 29          | 4   |
| 200            | D18172 ▲            | 200             | 15          | 12  | 249             | 18          | 10  | 285             | 20          | 5    | 340             | 22          | 13  | 377             | 24          | 13  |
| 250            | D18172 ▲            | 250             | 18          | 9   | 312             | 21          | 0   | 370             | 23          | 2    | 424             | 25          | 3   | 470             | 27          | 0   |

\* Use a Size 55 FLEXIDYNE unit. Fill with 11 oz. of Flow Charge for 1.5 Starting HP

▲ Flow charge is listed for one cavity. For duplex (double cavity) units, numbered with prefix "D", the amount listed is would have to be doubled.

|                                 |                             |                                    |                                      |
|---------------------------------|-----------------------------|------------------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT3-2 | SPECIFICATION<br>PAGE PT3-3 | SELECTION/DIMENSIONS<br>PAGE PT3-8 | ENGINEERING/TECHNICAL<br>PAGE PT3-26 |
|---------------------------------|-----------------------------|------------------------------------|--------------------------------------|

# SELECTION



## FLEXIDYNE

### SELECTION OF FLEXIDYNE MECHANISM SIZE

(BASED ON % OF STARTING TORQUE FOR NEMA DESIGN B MOTORS)

#### 875 RPM

| Rated Motor HP | FLEXIDYNE Mech Size | 100% @ 875 rpm |             |     | 125% @ 870 RPM |             |     | 150% @ 850 RPM |             |     | 175% @ 840 RPM |             |     | 200% @ 820 RPM |             |     |
|----------------|---------------------|----------------|-------------|-----|----------------|-------------|-----|----------------|-------------|-----|----------------|-------------|-----|----------------|-------------|-----|
|                |                     | Start-ing HP   | Flow Charge |     | Start-ing HP   | Flow Charge |     | Start-ing HP   | Flow Charge |     | Start-ing HP   | Flow Charge |     | Start-ing HP   | Flow Charge |     |
|                |                     |                | Lbs.        | Oz. |                | Lbs.        | Oz. |                | Lbs.        | Oz. |                | Lbs.        | Oz. |                | Lbs.        | Oz. |
| 1/2            | 70D, 70C            | .5             | 1           | 12  | .62            | 1           | 15  | .75            | 2           | 1   | .85            | 2           | 4   | .94            | 2           | 6   |
| 3/4            | 70D, 70C            | .75            | 2           | 0   | .94            | 2           | 3   | 1.1            | 2           | 6   | 1.3            | 2           | 8   | 1.4            | 2           | 12  |
| 1              | 75D, 75C            | 1.0            | 1           | 13  | 1.2            | 2           | 0   | 1.5            | 2           | 3   | 1.7            | 2           | 7   | 1.9            | 2           | 8   |
| 1-1/2          | 75D, 75C            | 1.5            | 2           | 2   | 1.9            | 2           | 7   | 2.2            | 2           | 10  | 2.5            | 2           | 11  | 2.8            | 2           | 12  |
| 2              | 9D, 9C              | 2.0            | 2           | 6   | 2.5            | 2           | 12  | 2.9            | 3           | 0   | 3.4            | 3           | 8   | 3.7            | 3           | 12  |
| 3              | 9D, 9C              | 3.0            | 3           | 0   | 3.7            | 3           | 8   | 4.4            | 4           | 0   | 5.0            | 4           | 6   | 5.6            | 4           | 14  |
| 5              | 11D, 11C            | 5.0            | 5           | 6   | 6.2            | 5           | 14  | 7.3            | 6           | 10  | 8.4            | 7           | 0   | 9.4            | 7           | 8   |
| 7-1/2          | 11D, 11C            | 7.5            | 6           | 8   | 9.3            | 7           | 2   | 10.9           | 8           | 0   | 12.6           | 8           | 8   | 14.0           | 9           | 5   |
| 10             | 15D, 15116          | 10             | 8           | 6   | 12.4           | 9           | 8   | 14.6           | 10          | 9   | 16.8           | 11          | 7   | 18.7           | 12          | 5   |
| 15             | 15D, 15116          | 15             | 10          | 5   | 19             | 11          | 7   | 22             | 12          | 8   | 25             | 13          | 5   | 28             | 14          | 6   |
| 20             | 15D, 15116          | 20             | 11          | 12  | 25             | 12          | 13  | 29             | 13          | 14  | 34             | 15          | 1   | 38             | 15          | 8   |
| 25             | D15116              | 25             | 9           | 7   | 31             | 10          | 9   | 36             | 11          | 11  | 42             | 12          | 8   | 47             | 13          | 5   |
| 30             | D15116              | 30             | 10          | 5   | 37             | 11          | 7   | 44             | 12          | 8   | 50             | 13          | 5   | 56             | 14          | 6   |
| 40             | 18D, 18172          | 40             | 15          | 3   | 50             | 18          | 0   | 58             | 20          | 6   | 67             | 22          | 8   | 75             | 24          | 7   |
| 50             | 18D, 18172          | 50             | 17          | 14  | 62             | 20          | 4   | 73             | 22          | 14  | 84             | 24          | 14  | 94             | 26          | 14  |
| 60             | 18D, 18172          | 60             | 19          | 13  | 75             | 22          | 6   | 87             | 24          | 15  | 101            | 26          | 1   | 112            | 28          | 12  |
| 75             | D18172 ▲            | 75             | 14          | 8   | 93             | 17          | 2   | 109            | 19          | 11  | 126            | 21          | 13  | 141            | 23          | 12  |
| 100            | D18172 ▲            | 100            | 17          | 14  | 124            | 20          | 4   | 146            | 22          | 14  | 168            | 24          | 14  | 187            | 26          | 14  |
| 125            | D18172 ▲            | 125            | 20          | 2   | 155            | 22          | 13  | 182            | 25          | 7   | 210            | 27          | 4   | 234            | 29          | 4   |

▲ Flow charge is listed for one cavity. For duplex (double cavity) units, numbered with prefix "D", the amount listed would have to be doubled.

PT Component Reference Guide

Couplings

Clutches and Brakes

FLEXIDYNE

Fluid Couplings

TORQUE-TAMER

Bushings

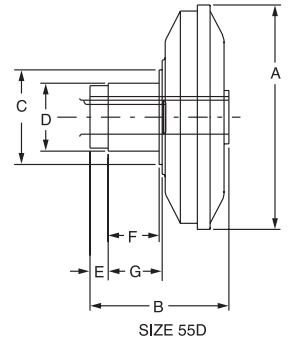
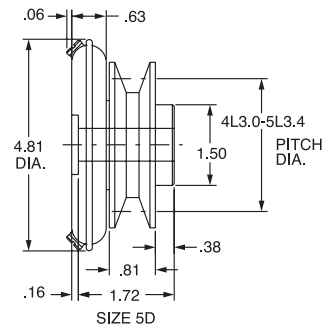
|                                 |                             |                                    |                                      |
|---------------------------------|-----------------------------|------------------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT3-2 | SPECIFICATION<br>PAGE PT3-3 | SELECTION/DIMENSIONS<br>PAGE PT3-8 | ENGINEERING/TECHNICAL<br>PAGE PT3-26 |
|---------------------------------|-----------------------------|------------------------------------|--------------------------------------|



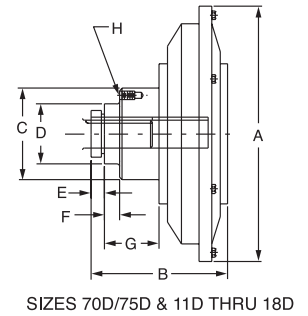
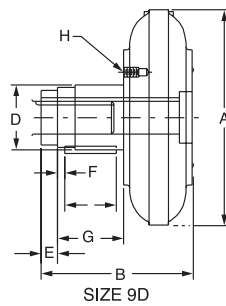


# SELECTION/DIMENSIONS

## FLEXIDYNE Drives



Each FLEXIDYNE, including a container of flow charge, is individually packaged. Cutout features and a cross section drawing are shown in the Modifications/ Accessories section.



**NOTE:** Drawings are for dimensional purpose only and do not necessarily represent construction



### 5D FLEXIDYNE Drive

| Nom. Stock Bores ▲ | w/Integral Sheave P.D. | Part Number   | Wt. Lbs. | Keyseat               | Key Req'd.          |
|--------------------|------------------------|---------------|----------|-----------------------|---------------------|
| 5/8                | 4L2.2-5L2.6            | <b>305106</b> | 3.4      | 3/16 X 3/32 X 1-11/16 | 3/16 X 3/16 X 1-3/8 |
|                    | 4L3.0-5L3.4            | <b>305101</b> | 2.4      |                       |                     |
|                    | 4L3.6-5L4.0            | <b>305102</b> | 3.6      |                       |                     |
| 3/4 (Max.)         | 4L3.0-5L3.4            | <b>305103</b> | 2.7      | 3/16 X 3/32 X 1-11/16 | 3/16 X 3/16 X 1-7/8 |

▲ +.0005" +.0025" over nominal. Bores not listed will be quoted on application.

|                                 |                             |                         |                                      |
|---------------------------------|-----------------------------|-------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT3-2 | SPECIFICATION<br>PAGE PT3-3 | SELECTION<br>PAGE PT3-4 | ENGINEERING/TECHNICAL<br>PAGE PT3-26 |
|---------------------------------|-----------------------------|-------------------------|--------------------------------------|

# SELECTION/DIMENSIONS



## FLEXIDYNE

### 55D Thru 18D FLEXIDYNE Drive

| DRIVE SIZE | MAX. RPM | NOM STOCK BORES * | Part Number   | Wt Lbs | Keyseat ♥            | Key Req'd             |
|------------|----------|-------------------|---------------|--------|----------------------|-----------------------|
| 55D        | 3600     | 5/8               | <b>305015</b> | 3.0    | 3/16 x 3/32 x 3-1/16 | 3/16 x 3/16 x 1-3/8   |
|            |          | 7/8 (Max)         | <b>305016</b> | 2.8    |                      |                       |
| 70D        | 3300     | 7/8               | <b>305021</b> | 9.5    | 3/16 x 3/32 x 3-5/16 | 3/16 x 3/16 x 1-3/8   |
|            |          | 1-1/8 (Max.)      | <b>305022</b> | 9.7    | 1/4 x 1/8 x 3-5/16   | 1/4 x 1/4 x 1-3/4     |
| 75D        | 3300     | 1                 | <b>305085</b> | 10.0   | 1/4 x 1/8 x 4        | 1/4 x 1/4 x 1-3/4     |
|            |          | 1-3/8 (Max.)      | <b>305057</b> |        | 10.2                 | 5/16 x 3/32 x 4       |
| 9D         | 2300     | 1-1/8             | <b>309070</b> | 23.0   | 1/4 x 1/8 x 6        | 1/4 x 1/4 x 2         |
|            |          | 1-1/4             | <b>309071</b> | 24.0   | 1/4 x 1/8 x 6        | 1/4 x 1/4 x 2-3/4     |
|            |          | 1-3/8             | <b>309072</b> | 23.5   | 5/16 x 5/32 x 6      | 5/16 x 5/16 x 2-3/4   |
|            |          | 1-5/8 (Max.)      | <b>309073</b> | 23.0   | 3/8 x 1/8 x 6        | 3/8 x 5/16 x 3-3/4    |
| 11D        | 2400     | 1-3/8             | <b>311070</b> | 45.0   | 5/16 x 5/32 x 7-5/16 | 5/16 x 5/16 x 2-3/4   |
|            |          | 1-5/8             | <b>311071</b> | 46.0   | 3/8 x 3/16 x 7-5/16  | 3/8 x 3/8 x 3-3/4     |
| 11DL       | 2400     | 1-7/8 (Max.)      | <b>311072</b> | 45.0   | 1/2 x 1/8 x 7-5/16   | 1/2 x 3/8 x 5-1/2 ♦   |
|            |          | 2-1/8 (Max.)      | <b>311073</b> | 44.0   | 1/2 x 1/8 x 7-5/16   | 1/2 x 3/8 x 5-1/2 ♦   |
| 15D        | 1800     | 1-7/8             | <b>315070</b> | 100.0  | 1/2 x 1/4 x 10-3/16  | 1/2 x 1/2 x 5         |
|            |          | 2-1/8             | <b>315071</b> | 92.0   | 1/2 x 1/4 x 10-3/16  | 1/2 x 1/2 x 5         |
|            |          | 2-3/8 (Max.)      | <b>315072</b> | 96.0   | 5/8 x 1/8 x 10-3/16  | 5/8 x 7/16 x 5-1/2 ♦  |
| 18D        | 1500     | 2-7/8             | <b>318060</b> | 154.0  | 3/4 x 3/8 x 10-3/16  | 3/4 x 3/4 x 9-3/4     |
|            |          | 3-3/8 (Max.)      | <b>318065</b> | 154.0  | 7/8 x 1/4 x 10-3/16  | 7/8 x 11/16 x 9-3/4 ♦ |

| Size | A     | B     | C<br>-.000<br>+.002 | D           | E    | F    | G<br>* * | H            |       |
|------|-------|-------|---------------------|-------------|------|------|----------|--------------|-------|
|      |       |       |                     |             |      |      |          | No. of Holes | Thd's |
| 55D  | 5.38  | 3.07  | 2.752               | 1.69        | 0.47 | 1.38 | 1.41     | ...          | ...   |
| 70D  | 8.13  | 3.56  | 3.755/3.753         | 2.81        | 0.63 | 0.63 | 1.03     | 4            | ††    |
| 75D  | 8.13  | 4.25  | 3.755/3.753         | 2.81        | 0.63 | 0.63 | 1.72     | 4            | ††    |
| 9D   | 9.50  | 6.75  | ....                | 3.00{       | 0.69 | 0.56 | 3.38     | 4            | ♣     |
| 11D  | 11.25 | 8.28  | 5.082/5.080         | 3.610/3.605 | 0.75 | 2.50 | 4.38     | 4            | §     |
| 11DL |       |       |                     |             |      |      |          |              |       |
| 15D  | 14.50 | 11.19 | 6.625/6.623         | 4.63        | 1.00 | 3.25 | 6.31     | 6            | ▲     |
| 18D  | 18.00 | 14.75 | 9.189/9.187         | 6.00        | 1.13 | 1.50 | 9.25     | 6            | ♣     |

**Note:** To facilitate order processing specify part numbers

**Setscrews:** One furnished over keyway, one @ 120°

\* **All sizes:** +.0005" +.0025" over nominal. Bores not listed will be quoted on application

† Key provided

\* \* Provide 3/32 min. clearance between sheave and FLEXIDYNE drive

♦ Key is furnished for these sizes only

♥ Keyseat begins at left end of FLEXIDYNE drive as viewed in drawings on page PT3-8

♣ 1/4-20x1/2" deep on 3-1/2" Dia. B.C. (1/4x2-1/2" Soc. Hd. Cap Screws w/1-3/8" thd., not furnished).

§ 3/8-16x1-1/8" deep on 4-3/8" Dia. B.C. (3/8x1-3/4" Soc. Hd. Cap Screws w/1-1/4" thd., furnished).

▲ 1/2-13x1-1/4" deep on 5-3/4" Dia. B.C. (1/2x2" Soc. Hd. Cap Screws w/1-1/2" thd., furnished).

♣ 1/2-13x1-5/16" deep on 8-3/16 Dia. B.C. (1/2x2-1/4" Soc. Hd. Cap Screws w/1-1/2" thd., furnished)."

†† 1/4-20x5/8" deep on 3-1/4" Dia. B.C. (1/4x1-1/4" for 70 & 1/4x1-1/4" for 75 furnished).

|                                 |                             |                         |                                      |
|---------------------------------|-----------------------------|-------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT3-2 | SPECIFICATION<br>PAGE PT3-3 | SELECTION<br>PAGE PT3-4 | ENGINEERING/TECHNICAL<br>PAGE PT3-26 |
|---------------------------------|-----------------------------|-------------------------|--------------------------------------|



# SELECTION/DIMENSIONS

## FLEXIDYNE

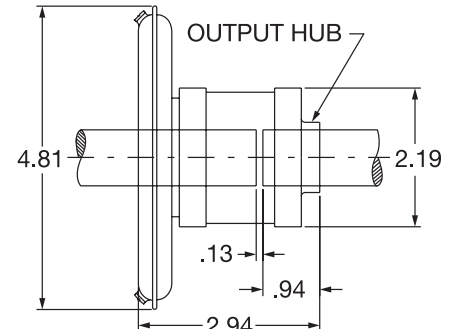
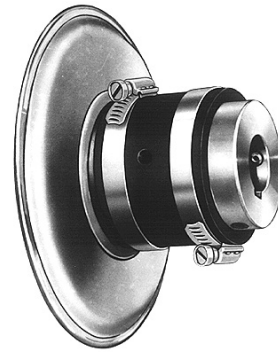
### 5C FLEXIDYNE COUPLING

The 5C FLEXIDYNE Coupling uses a formed steel housing and tubular flexible element. See ordering instructions in table below.

#### 5C FLEXIDYNE Couplings

| Available Bores | Keyway      | Part Numbers                                     |  |
|-----------------|-------------|--|--|
|                 |             | MECHANISM for Motor Shaft<br>(Avg. Wt. 2.2 Lbs.) | OUTPUT HUB for Driven Shaft<br>(Avg. Wt. .55 Lbs.) |
| 1/2"            | 1/8 x 1/16  | .....  | 305120   |
| 5/8"            | 3/16 x 3/32 | 305115   | 305121   |
| 3/4"            | 3/16 x 3/32 | 305118   | 305122   |
| 7/8"            | 3/16 x 3/32 | 305037   | 305123   |

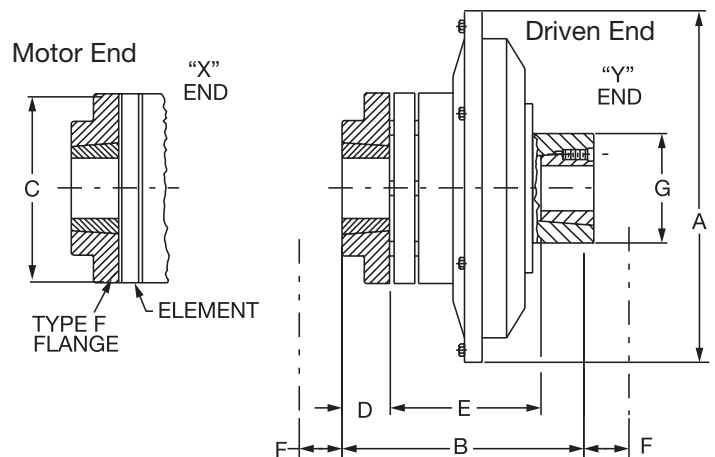
**Note:** Total coupling consists of (1) output hub and (1) mechanism. Order by description x bore. To facilitate order processing, order these items by part number. Max bore of mechanism = 3/4"; output hub = 1".



### 55C thru 11C FLEXIDYNE Couplings

The 55C thru 11C size FLEXIDYNE Coupling uses the same flexible disc used in DODGE POLY-DISC Couplings. The molded polyurethane disc offers longer life and smoother, quieter operation. Disc has excellent physical properties yet remains pliable to cushion shock loads and accommodate misalignment.

H and F Flanges, carried in stock, can be arranged in the position which best suits the application. In H type the bushing installs from the Hub side of the flange; in F type from the Face side. Sufficient flow charge is furnished with each unit.



|                                 |                             |                         |                                      |
|---------------------------------|-----------------------------|-------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT3-2 | SPECIFICATION<br>PAGE PT3-3 | SELECTION<br>PAGE PT3-4 | ENGINEERING/TECHNICAL<br>PAGE PT3-26 |
|---------------------------------|-----------------------------|-------------------------|--------------------------------------|

# SELECTION/DIMENSIONS



## FLEXIDYNE

### 55C Thru 11C FLEXIDYNE Couplings

| Cplg. Size | Bore Range of Bushing |         | Max. RPM | Cplg. Less Bushings | Items required for Complete Coupling † |          |                            |        |                 |                 |               |           |               |            |
|------------|-----------------------|---------|----------|---------------------|--|----------|----------------------------|--------|-----------------|-----------------|---------------|-----------|---------------|------------|
|            |                       |         |          |                     | Mechanism (Includes disc)              |          | Poly-Disc Flange w/o Bush. |        |                 | Bushings        |               |           |               |            |
|            | Min.                  | Max.    |          |                     | Wt. Lbs.                               | Part No. | Wt. Lbs.                   | Size   | TYPE H Part No. | TYPE F Part No. | Wt. Lbs.      | Motor End |               | Driven End |
|            |                       |         |          |                     |  |          |                            |        |                 | Bush No.        | Avg. Wt. Lbs. | Bush No.  | Avg. Wt. Lbs. |            |
| 55C        | 1/2                   | 1       | 1800     | 5.0                 | 305019                                 | 4.0      | 2-5/8                      | 008057 | 008058          | 1.0             | 1008          | .2        | 1008          | .2         |
| 70C        | *                     | *       | 1800     | 15.6                | 305025                                 | 13.6     | 4                          | 008041 | 008040          | 2.0             | 1215          | .7        | 1610          | .7         |
| 75C        | 1/2                   | 1-11/16 | 1800     | 18.6                | 305058                                 | 14.1     | 5-1/4                      | 008043 | 008042          | 4.5             | 1615          | 1.0       | 1610          | .7         |
| 9C         | 1/2                   | 2-11/16 | 1800     | 40.6                | 309074                                 | 30.6     | 7                          | 008045 | 008044          | 10.0            | 2517          | 2.8       | 2517          | 2.8        |
| 11C        | 1/2                   | 2-11/16 | 1800     | 57.2                | 311074                                 | 44.2     | 8                          | 008047 | 008046          | 13.0            | 2517          | 2.8       | 2517          | 2.8        |

| Cplg Size | Replacement Poly-Disc |             |            | A     | B    | C    | D    | E<br>◆ | F<br>▲ | G    | X<br>End | Y<br>End |
|-----------|-----------------------|-------------|------------|-------|------|------|------|--------|--------|------|----------|----------|
|           | No.                   | Part Number | Weight Lbs |       |      |      |      |        |        |      |          |          |
| 55C       | 2-5/8                 | 008030      | 1          | 5.38  | 3.5  | 2.63 | 0.88 | 1.41   | 0.75   | 2.25 | Driven   | Driven   |
| 70C       | 4                     | 008032      | 0.2        | 8.13  | 6.06 | 4    | ★    | 3.56   | 1.06   | 3.63 | Motor    | Motor    |
| 75C       | 5-1/4                 | 008033      | 0.5        | 8.13  | 6.38 | 5.25 | ★    | 3.889  | 1.06   | 3.63 |          |          |
| 9C        | 7                     | 008034      | 0.9        | 9.5   | 8.63 | 7    | 1.75 | 5.13   | 1.63   | 4.13 |          |          |
| 11C       | 8                     | 008035      | 1.5        | 11.25 | 9.63 | 8    | 1.75 | 6.13   | 1.63   | 4.88 |          |          |

Complete coupling consists of (1) Mechanism, including flexible disc,

(1) POLY-DISC Flange, and two bushings.

TAPER-LOCK bushings sold separately.

† To facilitate order processing specify part numbers.

Determine whether H or F Flange is required and order accordingly.

\* Motor End: 1/2" - 1-1/4" (Min./Max.); Driven End: 1/2" - 1-5/8"

◆ Normal dimension. Shaft end float which increases or decreases "E" by slight amounts is permissible.

★ 1" on driven end, 1-1/2" on motor end.

▲ Space required to loosen bushing with shortened hex key using screws as jack screws-no puller required.

Keywords-See tables below for standard keyways and shallow keyways.

### Standard Keyways

| Bore Range               | Keyway      |
|--------------------------|-------------|
| 1/2 - 9/16 Incl.         | 1/8 x 1/16  |
| over 9/16 - 7/8 Incl.    | 3/16 x 3/32 |
| over 7/8 - 1-1/4 Incl.   | 1/4 x 1/8   |
| over 1-1/4 - 1-3/8 Incl. | 5/16 x 5/32 |
| over 1-3/8 - 1-3/4 Incl. | 3/8 x 3/16  |
| over 1-3/4 - 2-1/4 Incl. | 1/2 x 1/4   |
| over 2-1/4 - 2-3/4 Incl. | 5/8 x 5/16  |
| over 2-3/4 - 3-1/4 Incl. | 3/4 x 3/8   |
| over 3-1/4 - 3-3/4 Incl. | 7/8 x 7/16  |
| over 3-3/4 - 4-1/2 Incl. | 1 x 1/2     |
| over 4-1/2 - 5-1/2 Incl. | 1-1/4 x 5/8 |
| over 5-1/2 - 6-1/2 Incl. | 1-1/2 x 3/4 |

### Shallow Keyways

| Bush No. | Bore Range       |   |
|----------|------------------|---|
| 1008     | 15/16 - 1        | <b>Note:</b> Key furnished for these exceptions only. |
| 1610     | 1-9/16 - 11-1/16 |   |
| 1615     |                  |   |
| 2517     | 2-5/16 - 2-11/16 | <b>Note:</b> Key furnished for these exceptions only. |

|                                 |                             |                         |                                      |
|---------------------------------|-----------------------------|-------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT3-2 | SPECIFICATION<br>PAGE PT3-3 | SELECTION<br>PAGE PT3-4 | ENGINEERING/TECHNICAL<br>PAGE PT3-26 |
|---------------------------------|-----------------------------|-------------------------|--------------------------------------|



## SELECTION/DIMENSIONS

### FLEXIDYNE

#### TYPE PH FLEXIDYNE COUPLINGS



This unique combination of PARA-FLEX coupling and FLEXIDYNE mechanism offers maximum protection for motors and driven machines. The FLEXIDYNE unit allows the motor to accelerate quickly and start the load smoothly while the Para-Flex coupling permits up to 1° angular misalignment, up to 1/16" parallel misalignment and 3/32" end float. Consequently, starting torque can be tailored to the driven load requirements while torsional and lateral vibration and shock loads are being absorbed or cushioned.

The driven end of the couplings uses TAPER-LOCK bushings only. However, the motor end is available as bushed or bored-to-size. Bored-to-size flanges accommodate larger shafts than possible with bushed flanges. Smaller size flanges are reversible offering the H and F position from the same flange. A choice of H or F flanges is offered for size PX140.

#### TAPER-LOCK Bushings

| Cplg. Size | For Mechanism |              | For Flange Assy. |               |
|------------|---------------|--------------|------------------|---------------|
|            | No            | Avg. Wt Lbs. | No.              | Avg. Wt. Lbs. |
| 987        | 2517          | 2.8          | 1610             | 0.7           |
| 1196       | 2517          | 2.8          | 2012             | 1.4           |
| 15116      | 3030          | 7.4          | 2517             | 2.8           |
| D15116     | 3030          | 7.4          | 2517             | 2.8           |
| D15131     | 3030          | 7.4          | 2517             | 2.8           |
| 18172      | 3535          | 11.5         | 3535             | 11.5          |
| D18172     | 3535          | 11.5         | 3535             | 11.5          |

Note: For Keyway information, see footnote next page

#### Type PH FLEXIDYNE Couplings W/ TAPER-LOCK Flanges

| Cplg. Size | Cplg. Less Bushings ♦ | Items Req'd. for Complete Coupling ▲ |         |          |          |                      |         |       |                                |        |        |          |       |          |          |
|------------|-----------------------|--------------------------------------|---------|----------|----------|----------------------|---------|-------|--------------------------------|--------|--------|----------|-------|----------|----------|
|            |                       | Mechanism                            |         |          |          | TAPER-LOCK FLG. ASSY |         |       |                                |        |        | ELEMENT  |       |          |          |
|            |                       | Driven End Bore Range                |         | Part No. | Wt. Lbs. | Motor End Bore Range |         | Size  | Part Nos. for Respective Types |        |        | Wt. Lbs. | Size  | Part No. | Wt. lbs. |
|            |                       | Min.                                 | Max.    |          |          | Min.                 | Max.    |       | St'd. (Reversible)             | Type H | Type F |          |       |          |          |
| 987        | 46.7                  | 1/2                                  | 2-11/16 | 309077†  | 40       | 1/2                  | 1-11/16 | PX70  | 010603                         | .....  | .....  | 5.1      | PH87  | 011227   | 1.6      |
| 1196       | 65.5                  | 1/2                                  | 2-11/16 | 311077   | 56       | 1/2                  | 2-1/8   | PX80  | 010604                         | .....  | .....  | 7.4      | PH96  | 011228   | 2.1      |
| 15116      | 137.5                 | 1-5/16                               | 3-1/4   | 315073   | 120      | 1/2                  | 2-11/16 | PX100 | 010606                         | .....  | .....  | 15.0     | PH116 | 011230   | 2.5      |
| D15116     | 184.5                 | 1-5/16                               | 3-1/4   | 315074   | 167      | 1/2                  | 2-11/16 | PX100 | 010606                         | .....  | .....  | 15.0     | PH116 | 011230   | 2.5      |
| D15131     | 175.7                 | 1-5/16                               | 3-1/4   | 315075   | 150      | 1/2                  | 2-11/16 | PX110 | 010607                         | .....  | .....  | 21.6     | PH131 | 011231   | 4.1      |
| 18172      | 314.2                 | 1-3/16                               | 3-15/16 | 318110   | 242      | 1-3/16               | 3-15/16 | PX140 | .....                          | 011134 | 011154 | 64.0     | PH172 | 011234   | 8.2      |
| D18172     | 320.2                 | 1-3/16                               | 3-15/16 | 318400   | 248      | 1-3/16               | 3-15/16 | PX140 | .....                          | 011134 | 011154 | 64.0     | PH172 | 011234   | 8.2      |

♦ When ordering bushings, specify bore and part number.

† Assembled-to-order. Consult DODGE for delivery.

▲ To facilitate order processing specify part numbers. In sizes 18172 and D18172, determine whether H or F Flange is required and order accordingly. Complete Coupling consists of (1) Mechanism, (1) Taper-LOCK Flange Assembly, (1) Element and (2) Bushings.

| Cplg. Size | Coupling Less Bushings ♦ |                     | BBS FLANGE ASSEMBLY |                  |             |          |                          |            |           |
|------------|--------------------------|---------------------|---------------------|------------------|-------------|----------|--------------------------|------------|-----------|
|            | Rgh. Bored Wt. Lbs.      | Fin. Bored Wt. Lbs. | Size                | Rough Stock Bore |             |          | Fin. Bored w St'd. K. W. |            |           |
|            |                          |                     |                     | Min. Bore ★      | Part Number | Wt. Lbs. | Motor End Bore Range ♡   | Wt. Lbs. ♦ | Set Screw |
| 987        | 49.5                     | 47.3                | PX70BBS             |                  | 010301      | 7.9      | 1/2 - 2-1/8              | 5.7        |           |
| 1196       | 69.1                     | 66.3                | PX80BBS             |                  | 010302      | 11       | 1/2 - 2-9/16             | 8.2        |           |
| 15116      | 147.5                    | 139.5               | PX100BBS            | 0                | 010304      | 25       | 1/2 - 3-1/4              | 17         | ⊗         |
| D15116     | 194.5                    | 186.5               | PX100BBS            |                  | 010304      | 25       | 1/2 - 3-1/4              | 17         |           |
| D15131     | 189.1                    | 176.1               | PX110BBS            |                  | 010305      | 35       | 1/2 - 3-15/16            | 22         |           |
| 18172      | 336.2                    | 311.2               | PX140BBS            | 2-1/4            | 010530      | 86       | 2-3/4 - 4-1/2            | 61         | ♣         |
| D18172     | 342.2                    | 317.2               | PX140BBS            | 2-1/4            | 010530      | 86       | 2-3/4 - 4-1/2            | 61         |           |

Note: Complete Coupling consists of (1) Mechanism, (1) BBS Flange Assembly, (1) Element and (1) Bushing.

♥ Bored per order-Sizes PX70 thru PX110 are furnished with a clearance fit from nominal bores (up to 2" +.000-.000. over 2" +.0015 -.0000). In PX140 size, tolerance will be applied to custom bores (up to 3" +.000 -.001. over 3" thru 6" +.0000 -.0015; over 6" +.000 -.002). Largest Bore listed should be considered as maximum.

⊗ One furnished over keyway.

♣ Not furnished unless specified on order.

\* Standard keyway is the same as shown on page. For shallow keyway exceptions, see table at right:

NOTE: Taper-LOCK bushings sold separately

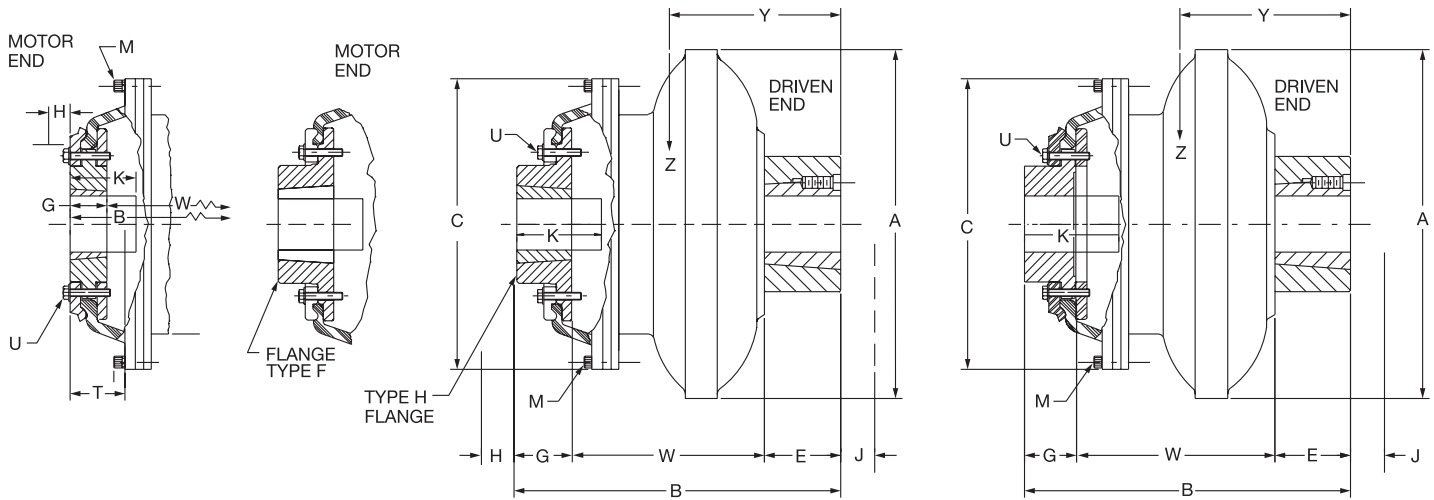
♦ Approximate weight with maximum bore

★ -.010 to -.015" no keyway

| BS Flg. Size | Bore Range        | Keyway     | NOTE-Key furnished for these exceptions only |
|--------------|-------------------|------------|--|
| PX70         | 2 - 2-1/8         | 1/2 x 1/8  |  |
| PX80         | 2-3/8 - 2-9/16    | 5/8 x 3/16 |  |
| PX100        | 3-1/16 - 3-1/4    | 3/4 x 3/16 |  |
| PX110        | 3-11/16 - 3-3/4   | 7/8 x 1/4  |  |
|              | 3-13/16 - 3-15/16 | 1 x 1/4    |  |



## FLEXIDYNE TYPE PH FLEXIDYNE COUPLINGS (cont.)



| Coupling Size | Max. RPM | A     | B                 |                      | C     | E<br>♣ | G                 |                      | H †  | J †  | K ▲               |                      | M ◆<br>(No.) & Size of Screws |
|---------------|----------|-------|-------------------|----------------------|-------|--------|-------------------|----------------------|------|------|-------------------|----------------------|-------------------------------|
|               |          |       | TAPER-LOCK Flange | Bored-to-Size Flange |       |        | TAPER-LOCK Flange | Bored-to-Size Flange |      |      | TAPER-LOCK Flange | Bored-to-Size Flange |                               |
| 987           | 1800     | 9.5   | 8.75              | 9.75                 | 9.44  | 1.75   | 1                 | 1.75                 | 1.06 | 1.63 | 3.19              | 4.19                 | (8) 5/16-18 x 1-1/4           |
| 1196          | 1800     | 11.25 | 10.06             | 11.19                | 10.31 | 1.75   | 1.25              | 2                    | 1.38 | 1.38 | 4.38              | 5.5                  | (6) 3/8-16 x 1-1/2            |
| 15116         | 1800     | 14.5  | 12.31             | 13.81                | 12.31 | 3      | 1.75              | 2.63                 | 1.63 | 2.06 | 4.44              | 5.94                 | (8) 3/8-16 x 1-1/2            |
| D15116        | 1800     | 14.5  | 13.88             | 15.31                | 12.31 | 3      | 1.75              | 2.63                 | 1.63 | 2.06 | 4.44              | 5.94                 | (8) 3/8-16 x 1-1/2            |
| D15131        | 1800     | 14.5  | 14.63             | 16.38                | 13.81 | 3      | 1.75              | 3                    | 1.63 | 2.06 | 5.19              | 6.94                 | (8) 3/8-16 x 2                |
| 18172         | 1500     | 18    | 16.31             | 17.44                | 18.31 | 3.5    | 3.5               | 3.88                 | 2.63 | 2.63 | 7.5               | 8.5                  | (8) 1/2-13 x 2                |
| D18172        | 1500     | 18    | 17.81             | 18.94                | 18.31 | 3.5    | 3.5               | 3.88                 | 2.63 | 2.63 | 7.31              | 8.5                  | (8) 1/2-13 x 2                |

| Coupling Size | T                 |                      | U **                   |  |                      |  | W ■               |                      | X    | Y<br>♥ | Z<br>♣<br>(Lbs.) |
|---------------|-------------------|----------------------|------------------------|--|----------------------|--|-------------------|----------------------|------|--------|------------------|
|               | TAPER-LOCK Flange | Bored-to-Size Flange | No. and Size of Screws |  |                      |  | TAPER-LOCK Flange | Bored-to-Size Flange |      |        |                  |
|               |                   |                      | TAPER-LOCK Flange      |  | Bored-to-Size Flange |  |                   |                      |      |        |                  |
| 987           | 1.59              | 1.59                 | (5) 5/16-18 x 1-1/2    |  | (5) 5/16-18 x 1-1/2  |  | 5.94              | 6.25                 | ..   | 3.88   | 43               |
| 1196          | 1.91              | 1.91                 | (6) 5/16-18 x 1-1/2    |  | (6) 5/16-18 x 1-1/2  |  | 7.06              | 7.44                 | ..   | 4.13   | 66               |
| 15116         | 2.09              | 2.09                 | (6) 3/8-16 x 1-3/4     |  | (6) 3/8-16 x 1-3/4   |  | 7.56              | 8.19                 | ..   | 5.5    | 107              |
| D15116        | 2.09              | 2.09                 | (6) 3/8-16 x 1-3/4     |  | (6) 3/8-16 x 1-3/4   |  | 9.13              | 9.69                 | ..   | 6.5    | 153              |
| D15131        | 2.56              | 2.56                 | (6) 3/8-16 x 2         |  | (6) 3/8-16 x 2       |  | 9.88              | 1.38                 | ..   | 6.5    | 153              |
| 18172         | 3.63              | 3                    | (8) 1/2-13 x 2-1/2     |  | (8) 1/2-13 x 2-1/4   |  | 9.31              | 10.06                | 0.19 | 6.75   | 209              |
| D18172        | 3.63              | 3                    | (8) 1/2-13 x 2-1/2     |  | (8) 1/2-13 x 2-1/4   |  | 10.81             | 11.56                | 0.19 | 6.69   | 284              |

- ♣ Driven shaft should not extend into coupling beyond dimension E.
- † Space required to loosen bushing with shortened hex key using screws as jackscrew no puller required
- ▲ Motor shaft may extend into coupling beyond dimension G but not beyond dimension K.
- \* Reversible flanges permit Type H or F from the same flange.
- Normal distance between shafts. End float which increases or decreases W by slight amounts is permissible.
- ♥ Distance from driven end to center of gravity of driven section of coupling.
- ♣ Weight of driven section with maximum bore and flow charge.

- ◆ Socket head cap screw.
- \*\* Hex head cap screw, SAE Grade 8; Optional: Nickel plated Grade 8 screws

Keyways-Standard Keyways are shown on page PT3-11. For Shallow keyway exceptions see table below.

| Bush No | Bore Range       | NOTE - Key furnished for these exceptions only. See TAPER-LOCK section for Keyway information |
|---------|------------------|---|
| 1610    | 1-9/16 - 1-5/8   |   |
| 2012    | 1-15/16 - 2-1/8  |   |
| 2517    | 2-5/16 - 2-11/16 |   |
| 3030    | 2-13/16 - 3-1/4  |   |
| 3535    | 3-5/16 - 3-15/16 |   |



# SELECTION/DIMENSIONS

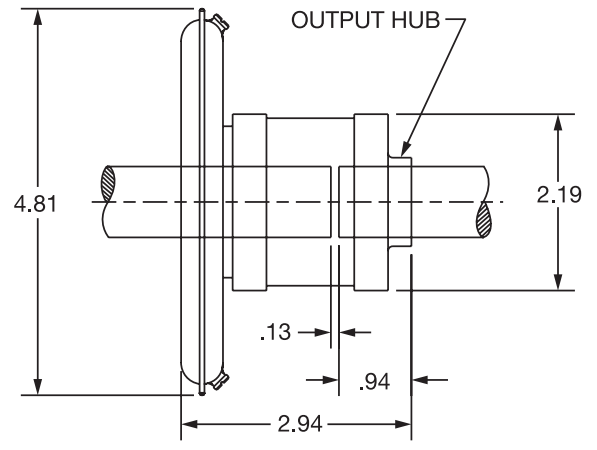
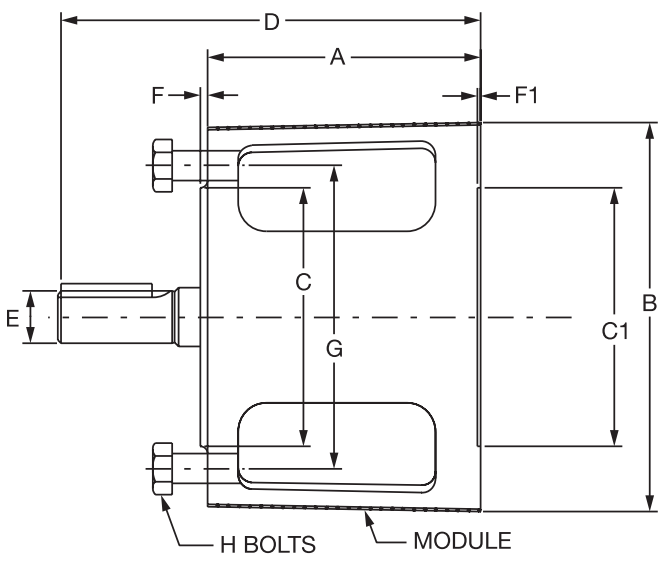


## FLEXIDYNE C-FLEX MODULE

C-Flex is a system for easily adapting stock FLEXIDYNE couplings to conventional AC motor/C-Face reducer drive combinations. The advantages of this low cost arrangement include soft start and intermittent overload protection utilizing popular NEMA-B motors and across-the-line switching. Costly reduced voltage starters or specially wound motors are not required. FLEXIDYNE unit operates bi-directionally

(reversing) and allows starting of heavy inertial loads without oversized motors.

C-Flex fits all standard NEMA C-Face mountings of 56C, 140TC, 180TC and 210TC frame utilized on 1/2 thru 10 HP, 1750 RPM AC motors. The C-Flex output bearing provides support for single-bearing reducer types, but is equally suitable for reducers having two input shaft bearings.



### C-Flex Modules

| HP Rating<br>@ 1750<br>RPM | For NEMA<br>C-Face<br>Frame | C-Flex Unit ▲ |             |               | FLEXIDYNE Mechanism |             |               | A    | B    | C<br>Dia. | C1<br>Dia. | D     | Nom.<br>E.<br>Dia. | F    | F1   | G<br>Dia.<br>B.C. | H Bolts |      |  |
|----------------------------|-----------------------------|---------------|-------------|---------------|---------------------|-------------|---------------|------|------|-----------|------------|-------|--------------------|------|------|-------------------|---------|------|--|
|                            |                             | Model<br>No.  | Part<br>No. | Wt.<br>(Lbs.) | Size                | Part<br>No. | Wt.<br>(Lbs.) |      |      |           |            |       |                    |      |      |                   | No.     | Size |  |
| 1/2                        | 56C                         | 150           | 305026      | 14.5          | 5CF x 5/8 ■         | 305117      | 2.2           | 4.75 | 6.63 | 4.500     | 4.501      | 6.69  | 5/8                | .100 | 0.19 | 5.88              | 4       | ★    |  |
| 3/4                        |                             |               |             |               |                     |             |               |      |      | 4.497     | 4.503      |       |                    | .160 |      |                   |         |      |  |
| 1                          |                             |               |             |               |                     |             |               |      |      | 4.500     | 4.501      |       |                    | .100 |      |                   |         |      |  |
| 1                          | 140TC                       | 200           | 305027      | 14.5          | 5CF x 7/8 ■         | 305037      | 2             | 4.75 | 6.63 | 4.500     | 4.501      | 6.81  | 7/8                | .100 | 0.19 | 5.88              | 4       | ★    |  |
| 1-1/2                      |                             |               |             |               |                     |             |               |      |      | 4.497     | 4.503      |       |                    | .160 |      |                   |         |      |  |
| 2                          |                             |               |             |               |                     |             |               |      |      |           |            |       |                    |      |      |                   |         |      |  |
| 3                          | 180TC                       | 500           | 305028      | 54.5          | 70C                 | 305025      | 13.6          | 12.5 | 10   | 8.499     | 8.500      | 15.31 | 1-1/8              | .200 | 0.22 | 7.25              | 4       | *    |  |
| 5                          |                             |               |             |               |                     |             |               |      |      | 8.497     | 8.502      |       |                    | .250 |      |                   |         |      |  |
| 7-1/2                      |                             |               |             |               |                     |             |               |      |      | 8.499     | 8.500      |       |                    | .200 |      |                   |         |      |  |
| 10                         | 210TC                       | 1000          | 305029      | 58.2          | 75C                 | 305058      | 14.1          | 12.5 | 10   | 8.497     | 8.502      | 15.84 | 1-3/8              | .250 | 0.22 | 7.25              | 4       | *    |  |

SELECTION DATA-For 1/2 thru 2 HP rating, see table below.  
For 3 thru 10 HP rating, see tables on page PT3-6 and PT3-7  
■ For 5C FLEXIDYNES see page PT3-10.

▲ Includes all necessary parts except mechanism.  
★ 3/8 -16 x 1-1/4 Hex Hd. Cap Screw.  
\* 1/2 -13 x 1-1/2 Soc. Hd. Cap Screw.

### Selection Of 5CF FLEXIDYNE Mechanism Used In C-Flex Module

| Rated<br>Motor<br>HP | 100% @ 1760 RPM    |             |     | 125% @ 1750 RPM    |             |     | 150% @ 1740 RPM    |             |     | 175% @ 1700 RPM    |             |     | 200% @ 1650 RPM    |             |     |
|----------------------|--------------------|-------------|-----|--------------------|-------------|-----|--------------------|-------------|-----|--------------------|-------------|-----|--------------------|-------------|-----|
|                      | Start<br>ing<br>HP | Flow Charge |     | Start<br>ing<br>HP | Flow Charge |     | Start<br>ing<br>HP | Flow Charge |     | Start<br>ing<br>HP | Flow Charge |     | Start<br>ing<br>HP | Flow Charge |     |
|                      |                    | Lbs.        | Oz. |                    | Lbs.        | Oz. |                    | Lbs.        | Oz. |                    | Lbs.        | Oz. |                    | Lbs.        | Oz. |
| 1/2                  | .50                | 0           | 4   | .62                | 0           | 5   | .75                | 0           | 5   | .85                | 0           | 6   | .94                | 0           | 7   |
| 3/4                  | .75                | 0           | 5   | 1.00               | 0           | 6   | 1.10               | 0           | 6   | 1.30               | 0           | 7   | 1.40               | 0           | 8   |
| 1                    | 1.00               | 0           | 6   | 1.20               | 0           | 7   | 1.50               | 0           | 7   | 1.70               | 0           | 8   | 1.90               | 0           | 9   |
| 1-1/2                | 1.50               | 0           | 7   | 1.90               | 0           | 8   | 2.20               | 0           | 8   | 2.50               | 0           | 9   | 2.80               | 0           | 10  |
| 2                    | 2.00               | 0           | 8   | 2.50               | 0           | 9   | 3.00               | 0           | 9   | 3.40               | 0           | 10  | 3.60               | 0           | 11  |

|                                 |                             |                         |                                      |
|---------------------------------|-----------------------------|-------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT3-2 | SPECIFICATION<br>PAGE PT3-3 | SELECTION<br>PAGE PT3-4 | ENGINEERING/TECHNICAL<br>PAGE PT3-26 |
|---------------------------------|-----------------------------|-------------------------|--------------------------------------|



## FLEXIDYNE FLEXIDYNE Flow Charge



Cast steel flow charge is furnished unless otherwise specified. Sufficient amounts for all applications are furnished and included in the price of each FLEXIDYNE unit. The part numbers listed here apply only when extra flow charge is ordered or the application requires stainless steel flow charge.

Flow charge is packaged in a tough transparent plastic bottle which is graduated and has a handy pour spout. This makes handling of flow charge easy whether pouring into the unit or removing flow charge if a change in torque is desired.

Stainless steel flow charge is recommended for applications subject to excessive moisture, humidity or wide temperature variations that may cause internal condensation. It may be ordered to replace that in an existing unit or in place of the cast steel flow charge when ordering a FLEXIDYNE unit.

Sizes 5, 5CF, and 55 FLEXIDYNE mechanisms use SAE S110 (.0234, maximum diameter) steel shot. In sizes 70 and up, SAE S170 (.0331" maximum diameter) steel shot is used.

### Flow Charge for Individual FLEXIDYNE Mechanism Applications

| FLEXIDYNE<br>Mech. Size<br>▲ | Cast Steel                             |             | Stainless Steel                        |               |
|------------------------------|--|-------------|--|---------------|
|                              | Part No.                               | Wt.         | Part No.                               | Wt.           |
| 5, 5CF                       | <b>311124</b>                          | 1 lb.-2 oz. | <b>311116</b>                          | 11 oz.        |
| 55, 6*                       | <b>311124</b>                          | 1 lb.-2 oz. | <b>311122</b>                          | 1 lb. - 2oz.  |
| 7*                           | <b>311125</b>                          | 3 lb.-5 oz. | <b>311118</b>                          | 1 lb. -14 oz. |
| 8*                           | <b>311125</b>                          | 3 lb.-5 oz. | <b>311119</b>                          | 3 lb. -5 oz.  |
| 70, 75"                      | <b>311125</b>                          | 3 lb.-5 oz. | <b>311123</b>                          | 2 lb. -13 oz. |
| 9                            | <b>309111</b>                          | 5 lb.-3 oz. | <b>311120</b>                          | 5 lb. -3 oz.  |
| 11                           | <b>311111</b>                          | 10 lb.      | <b>311121</b>                          | 10 lb.        |
| 15                           | <b>315111</b>                          | 20 lb.      | <b>(2) 311121</b>                      | 20 lb.        |
| D15, 18                      | <b>(1) 315111</b><br><b>(1) 311111</b> | 30 lb.      | <b>(3) 311121</b>                      | 30 lb.        |
| D18                          | <b>(3) 315111</b>                      | 60 lb.      | <b>(2) 311113</b><br><b>(1) 311121</b> | 60 lb.        |

▲ Units with "D" prefix have duplex cavities.

\* Old style FLEXIDYNE sizes.

### Bulk FLEXIDYNE Flow Charge Size 70 and Up

| Wt.<br>(Lbs.) | Cast Steel<br>Part No. | Stainless<br>Part No. |
|---------------|------------------------|-----------------------|
| 15            | .....                  | <b>311112</b>         |
| 20            | <b>315111</b>          | .....                 |
| 25            | .....                  | <b>311113</b>         |





## FLEXIDYNE

Stock Sheaves For FLEXIDYNE Drives (Refer To Information On Page PT3-18)

| For FLEXIDYNE Size | Fig. No. (page PT3-18)   | No. of Grvs. | Datum Dia.      |                 |                 | Outside Dia.   |                | Bolt-On Part No. | TAPER LOCK Part No. | QD Part No. | Wt. (Lbs) ▲ | See Drwg's on Page PT3-18 |      |      |      |      |
|--------------------|--|--------------|-----------------|-----------------|-----------------|----------------|----------------|------------------|---------------------|-------------|-------------|---------------------------|------|------|------|------|
|                    |  |              | Using A Belts ★ | Using B Belts ★ | Using C Belts ★ | Using 3V Belts | Using 5V Belts |                  |                     |             |             | E                         | F    | L    | M    |      |
| 5D                 | Sheaves are integral - included in price & wt. of assembled unit |              |                 |                 |                 |                |                |                  |                     |             |             |                           |      |      |      |      |
| 55D                | 1 or 2   | 1            | ...             | ...             | ...             | 3.35           | ...            | ...              | 112175              | .....       | 1.1         | ...                       | 0.69 | ...  | 0.31 |      |
|                    |  | 1            | ...             | ...             | ...             | 3.65           | ...            | ...              | 112176              | 455108      | 1.5         | 0.56                      | 0.69 | ...  | 0.31 |      |
|                    |  | 1            | ...             | ...             | ...             | 4.12           | ...            | ...              | 112177              | 144109      | 2.2         | 0.56                      | 0.69 | ...  | 0.31 |      |
|                    |  | 1            | ...             | ...             | ...             | 4.5            | ...            | ...              | 112178              | 144110      | 2.4         | 0.56                      | 0.69 | ...  | 0.31 |      |
|                    |  | 1            | ...             | ...             | ...             | 5.0            | ...            | ...              | 112180              | 455112      | 2.9         | 0.56                      | 0.69 | ...  | 0.31 |      |
|                    |  | 1            | ...             | ...             | ...             | 5.3            | ...            | ...              | 112181              | 455113      | 3.4         | 0.56                      | 0.69 | ...  | 0.31 |      |
|                    |  | 1            | ...             | ...             | ...             | 5.6            | ...            | ...              | 112182              | 455114      | 3.8         | 0.56                      | 0.69 | ...  | 0.31 |      |
|                    |  | 1            | ...             | ...             | ...             | 6.0            | ...            | ...              | 112183              | 455115      | 4.1         | 0.56                      | 0.69 | ...  | 0.31 |      |
|                    |  | 1            | ...             | ...             | ...             | 6.5            | ...            | ...              | 112184              | 455116      | 4.5         | 0.56                      | 0.69 | ...  | 0.31 |      |
|                    |  | 1            | ...             | ...             | ...             | 6.9            | ...            | ...              | 112185              | 455117      | 5.1         | 0.56                      | 0.69 | ...  | 0.31 |      |
|                    |  | 1            | 3.0             | 3.4 ■           | ...             | ...            | ...            | ...              | .....               | 118283      | ...         | 1.2                       | 0.50 | 0.88 | 0.00 | ...  |
|                    |  | 1            | 3.2             | 3.6 ■           | ...             | ...            | ...            | ...              | .....               | 118284      | ...         | 1.3                       | 0.50 | 0.88 | 0.00 | 0.00 |
|                    |  | 1            | 3.4             | 3.8 ■           | ...             | ...            | ...            | ...              | .....               | 118301      | 118285      | 1.6                       | 0.50 | 0.88 | 0.00 | 0.00 |
|                    |  | 1            | 3.6             | 4.0 ■           | ...             | ...            | ...            | ...              | .....               | 118302      | 118286      | 1.8                       | 0.25 | 0.88 | 0.19 | 0.00 |
|                    | 1  | 3.8          | 4.2 ■           | ...             | ...             | ...            | ...            | .....            | 118194              | 455550      | 2.2         | 0.25                      | 0.88 | 0.19 | 0.13 |      |
|                    | 1  | 4.0          | 4.4 ■           | ...             | ...             | ...            | ...            | .....            | 118195              | 455551      | 2.6         | 0.25                      | 0.88 | 0.19 | 0.13 |      |
|                    | 1  | 4.2          | 4.6             | ...             | ...             | ...            | ...            | .....            | 118196              | .....       | 2.1         | ...                       | 0.88 | ...  | 0.13 |      |
|                    | 1  | 4.4          | 4.8             | ...             | ...             | ...            | ...            | .....            | 118197              | .....       | 2.4         | ...                       | 0.88 | ...  | 0.13 |      |
|                    | 1  | 4.6          | 5.0             | ...             | ...             | ...            | ...            | .....            | 118198              | .....       | 3.6         | ...                       | 0.88 | ...  | 0.13 |      |
|                    | 1  | 4.8          | 5.2             | ...             | ...             | ...            | ...            | .....            | 118199              | .....       | 3.8         | ...                       | 0.88 | ...  | 0.13 |      |
|                    | 1  | 5.0          | 5.4             | ...             | ...             | ...            | ...            | .....            | 118200              | ...         | 3.1         | .....                     | 0.88 | ...  | 0.13 |      |
|                    | 1  | 5.2          | 5.6             | ...             | ...             | ...            | ...            | .....            | 118201              | ...         | 4.3         | .....                     | 0.88 | ...  | 0.13 |      |
|                    | 1  | 5.4          | 5.8             | ...             | ...             | ...            | ...            | .....            | 118202              | ...         | 4.1         | .....                     | 0.88 | ...  | 0.13 |      |
|                    | 1  | 5.6          | 6.0             | ...             | ...             | ...            | ...            | .....            | 118203              | ...         | 4.1         | .....                     | 0.88 | ...  | 0.13 |      |
|                    | 1  | 5.8          | 6.2             | ...             | ...             | ...            | ...            | .....            | 118204              | ...         | 4.3         | ...                       | 0.88 | ...  | 0.13 |      |
|                    | 1  | 6.0          | 6.4             | ...             | ...             | ...            | ...            | .....            | 118205              | ...         | 4.1         | .....                     | 0.88 | ...  | 0.13 |      |
|                    | 1  | 6.2          | 6.6             | ...             | ...             | ...            | ...            | .....            | 118206              | ...         | 4.9         | .....                     | 0.88 | ...  | 0.13 |      |
|                    | 1  | 6.4          | 6.8             | ...             | ...             | ...            | ...            | .....            | 118207              | ...         | 4.8         | ...                       | 0.88 | ...  | 0.13 |      |
| 70D                | 4  | 1            | ...             | ...             | ...             | 4.75           | ...            | ...              | 112250              | ...         | 2.2         | 0.13                      | 0.69 | 0.44 | 0.13 |      |
|                    |  | 1            | ...             | ...             | ...             | 5.0            | ...            | ...              | 112251              | ...         | 2.5         | 0.13                      | 0.69 | 0.44 | 0.13 |      |
|                    |  | 1            | ...             | ...             | ...             | 5.3            | ...            | ...              | 112252              | ...         | 3.1         | 0.13                      | 0.69 | 0.44 | 0.13 |      |
|                    |  | 1            | ...             | ...             | ...             | 5.6            | ...            | ...              | 112253              | ...         | 3.3         | 0.13                      | 0.69 | 0.44 | 0.13 |      |
|                    |  | 1            | ...             | ...             | ...             | 6.0            | ...            | ...              | 112254              | ...         | 3.8         | 0.00                      | 0.69 | 0.56 | 0.13 |      |
|                    |  | 1            | ...             | ...             | ...             | 6.5            | ...            | ...              | 112255              | ...         | 4.6         | 0.00                      | 0.69 | 0.56 | 0.13 |      |
|                    |  | 1            | ...             | ...             | ...             | 6.9            | ...            | ...              | 112256              | ...         | 5.4         | 0.00                      | 0.69 | 0.56 | 0.13 |      |
|                    | 4  | 1            | 4.8             | 5.2             | ...             | ...            | ...            | ...              | 118275              | ...         | 2.7         | 0.19                      | 0.88 | 0.44 | 0.25 |      |
|                    |  | 1            | 5.0             | 5.4             | ...             | ...            | ...            | ...              | 118276              | ...         | 3.2         | 0.19                      | 0.88 | 0.44 | 0.25 |      |
|                    |  | 1            | 5.2             | 5.6             | ...             | ...            | ...            | ...              | 118277              | ...         | 3.7         | 0.19                      | 0.88 | 0.44 | 0.25 |      |
|                    |  | 1            | 5.6             | 6.0             | ...             | ...            | ...            | ...              | 118278              | ...         | 4.5         | 0.19                      | 0.88 | 0.44 | 0.25 |      |
|                    |  | 1            | 6.0             | 6.4             | ...             | ...            | ...            | ...              | 118279              | ...         | 5.3         | 0.28                      | 0.88 | 0.22 | 0.38 |      |
|                    |  | 1            | 6.4             | 6.8             | ...             | ...            | ...            | ...              | 118280              | ...         | 6.2         | 0.28                      | 0.88 | 0.22 | 0.38 |      |
|                    |  | 1            | 7.0 ◆           | 7.4 ◆           | ...             | ...            | ...            | ...              | 118281              | ...         | 10.9        | 0.25                      | 1.00 | 0.50 | 0.25 |      |

★ Composite groove to accommodate either A or B belts

† These sizes also fit 70D

◆ Made to order sheaves, price on application

▲ Use "B" Dyna-Cog Belt, not standard "B"

■ Weight does not include bushing. Order from page PT3-18

|                                 |                             |                         |                                      |
|---------------------------------|-----------------------------|-------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT3-2 | SPECIFICATION<br>PAGE PT3-3 | SELECTION<br>PAGE PT3-4 | ENGINEERING/TECHNICAL<br>PAGE PT3-26 |
|---------------------------------|-----------------------------|-------------------------|--------------------------------------|



## FLEXIDYNE

Stock Sheaves For FLEXIDYNE Drives (Refer To Information On Page PT3-18)

| For FLEXIDYNE Size | Drwg. Ref<br>Fig. No.                               | No. of Grvs. | Datum Dia.      |                 |                 | Outside Dia.   |                | Bolt-On Part No. | TAPER LOCK Part No. | QD Part No. | Wt. (Lbs)<br>▲ | See Drwg's on Page PT3-18 |      |      |      |      |      |
|--------------------|---|--------------|-----------------|-----------------|-----------------|----------------|----------------|------------------|---------------------|-------------|----------------|---------------------------|------|------|------|------|------|
|                    |   |              | Using A Belts ★ | Using B Belts ★ | Using C Belts ★ | Using 3V Belts | Using 5V Belts |                  |                     |             |                | E                         | F    | L    | M    |      |      |
| 75D                | 4   | 2            | ...             | ...             | ...             | 4.75           | ...            | 112265           | ...                 | ...         | 2.2            | 0.13                      | 1.09 | 0.69 | 0.28 |      |      |
|                    |   | 2            | ...             | ...             | ...             | 5.0†           | ...            | 112266           | ...                 | ...         | 2.7            | 0.13                      | 1.09 | 0.69 | 0.28 |      |      |
|                    |   | 2            | ...             | ...             | ...             | 5.3            | ...            | 112267           | ...                 | ...         | 3.6            | 0.13                      | 1.09 | 0.69 | 0.28 |      |      |
|                    |   | 2            | ...             | ...             | ...             | 5.6†           | ...            | 112268           | ...                 | ...         | 4.0            | 0.13                      | 1.09 | 0.69 | 0.28 |      |      |
|                    |   | 2            | ...             | ...             | ...             | 6.0†           | ...            | 112269           | ...                 | ...         | 4.9            | 0.00                      | 1.09 | 0.81 | 0.28 |      |      |
|                    |   | 2            | ...             | ...             | ...             | 6.5            | ...            | 112270           | ...                 | ...         | 6.1            | 0.00                      | 1.09 | 0.81 | 0.28 |      |      |
|                    |   | 2            | ...             | ...             | ...             | 6.9            | ...            | 112271           | ...                 | ...         | 7.5            | 0.00                      | 1.09 | 0.81 | 0.28 |      |      |
|                    | 4   | 2            | 4.8             | 5.2             | ...             | ...            | ...            | 118290           | ...                 | ...         | 4.6            | 0.06                      | 1.75 | 0.75 | 0.94 |      |      |
|                    |   | 2            | 5.0             | 5.4             | ...             | ...            | ...            | 118291           | ...                 | ...         | 5.5            | 0.06                      | 1.75 | 0.75 | 0.94 |      |      |
|                    |   | 2            | 5.2             | 5.6             | ...             | ...            | ...            | 118292           | ...                 | ...         | 6.5            | 0.06                      | 1.75 | 0.75 | 0.94 |      |      |
|                    |   | 2            | 5.6             | 6.0             | ...             | ...            | ...            | 118293           | ...                 | ...         | 7.0            | 0.06                      | 1.75 | 0.75 | 0.94 |      |      |
|                    |   | 2            | 6.0             | 6.4             | ...             | ...            | ...            | 118294           | ...                 | ...         | 7.9            | 0.06                      | 1.75 | 0.75 | 0.94 |      |      |
|                    |   | 2            | 6.4             | 6.8             | ...             | ...            | ...            | 118295           | ...                 | ...         | 8.9            | 0.06                      | 1.75 | 0.75 | 0.94 |      |      |
|                    |   | 2            | 7.0◆            | 7.4◆            | ...             | ...            | ...            | 118296           | ...                 | ...         | 13.3           | 0.00                      | 1.75 | 0.81 | 0.94 |      |      |
| 9D                 | 3   | 4            | ...             | ...             | ...             | 4.75           | ...            | 310077           | ...                 | ...         | 4.5            | 0.00                      | 1.91 | 2.13 | 0.22 |      |      |
|                    |   | 4            | ...             | ...             | ...             | 5.3            | ...            | 310078           | ...                 | ...         | 5.6            | 0.00                      | 1.91 | 2.13 | 0.22 |      |      |
|                    |   | 4            | ...             | ...             | ...             | 6.0            | ...            | 310079           | ...                 | ...         | 8.6            | 0.00                      | 1.91 | 2.13 | 0.22 |      |      |
|                    | 3   | 4            | 5.6             | 6.0             | ...             | ...            | ...            | 310060           | ...                 | ...         | 13.2           | 1.25                      | 3.25 | 2.25 | 0.25 |      |      |
|                    |   | 4            | 6.0             | 6.4             | ...             | ...            | ...            | 310061           | ...                 | ...         | 15.0           | 1.25                      | 3.25 | 2.25 | 0.25 |      |      |
|                    |   | 5            | 5.0             | 5.4             | ...             | ...            | ...            | 310062           | ...                 | ...         | 11.4           | 2.00                      | 4.00 | 2.25 | 0.25 |      |      |
|                    |   | 5            | 5.2             | 5.6             | ...             | ...            | ...            | 310063           | ...                 | ...         | 12.3           | 2.00                      | 4.00 | 2.25 | 0.25 |      |      |
|                    |   | 11D,<br>11DL | 4               | 3               | ...             | ...            | ...            | ...              | 7.5                 | 310082      | ...            | ...                       | 10.7 | 0.63 | 2.38 | 0.75 | 1.00 |
|                    |   |              |                 | 5               | ...             | ...            | ...            | 6.5              | ...                 | 310080      | ...            | ...                       | 7.6  | 0.56 | 2.31 | 0.75 | 1.00 |
| 5                  | ...   |              |                 | ...             | ...             | 6.9            | ...            | 310081           | ...                 | ...         | 8.7            | 0.56                      | 2.31 | 0.75 | 1.00 |      |      |
| 4                  | 5   |              | 6.2             | 6.6             | ...             | ...            | ...            | 310064           | ...                 | ...         | 13.7           | 1.63                      | 4.00 | 0.75 | 1.63 |      |      |
|                    | 5   |              | 6.4             | 6.8             | ...             | ...            | ...            | 310065           | ...                 | ...         | 14.0           | 1.63                      | 4.00 | 0.75 | 1.63 |      |      |
|                    | 5   |              | 7.0             | 7.4             | ...             | ...            | ...            | 310066           | ...                 | ...         | 18.0           | 1.63                      | 4.00 | 0.75 | 1.63 |      |      |
|                    | 5   |              | 8.2             | 8.6             | ...             | ...            | ...            | 310067           | ...                 | ...         | 23.0           | 1.63                      | 4.00 | 0.75 | 1.63 |      |      |
|                    | 15D   |              | 4               | 4               | ...             | ...            | ...            | ...              | 9.75                | 310085      | ...            | ...                       | 19.8 | 0.56 | 3.06 | 0.75 | 1.75 |
| 5                  |   |              |                 | ...             | ...             | ...            | ...            | 8.5              | 310083              | ...         | ...            | 16.4                      | 1.25 | 3.75 | 0.75 | 1.75 |      |
| 5                  |   |              |                 | ...             | ...             | ...            | ...            | 9.0              | 310084              | ...         | ...            | 18.6                      | 1.25 | 3.75 | 0.75 | 1.75 |      |
| 4                  |   |              | 5               | ...             | ...             | 10.5           | ...            | ...              | 310068              | ...         | ...            | 37.0                      | 2.75 | 5.38 | 0.75 | 1.88 |      |
|                    |   | 6            | ...             | ...             | 9.0             | ...            | ...            | 310069           | ...                 | ...         | 31.0           | 2.75                      | 6.38 | 0.75 | 2.88 |      |      |
|                    |   | 6            | ...             | ...             | 9.5             | ...            | ...            | 310070           | ...                 | ...         | 33.8           | 2.75                      | 6.38 | 0.75 | 2.88 |      |      |
|                    |   | 6            | ...             | ...             | 10.0            | ...            | ...            | 310071           | ...                 | ...         | 40.0           | 2.75                      | 6.38 | 0.75 | 2.88 |      |      |
| 18D                | Not Stocked, See Made-To-Order Sheaves on Next Page |              |                 |                 |                 |                |                |                  |                     |             |                |                           |      |      |      |      |      |

★ Composite groove to accommodate either A or B belts.

◆ Made to order sheaves, price on application.

† These sizes also fit 70D.

▲ Weight does not include bushing. Order from next page.

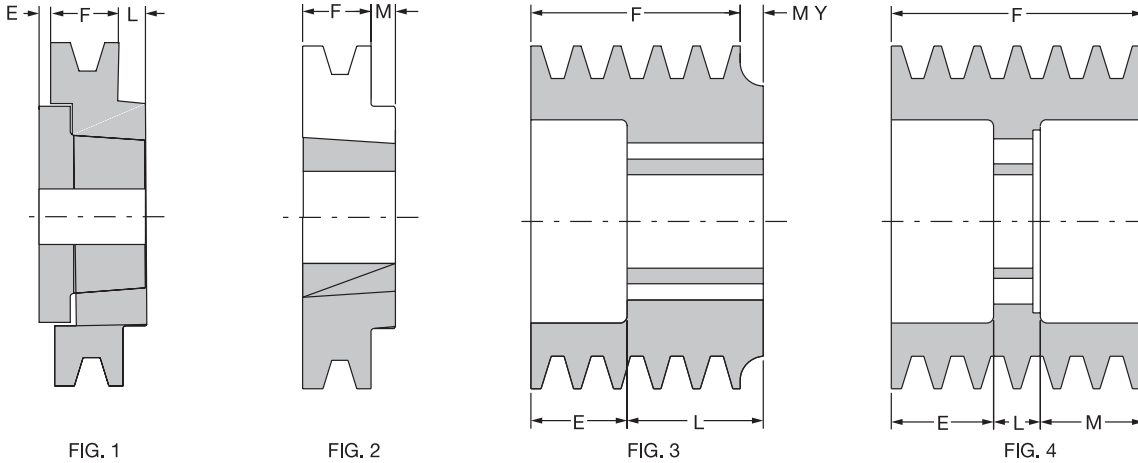
|                                 |                             |                         |                                      |
|---------------------------------|-----------------------------|-------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT3-2 | SPECIFICATION<br>PAGE PT3-3 | SELECTION<br>PAGE PT3-4 | ENGINEERING/TECHNICAL<br>PAGE PT3-26 |
|---------------------------------|-----------------------------|-------------------------|--------------------------------------|



## FLEXIDYNE

The tables on the previous pages list stock sheaves available for use on FLEXIDYNE Drives from size 55D thru 15D. The size 5D uses integral sheaves which are shown on page PT3-8. The 18D sheaves are made-to-order.

Avoid the use of bored-to-size sheaves which use setscrews which may distort sleeve or damage bearings. Order sheaves by part number listed in tables on previous pages PT3-16 - PT3-17. Refer to V-Drive tables on Pages PT3-18 - PT3-24. Information on made-to-order sheaves is shown below



### FLEXIDYNE Sheave Bushings

| Dwg. Ref. | Bush. Type | Part Number | Wt. (Lbs.) | Size           |
|-----------|------------|-------------|------------|----------------|
| Fig. 1    | QD         | * 120580    | .6         | SH x 1-11/16   |
| Fig. 2    | TAPER-LOCK | * 117071    | .5         | 1610 x 1-11/16 |

\* These bushings used with 55D FLEXIDYNE. Must be used without key

▲ Locate right side of M dimension shown here @ right end of G dimension as shown in drawing for size 9D on page PT3-8

### Made-To-Order FLEXIDYNE Sheaves

| For FLEXIDYNE Mech. Size | Separate Sheaves |           |                       |     |         |
|--------------------------|------------------|-----------|-----------------------|-----|---------|
|                          | Max. No. Grvs    | Belt Size | Min. Dia.* TAPER-LOCK | QD  | Bolt-On |
| 55D                      | 1                | 3V        | 3.85                  | ... | ...     |
|                          |                  | A         | 3.8                   | 3.0 | ...     |
|                          |                  | B         | 4.2                   | 3.4 | ...     |
| 70D                      | 1                | 3V        | ...                   | ... | 5.3     |
|                          |                  | A         | ...                   | ... | 4.8     |
|                          |                  | B         | ...                   | ... | 5.2     |
| 75D                      | 2                | 3V        | ...                   | ... | 5.3     |
|                          |                  | A         | ...                   | ... | 4.8     |
|                          |                  | B         | ...                   | ... | 5.2     |
| 9D                       | 7                | 3V        | 6.4                   | ... | 4.75★   |
|                          | 6                | B         | 6.6                   | ... | 5.4◆    |
| 11D, 11DL                | 10               | 3V        | ...                   | ... | 6.6     |
|                          | 6                | 5V        | ...                   | ... | 7.5     |
|                          | 7                | B         | ...                   | ... | 6.7     |
| 15D                      | 15               | 3V        | ...                   | ... | 8.0     |
|                          | 9                | 5V        | ...                   | ... | 9.0     |
|                          | 9                | B         | ...                   | ... | 8.0     |
|                          | 7                | C         | ...                   | ... | 8.5     |
| 18D                      | 13               | 5V        | ...                   | ... | 11.8    |
|                          | 10               | C         | ...                   | ... | 11.0    |

\* For 3V, 5V groove sheaves outside diameter is shown. For A, B and C groove sheaves, pitch diameter is shown."

★ TAPER-LOCK furnished for 6.4 and larger O.D.

◆ TAPER-LOCK furnished for 6.6 and larger P.D.

Stock FLEXIDYNE sheaves should be used whenever possible. However Made-to-Order sheaves which conform to diameter and groove limitations listed in table at left, can be furnished. Consult DODGE if sheave required does not fall within these limits.

Made-to-order sheaves will be priced on application. Consult DODGE for price and delivery. The following should be included with your inquiry:

1. Style of Sheave (Bolt-on, Integral, TAPER-LOCK, etc.)
2. No. of Grooves.
3. Belt Size.
4. Sheave Dia. (State whether O.D. or P.D.)
5. Quantity Req'd.

|                                 |                             |                         |                                      |
|---------------------------------|-----------------------------|-------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT3-2 | SPECIFICATION<br>PAGE PT3-3 | SELECTION<br>PAGE PT3-4 | ENGINEERING/TECHNICAL<br>PAGE PT3-26 |
|---------------------------------|-----------------------------|-------------------------|--------------------------------------|



## FLEXIDYNE DS

These are typical drives for average service conditions

| Driven by 1750 RPM Motors |                    |          |          |                     | Driven by 1750 RPM Motors |                    |          |          |                     |
|---------------------------|--------------------|----------|----------|---------------------|---------------------------|--------------------|----------|----------|---------------------|
| Driven RPM                | V-Belt Drive Ratio | Sheave   |          | Quan. & Belt Size ◆ | Driven RPM                | V-Belt Drive Ratio | Sheave   |          | Quan. & Belt Size ◆ |
|                           |                    | Driver ▲ | Driven * |                     |                           |                    | Driver ▲ | Driven * |                     |
| 2250                      | 1.29               | 3.6      | AK30H    | 1-4L                | 1122                      | 1.56               | 3.6      | 5.6      | **                  |
| 2122                      | 1.22               | 3.4      | AK30H    | 1-4L                | 1117                      | 1.57               | 3.0      | AK51H    | 1-4L                |
| 2100                      | 1.20               | 3.6      | AK32H    | 1-4L                | 1105                      | 1.58               | 3.6      | AK61H    | 1-4L                |
| 1970                      | 1.13               | 3.6      | AK34H    | 1-4L                | 1048                      | 1.67               | 3.0      | AK54H    | 1-4L                |
| 1970                      | 1.13               | 3.4      | AK32H    | 1-4L                | 1012                      | 1.73               | 3.0      | AK56H    | 1-4L                |
| 1875                      | 1.07               | 3.0      | AK30H    | 1-4L                | 1008                      | 1.74               | 3.4      | BK65H    | 1-5L                |
| 1850                      | 1.06               | 3.6      | 3.4      | **                  | 983                       | 1.78               | 3.6      | 6.4      | **                  |
| 1850                      | 1.06               | 3.4      | AK34H    | 1-4L                | 955                       | 1.83               | 3.0      | AK59H    | 1-4L                |
| 1750                      | 1.00               | 3.0      | AK32H    | 1-4L                | 936                       | 1.87               | 3.0      | 5.6      | **                  |
| 1707                      | 1.03               | 4.0      | BK47H    | 1-5L                | 930                       | 1.88               | 3.4      | BK70H    | 1-5L                |
| 1703                      | 1.03               | 3.6      | AK41H    | 1-4L                | 921                       | 1.90               | 3.0      | AK61H    | 1-4L                |
| 1651                      | 1.06               | 3.6      | 3.8      | **                  | 900                       | 1.94               | 3.6      | AK74H    | 1-4L                |
| 1651                      | 1.06               | 3.4      | BK40H    | 1-5L                | 875                       | 2.00               | 3.0      | AK64H    | 1-4L                |
| 1640                      | 1.07               | 3.0      | AK34H    | 1-4L                | 833                       | 2.10               | 4.0      | BK90H    | 1-5L                |
| 1577                      | 1.11               | 3.6      | AK44H    | 1-4L                | 804                       | 2.18               | 3.4      | BK80H    | 1-5L                |
| 1572                      | 1.11               | 4.0      | BK50H    | 1-5L                | 788                       | 2.22               | 3.6      | AK84H    | 1-4L                |
| 1615                      | 1.08               | 3.6      | BK45H    | 1-5L                | 768                       | 2.28               | 3.6      | 8.2      | **                  |
| 1544                      | 1.13               | 3.0      | 3.4      | **                  | 751                       | 2.33               | 3.0      | AK74H    | 1-4L                |
| 1525                      | 1.15               | 3.4      | BK45H    | 1-5L                | 708                       | 2.47               | 3.4      | BK90H    | 1-5L                |
| 1496                      | 1.17               | 3.6      | AK46H    | 1-4L                | 700                       | 2.50               | 3.6      | AK94H    | 1-4L                |
| 1522                      | 1.15               | 4.0      | BK52H    | 1-5L                | 673                       | 2.60               | 4.0      | BK110H   | 1-5L                |
| 1458                      | 1.20               | 3.0      | 3.6      | **                  | 656                       | 2.67               | 3.0      | AK84H    | 1-4L                |
| 1451                      | 1.21               | 3.4      | BK47H    | 1-5L                | 641                       | 2.73               | 3.0      | 8.2      | **                  |
| 1429                      | 1.23               | 4.0      | BK55H    | 1-5L                | 630                       | 2.78               | 3.6      | AK104H   | 1-4L                |
| 1400                      | 1.25               | 3.6      | AK49H    | 1-4L                | 614                       | 2.85               | 4.0      | BK120H   | 1-5L                |
| 1423                      | 1.23               | 3.0      | AK41H    | 1-4L                | 595                       | 2.94               | 3.6      | 10.6     | **                  |
| 1378                      | 1.27               | 3.0      | 3.8      | **                  | 583                       | 3.00               | 3.0      | AK94H    | 1-4L                |
| 1376                      | 1.28               | 3.6      | 4.6      | **                  | 572                       | 3.06               | 3.4      | BK110H   | 1-5L                |
| 1372                      | 1.28               | 4.0      | BK57H    | 1-5L                | 525                       | 3.33               | 3.0      | AK104H   | 1-4L                |
| 1316                      | 1.33               | 3.6      | 4.8      | **                  | 496                       | 3.53               | 3.0      | 10.6     | **                  |
| 1340                      | 1.31               | 3.6      | AK51H    | 1-4L                | 455                       | 3.85               | 4.0      | BK160H   | 1-5L                |
| 1313                      | 1.33               | 3.0      | AK44H    | 1-4L                | 450                       | 3.89               | 3.6      | AK144H   | 1-4L                |
| 1296                      | 1.35               | 4.0      | BK60H    | 1-5L                | 444                       | 3.94               | 3.4      | BK140H   | 1-5L                |
| 1293                      | 1.35               | 3.4      | BK52H    | 1-5L                | 438                       | 4.00               | 3.0      | AK124H   | 1-4L                |
| 1259                      | 1.39               | 3.6      | AK54H    | 1-4L                | 420                       | 4.17               | 3.6      | AK154H   | 1-4L                |
| 1250                      | 1.40               | 3.0      | AK46H    | 1-4L                | 386                       | 4.53               | 3.4      | BK160H   | 1-5L                |
| 1215                      | 1.44               | 3.6      | AK56H    | 1-4L                | 375                       | 4.67               | 3.0      | AK144H   | 1-4L                |
| 1214                      | 1.44               | 3.4      | BK55H    | 1-5L                | 350                       | 5.00               | 3.0      | AK154H   | 1-4L                |
| 1186                      | 1.48               | 4.0      | BK65H    | 1-5L                | 323                       | 5.41               | 3.4      | BK190H   | 1-5L                |
| 1167                      | 1.50               | 3.0      | AK49H    | 1-4L                | 292                       | 6.00               | 3.0      | AK184H   | 1-4L                |
| 1167                      | 1.50               | 3.4      | BK57H    | 1-5L                |                           |                    |          |          |                     |
| 1145                      | 1.58               | 3.6      | AK59H    | 1-4L                |                           |                    |          |          |                     |

\*\* Use one belt, either A or 4L.

▲ Pitch diameter of integral sheaves supplied with stock 5D-FLEXIDYNE.

◆ "A" Belts may be used in place of 4L belts on 3.0 P.D. sheaves or larger.

"AX" Belts may be used in place of 4L belts on 2.2 P.D. sheaves or larger.

"B" Belts are not recommended in place of 5L belts.

"BX" Belts may be used in place of 5L belts on 4.0 P.D. sheaves or larger.

\* All Sheaves are DODGE stock sheaves. Size numbers are shown for FHP 4L and 5L sheaves; datum diameters for Dual Duty sheaves.

|                                 |                             |                         |                                      |
|---------------------------------|-----------------------------|-------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT3-2 | SPECIFICATION<br>PAGE PT3-3 | SELECTION<br>PAGE PT3-4 | ENGINEERING/TECHNICAL<br>PAGE PT3-26 |
|---------------------------------|-----------------------------|-------------------------|--------------------------------------|



## FLEXIDYNE V-Belt Drives For 55D FLEXIDYNE Drives

These are typical drives for average service conditions

| Driven by 1750 RPM Motors |                    |            |          |                     | Driven by 1750 RPM Motors |                    |            |          |                     |
|---------------------------|--------------------|------------|----------|---------------------|---------------------------|--------------------|------------|----------|---------------------|
| Driven RPM                | V-Belt Drive Ratio | Diameter ★ |          | Quan. & Belt Size ◆ | Driven RPM                | V-Belt Drive Ratio | Diameter ★ |          | Quan. & Belt Size ◆ |
|                           |                    | Driver *   | Driven ▲ |                     |                           |                    | Driver *   | Driven ▲ |                     |
| 1750                      | 1.00               | 3.6        | 3.6      | 1-A                 | 1160                      | 1.00               | 3.0        | 3.0      | 1-A                 |
| 1750                      | 1.00               | 3.4        | 3.4      | 1-3V                | 1160                      | 1.00               | 3.4        | 3.4      | 1-3V                |
| 1670                      | 1.05               | 4.2        | 4.4      | 1-A                 | 1112                      | 1.04               | 4.6        | 4.8      | 1-B                 |
| 1657                      | 1.06               | 4.5        | 4.8      | 1-3V                | 1098                      | 1.06               | 4.5        | 4.8      | 1-3V                |
| 1598                      | 1.10               | 4.2        | 4.6      | 1-A                 | 1059                      | 1.10               | 4.2        | 4.6      | 1-A                 |
| 1573                      | 1.11               | 4.5        | 5.0      | 1-3V                | 1061                      | 1.09               | 4.1        | 4.5      | 1-3V                |
| 1522                      | 1.15               | 4.0        | 4.6      | 1-A                 | 1036                      | 1.12               | 5.0        | 5.6      | 1-B                 |
| 1515                      | 1.15               | 4.1        | 4.8      | 1-3V                | 1026                      | 1.13               | 3.7        | 4.1      | 1-3V                |
| 1483                      | 1.18               | 4.5        | 5.3      | 1-3V                | 1005                      | 1.15               | 4.1        | 4.8      | 1-3V                |
| 1470                      | 1.19               | 4.2        | 5.0      | 1-A                 | 1002                      | 1.16               | 3.8        | 4.4      | 1-A                 |
| 1439                      | 1.22               | 4.1        | 5.0      | 1-3V                | 958                       | 1.21               | 3.8        | 4.6      | 1-A                 |
| 1411                      | 1.24               | 5.0        | 6.2      | 1-B                 | 954                       | 1.22               | 4.1        | 5.0      | 1-3V                |
| 1403                      | 1.25               | 4.5        | 5.6      | 1-3V                | 928                       | 1.25               | 3.2        | 4.0      | 1-A                 |
| 1357                      | 1.29               | 4.1        | 5.3      | 1-3V                | 930                       | 1.25               | 4.5        | 5.6      | 1-3V                |
| 1342                      | 1.30               | 4.6        | 6.0      | 1-B                 | 899                       | 1.29               | 4.1        | 5.3      | 1-3V                |
| 1309                      | 1.34               | 4.5        | 6.0      | 1-3V                | 892                       | 1.30               | 4.0        | 5.2      | 1-A                 |
| 1298                      | 1.35               | 4.6        | 6.2      | 1-B                 | 868                       | 1.34               | 4.5        | 6.0      | 1-3V                |
| 1273                      | 1.37               | 3.7        | 5.0      | 1-3V                | 859                       | 1.35               | 4.0        | 5.4      | 1-A                 |
| 1250                      | 1.40               | 4.0        | 5.6      | 1-A                 | 844                       | 1.37               | 3.7        | 5.0      | 1-3V                |
| 1229                      | 1.42               | 3.4        | 4.8      | 1-3V                | 840                       | 1.38               | 4.2        | 5.8      | 1-A                 |
| 1207                      | 1.45               | 4.0        | 5.8      | 1-A                 | 816                       | 1.42               | 3.8        | 5.4      | 1-A                 |
| 1197                      | 1.46               | 4.1        | 6.0      | 1-3V                | 814                       | 1.42               | 3.4        | 4.8      | 1-3V                |
| 1182                      | 1.48               | 5.0        | 7.4      | 1-B                 | 800                       | 1.45               | 4.5        | 6.5      | 1-3V                |
| 1167                      | 1.50               | 3.4        | 5.0      | 1-3V                | 791                       | 1.47               | 3.0        | 4.4      | 1-A                 |
| 1135                      | 1.54               | 3.7        | 5.6      | 1-3V                | 773                       | 1.50               | 3.2        | 4.8      | 1-A                 |
| 1129                      | 1.55               | 4.0        | 6.2      | 1-A                 | 773                       | 1.50               | 3.4        | 5.0      | 1-3V                |
| 1100                      | 1.59               | 3.4        | 5.3      | 1-3V                | 757                       | 1.53               | 3.0        | 4.6      | 1-A                 |
| 1094                      | 1.60               | 4.0        | 6.4      | 1-A                 | 754                       | 1.54               | 4.5        | 6.9      | 1-3V                |
| 1073                      | 1.63               | 3.8        | 6.2      | 1-A                 | 746                       | 1.56               | 3.6        | 5.6      | 1-A                 |
| 1059                      | 1.65               | 3.7        | 6.0      | 1-3V                | 730                       | 1.59               | 3.4        | 5.4      | 1-A                 |
| 1041                      | 1.68               | 3.4        | 5.6      | 1-3V                | 729                       | 1.59               | 3.4        | 5.3      | 1-3V                |
| 1026                      | 1.71               | 3.4        | 5.8      | 1-A                 | 711                       | 1.63               | 3.8        | 6.2      | 1-A                 |
| 1000                      | 1.75               | 4.0        | 7.0      | 1-A                 | 702                       | 1.65               | 3.7        | 6.0      | 1-3V                |
| 980                       | 1.79               | 4.5        | 8.0      | 1-3V                | 696                       | 1.67               | 3.0        | 5.0      | 1-A                 |
| 960                       | 1.82               | 3.4        | 6.2      | 1-A                 | 690                       | 1.68               | 3.4        | 5.6      | 1-3V                |
| 936                       | 1.87               | 4.6        | 8.6      | 1-B                 | 680                       | 1.71               | 3.4        | 5.8      | 1-A                 |
| 920                       | 1.90               | 3.7        | 6.9      | 1-3V                | 649                       | 1.79               | 4.5        | 8.0      | 1-3V                |
| 900                       | 1.94               | 3.6        | 7.0      | 1-A                 | 644                       | 1.80               | 3.0        | 5.4      | 1-A                 |
| 895                       | 1.95               | 3.4        | 6.5      | 1-3V                | 616                       | 1.88               | 3.4        | 6.4      | 1-A                 |
| 850                       | 2.06               | 3.4        | 7.0      | 1-A                 | 610                       | 1.90               | 3.7        | 6.9      | 1-3V                |
| 843                       | 2.08               | 3.4        | 6.9      | 1-3V                | 593                       | 1.95               | 3.4        | 6.5      | 1-3V                |
| 795                       | 2.20               | 5.0        | 11.0     | 1-B                 | 580                       | 2.00               | 3.0        | 6.0      | 1-A                 |
| 792                       | 2.21               | 3.7        | 8.0      | 1-3V                | 559                       | 2.08               | 3.4        | 6.9      | 1-3V                |
| 759                       | 2.30               | 4.6        | 10.6     | 1-A                 | 544                       | 2.13               | 3.0        | 6.4      | 1-A                 |
| 726                       | 2.41               | 3.4        | 8.2      | 1-A                 | 527                       | 2.20               | 5.0        | 11.0     | 1-B                 |
| 726                       | 2.41               | 3.4        | 8.0      | 1-3V                | 525                       | 2.21               | 3.7        | 8.0      | 1-3V                |
| 693                       | 2.52               | 4.2        | 10.6     | 1-A                 | 503                       | 2.30               | 4.6        | 10.6     | 1-A                 |
| 675                       | 2.59               | 4.1        | 10.6     | 1-3V                | 489                       | 2.37               | 4.5        | 10.6     | 1-3V                |
| 671                       | 2.61               | 4.6        | 12.0     | 1-A                 | 481                       | 2.41               | 3.4        | 8.2      | 1-A                 |
| 627                       | 2.79               | 3.8        | 10.6     | 1-A                 | 482                       | 2.41               | 3.4        | 8.0      | 1-3V                |
| 597                       | 2.93               | 3.7        | 10.6     | 1-3V                | 448                       | 2.59               | 4.1        | 10.6     | 1-3V                |
| 583                       | 3.00               | 4.0        | 12.0     | 1-A                 | 445                       | 2.61               | 4.6        | 12.0     | 1-A                 |
| 558                       | 3.13               | 4.5        | 14.0     | 1-3V                | 406                       | 2.86               | 4.2        | 12.0     | 1-A                 |
| 537                       | 3.26               | 4.6        | 15.0     | 1-A                 | 396                       | 2.93               | 3.7        | 10.6     | 1-3V                |
| 511                       | 3.43               | 4.1        | 14.0     | 1-3V                | 372                       | 3.12               | 3.4        | 10.6     | 1-A                 |
| 496                       | 3.53               | 3.4        | 12.0     | 1-A                 | 370                       | 3.13               | 4.5        | 14.0     | 1-3V                |
| 476                       | 3.68               | 5.0        | 18.4     | 1-B                 | 346                       | 3.35               | 4.6        | 15.4     | 1-B                 |
| 452                       | 3.87               | 3.7        | 14.0     | 1-3V                | 338                       | 3.43               | 4.1        | 14.0     | 1-3V                |
| 443                       | 3.95               | 3.8        | 15.0     | 1-A                 | 309                       | 3.75               | 3.2        | 12.0     | 1-A                 |
| 420                       | 4.17               | 3.6        | 15.0     | 1-A                 | 299                       | 3.87               | 3.7        | 14.0     | 1-3V                |
| 411                       | 4.26               | 4.5        | 19.0     | 1-3V                | 278                       | 4.17               | 3.6        | 15.0     | 1-A                 |
| 397                       | 4.41               | 3.4        | 15.0     | 1-A                 | 274                       | 4.23               | 3.4        | 14.0     | 1-3V                |
| 376                       | 4.66               | 4.1        | 19.0     | 1-3V                | 258                       | 4.50               | 4.0        | 18.0     | 1-A                 |
| 369                       | 4.74               | 3.8        | 18.0     | 1-A                 | 249                       | 4.66               | 4.1        | 19.0     | 1-3V                |
| 350                       | 5.00               | 3.6        | 18.0     | 1-A                 | 219                       | 5.29               | 3.4        | 18.0     | 1-A                 |
| 331                       | 5.29               | 3.4        | 18.0     | 1-A                 | 220                       | 5.26               | 3.7        | 19.0     | 1-3V                |
| 332                       | 5.26               | 3.7        | 19.0     | 1-3V                | 202                       | 5.74               | 3.4        | 19.0     | 1-3V                |
| 305                       | 5.74               | 3.4        | 19.0     | 1-3V                | 193                       | 6.00               | 3.0        | 18.0     | 1-A                 |

\* Stock FLEXIDYNE sheaves listed on page PT3-16 - PT3-17.

★ Outside diameter of 3V DYNA-V sheaves. Datum diameter of A and B sheaves. All ratios are based on P.D. for DYNA-V Sheaves and Datum diameter for A and B Sheaves.

\* Stock TAPER-LOCK sheaves in V-drives section.

|                                 |                             |                         |                                      |
|---------------------------------|-----------------------------|-------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT3-2 | SPECIFICATION<br>PAGE PT3-3 | SELECTION<br>PAGE PT3-4 | ENGINEERING/TECHNICAL<br>PAGE PT3-26 |
|---------------------------------|-----------------------------|-------------------------|--------------------------------------|



## FLEXIDYNE V-Belts Drive For 70D FLEXIDYNE Drives

These are typical drives for average service conditions

| Driven by 1750 RPM Motors |                    |            |          |                     | Driven by 1750 RPM Motors |                    |            |          |                     |
|---------------------------|--------------------|------------|----------|---------------------|---------------------------|--------------------|------------|----------|---------------------|
| Driven RPM                | V-Belt Drive Ratio | Diameter ★ |          | Quan. & Belt Size ◆ | Driven RPM                | V-Belt Drive Ratio | Diameter ★ |          | Quan. & Belt Size ◆ |
|                           |                    | Driver *   | Driven ▲ |                     |                           |                    | Driver *   | Driven ▲ |                     |
| 1750                      | 1.00               | 5.6        | 5.6      | 1-B                 | 1160                      | 1.00               | 4.8        | 4.8      | 1-A                 |
| 1694                      | 1.03               | 6.0        | 6.2      | 1-B                 | 1123                      | 1.03               | 6.0        | 6.2      | 1-B                 |
| 1690                      | 1.04               | 5.6        | 5.8      | 1-B                 | 1119                      | 1.04               | 5.4        | 5.6      | 1-B                 |
| 1641                      | 1.07               | 6.0        | 6.4      | 1-B                 | 1094                      | 1.06               | 5.0        | 5.3      | 1-3V                |
| 1633                      | 1.07               | 5.6        | 6.0      | 1-B                 | 1083                      | 1.07               | 5.6        | 6.0      | 1-B                 |
| 1632                      | 1.07               | 5.6        | 6.0      | 1-3V                | 1082                      | 1.07               | 5.6        | 6.0      | 1-3V                |
| 1614                      | 1.08               | 6.0        | 6.5      | 1-3V                | 1070                      | 1.08               | 6.0        | 6.5      | 1-3V                |
| 1591                      | 1.10               | 6.0        | 6.6      | 1-B                 | 1055                      | 1.10               | 6.0        | 6.6      | 1-B                 |
| 1581                      | 1.11               | 5.6        | 6.2      | 1-B                 | 1040                      | 1.12               | 5.2        | 5.8      | 1-B                 |
| 1575                      | 1.11               | 5.4        | 6.0      | 1-B                 | 1035                      | 1.12               | 5.0        | 5.6      | 1-3V                |
| 1544                      | 1.13               | 6.0        | 6.8      | 1-B                 | 1015                      | 1.14               | 5.6        | 6.4      | 1-B                 |
| 1531                      | 1.14               | 5.6        | 6.4      | 1-B                 | 1008                      | 1.15               | 6.0        | 6.9      | 1-3V                |
| 1524                      | 1.15               | 5.4        | 6.2      | 1-B                 | 998                       | 1.16               | 5.6        | 6.5      | 1-3V                |
| 1520                      | 1.15               | 6.0        | 6.9      | 1-3V                | 994                       | 1.17               | 4.8        | 5.6      | 1-A                 |
| 1506                      | 1.16               | 5.6        | 6.5      | 1-3V                | 967                       | 1.20               | 5.0        | 6.0      | 1-A                 |
| 1485                      | 1.18               | 5.6        | 6.6      | 1-B                 | 965                       | 1.20               | 5.0        | 6.0      | 1-3V                |
| 1477                      | 1.19               | 5.4        | 6.4      | 1-B                 | 949                       | 1.22               | 5.4        | 6.6      | 1-B                 |
| 1441                      | 1.21               | 5.6        | 6.8      | 1-B                 | 940                       | 1.23               | 5.6        | 6.9      | 1-3V                |
| 1432                      | 1.22               | 5.4        | 6.6      | 1-B                 | 928                       | 1.25               | 4.8        | 6.0      | 1-A                 |
| 1419                      | 1.23               | 6.0        | 7.4      | 1-B                 | 914                       | 1.27               | 5.2        | 6.6      | 1-B                 |
| 1418                      | 1.23               | 5.6        | 6.9      | 1-3V                | 898                       | 1.29               | 4.8        | 6.2      | 1-A                 |
| 1390                      | 1.26               | 5.4        | 6.8      | 1-B                 | 890                       | 1.30               | 5.0        | 6.5      | 1-3V                |
| 1324                      | 1.32               | 5.6        | 7.4      | 1-B                 | 878                       | 1.32               | 5.6        | 7.4      | 1-B                 |
| 1310                      | 1.34               | 6.0        | 8.0      | 1-3V                | 868                       | 1.34               | 6.0        | 8.0      | 1-3V                |
| 1265                      | 1.38               | 5.0        | 6.9      | 1-3V                | 862                       | 1.35               | 5.2        | 7.0      | 1-A                 |
| 1221                      | 1.43               | 6.0        | 8.6      | 1-B                 | 846                       | 1.37               | 5.4        | 7.4      | 1-B                 |
| 1222                      | 1.43               | 5.6        | 8.0      | 1-3V                | 838                       | 1.38               | 5.0        | 6.9      | 1-3V                |
| 1140                      | 1.54               | 5.6        | 8.6      | 1-B                 | 829                       | 1.40               | 5.0        | 7.0      | 1-A                 |
| 1117                      | 1.57               | 6.0        | 9.4      | 1-B                 | 809                       | 1.43               | 6.0        | 8.6      | 1-B                 |
| 1099                      | 1.59               | 5.4        | 8.6      | 1-B                 | 810                       | 1.43               | 5.6        | 8.0      | 1-3V                |
| 1090                      | 1.61               | 5.0        | 8.0      | 1-3V                | 792                       | 1.46               | 5.6        | 8.2      | 1-A                 |
| 1058                      | 1.65               | 5.2        | 8.6      | 1-B                 | 755                       | 1.54               | 5.6        | 8.6      | 1-B                 |
| 1043                      | 1.68               | 5.6        | 9.4      | 1-B                 | 740                       | 1.57               | 6.0        | 9.4      | 1-B                 |
| 1005                      | 1.74               | 5.4        | 9.4      | 1-B                 | 722                       | 1.61               | 5.6        | 9.0      | 1-A                 |
| 987                       | 1.77               | 6.0        | 10.6     | 1-3V                | 722                       | 1.61               | 5.0        | 8.0      | 1-3V                |
| 968                       | 1.81               | 5.2        | 9.4      | 1-B                 | 701                       | 1.65               | 5.2        | 8.6      | 1-B                 |
| 955                       | 1.83               | 6.0        | 11.0     | 1-B                 | 679                       | 1.71               | 4.8        | 8.2      | 1-A                 |
| 921                       | 1.90               | 5.6        | 10.6     | 1-3V                | 666                       | 1.74               | 5.4        | 9.4      | 1-B                 |
| 891                       | 1.96               | 5.6        | 11.0     | 1-B                 | 654                       | 1.77               | 6.0        | 10.6     | 1-3V                |
| 859                       | 2.04               | 5.4        | 11.0     | 1-B                 | 644                       | 1.80               | 5.0        | 9.0      | 1-A                 |
| 847                       | 2.07               | 6.0        | 12.4     | 1-B                 | 613                       | 1.89               | 5.6        | 10.6     | 1-A                 |
| 827                       | 2.12               | 5.2        | 11.0     | 1-B                 | 610                       | 1.90               | 5.6        | 10.6     | 1-3V                |
| 821                       | 2.13               | 5.0        | 10.6     | 1-3V                | 591                       | 1.96               | 5.6        | 11.0     | 1-B                 |
| 790                       | 2.21               | 5.6        | 12.4     | 1-B                 | 569                       | 2.04               | 5.4        | 11.0     | 1-B                 |
| 762                       | 2.30               | 5.4        | 12.4     | 1-B                 | 548                       | 2.12               | 5.2        | 11.0     | 1-B                 |
| 746                       | 2.34               | 6.0        | 14.0     | 1-3V                | 544                       | 2.13               | 5.0        | 10.6     | 1-3V                |
| 734                       | 2.38               | 5.2        | 12.4     | 1-B                 | 525                       | 2.21               | 4.8        | 10.6     | 1-A                 |
| 696                       | 2.51               | 5.6        | 14.0     | 1-3V                | 505                       | 2.30               | 5.4        | 12.4     | 1-B                 |
| 682                       | 2.57               | 6.0        | 15.4     | 1-B                 | 495                       | 2.34               | 6.0        | 14.0     | 1-3V                |
| 636                       | 2.75               | 5.6        | 15.4     | 1-B                 | 486                       | 2.38               | 5.2        | 12.4     | 1-B                 |
| 621                       | 2.82               | 5.0        | 14.0     | 1-3V                | 464                       | 2.50               | 4.8        | 12.0     | 1-A                 |
| 614                       | 2.85               | 5.4        | 15.4     | 1-B                 | 462                       | 2.51               | 5.6        | 14.0     | 1-3V                |
| 609                       | 2.87               | 6.4        | 18.4     | 1-B                 | 452                       | 2.57               | 6.0        | 15.4     | 1-B                 |
| 591                       | 2.96               | 5.2        | 15.4     | 1-B                 | 433                       | 2.68               | 5.6        | 15.0     | 1-A                 |
| 571                       | 3.07               | 6.0        | 18.4     | 1-B                 | 422                       | 2.75               | 5.6        | 15.4     | 1-B                 |
| 549                       | 3.18               | 6.0        | 19.0     | 1-3V                | 412                       | 2.82               | 5.0        | 14.0     | 1-3V                |
| 533                       | 3.29               | 5.6        | 18.4     | 1-B                 | 402                       | 2.88               | 5.2        | 15.0     | 1-A                 |
| 514                       | 3.41               | 5.4        | 18.4     | 1-B                 | 392                       | 2.96               | 5.2        | 15.4     | 1-B                 |
| 513                       | 3.41               | 5.6        | 19.0     | 1-3V                | 387                       | 3.00               | 5.0        | 15.0     | 1-A                 |
| 495                       | 3.54               | 5.2        | 18.4     | 1-B                 | 371                       | 3.12               | 4.8        | 15.0     | 1-A                 |
| 457                       | 3.83               | 5.0        | 19.0     | 1-3V                | 364                       | 3.18               | 6.0        | 19.0     | 1-3V                |
| .....                     | .....              | ..         | ...      | .....               | 361                       | 3.21               | 5.6        | 18.0     | 1-A                 |
| .....                     | .....              | ..         | ...      | .....               | 353                       | 3.29               | 5.6        | 18.4     | 1-B                 |
| .....                     | .....              | ..         | ...      | .....               | 340                       | 3.41               | 5.6        | 19.0     | 1-3V                |
| .....                     | .....              | ..         | ...      | .....               | 335                       | 3.46               | 5.2        | 18.0     | 1-A                 |
| .....                     | .....              | ..         | ...      | .....               | 322                       | 3.60               | 5.0        | 18.0     | 1-A                 |
| .....                     | .....              | ..         | ...      | .....               | 309                       | 3.75               | 4.8        | 18.0     | 1-A                 |
| .....                     | .....              | ..         | ...      | .....               | 303                       | 3.83               | 5.0        | 19.0     | 1-3V                |

\* Stock FLEXIDYNE sheaves listed on page PT3-16 - PT3-17.

★ Outside diameter of 3V DYNA-V sheaves. Datum diameter of A and B sheaves. All ratios are based on P.D. for DYNA-V Sheaves and Datum diameter for A and B Sheaves.

\* Stock TAPER-LOCK sheaves in V-drives section.

|                                 |                             |                         |                                      |
|---------------------------------|-----------------------------|-------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT3-2 | SPECIFICATION<br>PAGE PT3-3 | SELECTION<br>PAGE PT3-4 | ENGINEERING/TECHNICAL<br>PAGE PT3-26 |
|---------------------------------|-----------------------------|-------------------------|--------------------------------------|



## FLEXIDYNE

### V-Belt Drives For 75D FLEXIDYNE Drives

These are typical drives for average service conditions

| Driven by 1750 RPM Motors |                    |            |          |                     | Driven by 1750 RPM Motors |                    |            |          |                     |
|---------------------------|--------------------|------------|----------|---------------------|---------------------------|--------------------|------------|----------|---------------------|
| Driven RPM                | V-Belt Drive Ratio | Diameter ★ |          | Quan. & Belt Size ◆ | Driven RPM                | V-Belt Drive Ratio | Diameter ★ |          | Quan. & Belt Size ◆ |
|                           |                    | Driver *   | Driven ⬆ |                     |                           |                    | Driver *   | Driven ⬆ |                     |
| 1750                      | 1.00               | 5.6        | 5.6      | 2-B                 | 1160                      | 1.00               | 4.8        | 4.8      | 2-A                 |
| 1694                      | 1.03               | 6.0        | 6.2      | 2-B                 | 1114                      | 1.04               | 4.8        | 5.0      | 2-A                 |
| 1690                      | 1.04               | 5.6        | 5.8      | 2-B                 | 1094                      | 1.06               | 5.0        | 5.3      | 2-3V                |
| 1641                      | 1.07               | 6.0        | 6.4      | 2-B                 | 1082                      | 1.07               | 5.6        | 6.0      | 2-3V                |
| 1632                      | 1.07               | 5.6        | 6.0      | 2-3V                | 1071                      | 1.08               | 4.8        | 5.2      | 2-A                 |
| 1614                      | 1.08               | 6.0        | 6.5      | 2-3V                | 1072                      | 1.08               | 6.0        | 6.5      | 2-3V                |
| 1591                      | 1.10               | 6.0        | 6.6      | 2-B                 | 1055                      | 1.10               | 6.0        | 6.6      | 2-B                 |
| 1544                      | 1.13               | 6.0        | 6.8      | 2-B                 | 1036                      | 1.12               | 5.0        | 5.6      | 2-A                 |
| 1524                      | 1.15               | 5.4        | 6.2      | 2-B                 | 1035                      | 1.12               | 5.0        | 5.6      | 2-3V                |
| 1520                      | 1.15               | 6.0        | 6.9      | 2-3V                | 1015                      | 1.14               | 5.6        | 6.4      | 2-B                 |
| 1506                      | 1.16               | 5.6        | 6.5      | 2-3V                | 1008                      | 1.15               | 6.0        | 6.9      | 2-3V                |
| 1485                      | 1.18               | 5.6        | 6.6      | 2-B                 | 1000                      | 1.16               | 5.0        | 5.8      | 2-A                 |
| 1441                      | 1.21               | 5.6        | 6.8      | 2-B                 | 998                       | 1.16               | 5.6        | 6.5      | 2-3V                |
| 1419                      | 1.23               | 6.0        | 7.4      | 2-B                 | 994                       | 1.17               | 4.8        | 5.6      | 2-A                 |
| 1418                      | 1.23               | 5.6        | 6.9      | 2-3V                | 984                       | 1.18               | 5.6        | 6.6      | 2-B                 |
| 1390                      | 1.26               | 5.4        | 6.8      | 2-B                 | 967                       | 1.20               | 5.0        | 6.0      | 2-A                 |
| 1324                      | 1.32               | 5.6        | 7.4      | 2-B                 | 965                       | 1.20               | 5.0        | 6.0      | 2-3V                |
| 1310                      | 1.34               | 6.0        | 8.0      | 2-3V                | 960                       | 1.21               | 4.8        | 5.8      | 2-A                 |
| 1277                      | 1.37               | 5.4        | 7.4      | 2-B                 | 941                       | 1.23               | 6.0        | 7.4      | 2-B                 |
| 1265                      | 1.38               | 5.0        | 6.9      | 2-3V                | 940                       | 1.23               | 5.6        | 6.9      | 2-3V                |
| 1221                      | 1.43               | 6.0        | 8.6      | 2-B                 | 935                       | 1.24               | 5.0        | 6.2      | 2-A                 |
| 1222                      | 1.43               | 5.6        | 8.0      | 2-3V                | 928                       | 1.25               | 4.8        | 6.0      | 2-A                 |
| 1140                      | 1.54               | 5.6        | 8.6      | 2-B                 | 906                       | 1.28               | 5.0        | 6.4      | 2-A                 |
| 1117                      | 1.57               | 6.0        | 9.4      | 2-B                 | 898                       | 1.29               | 4.8        | 6.2      | 2-A                 |
| 1099                      | 1.59               | 5.4        | 8.6      | 2-B                 | 890                       | 1.30               | 5.0        | 6.5      | 2-3V                |
| 1090                      | 1.61               | 5.0        | 8.0      | 2-3V                | 887                       | 1.31               | 5.2        | 6.8      | 2-B                 |
| 1043                      | 1.68               | 5.6        | 9.4      | 2-B                 | 870                       | 1.33               | 4.8        | 6.4      | 2-A                 |
| 1005                      | 1.74               | 5.4        | 9.4      | 2-B                 | 868                       | 1.34               | 6.0        | 8.0      | 2-3V                |
| 987                       | 1.77               | 6.0        | 10.6     | 2-3V                | 862                       | 1.35               | 5.2        | 7.0      | 2-A                 |
| 968                       | 1.81               | 5.2        | 9.4      | 2-B                 | 846                       | 1.37               | 5.4        | 7.4      | 2-B                 |
| 955                       | 1.83               | 6.0        | 11.0     | 2-B                 | 838                       | 1.38               | 5.0        | 6.9      | 2-3V                |
| 921                       | 1.90               | 5.6        | 10.6     | 2-3V                | 829                       | 1.40               | 5.0        | 7.0      | 2-A                 |
| 891                       | 1.96               | 5.6        | 11.0     | 2-B                 | 809                       | 1.43               | 6.0        | 8.6      | 2-B                 |
| 859                       | 2.04               | 5.4        | 11.0     | 2-B                 | 810                       | 1.43               | 5.6        | 8.0      | 2-3V                |
| 847                       | 2.07               | 6.0        | 12.4     | 2-B                 | 795                       | 1.46               | 4.8        | 7.0      | 2-A                 |
| 827                       | 2.12               | 5.2        | 11.0     | 2-B                 | 755                       | 1.54               | 5.6        | 8.6      | 2-B                 |
| 821                       | 2.13               | 5.0        | 10.6     | 2-3V                | 736                       | 1.58               | 5.2        | 8.2      | 2-A                 |
| 790                       | 2.21               | 5.6        | 12.4     | 2-B                 | 722                       | 1.61               | 5.0        | 8.0      | 2-3V                |
| 762                       | 2.30               | 5.4        | 12.4     | 2-B                 | 707                       | 1.64               | 5.0        | 8.2      | 2-A                 |
| 746                       | 2.34               | 6.0        | 14.0     | 2-3V                | 679                       | 1.71               | 4.8        | 8.2      | 2-A                 |
| 734                       | 2.38               | 5.2        | 12.4     | 2-B                 | 670                       | 1.73               | 5.2        | 9.0      | 2-A                 |
| 696                       | 2.51               | 5.6        | 14.0     | 2-3V                | 654                       | 1.77               | 6.0        | 10.6     | 2-3V                |
| 682                       | 2.57               | 6.0        | 15.4     | 2-B                 | 644                       | 1.80               | 5.0        | 9.0      | 2-A                 |
| 636                       | 2.75               | 5.6        | 15.4     | 2-B                 | 619                       | 1.87               | 4.8        | 9.0      | 2-A                 |
| 621                       | 2.82               | 5.0        | 14.0     | 2-3V                | 610                       | 1.90               | 5.6        | 10.6     | 2-3V                |
| 614                       | 2.85               | 5.4        | 15.4     | 2-B                 | 591                       | 1.96               | 5.6        | 11.0     | 2-B                 |
| 591                       | 2.96               | 5.2        | 15.4     | 2-B                 | 569                       | 2.04               | 5.4        | 11.0     | 2-B                 |
| 571                       | 3.07               | 6.0        | 18.4     | 2-B                 | 547                       | 2.12               | 5.0        | 10.6     | 2-A                 |
| 549                       | 3.18               | 6.0        | 19.0     | 2-3V                | 544                       | 2.13               | 5.0        | 10.6     | 2-3V                |
| 525                       | 3.33               | 6.0        | 20.0     | 2-B                 | 525                       | 2.21               | 4.8        | 10.6     | 2-A                 |
| 514                       | 3.41               | 5.4        | 18.4     | 2-B                 | 495                       | 2.34               | 6.0        | 14.0     | 2-3V                |
| 513                       | 3.41               | 5.6        | 19.0     | 2-3V                | 486                       | 2.38               | 5.2        | 12.4     | 2-B                 |
| 490                       | 3.57               | 5.6        | 20.0     | 2-B                 | 464                       | 2.50               | 4.8        | 12.0     | 2-A                 |
| 455                       | 3.85               | 5.2        | 20.0     | 2-B                 | 462                       | 2.51               | 5.6        | 14.0     | 2-3V                |
| 457                       | 3.83               | 5.0        | 19.0     | 2-3V                | 422                       | 2.75               | 5.6        | 15.4     | 2-B                 |
| 420                       | 4.17               | 6.0        | 25.0     | 2-B                 | 412                       | 2.82               | 5.0        | 14.0     | 2-3V                |
| 417                       | 4.19               | 6.0        | 25.0     | 2-3V                | 402                       | 2.88               | 5.2        | 15.0     | 2-A                 |
| 392                       | 4.46               | 5.6        | 25.0     | 2-B                 | 387                       | 3.00               | 5.0        | 15.0     | 2-A                 |
| 389                       | 4.50               | 5.6        | 25.0     | 2-3V                | 371                       | 3.12               | 4.8        | 15.0     | 2-A                 |
| 378                       | 4.63               | 5.4        | 25.0     | 2-B                 | 364                       | 3.18               | 6.0        | 19.0     | 2-3V                |
| 364                       | 4.81               | 5.2        | 25.0     | 2-B                 | 340                       | 3.41               | 5.6        | 19.0     | 2-3V                |
| 350                       | 5.00               | 6.0        | 30.0     | 2-B                 | 322                       | 3.60               | 5.0        | 18.0     | 2-A                 |
| 347                       | 5.04               | 5.0        | 25.0     | 2-3V                | 309                       | 3.75               | 4.8        | 18.0     | 2-A                 |
| 327                       | 5.36               | 5.6        | 30.0     | 2-B                 | 303                       | 3.83               | 5.0        | 19.0     | 2-3V                |
| 303                       | 5.77               | 5.2        | 30.0     | 2-B                 | 278                       | 4.17               | 6.0        | 25.0     | 2-B                 |
| 276                       | 6.33               | 6.0        | 38.0     | 2-B                 | 277                       | 4.19               | 6.0        | 25.0     | 2-3V                |
| 258                       | 6.79               | 5.6        | 38.0     | 2-B                 | 258                       | 4.50               | 5.6        | 25.0     | 2-3V                |
| 249                       | 7.04               | 5.4        | 38.0     | 2-B                 | 230                       | 5.04               | 5.0        | 25.0     | 2-3V                |

\* Stock FLEXIDYNE sheaves listed on page PT3-16 - PT3-17.

★ Outside diameter of 3V DYNA-V sheaves. Datum diameter of A and B sheaves. All ratios are based on P.D. for DYNA-V Sheaves and Datum diameter for A and B Sheaves.

\* Stock TAPER-LOCK sheaves in V-drives section.

|                                 |                             |                         |                                      |
|---------------------------------|-----------------------------|-------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT3-2 | SPECIFICATION<br>PAGE PT3-3 | SELECTION<br>PAGE PT3-4 | ENGINEERING/TECHNICAL<br>PAGE PT3-26 |
|---------------------------------|-----------------------------|-------------------------|--------------------------------------|





## FLEXIDYNE

### V-Belt Drives For 9D FLEXIDYNE Drives

These are typical drives for average service conditions

| Driven by 1750 RPM Motors |                    |            |          |                     | Driven by 1750 RPM Motors |                    |            |          |                     |
|---------------------------|--------------------|------------|----------|---------------------|---------------------------|--------------------|------------|----------|---------------------|
| Driven RPM                | V-Belt Drive Ratio | Diameter ★ |          | Quan. & Belt Size ◆ | Driven RPM                | V-Belt Drive Ratio | Diameter ★ |          | Quan. & Belt Size ◆ |
|                           |                    | Driver *   | Driven ▲ |                     |                           |                    | Driver *   | Driven ▲ |                     |
| 1750                      | 1.00               | 4.75       | 4.75     | 4-3V                | 1160                      | 1.00               | 4.75       | 4.75     | 4-3V                |
| 1683                      | 1.04               | 5.0        | 5.2      | 5-A                 | 1115                      | 1.04               | 5.0        | 5.2      | 5-A                 |
| 1667                      | 1.05               | 4.75       | 5.0      | 4-3V                | 1105                      | 1.05               | 4.75       | 5.0      | 4-3V                |
| 1636                      | 1.07               | 5.6        | 6.0      | 4-A                 | 1084                      | 1.07               | 5.6        | 6.0      | 4-A                 |
| 1620                      | 1.08               | 5.2        | 5.6      | 5-A                 | 1074                      | 1.08               | 5.2        | 5.6      | 5-A                 |
| 1577                      | 1.11               | 5.4        | 6.0      | 5-B                 | 1045                      | 1.11               | 5.4        | 6.0      | 5-B                 |
| 1563                      | 1.12               | 4.75       | 5.3      | 4-3V                | 1036                      | 1.12               | 4.75       | 5.3      | 4-3V                |
| 1549                      | 1.13               | 5.3        | 6.0      | 4-3V                | 1027                      | 1.13               | 5.3        | 6.0      | 4-3V                |
| 1535                      | 1.14               | 5.6        | 6.4      | 4-A                 | 1018                      | 1.14               | 5.6        | 6.4      | 4-A                 |
| 1522                      | 1.15               | 6.0        | 6.9      | 4-3V                | 1009                      | 1.15               | 6.0        | 6.9      | 4-3V                |
| 1496                      | 1.17               | 6.0        | 7.0      | 4-A                 | 991                       | 1.17               | 6.0        | 7.0      | 4-A                 |
| 1483                      | 1.18               | 4.75       | 5.6      | 4-3V                | 983                       | 1.18               | 4.75       | 5.6      | 4-3V                |
| 1458                      | 1.20               | 5.0        | 6.0      | 5-A                 | 967                       | 1.20               | 5.0        | 6.0      | 5-A                 |
| 1423                      | 1.23               | 5.3        | 6.5      | 4-3V                | 943                       | 1.23               | 5.3        | 6.5      | 4-3V                |
| 1400                      | 1.25               | 5.6        | 7.0      | 4-A                 | 928                       | 1.25               | 5.6        | 7.0      | 4-A                 |
| 1378                      | 1.27               | 4.75       | 6.0      | 4-3V                | 913                       | 1.27               | 4.75       | 6.0      | 4-3V                |
| 1367                      | 1.28               | 5.0        | 6.4      | 5-A                 | 906                       | 1.28               | 5.0        | 6.4      | 5-A                 |
| 1346                      | 1.30               | 5.3        | 6.9      | 4-3V                | 892                       | 1.30               | 5.3        | 6.9      | 4-3V                |
| 1326                      | 1.32               | 5.6        | 7.4      | 5-B                 | 879                       | 1.32               | 5.6        | 7.4      | 5-B                 |
| 1306                      | 1.34               | 6.0        | 8.0      | 4-3V                | 866                       | 1.34               | 6.0        | 8.0      | 4-3V                |
| 1296                      | 1.35               | 5.2        | 7.0      | 5-A                 | 859                       | 1.35               | 5.2        | 7.0      | 5-A                 |
| 1277                      | 1.37               | 4.75       | 6.5      | 4-3V                | 847                       | 1.37               | 4.75       | 6.5      | 4-3V                |
| 1250                      | 1.40               | 5.0        | 7.0      | 5-A                 | 829                       | 1.40               | 5.0        | 7.0      | 5-A                 |
| 1224                      | 1.43               | 6.0        | 8.6      | 4-B                 | 811                       | 1.43               | 6.0        | 8.6      | 4-B                 |
| 1199                      | 1.46               | 4.75       | 6.9      | 4-3V                | 795                       | 1.46               | 4.75       | 6.9      | 4-3V                |
| 1159                      | 1.51               | 5.3        | 8.0      | 4-3V                | 768                       | 1.51               | 5.3        | 8.0      | 4-3V                |
| 1136                      | 1.54               | 5.6        | 8.6      | 5-B                 | 753                       | 1.54               | 5.6        | 8.6      | 5-B                 |
| 1108                      | 1.58               | 5.2        | 8.2      | 5-A                 | 734                       | 1.58               | 5.2        | 8.2      | 5-A                 |
| 1087                      | 1.61               | 5.6        | 9.0      | 4-A                 | 720                       | 1.61               | 5.6        | 9.0      | 4-A                 |
| 1067                      | 1.64               | 5.0        | 8.2      | 5-A                 | 707                       | 1.64               | 5.0        | 8.2      | 5-A                 |
| 1036                      | 1.69               | 4.75       | 8.0      | 4-3V                | 686                       | 1.69               | 4.75       | 8.0      | 4-3V                |
| 1012                      | 1.73               | 5.2        | 9.0      | 5-A                 | 671                       | 1.73               | 5.2        | 9.0      | 5-A                 |
| 989                       | 1.77               | 6.0        | 10.6     | 4-3V                | 655                       | 1.77               | 6.0        | 10.6     | 4-3V                |
| 972                       | 1.80               | 5.0        | 9.0      | 5-A                 | 644                       | 1.80               | 5.0        | 9.0      | 5-A                 |
| 956                       | 1.83               | 6.0        | 11.0     | 4-B                 | 634                       | 1.83               | 6.0        | 11.0     | 4-B                 |
| 926                       | 1.89               | 5.6        | 10.6     | 4-A                 | 614                       | 1.89               | 5.6        | 10.6     | 4-A                 |
| 902                       | 1.94               | 6.4        | 12.4     | 4-B                 | 598                       | 1.94               | 6.4        | 12.4     | 4-B                 |
| 871                       | 2.01               | 5.3        | 10.6     | 4-3V                | 577                       | 2.01               | 5.3        | 10.6     | 4-3V                |
| 858                       | 2.04               | 5.2        | 10.6     | 5-A                 | 569                       | 2.04               | 5.2        | 10.6     | 5-A                 |
| 818                       | 2.14               | 5.6        | 12.0     | 4-A                 | 542                       | 2.14               | 5.6        | 12.0     | 4-A                 |
| 792                       | 2.21               | 5.6        | 12.4     | 5-B                 | 525                       | 2.21               | 5.6        | 12.4     | 5-B                 |
| 781                       | 2.24               | 4.75       | 10.6     | 4-3V                | 518                       | 2.24               | 4.75       | 10.6     | 4-3V                |
| 748                       | 2.34               | 6.0        | 14.0     | 4-3V                | 496                       | 2.34               | 6.0        | 14.0     | 4-3V                |
| 729                       | 2.40               | 5.0        | 12.0     | 5-A                 | 483                       | 2.40               | 5.0        | 12.0     | 5-A                 |
| 700                       | 2.50               | 6.0        | 12.0     | 4-A                 | 464                       | 2.50               | 6.0        | 12.0     | 4-A                 |
| 681                       | 2.57               | 6.0        | 15.4     | 4-B                 | 451                       | 2.57               | 6.0        | 15.4     | 4-B                 |
| 658                       | 2.66               | 5.3        | 14.0     | 4-3V                | 436                       | 2.66               | 5.3        | 14.0     | 4-3V                |
| 636                       | 2.75               | 5.6        | 15.4     | 5-B                 | 422                       | 2.75               | 5.6        | 15.4     | 5-B                 |
| 608                       | 2.88               | 5.2        | 15.0     | 5-A                 | 403                       | 2.88               | 5.2        | 15.0     | 5-A                 |
| 589                       | 2.97               | 4.75       | 14.0     | 4-3V                | 391                       | 2.97               | 4.75       | 14.0     | 4-3A                |
| 570                       | 3.07               | 6.0        | 18.4     | 4-B                 | 378                       | 3.07               | 6.0        | 18.4     | 4-B                 |
| 545                       | 3.21               | 5.6        | 18.0     | 4-A                 | 361                       | 3.21               | 5.6        | 18.0     | 4-A                 |
| 532                       | 3.29               | 5.6        | 18.4     | 5-B                 | 353                       | 3.29               | 5.6        | 18.4     | 5-B                 |
| 506                       | 3.46               | 5.2        | 18.0     | 5-A                 | 335                       | 3.46               | 5.2        | 18.0     | 5-A                 |
| 485                       | 3.61               | 5.3        | 19.0     | 4-3V                | 321                       | 3.61               | 5.3        | 19.0     | 4-3V                |
| 473                       | 3.70               | 5.4        | 20.0     | 5-B                 | 314                       | 3.70               | 5.4        | 20.0     | 5-B                 |
| 448                       | 3.91               | 6.4        | 25.0     | 4-B                 | 297                       | 3.91               | 6.4        | 25.0     | 4-B                 |
| 434                       | 4.03               | 4.75       | 19.0     | 4-3V                | 288                       | 4.03               | 4.75       | 19.0     | 4-3V                |
| 420                       | 4.17               | 6.0        | 25.0     | 4-B                 | 278                       | 4.17               | 6.0        | 25.0     | 4-B                 |
| 392                       | 4.46               | 5.6        | 25.0     | 5-B                 | 260                       | 4.46               | 5.6        | 25.0     | 5-B                 |
| 368                       | 4.75               | 5.3        | 25.0     | 4-3V                | 244                       | 4.75               | 5.3        | 25.0     | 4-3V                |
| 350                       | 5.00               | 6.0        | 30.0     | 4-B                 | 232                       | 5.00               | 6.0        | 30.0     | 4-B                 |
| 330                       | 5.31               | 4.75       | 25.0     | 4-3V                | 218                       | 5.31               | 4.75       | 25.0     | 4-3V                |
| 311                       | 5.62               | 6.0        | 33.5     | 4-3V                | 206                       | 5.62               | 6.0        | 33.5     | 4-3V                |
| 295                       | 5.94               | 6.4        | 38.0     | 4-B                 | 195                       | 5.94               | 6.4        | 38.0     | 4-B                 |
| 275                       | 6.37               | 5.3        | 33.5     | 4-3V                | 182                       | 6.37               | 5.3        | 33.5     | 4-3V                |
| 258                       | 6.79               | 5.6        | 38.0     | 5-B                 | 171                       | 6.79               | 5.6        | 38.0     | 5-B                 |
| 246                       | 7.12               | 4.75       | 33.5     | 4-3V                | 163                       | 7.12               | 4.75       | 33.5     | 4-3V                |

\* Stock FLEXIDYNE sheaves listed on page PT3-16 - PT3-17.

\* Stock TAPER-LOCK sheaves in V-drives section.

★ Outside diameter of 3V DYNA-V sheaves. Datum diameter of A and B sheaves. All ratios are based on P.D. for DYNA-V Sheaves and Datum diameter for A and B Sheaves.

|                                 |                             |                         |                                      |
|---------------------------------|-----------------------------|-------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT3-2 | SPECIFICATION<br>PAGE PT3-3 | SELECTION<br>PAGE PT3-4 | ENGINEERING/TECHNICAL<br>PAGE PT3-26 |
|---------------------------------|-----------------------------|-------------------------|--------------------------------------|





## FLEXIDYNE

### V-Belt Drives For 11D, 11DL FLEXIDYNE Drives

These are typical drives for average service conditions

| Driven by 1750 RPM Motors |                    |            |          |                     | Driven by 1750 RPM Motors |                    |            |          |                     |
|---------------------------|--------------------|------------|----------|---------------------|---------------------------|--------------------|------------|----------|---------------------|
| Driven RPM                | V-Belt Drive Ratio | Diameter ★ |          | Quan. & Belt Size ◆ | Driven RPM                | V-Belt Drive Ratio | Diameter ★ |          | Quan. & Belt Size ◆ |
|                           |                    | Driver *   | Driven ▲ |                     |                           |                    | Driver *   | Driven ▲ |                     |
| 1750                      | 1.00               | 6.5        | 6.5      | 5-3V                | 1160                      | 1.00               | 6.5        | 6.5      | 5-3V                |
| 1750                      | 1.00               | 6.8        | 6.8      | 5-B                 | 1160                      | 1.00               | 6.8        | 6.8      | 5-B                 |
| 1699                      | 1.03               | 6.6        | 6.8      | 5-B                 | 1126                      | 1.03               | 6.6        | 6.8      | 5-B                 |
| 1651                      | 1.06               | 6.5        | 6.9      | 5-3V                | 1094                      | 1.06               | 6.5        | 6.9      | 5-3V                |
| 1636                      | 1.07               | 7.5        | 8.0      | 3-5V                | 1084                      | 1.07               | 7.5        | 8.0      | 3-5V                |
| 1606                      | 1.09               | 6.8        | 7.4      | 5-B                 | 1064                      | 1.09               | 6.8        | 7.4      | 5-B                 |
| 1563                      | 1.12               | 6.6        | 7.4      | 5-B                 | 1036                      | 1.12               | 6.6        | 7.4      | 5-B                 |
| 1535                      | 1.14               | 7.5        | 8.5      | 3-5V                | 1022                      | 1.14               | 7.5        | 8.5      | 3-5V                |
| 1509                      | 1.16               | 7.4        | 8.6      | 5-B                 | 1000                      | 1.16               | 7.4        | 8.6      | 5-B                 |
| 1509                      | 1.16               | 6.9        | 8.0      | 5-3V                | 1000                      | 1.16               | 6.9        | 8.0      | 5-3V                |
| 1458                      | 1.20               | 7.5        | 9.0      | 3-5V                | 967                       | 1.20               | 7.5        | 9.0      | 3-5V                |
| 1423                      | 1.23               | 6.5        | 8.0      | 5-3V                | 943                       | 1.23               | 6.5        | 8.0      | 5-3V                |
| 1411                      | 1.24               | 7.5        | 9.25     | 3-5V                | 935                       | 1.24               | 7.5        | 9.25     | 3-5V                |
| 1389                      | 1.26               | 6.8        | 8.6      | 5-B                 | 921                       | 1.26               | 6.8        | 8.6      | 5-B                 |
| 1378                      | 1.27               | 7.4        | 9.4      | 5-B                 | 913                       | 1.27               | 7.4        | 9.4      | 5-B                 |
| 1367                      | 1.28               | 8.6        | 11.0     | 5-B                 | 906                       | 1.28               | 8.6        | 11.0     | 5-B                 |
| 1346                      | 1.30               | 7.5        | 9.75     | 3-5V                | 892                       | 1.30               | 7.5        | 9.75     | 3-5V                |
| 1346                      | 1.30               | 6.6        | 8.6      | 5-B                 | 892                       | 1.30               | 6.6        | 8.6      | 5-B                 |
| 1268                      | 1.38               | 7.5        | 10.3     | 3-5V                | 841                       | 1.38               | 7.5        | 10.3     | 3-5V                |
| 1268                      | 1.38               | 6.8        | 9.4      | 5-B                 | 841                       | 1.38               | 6.8        | 9.4      | 5-B                 |
| 1232                      | 1.42               | 6.6        | 9.4      | 5-B                 | 817                       | 1.42               | 6.6        | 9.4      | 5-B                 |
| 1215                      | 1.44               | 8.6        | 12.4     | 5-B                 | 806                       | 1.44               | 8.6        | 12.4     | 5-B                 |
| 1199                      | 1.46               | 7.5        | 10.9     | 3-5V                | 795                       | 1.46               | 7.5        | 10.9     | 3-5V                |
| 1174                      | 1.49               | 7.4        | 11.0     | 5-B                 | 779                       | 1.49               | 7.4        | 11.0     | 5-B                 |
| 1136                      | 1.54               | 6.9        | 10.6     | 5-3V                | 753                       | 1.54               | 6.9        | 10.6     | 5-3V                |
| 1108                      | 1.58               | 7.5        | 11.8     | 3-5V                | 734                       | 1.58               | 7.5        | 11.8     | 3-5V                |
| 1080                      | 1.62               | 6.8        | 11.0     | 5-B                 | 716                       | 1.62               | 6.8        | 11.0     | 5-B                 |
| 1067                      | 1.64               | 6.5        | 10.6     | 5-3V                | 707                       | 1.64               | 6.5        | 10.6     | 5-3V                |
| 1048                      | 1.67               | 6.6        | 11.0     | 5-B                 | 695                       | 1.67               | 6.6        | 11.0     | 5-B                 |
| 1042                      | 1.68               | 7.5        | 12.5     | 3-5V                | 690                       | 1.68               | 7.5        | 12.5     | 3-5V                |
| 1042                      | 1.68               | 7.4        | 12.4     | 5-B                 | 690                       | 1.68               | 7.4        | 12.4     | 5-B                 |
| 989                       | 1.77               | 7.5        | 13.2     | 3-5V                | 655                       | 1.77               | 7.5        | 13.2     | 3-5V                |
| 978                       | 1.79               | 8.6        | 15.4     | 5-B                 | 648                       | 1.79               | 8.6        | 15.4     | 5-B                 |
| 962                       | 1.82               | 6.8        | 12.4     | 5-B                 | 637                       | 1.82               | 6.8        | 12.4     | 5-B                 |
| 931                       | 1.88               | 7.5        | 14.0     | 3-5V                | 617                       | 1.88               | 7.5        | 14.0     | 3-5V                |
| 931                       | 1.88               | 6.6        | 12.4     | 5-B                 | 617                       | 1.88               | 6.6        | 12.4     | 5-B                 |
| 871                       | 2.01               | 7.5        | 15.0     | 3-5V                | 577                       | 2.01               | 7.5        | 15.0     | 3-5V                |
| 858                       | 2.04               | 6.9        | 14.0     | 5-3V                | 569                       | 2.04               | 6.9        | 14.0     | 5-3V                |
| 841                       | 2.08               | 7.4        | 15.4     | 5-B                 | 558                       | 2.08               | 7.4        | 15.4     | 5-B                 |
| 818                       | 2.14               | 8.6        | 18.4     | 5-B                 | 542                       | 2.14               | 8.6        | 18.4     | 5-B                 |
| 814                       | 2.15               | 7.5        | 16.0     | 3-5V                | 540                       | 2.15               | 7.5        | 16.0     | 3-5V                |
| 810                       | 2.16               | 6.5        | 14.0     | 5-3V                | 537                       | 2.16               | 6.5        | 14.0     | 5-3V                |
| 774                       | 2.26               | 6.8        | 15.4     | 5-B                 | 513                       | 2.26               | 6.8        | 15.4     | 5-B                 |
| 751                       | 2.33               | 6.6        | 15.4     | 5-B                 | 498                       | 2.33               | 6.6        | 15.4     | 5-B                 |
| 703                       | 2.49               | 7.4        | 18.4     | 5-B                 | 466                       | 2.49               | 7.4        | 18.4     | 5-B                 |
| 646                       | 2.71               | 6.8        | 18.4     | 5-B                 | 428                       | 2.71               | 6.8        | 18.4     | 5-B                 |
| 632                       | 2.77               | 6.9        | 19.0     | 5-3V                | 419                       | 2.77               | 6.9        | 19.0     | 5-3V                |
| 627                       | 2.79               | 6.6        | 18.4     | 5-B                 | 416                       | 2.79               | 6.6        | 18.4     | 5-B                 |
| 614                       | 2.85               | 7.5        | 21.2     | 3-5V                | 407                       | 2.85               | 7.5        | 21.2     | 3-5V                |
| 601                       | 2.91               | 8.6        | 25.0     | 5-B                 | 399                       | 2.91               | 8.6        | 25.0     | 5-B                 |
| 595                       | 2.94               | 6.5        | 19.0     | 5-3V                | 395                       | 2.94               | 6.5        | 19.0     | 5-3V                |
| 578                       | 3.03               | 6.6        | 20.0     | 5-B                 | 383                       | 3.03               | 6.6        | 20.0     | 5-B                 |
| 518                       | 3.38               | 7.4        | 25.0     | 5-B                 | 343                       | 3.38               | 7.4        | 25.0     | 5-B                 |
| 501                       | 3.49               | 8.6        | 30.0     | 5-B                 | 332                       | 3.49               | 8.6        | 30.0     | 5-B                 |
| 481                       | 3.64               | 6.9        | 25.0     | 5-3V                | 319                       | 3.64               | 6.9        | 25.0     | 5-3V                |
| 476                       | 3.68               | 6.8        | 25.0     | 5-B                 | 315                       | 3.68               | 6.8        | 25.0     | 5-B                 |
| 464                       | 3.77               | 7.5        | 28.0     | 3-5V                | 308                       | 3.77               | 7.5        | 28.0     | 3-5V                |
| 462                       | 3.79               | 6.6        | 25.0     | 5-B                 | 306                       | 3.79               | 6.6        | 25.0     | 5-B                 |
| 452                       | 3.87               | 6.5        | 25.0     | 5-3V                | 300                       | 3.87               | 6.5        | 25.0     | 5-3V                |
| 432                       | 4.05               | 7.4        | 30.0     | 5-B                 | 286                       | 4.05               | 7.4        | 30.0     | 5-B                 |
| 397                       | 4.41               | 6.8        | 30.0     | 5-B                 | 263                       | 4.41               | 6.8        | 30.0     | 5-B                 |
| 385                       | 4.55               | 6.6        | 30.0     | 5-B                 | 255                       | 4.55               | 6.6        | 30.0     | 5-B                 |
| 359                       | 4.88               | 6.9        | 33.5     | 5-3V                | 238                       | 4.88               | 6.9        | 33.5     | 5-3V                |
| 347                       | 5.05               | 7.5        | 37.5     | 3-5V                | 230                       | 5.05               | 7.5        | 37.5     | 3-5V                |
| 340                       | 5.14               | 7.4        | 38.0     | 5-B                 | 226                       | 5.14               | 7.4        | 38.0     | 5-B                 |
| 337                       | 5.19               | 6.5        | 33.5     | 5-3V                | 224                       | 5.19               | 6.5        | 33.5     | 5-3V                |
| 313                       | 5.59               | 6.8        | 38.0     | 5-B                 | 208                       | 5.59               | 6.8        | 38.0     | 5-B                 |
| 304                       | 5.76               | 6.6        | 38.0     | 5-B                 | 201                       | 5.76               | 6.6        | 38.0     | 5-B                 |

\* Stock FLEXIDYNE sheaves listed on page PT3-16 - PT3-17.

★ Outside diameter of 3V DYNA-V sheaves. Datum diameter of A and B sheaves. All ratios are based on P.D. for DYNA-V Sheaves and Datum diameter for A and B Sheaves.

\* Stock TAPER-LOCK sheaves in V-drives section.

|                                 |                             |                         |                                      |
|---------------------------------|-----------------------------|-------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT3-2 | SPECIFICATION<br>PAGE PT3-3 | SELECTION<br>PAGE PT3-4 | ENGINEERING/TECHNICAL<br>PAGE PT3-26 |
|---------------------------------|-----------------------------|-------------------------|--------------------------------------|



## FLEXIDYNE

### V-Belt Drives For 15D FLEXIDYNE Drives

These are typical drives for average service conditions

| Driven by 1750 RPM Motors |                    |            |          |                     | Driven by 1750 RPM Motors |                    |            |          |                     |
|---------------------------|--------------------|------------|----------|---------------------|---------------------------|--------------------|------------|----------|---------------------|
| Driven RPM                | V-Belt Drive Ratio | Diameter ★ |          | Quan. & Belt Size ◆ | Driven RPM                | V-Belt Drive Ratio | Diameter ★ |          | Quan. & Belt Size ◆ |
|                           |                    | Driver *   | Driven ▲ |                     |                           |                    | Driver *   | Driven ▲ |                     |
| 1750                      | 1.00               | 9.75       | 9.75     | 4-5V                | 1160                      | 1.00               | 9.75       | 9.75     | 4-5V                |
| 1699                      | 1.03               | 9.0        | 9.25     | 5-5V                | 1126                      | 1.03               | 9.0        | 9.25     | 5-5V                |
| 1663                      | 1.05               | 9.5        | 10.0     | 6-C                 | 1102                      | 1.05               | 9.5        | 10.0     | 6-C                 |
| 1651                      | 1.06               | 9.75       | 10.3     | 4-5V                | 1094                      | 1.06               | 9.75       | 10.3     | 4-5V                |
| 1620                      | 1.08               | 9.0        | 9.75     | 5-5V                | 1074                      | 1.08               | 9.0        | 9.75     | 5-5V                |
| 1606                      | 1.09               | 8.5        | 9.25     | 5-5V                | 1064                      | 1.09               | 8.5        | 9.25     | 5-5V                |
| 1591                      | 1.10               | 10.0       | 11.0     | 6-C                 | 1055                      | 1.10               | 10.0       | 11.0     | 6-C                 |
| 1575                      | 1.11               | 9.0        | 10.0     | 6-C                 | 1044                      | 1.11               | 9.0        | 10.0     | 6-C                 |
| 1563                      | 1.12               | 9.75       | 10.9     | 4-5V                | 1036                      | 1.12               | 9.75       | 10.9     | 4-5V                |
| 1531                      | 1.14               | 10.5       | 12.0     | 5-C                 | 1015                      | 1.14               | 10.5       | 12.0     | 5-C                 |
| 1522                      | 1.15               | 8.5        | 9.75     | 5-5V                | 1009                      | 1.15               | 8.5        | 9.75     | 5-5V                |
| 1496                      | 1.17               | 9.0        | 10.5     | 6-C                 | 994                       | 1.17               | 9.0        | 10.5     | 6-C                 |
| 1458                      | 1.20               | 10.0       | 12.0     | 6-C                 | 966                       | 1.20               | 10.0       | 12.0     | 6-C                 |
| 1446                      | 1.21               | 9.75       | 11.8     | 4-5V                | 959                       | 1.21               | 9.75       | 11.8     | 4-5V                |
| 1432                      | 1.22               | 9.0        | 11.0     | 6-C                 | 949                       | 1.22               | 9.0        | 11.0     | 6-C                 |
| 1413                      | 1.24               | 10.5       | 13.0     | 5-C                 | 937                       | 1.24               | 10.5       | 13.0     | 5-C                 |
| 1385                      | 1.26               | 9.5        | 12.0     | 6-C                 | 918                       | 1.26               | 9.5        | 12.0     | 6-C                 |
| 1367                      | 1.28               | 9.75       | 12.5     | 4-3V                | 906                       | 1.28               | 9.75       | 12.5     | 4-3V                |
| 1357                      | 1.29               | 8.5        | 10.9     | 5-5V                | 899                       | 1.29               | 8.5        | 10.9     | 5-5V                |
| 1346                      | 1.30               | 10.0       | 13.0     | 6-C                 | 892                       | 1.30               | 10.0       | 13.0     | 6-C                 |
| 1336                      | 1.31               | 9.0        | 11.8     | 5-5V                | 885                       | 1.31               | 9.0        | 11.8     | 5-5V                |
| 1313                      | 1.33               | 10.5       | 14.0     | 5-C                 | 870                       | 1.33               | 10.5       | 14.0     | 5-C                 |
| 1287                      | 1.36               | 9.75       | 13.2     | 4-5V                | 853                       | 1.36               | 9.75       | 13.2     | 4-5V                |
| 1279                      | 1.37               | 9.5        | 13.0     | 6-C                 | 848                       | 1.37               | 9.5        | 13.0     | 6-C                 |
| 1259                      | 1.39               | 8.5        | 11.8     | 5-5V                | 835                       | 1.39               | 8.5        | 11.8     | 5-5V                |
| 1250                      | 1.40               | 10.0       | 14.0     | 6-C                 | 829                       | 1.40               | 10.0       | 14.0     | 6-C                 |
| 1215                      | 1.44               | 9.75       | 14.0     | 4-5V                | 806                       | 1.44               | 9.75       | 14.0     | 4-5V                |
| 1190                      | 1.47               | 9.0        | 13.2     | 5-5V                | 789                       | 1.47               | 9.0        | 13.2     | 5-5V                |
| 1182                      | 1.48               | 8.5        | 12.5     | 5-5V                | 784                       | 1.48               | 8.5        | 12.5     | 5-5V                |
| 1148                      | 1.52               | 10.5       | 16.0     | 5-C                 | 761                       | 1.52               | 10.5       | 16.0     | 5-C                 |
| 1136                      | 1.54               | 9.75       | 15.0     | 4-5V                | 753                       | 1.54               | 9.75       | 15.0     | 4-5V                |
| 1122                      | 1.56               | 8.5        | 13.2     | 5-5V                | 744                       | 1.56               | 8.5        | 13.2     | 5-5V                |
| 1094                      | 1.60               | 10.0       | 16.0     | 6-C                 | 725                       | 1.60               | 10.0       | 16.0     | 6-C                 |
| 1061                      | 1.65               | 9.75       | 16.0     | 4-5V                | 703                       | 1.65               | 9.75       | 16.0     | 4-5V                |
| 1048                      | 1.67               | 9.0        | 15.0     | 5-5V                | 695                       | 1.67               | 9.0        | 15.0     | 5-5V                |
| 1039                      | 1.68               | 9.5        | 16.0     | 6-C                 | 689                       | 1.68               | 9.5        | 16.0     | 6-C                 |
| 989                       | 1.77               | 8.5        | 15.0     | 5-5V                | 655                       | 1.77               | 8.5        | 15.0     | 5-5V                |
| 978                       | 1.79               | 9.0        | 16.0     | 5-5V                | 648                       | 1.79               | 9.0        | 16.0     | 5-5V                |
| 926                       | 1.89               | 8.5        | 16.0     | 5-5V                | 614                       | 1.89               | 8.5        | 16.0     | 5-5V                |
| 919                       | 1.91               | 10.5       | 20.0     | 5-C                 | 609                       | 1.91               | 10.5       | 20.0     | 5-C                 |
| 875                       | 2.00               | 10.0       | 20.0     | 6-C                 | 580                       | 2.00               | 10.0       | 20.0     | 6-C                 |
| 831                       | 2.10               | 9.5        | 20.0     | 6-C                 | 551                       | 2.10               | 9.5        | 20.0     | 6-C                 |
| 799                       | 2.19               | 9.75       | 21.2     | 4-5V                | 530                       | 2.19               | 9.75       | 21.2     | 4-5V                |
| 788                       | 2.22               | 9.0        | 20.0     | 6-C                 | 522                       | 2.22               | 9.0        | 20.0     | 6-C                 |
| 766                       | 2.28               | 10.5       | 24.0     | 5-C                 | 508                       | 2.28               | 10.5       | 24.0     | 5-C                 |
| 738                       | 2.37               | 9.0        | 21.2     | 5-5V                | 489                       | 2.37               | 9.0        | 21.2     | 5-5V                |
| 729                       | 2.40               | 10.0       | 24.0     | 6-C                 | 483                       | 2.40               | 10.0       | 24.0     | 6-C                 |
| 697                       | 2.51               | 8.5        | 21.2     | 5-5V                | 462                       | 2.51               | 8.5        | 21.2     | 5-5V                |
| 656                       | 2.67               | 9.0        | 24.0     | 6-C                 | 435                       | 2.67               | 9.0        | 24.0     | 6-C                 |
| 612                       | 2.86               | 10.5       | 30.0     | 5-C                 | 406                       | 2.86               | 10.5       | 30.0     | 5-C                 |
| 606                       | 2.89               | 9.75       | 28.0     | 4-5V                | 401                       | 2.89               | 9.75       | 28.0     | 4-5V                |
| 583                       | 3.00               | 10.0       | 30.0     | 6-C                 | 386                       | 3.00               | 10.0       | 30.0     | 6-C                 |
| 559                       | 3.13               | 9.0        | 28.0     | 5-5V                | 371                       | 3.13               | 9.0        | 28.0     | 5-5V                |
| 527                       | 3.32               | 8.5        | 28.0     | 5-5V                | 349                       | 3.32               | 8.5        | 28.0     | 5-5V                |
| 510                       | 3.43               | 10.5       | 36.0     | 5-C                 | 338                       | 3.43               | 10.5       | 36.0     | 5-C                 |
| 486                       | 3.60               | 10.0       | 36.0     | 6-C                 | 322                       | 3.60               | 10.0       | 36.0     | 6-C                 |
| 462                       | 3.79               | 9.5        | 36.0     | 6-C                 | 306                       | 3.79               | 9.5        | 36.0     | 6-C                 |
| 451                       | 3.88               | 9.75       | 37.5     | 4-5V                | 299                       | 3.88               | 9.75       | 37.5     | 4-5V                |
| 438                       | 4.00               | 9.0        | 36.0     | 6-C                 | 290                       | 4.00               | 9.0        | 36.0     | 6-C                 |
| 417                       | 4.20               | 9.0        | 37.5     | 5-5V                | 276                       | 4.20               | 9.0        | 37.5     | 5-5V                |
| 393                       | 4.45               | 8.5        | 37.5     | 5-5V                | 261                       | 4.45               | 8.5        | 37.5     | 5-5V                |
| 378                       | 4.64               | 9.5        | 44.0     | 6-C                 | 251                       | 4.64               | 9.5        | 44.0     | 6-C                 |
| 368                       | 4.76               | 10.5       | 50.0     | 5-C                 | 244                       | 4.76               | 10.5       | 50.0     | 5-C                 |
| 358                       | 4.89               | 9.0        | 44.0     | 6-C                 | 237                       | 4.89               | 9.0        | 44.0     | 6-C                 |
| 350                       | 5.00               | 10.0       | 50.0     | 6-C                 | 232                       | 5.00               | 10.0       | 50.0     | 6-C                 |
| 338                       | 5.17               | 9.75       | 50.0     | 4-5V                | 224                       | 5.17               | 9.75       | 50.0     | 4-5V                |
| 312                       | 5.61               | 9.0        | 50.0     | 5-5V                | 207                       | 5.61               | 9.0        | 50.0     | 5-5V                |
| 295                       | 5.94               | 8.5        | 50.0     | 5-5V                | 195                       | 5.94               | 8.5        | 50.0     | 5-5V                |

\* Stock FLEXIDYNE sheaves listed on page PT3-16 - PT3-17.

\* Stock TAPER-LOCK sheaves in V-drives section.

★ Outside diameter of 3V DYNA-V sheaves. Datum diameter of A and B sheaves. All ratios are based on P.D. for DYNA-V Sheaves and Datum diameter for A and B Sheaves.

|                                 |                             |                         |                                      |
|---------------------------------|-----------------------------|-------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT3-2 | SPECIFICATION<br>PAGE PT3-3 | SELECTION<br>PAGE PT3-4 | ENGINEERING/TECHNICAL<br>PAGE PT3-26 |
|---------------------------------|-----------------------------|-------------------------|--------------------------------------|



## FLEXIDYNE

### SCF FLEXIDYNE Mechanism Used In A C-Flex Module

#### Maximum Allowable Acceleration Time (seconds)

| Frequency of Starts | RPM  | Starting Horsepower* |      |      |      |      |      |      |
|---------------------|------|----------------------|------|------|------|------|------|------|
|                     |      | 0.50                 | 1.00 | 1.50 | 2.00 | 2.50 | 3.00 | 3.60 |
| 2 Hours             | 1750 | 140                  | 90   | 70   | 56   | 50   | 44   | 37   |
| 1 Hour              | 1750 | 140                  | 90   | 70   | 56   | 50   | 44   | 37   |
| 30 Min.             | 1750 | 140                  | 90   | 70   | 56   | 50   | 44   | 37   |
| 15 Min.             | 1750 | 140                  | 90   | 70   | 56   | 50   | 44   | 37   |
| 10 Min.             | 1750 | 125                  | 80   | 60   | 48   | 42   | 39   | 32   |
| 5 Min.              | 1750 | 74                   | 46   | 46   | 29   | 26   | 23   | 20   |
| 2 Min.              | 1750 | 30                   | 19   | 15   | 12   | 10   | 8    | 5    |
| 1 Min.              | 1750 | 15                   | 10   | 5    | 3    | ...  | ...  | ...  |

Table may be interpolated for HP and cycle times between those figures listed.

### Thermal Capacities

#### FLEXIDYNE Mechanism Size 5

#### Maximum Allowable Acceleration Time (seconds)

| Frequency of Starts | RPM  | Starting Horsepower* |      |      |      |      |      |
|---------------------|------|----------------------|------|------|------|------|------|
|                     |      | 0.30                 | 0.50 | 0.70 | 0.90 | 1.10 | 1.30 |
| 2 Hours             | 1750 | 330                  | 220  | 170  | 128  | 116  | 104  |
|                     | 1160 | ...                  | ...  | ...  | ...  | ...  | ...  |
|                     | 870  | ...                  | ...  | ...  | ...  | ...  | ...  |
| 1 Hour              | 1750 | 330                  | 220  | 170  | 128  | 116  | 104  |
|                     | 1160 | ...                  | ...  | ...  | ...  | ...  | ...  |
|                     | 870  | ...                  | ...  | ...  | ...  | ...  | ...  |
| 30 Min.             | 1750 | 330                  | 220  | 170  | 128  | 116  | 104  |
|                     | 1160 | ...                  | ...  | ...  | ...  | ...  | ...  |
|                     | 870  | ...                  | ...  | ...  | ...  | ...  | ...  |
| 15 Min.             | 1750 | 330                  | 220  | 170  | 128  | 116  | 104  |
|                     | 1160 | ...                  | ...  | ...  | ...  | ...  | ...  |
|                     | 870  | ...                  | ...  | ...  | ...  | ...  | ...  |
| 10 Min.             | 1750 | 300                  | 200  | 150  | 116  | 105  | 94   |
|                     | 1160 | ...                  | ...  | ...  | ...  | ...  | ...  |
|                     | 870  | ...                  | ...  | ...  | ...  | ...  | ...  |
| 5 Min.              | 1750 | 170                  | 116  | 88   | 68   | 62   | 55   |
|                     | 1160 | ...                  | ...  | ...  | ...  | ...  | ...  |
|                     | 870  | ...                  | ...  | ...  | ...  | ...  | ...  |
| 2 Min.              | 1750 | 70                   | 47   | 35   | 27   | 25   | 22   |
|                     | 1160 | ...                  | ...  | ...  | ...  | ...  | ...  |
|                     | 870  | ...                  | ...  | ...  | ...  | ...  | ...  |
| 1 Min.              | 1750 | 35                   | 23   | 18   | 14   | 12   | 11   |
|                     | 1160 | ...                  | ...  | ...  | ...  | ...  | ...  |
|                     | 870  | ...                  | ...  | ...  | ...  | ...  | ...  |

Table may be interpolated for HP and cycle times between those figures listed.

\* Starting HP is dependent on the amount of flow charge used.

|                                 |                             |                         |                                    |
|---------------------------------|-----------------------------|-------------------------|------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT3-2 | SPECIFICATION<br>PAGE PT3-3 | SELECTION<br>PAGE PT3-4 | SELECTION/DIMENSIONS<br>PAGE PT3-8 |
|---------------------------------|-----------------------------|-------------------------|------------------------------------|



## FLEXIDYNE

### FLEXIDYNE Mechanism Size 55 Maximum Allowable Acceleration Time (seconds)

| Frequency of Starts | RPM  | Starting Horsepower* |      |      |      |      |      |      |      |      |
|---------------------|------|----------------------|------|------|------|------|------|------|------|------|
|                     |      | 0.50                 | 0.75 | 1.00 | 1.50 | 2.00 | 2.50 | 3.00 | 3.50 | 4.00 |
| 2 Hours             | 1750 | ....                 | .... | 125  | 92   | 76   | 67   | 60   | 55   | 50   |
|                     | 1160 | 250                  | 175  | 148  | 110  | .... | .... | .... | .... | .... |
|                     | 870  | ....                 | .... | .... | .... | .... | .... | .... | .... | .... |
| 1 Hour              | 1750 | ....                 | .... | 125  | 92   | 76   | 67   | 60   | 55   | 50   |
|                     | 1160 | 250                  | 175  | 148  | 110  | .... | .... | .... | .... | .... |
|                     | 870  | ....                 | .... | .... | .... | .... | .... | .... | .... | .... |
| 30 Min.             | 1750 | ....                 | .... | 125  | 92   | 76   | 67   | 60   | 55   | 50   |
|                     | 1160 | 250                  | 175  | 148  | 110  | .... | .... | .... | .... | .... |
|                     | 870  | ....                 | .... | .... | .... | .... | .... | .... | .... | .... |
| 15 Min.             | 1750 | ....                 | .... | 125  | 92   | 76   | 67   | 60   | 55   | 50   |
|                     | 1160 | 250                  | 175  | 148  | 110  | .... | .... | .... | .... | .... |
|                     | 870  | ....                 | .... | .... | .... | .... | .... | .... | .... | .... |
| 10 Min.             | 1750 | ....                 | .... | 96   | 67   | 60   | 52   | 47   | 43   | 40   |
|                     | 1160 | 190                  | 130  | 110  | 82   | .... | .... | .... | .... | .... |
|                     | 870  | ....                 | .... | .... | .... | .... | .... | .... | .... | .... |
| 5 Min.              | 1750 | ....                 | .... | 58   | 41   | 37   | 32   | 29   | 25   | 20   |
|                     | 1160 | 110                  | 80   | 68   | 50   | .... | .... | .... | .... | .... |
|                     | 870  | ....                 | .... | .... | .... | .... | .... | .... | .... | .... |
| 2 Min.              | 1750 | ....                 | .... | 30   | 23   | 20   | 17   | 15   | 13   | 10   |
|                     | 1160 | 60                   | 40   | 35   | 28   | .... | .... | .... | .... | .... |
|                     | 870  | ....                 | .... | .... | .... | .... | .... | .... | .... | .... |
| 1 Min.              | 1750 | ....                 | .... | 19   | 15   | 13   | 11   | 9    | 8    | 6    |
|                     | 1160 | 33                   | 26   | 22   | 18   | .... | .... | .... | .... | .... |
|                     | 870  | ....                 | .... | .... | .... | .... | .... | .... | .... | .... |

### FLEXIDYNE Mechanism Size 70 Maximum Allowable Acceleration Time (seconds)

| Frequency of Starts | RPM  | Starting Horsepower* |      |      |      |      |      |      |      |      |       |
|---------------------|------|----------------------|------|------|------|------|------|------|------|------|-------|
|                     |      | 0.50                 | 0.75 | 1.00 | 2.00 | 2.50 | 3.00 | 4.00 | 6.00 | 8.00 | 10.00 |
| 2 Hours             | 1750 | ....                 | .... | .... | 210  | 180  | 150  | 110  | 80   | 63   | 53    |
|                     | 1160 | ....                 | .... | 500  | 260  | 190  | 170  | 130  | .... | .... | ....  |
|                     | 870  | 900                  | 800  | 550  | .... | .... | .... | .... | .... | .... | ....  |
| 1 Hour              | 1750 | ....                 | .... | .... | 210  | 180  | 150  | 110  | 80   | 63   | 53    |
|                     | 1160 | ....                 | .... | 500  | 260  | 190  | 170  | 130  | .... | .... | ....  |
|                     | 870  | 900                  | 800  | 550  | .... | .... | .... | .... | .... | .... | ....  |
| 30 Min.             | 1750 | ....                 | .... | .... | 210  | 180  | 150  | 110  | 80   | 63   | 53    |
|                     | 1160 | ....                 | .... | 500  | 260  | 190  | 170  | 130  | .... | .... | ....  |
|                     | 870  | 900                  | 800  | 550  | .... | .... | .... | .... | .... | .... | ....  |
| 15 Min.             | 1750 | ....                 | .... | .... | 190  | 160  | 140  | 100  | 72   | 56   | 46    |
|                     | 1160 | ....                 | .... | 450  | 230  | 165  | 155  | 118  | .... | .... | ....  |
|                     | 870  | 800                  | 700  | 500  | .... | .... | .... | .... | .... | .... | ....  |
| 10 Min.             | 1750 | ....                 | .... | .... | 170  | 140  | 120  | 83   | 60   | 41   | 36    |
|                     | 1160 | ....                 | .... | 320  | 190  | 143  | 133  | 90   | .... | .... | ....  |
|                     | 870  | 500                  | 400  | 330  | .... | .... | .... | .... | .... | .... | ....  |
| 5 Min.              | 1750 | ....                 | .... | .... | 105  | 85   | 74   | 54   | 38   | 29   | 23    |
|                     | 1160 | ....                 | .... | 200  | 120  | 88   | 80   | 60   | .... | .... | ....  |
|                     | 870  | 250                  | 230  | 210  | .... | .... | .... | .... | .... | .... | ....  |
| 2 Min.              | 1750 | ....                 | .... | .... | 58   | 45   | 39   | 30   | 21   | 16   | 13    |
|                     | 1160 | ....                 | .... | 80   | 60   | 49   | 45   | 36   | .... | .... | ....  |
|                     | 870  | 100                  | 100  | 100  | .... | .... | .... | .... | .... | .... | ....  |
| 1 Min.              | 1750 | ....                 | .... | .... | 36   | 29   | 25   | 19   | 13   | 10   | 8     |
|                     | 1160 | ....                 | .... | 45   | 38   | 33   | 28   | 23   | .... | .... | ....  |
|                     | 870  | 50                   | 50   | 50   | .... | .... | .... | .... | .... | .... | ....  |

Table may be interpolated for HP and cycle times between those figures listed.

\* Starting HP is dependent on the amount of flow charge used

|                                 |                             |                         |                                    |
|---------------------------------|-----------------------------|-------------------------|------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT3-2 | SPECIFICATION<br>PAGE PT3-3 | SELECTION<br>PAGE PT3-4 | SELECTION/DIMENSIONS<br>PAGE PT3-8 |
|---------------------------------|-----------------------------|-------------------------|------------------------------------|



## FLEXIDYNE

### SCF FLEXIDYNE Mechanism Used In A C-Flex Module

#### Maximum Allowable Acceleration Time (seconds)

| Frequency of Starts | RPM  | Starting Horsepower* |      |      |      |      |      |      |
|---------------------|------|----------------------|------|------|------|------|------|------|
|                     |      | 0.50                 | 1.00 | 1.50 | 2.00 | 2.50 | 3.00 | 3.60 |
| 2 Hours             | 1750 | 140                  | 90   | 70   | 56   | 50   | 44   | 37   |
| 1 Hour              | 1750 | 140                  | 90   | 70   | 56   | 50   | 44   | 37   |
| 30 Min.             | 1750 | 140                  | 90   | 70   | 56   | 50   | 44   | 37   |
| 15 Min.             | 1750 | 140                  | 90   | 70   | 56   | 50   | 44   | 37   |
| 10 Min.             | 1750 | 125                  | 80   | 60   | 48   | 42   | 39   | 32   |
| 5 Min.              | 1750 | 74                   | 46   | 46   | 29   | 26   | 23   | 20   |
| 2 Min.              | 1750 | 30                   | 19   | 15   | 12   | 10   | 8    | 5    |
| 1 Min.              | 1750 | 15                   | 10   | 5    | 3    | ...  | ...  | ...  |

Table may be interpolated for HP and cycle times between those figures listed.

### Thermal Capacities

#### FLEXIDYNE Mechanism Size 5

#### Maximum Allowable Acceleration Time (seconds)

| Frequency of Starts | RPM  | Starting Horsepower* |      |      |      |      |      |
|---------------------|------|----------------------|------|------|------|------|------|
|                     |      | 0.30                 | 0.50 | 0.70 | 0.90 | 1.10 | 1.30 |
| 2 Hours             | 1750 | 330                  | 220  | 170  | 128  | 116  | 104  |
|                     | 1160 | ...                  | ...  | ...  | ...  | ...  | ...  |
|                     | 870  | ...                  | ...  | ...  | ...  | ...  | ...  |
| 1 Hour              | 1750 | 330                  | 220  | 170  | 128  | 116  | 104  |
|                     | 1160 | ...                  | ...  | ...  | ...  | ...  | ...  |
|                     | 870  | ...                  | ...  | ...  | ...  | ...  | ...  |
| 30 Min.             | 1750 | 330                  | 220  | 170  | 128  | 116  | 104  |
|                     | 1160 | ...                  | ...  | ...  | ...  | ...  | ...  |
|                     | 870  | ...                  | ...  | ...  | ...  | ...  | ...  |
| 15 Min.             | 1750 | 330                  | 220  | 170  | 128  | 116  | 104  |
|                     | 1160 | ...                  | ...  | ...  | ...  | ...  | ...  |
|                     | 870  | ...                  | ...  | ...  | ...  | ...  | ...  |
| 10 Min.             | 1750 | 300                  | 200  | 150  | 116  | 105  | 94   |
|                     | 1160 | ...                  | ...  | ...  | ...  | ...  | ...  |
|                     | 870  | ...                  | ...  | ...  | ...  | ...  | ...  |
| 5 Min.              | 1750 | 170                  | 116  | 88   | 68   | 62   | 55   |
|                     | 1160 | ...                  | ...  | ...  | ...  | ...  | ...  |
|                     | 870  | ...                  | ...  | ...  | ...  | ...  | ...  |
| 2 Min.              | 1750 | 70                   | 47   | 35   | 27   | 25   | 22   |
|                     | 1160 | ...                  | ...  | ...  | ...  | ...  | ...  |
|                     | 870  | ...                  | ...  | ...  | ...  | ...  | ...  |
| 1 Min.              | 1750 | 35                   | 23   | 18   | 14   | 12   | 11   |
|                     | 1160 | ...                  | ...  | ...  | ...  | ...  | ...  |
|                     | 870  | ...                  | ...  | ...  | ...  | ...  | ...  |

Table may be interpolated for HP and cycle times between those figures listed.

\* Starting HP is dependent on the amount of flow charge used.

|                                 |                             |                         |                                    |
|---------------------------------|-----------------------------|-------------------------|------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT3-2 | SPECIFICATION<br>PAGE PT3-3 | SELECTION<br>PAGE PT3-4 | SELECTION/DIMENSIONS<br>PAGE PT3-8 |
|---------------------------------|-----------------------------|-------------------------|------------------------------------|



## FLEXIDYNE

### FLEXIDYNE Mechanism Size 55 Maximum Allowable Acceleration Time (seconds)

| Frequency of Starts | RPM  | Starting Horsepower* |      |      |      |      |      |      |      |      |
|---------------------|------|----------------------|------|------|------|------|------|------|------|------|
|                     |      | 0.50                 | 0.75 | 1.00 | 1.50 | 2.00 | 2.50 | 3.00 | 3.50 | 4.00 |
| 2 Hours             | 1750 | ....                 | .... | 125  | 92   | 76   | 67   | 60   | 55   | 50   |
|                     | 1160 | 250                  | 175  | 148  | 110  | .... | .... | .... | .... | .... |
|                     | 870  | ....                 | .... | .... | .... | .... | .... | .... | .... | .... |
| 1 Hour              | 1750 | ....                 | .... | 125  | 92   | 76   | 67   | 60   | 55   | 50   |
|                     | 1160 | 250                  | 175  | 148  | 110  | .... | .... | .... | .... | .... |
|                     | 870  | ....                 | .... | .... | .... | .... | .... | .... | .... | .... |
| 30 Min.             | 1750 | ....                 | .... | 125  | 92   | 76   | 67   | 60   | 55   | 50   |
|                     | 1160 | 250                  | 175  | 148  | 110  | .... | .... | .... | .... | .... |
|                     | 870  | ....                 | .... | .... | .... | .... | .... | .... | .... | .... |
| 15 Min.             | 1750 | ....                 | .... | 125  | 92   | 76   | 67   | 60   | 55   | 50   |
|                     | 1160 | 250                  | 175  | 148  | 110  | .... | .... | .... | .... | .... |
|                     | 870  | ....                 | .... | .... | .... | .... | .... | .... | .... | .... |
| 10 Min.             | 1750 | ....                 | .... | 96   | 67   | 60   | 52   | 47   | 43   | 40   |
|                     | 1160 | 190                  | 130  | 110  | 82   | .... | .... | .... | .... | .... |
|                     | 870  | ....                 | .... | .... | .... | .... | .... | .... | .... | .... |
| 5 Min.              | 1750 | ....                 | .... | 58   | 41   | 37   | 32   | 29   | 25   | 20   |
|                     | 1160 | 110                  | 80   | 68   | 50   | .... | .... | .... | .... | .... |
|                     | 870  | ....                 | .... | .... | .... | .... | .... | .... | .... | .... |
| 2 Min.              | 1750 | ....                 | .... | 30   | 23   | 20   | 17   | 15   | 13   | 10   |
|                     | 1160 | 60                   | 40   | 35   | 28   | .... | .... | .... | .... | .... |
|                     | 870  | ....                 | .... | .... | .... | .... | .... | .... | .... | .... |
| 1 Min.              | 1750 | ....                 | .... | 19   | 15   | 13   | 11   | 9    | 8    | 6    |
|                     | 1160 | 33                   | 26   | 22   | 18   | .... | .... | .... | .... | .... |
|                     | 870  | ....                 | .... | .... | .... | .... | .... | .... | .... | .... |

### FLEXIDYNE Mechanism Size 70 Maximum Allowable Acceleration Time (seconds)

| Frequency of Starts | RPM  | Starting Horsepower* |      |      |      |      |      |      |      |      |       |
|---------------------|------|----------------------|------|------|------|------|------|------|------|------|-------|
|                     |      | 0.50                 | 0.75 | 1.00 | 2.00 | 2.50 | 3.00 | 4.00 | 6.00 | 8.00 | 10.00 |
| 2 Hours             | 1750 | ....                 | .... | .... | 210  | 180  | 150  | 110  | 80   | 63   | 53    |
|                     | 1160 | ....                 | .... | 500  | 260  | 190  | 170  | 130  | .... | .... | ....  |
|                     | 870  | 900                  | 800  | 550  | .... | .... | .... | .... | .... | .... | ....  |
| 1 Hour              | 1750 | ....                 | .... | .... | 210  | 180  | 150  | 110  | 80   | 63   | 53    |
|                     | 1160 | ....                 | .... | 500  | 260  | 190  | 170  | 130  | .... | .... | ....  |
|                     | 870  | 900                  | 800  | 550  | .... | .... | .... | .... | .... | .... | ....  |
| 30 Min.             | 1750 | ....                 | .... | .... | 210  | 180  | 150  | 110  | 80   | 63   | 53    |
|                     | 1160 | ....                 | .... | 500  | 260  | 190  | 170  | 130  | .... | .... | ....  |
|                     | 870  | 900                  | 800  | 550  | .... | .... | .... | .... | .... | .... | ....  |
| 15 Min.             | 1750 | ....                 | .... | .... | 190  | 160  | 140  | 100  | 72   | 56   | 46    |
|                     | 1160 | ....                 | .... | 450  | 230  | 165  | 155  | 118  | .... | .... | ....  |
|                     | 870  | 800                  | 700  | 500  | .... | .... | .... | .... | .... | .... | ....  |
| 10 Min.             | 1750 | ....                 | .... | .... | 170  | 140  | 120  | 83   | 60   | 41   | 36    |
|                     | 1160 | ....                 | .... | 320  | 190  | 143  | 133  | 90   | .... | .... | ....  |
|                     | 870  | 500                  | 400  | 330  | .... | .... | .... | .... | .... | .... | ....  |
| 5 Min.              | 1750 | ....                 | .... | .... | 105  | 85   | 74   | 54   | 38   | 29   | 23    |
|                     | 1160 | ....                 | .... | 200  | 120  | 88   | 80   | 60   | .... | .... | ....  |
|                     | 870  | 250                  | 230  | 210  | .... | .... | .... | .... | .... | .... | ....  |
| 2 Min.              | 1750 | ....                 | .... | .... | 58   | 45   | 39   | 30   | 21   | 16   | 13    |
|                     | 1160 | ....                 | .... | 80   | 60   | 49   | 45   | 36   | .... | .... | ....  |
|                     | 870  | 100                  | 100  | 100  | .... | .... | .... | .... | .... | .... | ....  |
| 1 Min.              | 1750 | ....                 | .... | .... | 36   | 29   | 25   | 19   | 13   | 10   | 8     |
|                     | 1160 | ....                 | .... | 45   | 38   | 33   | 28   | 23   | .... | .... | ....  |
|                     | 870  | 50                   | 50   | 50   | .... | .... | .... | .... | .... | .... | ....  |

Table may be interpolated for HP and cycle times between those figures listed.

\* Starting HP is dependent on the amount of flow charge used

|                                 |                             |                         |                                    |
|---------------------------------|-----------------------------|-------------------------|------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT3-2 | SPECIFICATION<br>PAGE PT3-3 | SELECTION<br>PAGE PT3-4 | SELECTION/DIMENSIONS<br>PAGE PT3-8 |
|---------------------------------|-----------------------------|-------------------------|------------------------------------|



## FLEXIDYNE

### FLEXIDYNE Mechanism Size 15

#### Maximum Allowable Acceleration Time (seconds)

| Frequency of Starts | RPM  | Starting Horsepower* |     |     |     |     |     |     |     |     |     |
|---------------------|------|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                     |      | 10                   | 20  | 30  | 40  | 50  | 60  | 70  | 80  | 90  | 100 |
| 2 Hours             | 1750 | ...                  | ... | ... | ... | 35  | 31  | 27  | 23  | 20  | 16  |
|                     | 1160 | ...                  | 230 | 167 | 105 | 81  | 56  | 47  | 39  | 33  | 28  |
|                     | 870  | 560                  | 300 | 200 | 145 | ... | ... | ... | ... | ... | ... |
| 1 Hour              | 1750 | ...                  | ... | ... | ... | 35  | 31  | 27  | 23  | 20  | 16  |
|                     | 1160 | ...                  | 230 | 167 | 105 | 81  | 56  | 47  | 39  | 33  | 28  |
|                     | 870  | 560                  | 300 | 200 | 145 | ... | ... | ... | ... | ... | ... |
| 30 Min.             | 1750 | ...                  | ... | ... | ... | 34  | 30  | 26  | 22  | 18  | 15  |
|                     | 1160 | ...                  | 230 | 167 | 105 | 81  | 56  | 47  | 39  | 33  | 28  |
|                     | 870  | 460                  | 240 | 160 | 120 | ... | ... | ... | ... | ... | ... |
| 15 Min.             | 1750 | ...                  | ... | ... | ... | 30  | 27  | 23  | 20  | 16  | 13  |
|                     | 1160 | ...                  | 190 | 140 | 90  | 68  | 47  | 40  | 33  | 28  | 24  |
|                     | 870  | 350                  | 170 | 125 | 90  | ... | ... | ... | ... | ... | ... |
| 10 Min.             | 1750 | ...                  | ... | ... | ... | 28  | 25  | 21  | 17  | 15  | 13  |
|                     | 1160 | ...                  | 160 | 117 | 74  | 57  | 40  | 34  | 28  | 24  | 20  |
|                     | 870  | 260                  | 130 | 95  | 68  | ... | ... | ... | ... | ... | ... |
| 5 Min.              | 1750 | ...                  | ... | ... | ... | 19  | 16  | 14  | 12  | 10  | 9   |
|                     | 1160 | ...                  | 100 | 73  | 46  | 35  | 25  | 21  | 17  | 14  | 12  |
|                     | 870  | 160                  | 80  | 60  | 42  | ... | ... | ... | ... | ... | ... |
| 2 Min.              | 1750 | ...                  | ... | ... | ... | 12  | 10  | 9   | 7   | 6   | 5   |
|                     | 1160 | ...                  | 44  | 32  | 20  | 15  | 11  | 9   | 7   | 6   | 5   |
|                     | 870  | 85                   | 42  | 32  | 22  | ... | ... | ... | ... | ... | ... |
| 1 Min.              | 1750 | ...                  | ... | ... | ... | 8   | 7   | 6   | 5   | 4   | 3   |
|                     | 1160 | ...                  | 23  | 17  | 10  | 7   | 5   | 5   | 4   | 3   | 3   |
|                     | 870  | 53                   | 25  | 19  | 14  | ... | ... | ... | ... | ... | ... |

| Frequency of Starts | RPM  | Starting Horsepower* |     |     |     |     |     |     |     |     |     |
|---------------------|------|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                     |      | 110                  | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 |
| 2 Hours             | 1750 | 15                   | 14  | 13  | 12  | 11  | 10  | 9   | 9   | 8   | 8   |
|                     | 1160 | ...                  | ... | ... | ... | ... | ... | ... | ... | ... | ... |
|                     | 870  | ...                  | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 1 Hour              | 1750 | 15                   | 14  | 13  | 12  | 11  | 10  | 9   | 9   | 8   | 8   |
|                     | 1160 | ...                  | ... | ... | ... | ... | ... | ... | ... | ... | ... |
|                     | 870  | ...                  | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 30 Min.             | 1750 | 14                   | 13  | 12  | 11  | 10  | 10  | 9   | 9   | 8   | 7   |
|                     | 1160 | ...                  | ... | ... | ... | ... | ... | ... | ... | ... | ... |
|                     | 870  | ...                  | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 15 Min.             | 1750 | 12                   | 11  | 10  | 10  | 9   | 8   | 8   | 7   | 7   | 6   |
|                     | 1160 | ...                  | ... | ... | ... | ... | ... | ... | ... | ... | ... |
|                     | 870  | ...                  | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 10 Min.             | 1750 | 12                   | 11  | 10  | 9   | 8   | 8   | 7   | 7   | 6   | 6   |
|                     | 1160 | ...                  | ... | ... | ... | ... | ... | ... | ... | ... | ... |
|                     | 870  | ...                  | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 5 Min.              | 1750 | 8                    | 7   | 7   | 6   | 6   | 6   | 5   | 5   | 4   | 4   |
|                     | 1160 | ...                  | ... | ... | ... | ... | ... | ... | ... | ... | ... |
|                     | 870  | ...                  | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 2 Min.              | 1750 | 5                    | 4   | 4   | 3   | 3   | ... | ... | ... | ... | ... |
|                     | 1160 | ...                  | ... | ... | ... | ... | ... | ... | ... | ... | ... |
|                     | 870  | ...                  | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 1 Min.              | 1750 | 3                    | ... | ... | ... | ... | ... | ... | ... | ... | ... |
|                     | 1160 | ...                  | ... | ... | ... | ... | ... | ... | ... | ... | ... |
|                     | 870  | ...                  | ... | ... | ... | ... | ... | ... | ... | ... | ... |

Table may be interpolated for HP and cycle times between those figures listed

\* Starting HP is dependent on the amount of flow charge used.

Thermal capacities are shown for single cavity units. For duplex cavities, starting horsepower = (HP \* Starting Torque%)/2

Caution: At these capacities, the housing temperature may reach 250 degrees F.



## FLEXIDYNE

### FLEXIDYNE Mechanism Size 18 Maximum Allowable Acceleration Time (seconds)

| Frequency of Starts | RPM  | Starting Horsepower* |      |      |      |      |      |       |       |
|---------------------|------|----------------------|------|------|------|------|------|-------|-------|
|                     |      | 20                   | 40   | 60   | 80   | 100  | 120  | 140   | 160   |
| 2 Hours             | 1160 | ....                 | .... | .... | .... | 60   | 49   | 38    | 33    |
|                     | 870  | ....                 | 200  | 160  | 120  | 96   | 72   | 62    | 52    |
|                     | 720  | 600                  | 370  | 220  | 160  | .... | .... | ....  | ....  |
| 1 Hour              | 1160 | ....                 | .... | .... | .... | 60   | 49   | 38    | 33    |
|                     | 870  | ....                 | 200  | 160  | 120  | 96   | 72   | 62    | 52    |
|                     | 720  | 560                  | 350  | 200  | 150  | .... | .... | ....  | ....  |
| 30 Min.             | 1160 | ....                 | .... | .... | .... | 56   | 45   | 35    | 30    |
|                     | 870  | ....                 | 160  | 130  | 100  | 80   | 60   | 52    | 44    |
|                     | 720  | 450                  | 280  | 160  | 120  | .... | .... | ....  | ....  |
| 15 Min.             | 1160 | ....                 | .... | .... | .... | 44   | 35   | 26    | 23    |
|                     | 870  | ....                 | 115  | 94   | 72   | 58   | 45   | 38    | 32    |
|                     | 720  | 300                  | 180  | 100  | 74   | .... | .... | ....  | ....  |
| 10 Min.             | 1160 | ....                 | .... | .... | .... | 32   | 26   | 20    | 17    |
|                     | 870  | ....                 | 90   | 72   | 54   | 43   | 32   | 27    | 22    |
|                     | 720  | 200                  | 120  | 66   | 48   | .... | .... | ....  | ....  |
| 5 Min.              | 1160 | ....                 | .... | .... | .... | 17   | 13   | 10    | 9     |
|                     | 870  | ....                 | 44   | 35   | 27   | 21   | 16   | 13    | 11    |
|                     | 720  | 90                   | 54   | 32   | 23   | .... | .... | ....  | ....  |
| 2 Min.              | 1160 | ....                 | .... | .... | .... | 7    | 5    | 4     | 4     |
|                     | 870  | ....                 | 17   | 13   | 10   | 8    | 6    | 5     | 4     |
|                     | 720  | 35                   | 21   | 12   | 8    | .... | .... | ....  | ....  |
| 1 Min.              | 1160 | ....                 | .... | .... | .... | .... | .... | ....  | ....  |
|                     | 870  | ....                 | 8    | 6    | 5    | 4    | 3    | ..... | ..... |
|                     | 720  | 16                   | 10   | 5    | 4    | .... | .... | ....  | ....  |

| Frequency of Starts | RPM  | Starting Horsepower* |      |      |      |      |      |      |
|---------------------|------|----------------------|------|------|------|------|------|------|
|                     |      | 180                  | 200  | 220  | 240  | 260  | 280  | 300  |
| 2 Hours             | 1160 | 28                   | 25   | 22   | 20   | 18   | 16   | 14   |
|                     | 870  | ....                 | .... | .... | .... | .... | .... | .... |
|                     | 720  | ....                 | .... | .... | .... | .... | .... | .... |
| 1 Hour              | 1160 | 28                   | 25   | 22   | 20   | 18   | 16   | 14   |
|                     | 870  | ....                 | .... | .... | .... | .... | .... | .... |
|                     | 720  | ....                 | .... | .... | .... | .... | .... | .... |
| 30 Min.             | 1160 | 26                   | 23   | 20   | 18   | 17   | 15   | 13   |
|                     | 870  | ....                 | .... | .... | .... | .... | .... | .... |
|                     | 720  | ....                 | .... | .... | .... | .... | .... | .... |
| 15 Min.             | 1160 | 20                   | 18   | 16   | 14   | 13   | 11   | 10   |
|                     | 870  | ....                 | .... | .... | .... | .... | .... | .... |
|                     | 720  | ....                 | .... | .... | .... | .... | .... | .... |
| 10 Min.             | 1160 | 15                   | 13   | 12   | 10   | 9    | 8    | 7    |
|                     | 870  | ....                 | .... | .... | .... | .... | .... | .... |
|                     | 720  | ....                 | .... | .... | .... | .... | .... | .... |
| 5 Min.              | 1160 | 8                    | 7    | 6    | 5    | 5    | 4    | 4    |
|                     | 870  | ....                 | .... | .... | .... | .... | .... | .... |
|                     | 720  | ....                 | .... | .... | .... | .... | .... | .... |
| 2 Min.              | 1160 | ....                 | .... | .... | .... | .... | .... | .... |
|                     | 870  | ....                 | .... | .... | .... | .... | .... | .... |
|                     | 720  | ....                 | .... | .... | .... | .... | .... | .... |
| 1 Min.              | 1160 | ....                 | .... | .... | .... | .... | .... | .... |
|                     | 870  | ....                 | .... | .... | .... | .... | .... | .... |
|                     | 720  | ....                 | .... | .... | .... | .... | .... | .... |

Table may be interpolated for HP and cycle times between those figures listed.

\* Starting HP is dependent on the amount of flow charge used.

Thermal capacities are shown for single cavity units.  
For duplex cavities, starting horsepower = (HP \* Starting Torque%)/2

**Caution:** At these capacities, the housing temperature may reach 250 degrees F.

|                                 |                             |                         |                                    |
|---------------------------------|-----------------------------|-------------------------|------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT3-2 | SPECIFICATION<br>PAGE PT3-3 | SELECTION<br>PAGE PT3-4 | SELECTION/DIMENSIONS<br>PAGE PT3-8 |
|---------------------------------|-----------------------------|-------------------------|------------------------------------|



# NOTES

---

PT Component  
Reference Guide

Couplings

Clutches and Brakes

FLEXIDYNE

Fluid Couplings

TORQUE-TAMER

Bushing



## Fluid Coupling

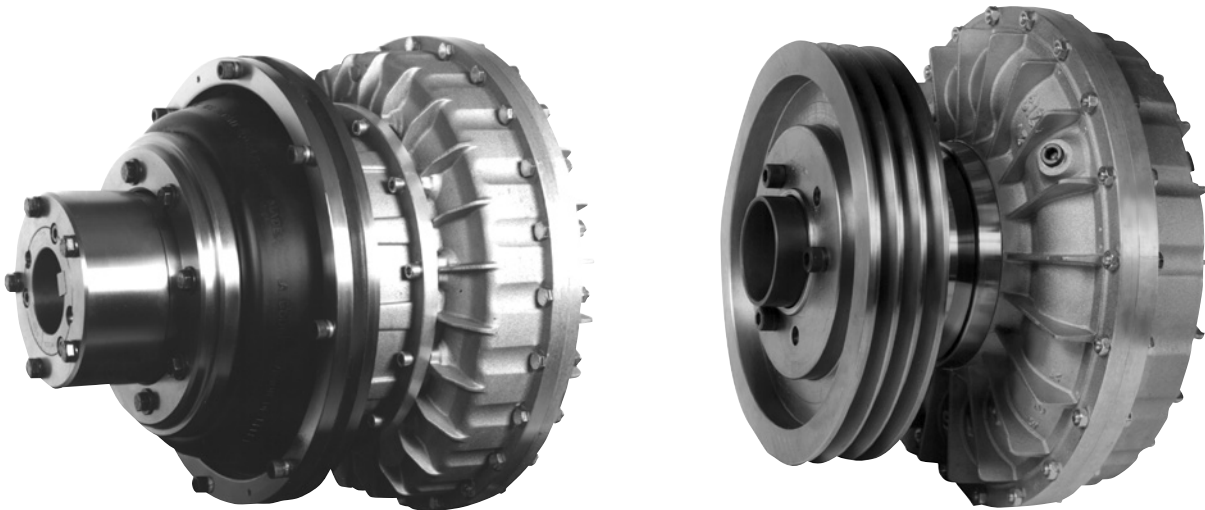
|                                   |          |
|-----------------------------------|----------|
| <b>Features/Benefits</b> .....    | PT4-2    |
| <b>Nomenclature</b> .....         | PT4-3    |
| <b>Selection</b> .....            | PT4-3    |
| <b>Selection/Dimensions</b>       |          |
| Fluid Coupling Drives - KSD ..... | PT4-4    |
| Fluid Coupling Drives - KCM ..... | PT4-6    |
| Fluid Coupling Drives - KCP ..... | PT4-8    |
| Part Number Index .....           | INDEX-1  |
| Keyword Index .....               | INDEX-43 |



# FEATURES/BENEFITS

## Fluid Coupling

- **Smoother and Shock Free Operation**
  - Motor starts under no load conditions
  - Smoother starts
- **More Efficient Design**
  - Permits use of standard NEMA Design B motors
  - Eliminate need for motors with special winding
  - Wound rotor motors not needed
- **Overload Protection**
  - Provides overload protection at overloads somewhat greater than starting torque
  - Protection devices to prevent damage to Fluid Couplings are available
- **Low Current Draw**
  - Less than twice the nameplate amperage during both starting and overload periods
  - Many electric utilities recommend Fluid Couplings
- **Increased Productivity**
  - Eliminates product spillage and machine damage due to harsh starts or jammed loads

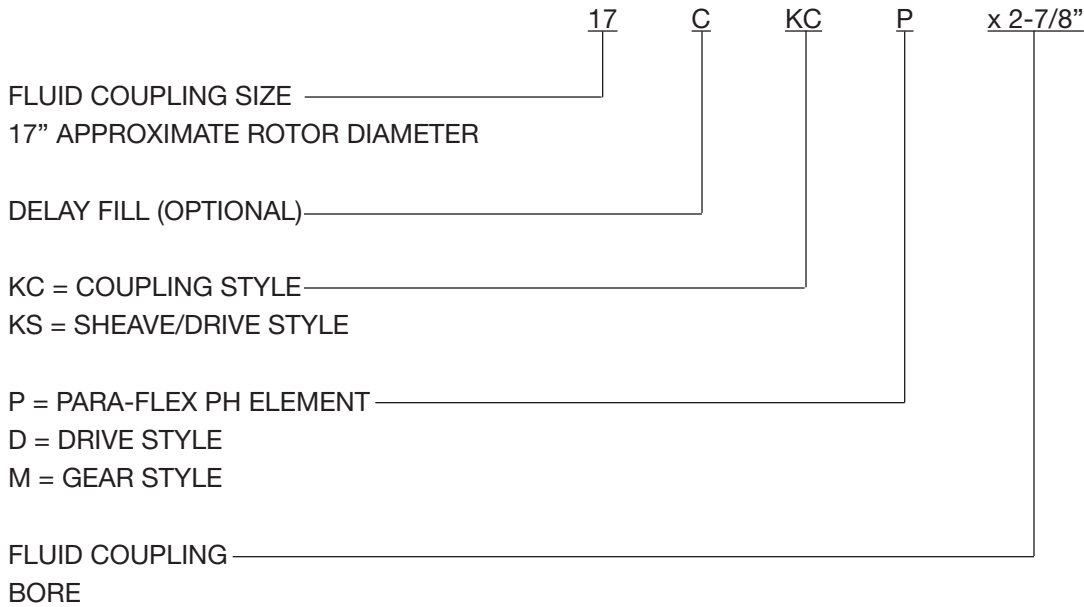




# NOMENCLATURE

## Fluid Coupling

### NOMENCLATURE



## SELECTION

### Fluid Coupling

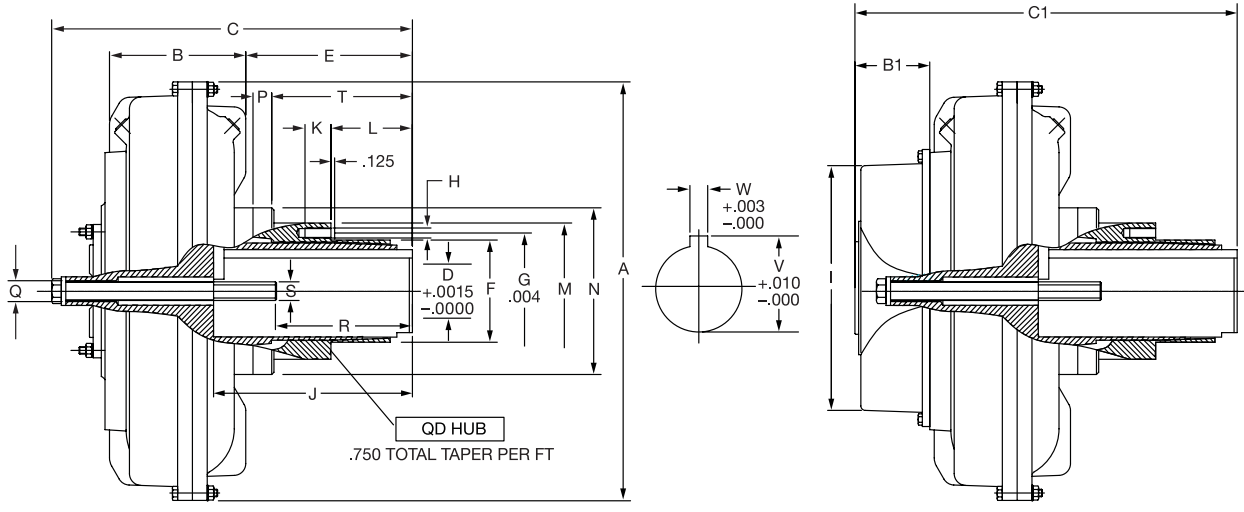
Fluid Coupling Selection

| HP   | RPM  |      |      |
|------|------|------|------|
|      | 1800 | 1500 | 1200 |
| 5    | 8    | 8    | 9    |
| 7.50 | 8    | 9    | 11   |
| 10   | 8    | 9    | 12   |
| 15   | 9    | 11   | 12   |
| 20   | 11   | 12   | 13   |
| 25   | 11   | 12   | 13   |
| 30   | 11   | 12   | 15   |
| 40   | 12   | 13   | 15   |
| 50   | 13   | 15   | 17   |
| 60   | 13   | 15   | 17   |
| 75   | 15   | 15   | 17   |
| 100  | 15   | 17   | 19   |
| 125  | 17   | 19   | 21   |
| 150  | 17   | 19   | 21   |
| 200  | 19   | 21   | 24   |
| 250  | 21   | 21   | 24   |
| 300  | 21   | 24   | 27   |
| 350  | 21   | 24   | 27   |
| 400  | 24   | 24   | 27   |
| 500  | 24   | 27   | 29   |

# SELECTION/DIMENSIONS



## Fluid Coupling



KSD-QD

CKSD-QD

### Dimensional Data Sheet - KSD & CKSD

| Size | D<br>Bore       | A     | KSD  |      | CKSD           |                | E              | F    | G    | H |         | J            | K   | L   | M    | N     | P    | Q              | R            | S             | T             | QD<br>Hub<br>Size | Weight (lb)<br>Less Oil |             | Oil<br>U.S. Gal.<br>max. |             |  |
|------|-----------------|-------|------|------|----------------|----------------|----------------|------|------|---|---------|--------------|-----|-----|------|-------|------|----------------|--------------|---------------|---------------|-------------------|-------------------------|-------------|--------------------------|-------------|--|
|      |                 |       | B    | B1   | C<br>Max       | C1<br>Max      |                |      |      | # | Dia     |              |     |     |      |       |      |                |              |               |               |                   | KSD-<br>QD              | CKSD-<br>QD | KSD-<br>QD               | CKSD-<br>QD |  |
|      |                 |       |      |      |                |                |                |      |      |   |         |              |     |     |      |       |      |                |              |               |               |                   |                         |             |                          |             |  |
| 7    | 1.375•          | 8.98  | 3.03 |      | 7.09           | -              | 2.77           | 2.19 | 2.69 | 3 | 1/4-20  | 2.40         | 0.6 | 1.2 | 3.1  | 4.5   | 0.6  | 1/2-13<br>UNC  |              |               | 1.94          | SDS               | 13.4                    |             | 0.24                     |             |  |
|      | 1.125           |       |      |      |                |                |                |      |      |   |         |              |     |     |      |       |      |                |              |               |               |                   |                         |             |                          |             |  |
|      | 0.875           |       |      |      |                |                |                |      |      |   |         |              |     |     |      |       |      |                |              |               |               |                   |                         |             |                          |             |  |
| 8    | 1.375•          | 10.08 | 3.58 |      | 7.33           | -              | 2.61           | 2.19 | 2.69 | 3 | 1/4-20  | 2.40         | 0.6 | 1.2 | 3.1  | 4.5   | 0.6  | 1/2-13<br>UNC  |              |               | 1.94          | SDS               | 14.8                    |             | 0.40                     |             |  |
|      | 1.125           |       |      |      |                |                |                |      |      |   |         |              |     |     |      |       |      |                |              |               |               |                   |                         |             |                          |             |  |
| 9    | 1.625•<br>1.375 | 11.61 | 3.78 |      | 9.80           | -              | 3.98           | 2.81 | 3.31 | 3 | 5/16-18 | 3.31         | 0.7 | 1.5 | 3.9  | 5.0   | 1.0  | 3/4-10<br>UNC  |              |               | 2.48          | SK                | 28.7                    |             | 0.52                     |             |  |
| 11   | 1.875•<br>1.625 | 12.80 | 4.21 |      | 10.20          | 11.39          | 3.86           | 3.13 | 3.88 | 3 | 3/8-16  | 4.00         | 0.8 | 1.5 | 4.6  | 5.5   | 0.8  | 3/4-10<br>UNC  |              |               | 2.76          | SF                | 34.2                    |             | 0.73                     |             |  |
|      | 2.125•          |       |      |      |                |                |                |      |      |   |         |              |     |     |      |       |      |                |              |               |               |                   |                         |             |                          |             |  |
| 12   | 1.875•<br>1.625 | 14.57 | 4.80 | 3.15 | 11.56          | 13.05          | 5.10           | 3.83 | 5.00 | 3 | 1/2-13  | 4.25         | 1.1 | 1.9 | 6.0  | 6.1   | 0.9  | 3/4-10<br>UNC  |              |               | 3.98          | E                 | 50.7                    | 57.2        | 1.08                     | 1.27        |  |
|      | 2.375•          |       |      |      |                |                |                |      |      |   |         |              |     |     |      |       |      |                |              |               |               |                   |                         |             |                          |             |  |
|      | 2.125•          |       |      |      |                |                |                |      |      |   |         |              |     |     |      |       |      |                |              |               |               |                   |                         |             |                          |             |  |
| 13   | 2.125•<br>1.875 | 15.67 | 5.39 | 3.15 | 13.90          | 14.96          | 6.42           | 3.83 | 5.00 | 3 | 1/2-13  | 4.25         | 1.1 | 2.8 | 6.0  | 7.0   | 1.1  | 3/4-10<br>UNC  |              |               | 5.22          | E                 | 73.9                    | 80.5        | 1.37                     | 1.53        |  |
|      | 2.375•          |       |      |      |                |                |                |      |      |   |         |              |     |     |      |       |      |                |              |               |               |                   |                         |             |                          |             |  |
|      | 2.125•          |       |      |      |                |                |                |      |      |   |         |              |     |     |      |       |      |                |              |               |               |                   |                         |             |                          |             |  |
| 15   | 2.875•<br>2.375 | 18.11 | 5.95 | 3.62 | 15.60          | 16.70          | 7.13           | 4.44 | 5.63 | 3 | 9/16-12 | 7.00<br>5.63 | 1.2 | 3.9 | 6.6  | 8.0   | 1.38 | 7/8-9<br>UNC   | 5.35<br>3.90 | 3/4-10<br>UNC | 5.43          | F                 | 107                     | 115.8       | 2.02                     | 2.27        |  |
|      | 8.25<br>7.00    |       |      |      |                |                |                |      |      |   |         |              |     |     |      |       |      |                |              |               |               |                   |                         |             |                          |             |  |
|      | 6.30<br>5.00    |       |      |      |                |                |                |      |      |   |         |              |     |     |      |       |      |                |              |               |               |                   |                         |             |                          |             |  |
| 17   | 3.375•<br>2.875 | 20.47 | 6.69 | 3.98 | 19.11          | 20.32          | 9.65           | 5.15 | 6.25 | 3 | 5/8-11  | 8.25<br>7.00 | 1.4 | 4.3 | 7.24 | 8.3   | 2.8  | 1 1/4-7<br>UNC | 6.30<br>5.00 | 7/8-9<br>UNC  | 6.69          | J                 | 156                     | 169.2       | 3.09                     | 3.59        |  |
|      | 8.25<br>7.00    |       |      |      |                |                |                |      |      |   |         |              |     |     |      |       |      |                |              |               |               |                   |                         |             |                          |             |  |
|      | 6.30<br>5.00    |       |      |      |                |                |                |      |      |   |         |              |     |     |      |       |      |                |              |               |               |                   |                         |             |                          |             |  |
| 19   | 3.375•<br>2.875 | 22.24 | 7.48 | 3.98 | 18.17          | 20.32          | 8.86           | 5.15 | 6.25 | 3 | 5/8-11  | 8.25<br>7.00 | 1.4 | 4.3 | 7.24 | 8.98  | 1.77 | 1 1/8-7<br>UNC | 6.30<br>5.00 | 7/8-9<br>UNC  | 6.69          | J                 | 174                     | 187.2       | 3.75                     | 4.36        |  |
|      | 8.25<br>7.00    |       |      |      |                |                |                |      |      |   |         |              |     |     |      |       |      |                |              |               |               |                   |                         |             |                          |             |  |
|      | 6.30<br>5.00    |       |      |      |                |                |                |      |      |   |         |              |     |     |      |       |      |                |              |               |               |                   |                         |             |                          |             |  |
| 21   | 3.875•<br>3.375 | 24.41 | 8.07 | 4.53 | 21.46<br>19.88 | 24.41<br>22.84 | 11.81<br>10.24 | 6.50 | 7.88 | 4 | 3/4-10  | 1.00<br>0.88 | 1.6 | 7.1 | 9.02 | 10.38 | 2.2  | 1 1/4-7<br>UNC | 6.56<br>6.51 | 7/8-9<br>UNC  | 11.02<br>9.45 | M                 | 270                     | 292         | 5.02                     | 6.08        |  |
|      | 6.56<br>6.51    |       |      |      |                |                |                |      |      |   |         |              |     |     |      |       |      |                |              |               |               |                   |                         |             |                          |             |  |
|      | 6.56<br>6.51    |       |      |      |                |                |                |      |      |   |         |              |     |     |      |       |      |                |              |               |               |                   |                         |             |                          |             |  |
| 24   | 3.875•          | 27.95 | 9.02 | 4.53 | 21.46          | 24.41          | 10.87          | 6.50 | 7.88 | 4 | 3/4-10  | 1.00         | 1.6 | 7.1 | 9.02 | 10.38 | 1.4  | 1 1/4-7<br>UNC | 6.56         | 7/8-9<br>UNC  | 11.02         | M                 | 307                     | 329         | 7.50                     | 8.24        |  |

• Max Bore

# SELECTION/DIMENSIONS



## Fluid Coupling

### Part Numbers

| KSD Drive Accepts "Q" Style Sheave |                                  |
|------------------------------------|----------------------------------|
| Part #                             | Part Description                 |
| 118780                             | 7 KSD-QD SDS W/ 1-1/8 COLLET     |
| 118781                             | 8 KSD-QD SDS W/ 1-1/8 COLLET     |
| 118782                             | 9 KSD-QD SK W/ 1-3/8 COLLET      |
| 118783                             | 11 KSD-QD SF W/ 1-7/8 COLLET     |
| 118784                             | 12 KSD-QD E W/ 2-1/8 COLLET      |
| 118785                             | 13 KSD-QD E W/ 2-1/8 COLLET      |
| 118786                             | 13 KSD-QD E W/ 2-3/8 COLLET      |
| 118648                             | 15 KSD-QD F W/ 2-3/8 COLLET      |
| 118649                             | 15 KSD-QD F W/ 2-7/8 COLLET      |
| 118650                             | 17 KSD-QD J W/ 3-3/8 COLLET      |
| 118651                             | 19 KSD-QD J W/ 3-3/8 COLLET      |
| 118652                             | 21 KSD-QD M W/ 3-3/8 FINISH BORE |
| 118653                             | 24 KSD-QD M W/ 3-3/8 FINISH BORE |

### Delay Fill

| CKSD Drive Accepts "Qd" Style Sheave |                                   |
|--------------------------------------|-----------------------------------|
| Part #                               | Part Description                  |
| 118654                               | 11 CKSD-QD SF W/ 1-7/8 COLLET     |
| 118655                               | 12 CKSD-QD E W/ 2-1/8 COLLET      |
| 118656                               | 13 CKSD-QD E W/ 2-1/8 COLLET      |
| 118657                               | 13 CKSD-QD E W/ 2-3/8 COLLET      |
| 118658                               | 15 CKSD-QD F W/ 2-3/8 COLLET      |
| 118659                               | 15 CKSD-QD F W/ 2-7/8 COLLET      |
| 118660                               | 17 CKSD-QD J W/ 3-3/8 COLLET      |
| 118661                               | 19 CKSD-QD J W/ 3-3/8 COLLET      |
| 118662                               | 21 CKSD-QD M W/ 3-3/8 FINISH BORE |
| 118663                               | 24 CKSD-QD M W/ 3-3/8 FINISH BORE |

| KSD Drive Accepts Bolt-On Style Sheave |                                 |
|--|---------------------------------|
| Part #                                 | Part Description                |
| 118787                                 | 15 KSD FLUID CPLG W/ 2-3/8 F.B. |
| 118788                                 | 15 KSD FLUID CPLG W/ 2-7/8 F.B. |
| 118789                                 | 15 KSD FLUID CPLG 2-3/8 COLLET  |
| 118790                                 | 15 KSD FLUID CPLG 2-7/8 COLLET  |
| 118792                                 | 17 KSD FLUID CPLG W/ 3-3/8 F.B. |
| 118793                                 | 17 KSD FLUID CPLG 3-3/8 COLLET  |
| 118794                                 | 17 KSD FLUID CPLG 2-3/8 COLLET  |
| 118795                                 | 19 KSD FLUID CPLG W/ 3-3/8 F.B. |
| 118796                                 | 19 KSD FLUID CPLG 3-3/8 COLLET  |
| 118797                                 | 21 KSD FLUID CPLG W/ 3-3/8 F.B. |
| 118798                                 | 24 KSD FLUID CPLG W/ 3-3/8 F.B. |

The motor shaft for sizes 15 KSD F.B. style and up must be tapped.

\* For non-standard sheaves contact DODGE Drive Components.



**Collet Mount:** Available on most sizes for ease of installation.

| KSD Bolt-On Sheaves * |      |             |
|-----------------------|------|-------------|
| Part Number           | KSD# | Description |
| 118740                | 15   | 3GR 5V 12.5 |
| 118743                | 15   | 4GR 5V 9.75 |
| 118744                | 15   | 4GR 5V 10.3 |
| 118745                | 15   | 4GR 5V 10.9 |
| 118746                | 15   | 4GR 5V 11.3 |
| 118747                | 15   | 4GR 5V 11.8 |

| KSD Bolt-On Sheaves * |      |              |
|-----------------------|------|--------------|
| Part Number           | KSD# | Description  |
| 118750                | 17   | 4GR 5V 12.5  |
| 118755                | 17   | 5GR 5V 10.9  |
| 118746                | 17   | 5GR 5V 11.3  |
| 118757                | 17   | 5GR 5V 11.8  |
| 118758                | 17   | 5GR 5V 12.5  |
| 118759                | 17   | 5GR 5V 13.2  |
| 118762                | 17   | 6GR 5V 10.9  |
| 118763                | 17   | 6GR 5V 11.3  |
| 118749                | 17   | 4GR 5V 11.8  |
| 118764                | 19   | 6GR 5V 12.5  |
| 118765                | 19   | 6GR 5V 13.2  |
| 118769                | 19   | 8GR 5V 10.9  |
| 118770                | 19   | 8GR 5V 11.3  |
| 118771                | 19   | 8GR 5V 11.8  |
| 118772                | 21   | 5GR 8V 14.0  |
| 118774                | 21   | 6GR 8V 13.2  |
| 118775                | 21   | 6GR 8V 14.0  |
| 118776                | 21   | 8GR 8V 13.2  |
| 118777                | 21   | 8GR 8V 14.0  |
| 118778                | 24   | 8GR 8V 14.0  |
| 118779                | 24   | 10GR 8V 13.2 |



## Fluid Coupling

Couplings

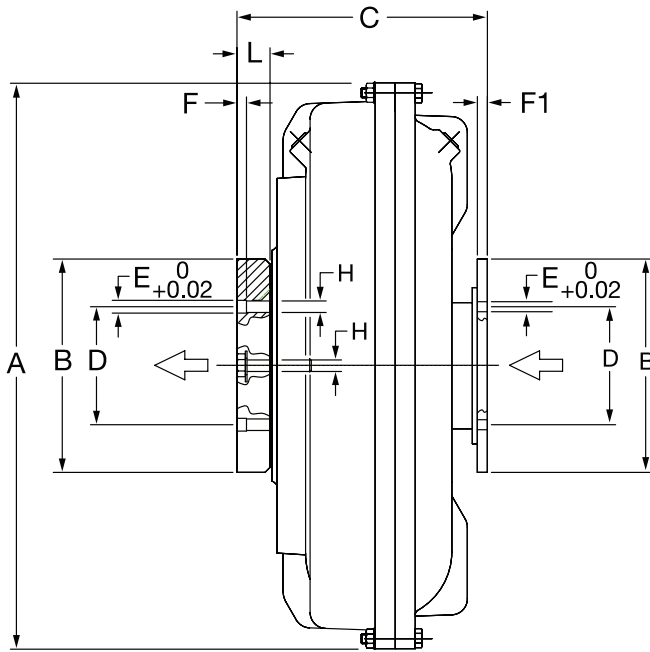
Clutches and Brakes

FLEXIDYNE

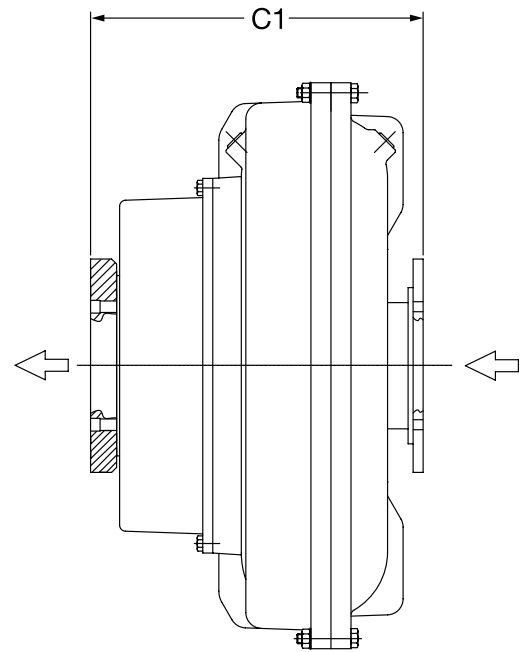
Fluid Couplings

TORQUE-TAMER

Bushings



KCM



CKCM

### Dimensional Data Sheet - KCM & CKCM

| Size | A     | B     | C     |       | D     | E  |      | H          | Gear Coupling Size | Weight (lb) Less Oil |      | Oil U.S. Gal. max. |       |
|------|-------|-------|-------|-------|-------|----|------|------------|--------------------|----------------------|------|--------------------|-------|
|      |       |       | KCM   | CKCM  |       | #  | DIA  |            |                    | KCM                  | CKCM | KCM                | CKCM  |
| 7    | 8.98  | 4.57  | 5.51  | -     | 3.75  | 6  | 0.25 | 1/4-28 UNF | 1                  | 16                   | -    | 0.24               | -     |
| 8    | 10.08 | 4.57  | 5.71  | -     | 3.75  | 6  | 0.25 | 1/4-28 UNF | 1                  | 18                   | -    | 0.34               | -     |
| 9    | 11.61 | 6.00  | 7.44  | -     | 4.81  | 8  | 0.38 | 3/8-24 UNF | 1.5                | 31                   | -    | 0.52               | -     |
| 11   | 12.80 | 6.00  | 7.80  | 9.61  | 4.81  | 8  | 0.38 | 3/8-24 UNF | 1.5                | 35                   | -    | 0.73               | -     |
| 12   | 14.65 | 6.00  | 7.80  | 10.43 | 4.81  | 8  | 0.38 | 3/8-24 UNF | 1.5                | 46                   | 53   | 1.08               | 1.27  |
| 13   | 15.67 | 6.00  | 8.80  | 11.14 | 4.81  | 8  | 0.38 | 3/8-24 UNF | 1.5                | 62                   | 68   | 1.37               | 1.53  |
| 15   | 18.11 | 8.39  | 9.88  | 12.56 | 7.13  | 6  | 0.62 | 5/8-11 UNC | 2.5                | 104                  | 112  | 2.02               | 2.27  |
| 17   | 20.47 | 8.39  | 10.83 | 13.98 | 7.13  | 6  | 0.62 | 5/8-11 UNC | 2.5                | 146                  | 159  | 3.09               | 3.59  |
| 19   | 22.24 | 8.39  | 10.83 | 13.98 | 7.13  | 6  | 0.62 | 5/8-11 UNC | 2.5                | 165                  | 178  | 3.75               | 4.36  |
| 21   | 24.41 | 9.45  | 12.44 | 16.38 | 8.13  | 8  | 0.62 | 5/8-11 UNC | 2.3                | 240                  | 262  | 5.02               | 6.08  |
| 24   | 28.11 | 9.45  | 12.44 | 16.38 | 8.13  | 8  | 0.62 | 5/8-11 UNC | 2.3                | 285                  | 306  | 7.50               | 8.24  |
| 27   | 30.71 | 11.02 | 16.06 | 20.71 | 9.50  | 8  | 0.75 | 3/4-10 UNC | 3.5                | 454                  | 505  | 11.09              | 13.21 |
| 29   | 33.86 | 11.02 | 17.2  | 21.85 | 9.50  | 8  | 0.75 | 3/4-10 UNC | 3.5                | 562                  | 613  | 14.53              | 16.65 |
| 34   | 39.37 | 12.52 | 19.8  | 24.96 | 11.00 | 8  | 0.75 | 3/4-10 UNC | 4                  | 960                  | 978  | 21.80              | 24.44 |
| 46   | 52.36 | 18.0  | -     | -     | 15.75 | 14 | 0.88 | 7/8-11 UNC | 6                  | -                    | -    | -                  | -     |

|                                 |                            |                         |                                    |
|---------------------------------|----------------------------|-------------------------|------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT4-2 | NOMENCLATURE<br>PAGE PT4-3 | SELECTION<br>PAGE PT4-3 | SELECTION/DIMENSIONS<br>PAGE PT4-4 |
|---------------------------------|----------------------------|-------------------------|------------------------------------|

# SELECTION/DIMENSIONS



## Fluid Coupling PART NUMBERS

### Fluid Couplings

| Part # | Part Description                  |
|--------|-----------------------------------|
| 118625 | 7 KCM - LESS 1.0SB GEAR COUPLING  |
| 118626 | 8 KCM - LESS 1.0SB GEAR COUPLING  |
| 118627 | 9 KCM - LESS 1.5SB GEAR COUPLING  |
| 118628 | 11 KCM - LESS 1.5SB GEAR COUPLING |
| 118629 | 12 KCM - LESS 1.5SB GEAR COUPLING |
| 118630 | 13 KCM - LESS 1.5SB GEAR COUPLING |
| 118631 | 15 KCM - LESS 2.5EB GEAR COUPLING |
| 118632 | 17 KCM - LESS 2.5EB GEAR COUPLING |
| 118633 | 19 KCM - LESS 2.5EB GEAR COUPLING |
| 118634 | 21 KCM - LESS 3.0EB GEAR COUPLING |
| 118635 | 24 KCM - LESS 3.0EB GEAR COUPLING |
| 118636 | 27 KCM - LESS 3.5EB GEAR COUPLING |
| 118637 | 29 KCM - LESS 3.5EB GEAR COUPLING |

\* Gear Coupling Kit ordered separately (See below)

### Delay Fill Fluid Couplings

| Part # | Part Description                   |
|--------|------------------------------------|
| 118638 | 11 CKCM - LESS 1.5SB GEAR COUPLING |
| 118639 | 12 CKCM - LESS 1.5SB GEAR COUPLING |
| 118640 | 13 CKCM - LESS 1.5SB GEAR COUPLING |
| 118641 | 15 CKCM - LESS 2.5EB GEAR COUPLING |
| 118642 | 17 CKCM - LESS 2.5EB GEAR COUPLING |
| 118643 | 19 CKCM - LESS 2.5EB GEAR COUPLING |
| 118644 | 21 CKCM - LESS 3.0EB GEAR COUPLING |
| 118645 | 24 CKCM - LESS 3.0EB GEAR COUPLING |
| 118646 | 27 CKCM - LESS 3.5EB GEAR COUPLING |
| 118647 | 29 CKCM - LESS 3.5EB GEAR COUPLING |

### Gear Couplings for KCM Fluid Coupling

| Fluid Coupling Size 7 - 8   |                               |
|-----------------------------|-------------------------------|
| Part Numbers                | Description                   |
| 013110                      | DGF 1.0 FLEX HUB              |
| 012975                      | DGF 1.0 SLEEVE SB             |
| 012987                      | KCM/CKCM 7 - 8 HARDWARE KIT   |
| Fluid Coupling Size 9 - 13  |                               |
| Part Numbers                | Description                   |
| 013114                      | DGF 1.5 FLEX HUB              |
| 012976                      | DGF 1.5 SLEEVE SB             |
| 012988                      | KCM/CKCM 9 - 13 HARDWARE KIT  |
| Fluid Coupling Size 15 - 24 |                               |
| Part Numbers                | Description                   |
| 013122                      | DGF 2.5 FLEX HUB              |
| 012978                      | DGF 2.5 SLEEVE SB             |
| 012989                      | KCM/CKCM 15 - 24 HARDWARE KIT |
| Fluid Coupling Size 27 - 34 |                               |
| Part Numbers                | Description                   |
| 013130                      | DGF 3.5 FLEX HUB              |
| 013131                      | DGF 3.5 SLEEVE EB             |
| 012990                      | KCM/CKCM 27 - 29 HARDWARE KIT |

Gear couplings are required for shaft attachment. For a complete gear coupling attachment kit, please order - (2) flex hubs (reborable), (2) sleeves (includes seal), and (1) hardware kit.

| Size                     | Outside  | Flange  | Flange    | Hub      | Undercut | Undercut | Hole     | Bolt    | Number of Bolts | Max Bore |
|--------------------------|----------|---------|-----------|----------|----------|----------|----------|---------|-----------------|----------|
|                          | Diameter | Width   | Thickness | Diameter | Depth    | Diameter | Diameter | Circle  |                 |          |
|                          | A        | J       | T         | F        | I        | H        | U        | B.C.    |                 |          |
| All Dimensions in Inches |          |         |           |          |          |          |          |         |                 |          |
| 1 SB                     | 4-9/16   | 1-21/32 | 9/16      | 3        | 3/32     | 2 -7/8   | 1/4      | 3-3/4   | 6               | 1.625"   |
| 1.5 SB                   | 6        | 1-7/8   | 3/4       | 3-7/8    | 3/32     | 3-11/16  | 3/8      | 4-13/16 | 8               | 2.375"   |
| 2.5 SB                   | 8-3/8    | 2-7/8   | 15/16     | 5-13/16  | 3/32     | 5-7/16   | 1/2      | 7       | 10              | 3.750"   |
| 3.5 EB                   | 11       | 3-13/16 | 1-1/8     | 7-27/32  | 3/32     | 7-3/8    | 3/4      | 9-1/2   | 8               | 4.750"   |

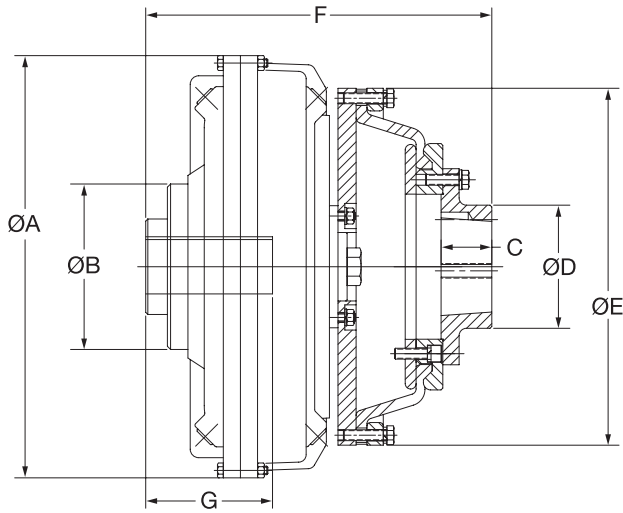
|                                 |                            |                         |                                    |
|---------------------------------|----------------------------|-------------------------|------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT4-2 | NOMENCLATURE<br>PAGE PT4-3 | SELECTION<br>PAGE PT4-3 | SELECTION/DIMENSIONS<br>PAGE PT4-4 |
|---------------------------------|----------------------------|-------------------------|------------------------------------|



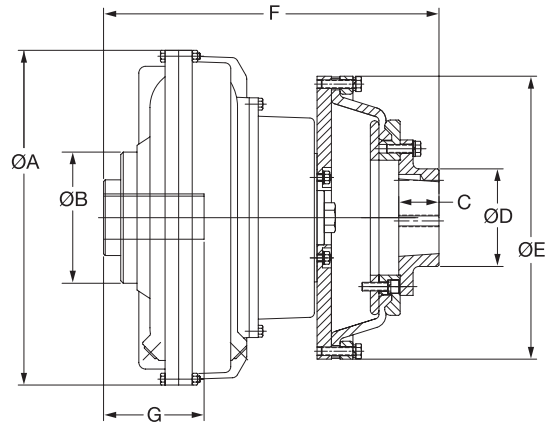


# SELECTION/DIMENSIONS

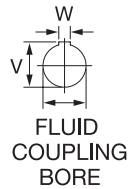
## Fluid Coupling



KCP-CONSTANT FILL



CKCP-DELAY FILL



### Dimensional Data Sheet - KCP & CKCP

| Size | Fluid Coupling Bore | A     | B    | C    | D    | E     | F     |       | G    | V               |       | W     | PH Element | PH Max Bore | TL Bushing | Max Torque (in-lb) | Max RPM |
|------|---------------------|-------|------|------|------|-------|-------|-------|------|-----------------|-------|-------|------------|-------------|------------|--------------------|---------|
|      |                     |       |      |      |      |       | KCP   | CKCP  |      | +0.010 / -0.000 |       |       |            |             |            |                    |         |
| 11   | 1.625               | 12.80 | 5.04 | 1.75 | 4.25 | 10.31 | 11.76 |       | 3.75 | 1.796           | 0.375 | PH96  | 2 11/16    | 2517        | 2300       | 3300               |         |
|      | 1.875               |       |      |      |      |       |       |       | 4.38 | 1.972           | 0.5   |       |            |             |            |                    |         |
| 12   | 1.625               | 14.57 | 5.71 | 1.75 | 4.25 | 12.31 | 11.71 | 14.37 | 3.75 | 1.796           | 0.375 | PH116 | 2 11/16    | 2517        | 3150       | 3200               |         |
|      | 1.875               |       |      |      |      |       |       |       | 4.38 | 1.972           | 0.5   |       |            |             |            |                    |         |
| 13   | 1.875               | 15.67 | 7.06 | 1.75 | 4.25 | 13.81 | 13.58 | 15.94 | 4.38 | 2.093           | 0.5   | PH131 | 2 11/16    | 2517        | 4700       | 3000               |         |
|      | 2.125               |       |      |      |      |       |       |       | 5.00 | 2.350           | 0.5   |       |            |             |            |                    |         |
| 15   | 2.125               | 18.11 | 8.00 | 3.50 | 7.69 | 18.31 | 18.36 | 21.04 | 5.63 | 2.480           | 0.625 | PH172 | 3 15/16    | 3535        | 6600       | 2600               |         |
|      | 2.375               |       |      |      |      |       |       |       | 7.00 | 2.992           | 0.75  |       |            |             |            |                    |         |
| 17   | 2.375               | 20.47 | 8.86 | 3.50 | 7.69 | 18.31 | 19.23 | 22.38 | 5.63 | 2.651           | 0.625 | PH172 | 3 15/16    | 3535        | 9200       | 2400               |         |
|      | 2.875               |       |      |      |      |       |       |       | 7.00 | 2.992           | 0.75  |       |            |             |            |                    |         |
| 19   | 2.375               | 22.24 | 8.86 | 3.50 | 7.69 | 18.31 | 19.23 | 22.38 | 5.63 | 2.651           | 0.625 | PH172 | 3 15/16    | 3535        | 12900      | 2200               |         |
|      | 2.875               |       |      |      |      |       |       |       | 7.00 | 3.205           | 0.75  |       |            |             |            |                    |         |
| 21   | 2.375               | 24.41 | 9.84 | 4.00 | 8.63 | 20.31 | 22.79 | 26.73 | 7.00 | 3.205           | 0.75  | PH192 | 4 7/16     | 4040        | 17300      | 2000               |         |
|      | 3.375               |       |      |      |      |       |       |       | 7.63 | 3.635           | 0.875 |       |            |             |            |                    |         |
| 24   | 2.875               | 27.95 | 9.84 | 4.00 | 8.63 | 20.31 | 22.79 | 26.73 | 7.00 | 3.205           | 0.75  | PH192 | 4 7/16     | 4040        | 24500      | 1800               |         |
|      | 3.375               |       |      |      |      |       |       |       | 8.25 | 3.760           | 0.875 |       |            |             |            |                    |         |
|      | 3.875               |       |      |      |      |       |       |       | 8.50 | 4.106           | 1     |       |            |             |            |                    |         |

# SELECTION/DIMENSIONS



## Fluid Coupling PART NUMBERS

### PX STYLE FLUID CPLG - INCLUDES ELEMENT \*

|        |                                | Delay Fill |                                 |
|--------|--------------------------------|------------|---------------------------------|
| Part # | Part Description               | Part #     | Part Description                |
| 000423 | 11KCP X 1-5/8" FLUID CPLG-2517 | 000454     | 11CKCP X 1-5/8" FLUID CPLG-2517 |
| 000424 | 11KCP X 1-7/8" FLUID CPLG-2517 | 000455     | 11CKCP X 1-7/8" FLUID CPLG-2517 |
| 000426 | 12KCP X 1-5/8" FLUID CPLG-2517 | 000457     | 12CKCP X 1-5/8" FLUID CPLG-2517 |
| 000427 | 12KCP X 1-7/8" FLUID CPLG-2517 | 000458     | 12CKCP X 1-7/8" FLUID CPLG-2517 |
| 000429 | 13KCP X 1-7/8" FLUID CPLG-2517 | 000460     | 13CKCP X 1-7/8" FLUID CPLG-2517 |
| 000430 | 13KCP X 2-1/8" FLUID CPLG-2517 | 000461     | 13CKCP X 2-1/8" FLUID CPLG-2517 |
| 000431 | 13KCP X 2-3/8" FLUID CPLG-2517 | 000462     | 13CKCP X 2-3/8" FLUID CPLG-2517 |
| 000432 | 15KCP X 2-1/8" FLUID CPLG-3535 | 000463     | 15CKCP X 2-1/8" FLUID CPLG-3535 |
| 000433 | 15KCP X 2-3/8" FLUID CPLG-3535 | 000464     | 15CKCP X 2-3/8" FLUID CPLG-3535 |
| 000434 | 15KCP X 2-7/8" FLUID CPLG-3535 | 000465     | 15CKCP X 2-7/8" FLUID CPLG-3535 |
| 000435 | 17KCP X 2-3/8" FLUID CPLG-3535 | 000466     | 17CKCP X 2-3/8" FLUID CPLG-3535 |
| 000436 | 17KCP X 2-7/8" FLUID CPLG-3535 | 000467     | 17CKCP X 2-7/8" FLUID CPLG-3535 |
| 000437 | 17KCP X 3-3/8" FLUID CPLG-3535 | 000468     | 17CKCP X 3-3/8" FLUID CPLG-3535 |
| 000438 | 19KCP X 2-3/8" FLUID CPLG-3535 | 000469     | 19CKCP X 2-3/8" FLUID CPLG-3535 |
| 000439 | 19KCP X 2-7/8" FLUID CPLG-3535 | 000470     | 19CKCP X 2-7/8" FLUID CPLG-3535 |
| 000440 | 19KCP X 3-3/8" FLUID CPLG-3535 | 000471     | 19CKCP X 3-3/8" FLUID CPLG-3535 |
| 000441 | 21KCP X 2-3/8" FLUID CPLG-4040 | 000472     | 21CKCP X 2-3/8" FLUID CPLG-4040 |
| 000442 | 21KCP X 3-3/8" FLUID CPLG-4040 | 000473     | 21CKCP X 3-3/8" FLUID CPLG-4040 |
| 000443 | 24KCP X 2-3/8" FLUID CPLG-4040 | 000474     | 24CKCP X 2-3/8" FLUID CPLG-4040 |
| 000444 | 24KCP X 3-3/8" FLUID CPLG-4040 | 000475     | 24CKCP X 3-3/8" FLUID CPLG-4040 |
| 000445 | 24KCP X 3-7/8" FLUID CPLG-4040 | 000476     | 24CKCP X 3-7/8" FLUID CPLG-4040 |

Mounting of KCP and CKCP may require the motor shaft to be tapped.

Part #s include mechanism, element and coupling assembly.

\* TAPER-LOCK bushing ordered separately.

PT Component  
Reference Guide

Couplings

Clutches and Brakes

FLEXIDYNE

Fluid Couplings

TORQUE-TAMER

Bushings

|                                 |                            |                         |                                    |
|---------------------------------|----------------------------|-------------------------|------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT4-2 | NOMENCLATURE<br>PAGE PT4-3 | SELECTION<br>PAGE PT4-3 | SELECTION/DIMENSIONS<br>PAGE PT4-4 |
|---------------------------------|----------------------------|-------------------------|------------------------------------|



# SELECTION/DIMENSIONS

## Replacement Fuse Plugs

| Fluid Coupling Size (Range) | Part Number   | Temperature |
|-----------------------------|---------------|-------------|
| 6                           | <b>019161</b> | 290°F       |
| 6                           | <b>019162</b> | 350°F       |
| 7 - 12                      | <b>019163</b> | 290°F       |
| 7 - 12                      | <b>019164</b> | 350°F       |
| 13 - 24                     | <b>019165</b> | 290°F       |
| 13 - 24                     | <b>019166</b> | 350°F       |
| 27 - 34                     | <b>019167</b> | 290°F       |
| 27 - 34                     | <b>019168</b> | 350°F       |

|                                 |                            |                         |                                    |
|---------------------------------|----------------------------|-------------------------|------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT4-2 | NOMENCLATURE<br>PAGE PT4-3 | SELECTION<br>PAGE PT4-3 | SELECTION/DIMENSIONS<br>PAGE PT4-4 |
|---------------------------------|----------------------------|-------------------------|------------------------------------|

# CONTENTS

## TORQUE-TAMER™

|                                   |          |
|-----------------------------------|----------|
| <b>Features/Benefits</b> .....    | PT5-2    |
| <b>Specification</b> .....        | PT5-3    |
| <b>How To Order</b> .....         | PT5-3    |
| <b>Nomenclature</b> .....         | PT5-3    |
| <b>Selection/Dimensions</b> ..... | PT5-4    |
| Part Number Index .....           | INDEX-1  |
| Keyword Index .....               | INDEX-43 |



## FEATURES/BENEFITS

### TORQUE-TAMER

#### DODGE TORQUE-TAMER Clutches

Low cost overload protection that's a cinch to adjust. Intermittent shock loads or drive overload conditions can stress reducers to a point of premature failure. DODGE TORQUE-TAMER clutches provide a simple, economical solution. When an overload occurs, the TORQUE-TAMER clutch is designed to slip, protecting the valuable reducer and other components in the drive train. Once the overload is cleared, the TORQUE-TAMER clutch automatically picks up the load.

A DODGE TORQUE-TAMER clutch is easily set to the required slip-protection torque level, using standard wrenches.

#### QUALITY FEATURES

- Non-asbestos friction discs
- Long-life bushing

New keyed bushing will not slip on the hub. Provides improved bearing surface for sprocket to ride on during overload slip. NOTE: Because of the possibility of excessive heat build-up, the TORQUE-TAMER clutch is not recommended for continuous slip duty.

#### EXCLUSIVE "EASY SET" ADJUSTMENT

Torque adjustment is a simple matter, accomplished quickly! The need for hammer and block, brute strength and spanner wrenches is eliminated. No sweat. No wasted time.

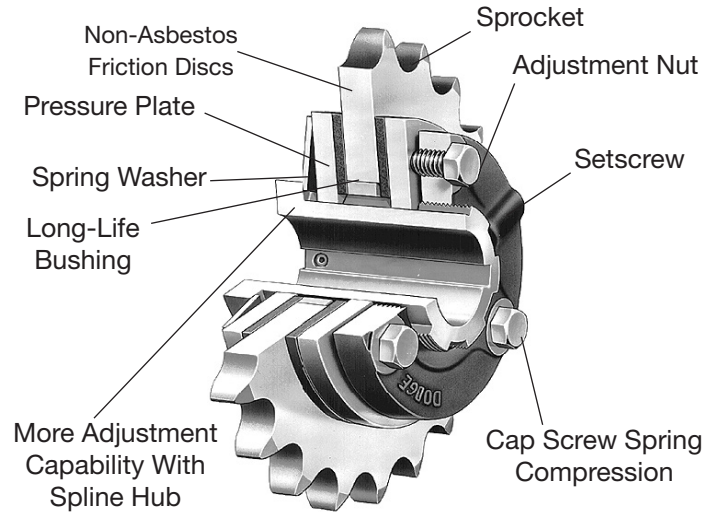
For maximum torque, tighten the adjusting nut to finger tight and use a small wrench to tighten the three cap screws until the heads bottom out. For less torque, loosen the cap screws and set screws. Then back off the adjusting nut from one to seven spline notches, depending on the torque desired. Then retighten set screw and cap screws. Please consult Instruction Manual (MN4038) for complete details. This Instruction Manual is available on [www.dodge-pt.com](http://www.dodge-pt.com).

#### AUTOMATIC RESET

The DODGE TORQUE-TAMER clutch gives machinery permanent protection against overloads during starting, reversing or driving-by slipping at the desired load.

When an overload occurs, the driven member slips between long-life, clutch-type friction discs. After slipping has started, it will continue at approximately 90% of the torque setting, due to the lower coefficient of friction when slipping, until the overload condition has been corrected. It resumes driving without resetting when the overload is relieved.

For speeds above 500 rpm please consult Dodge Engineering at 864-284-5700



#### HIGHER TORQUE RATINGS

Spring design provides higher torque ratings for No. 35 and No. 50 TORQUE-TAMER clutches. This results in more uniform coverage between minimum and maximum torque range of the TORQUE-TAMER clutch.

#### APPLICATION VERSATILITY

DODGE TORQUE-TAMER clutches may be used with stock or special sprockets, gears, sheaves, flange or other driven members. It is recommended that the rubbing sides of the driven member be ground to provide a smooth rubbing surface of 65 to 125 micro-inches.

Higher torque ratings can be obtained by the use of a second spring nested within the original spring. (See torque rating table on page PT5-4.)

#### MINIMUM MAINTENANCE

The DODGE TORQUE-TAMER clutch is simple in design, compact, efficient, and built for long life. It provides low cost torque limiting service for a wide variety of applications. No lubrication. . . minimum maintenance.

TORQUE-TAMER clutches are supplied complete with friction discs and one spring. The following are ordered separately:  
**SPROCKET**-Stock sizes shown on page PT5-6. Non-stock sizes can be furnished as reworked A-Plate sprockets listed in the sprocket section of the DODGE Engineering Catalog.  
**BUSHINGS**-Specify size and width and/or part no. as tabulated.  
**EXTRA SPRING**-Provides higher torque rating as tabulated. Second spring is nested into first spring.

PT Component  
Quick Reference

Couplings

Clutches and Brakes

FLEXIDYNE

Fluid Couplings

TORQUE-TAMER

Bushings

## TORQUE-TAMER

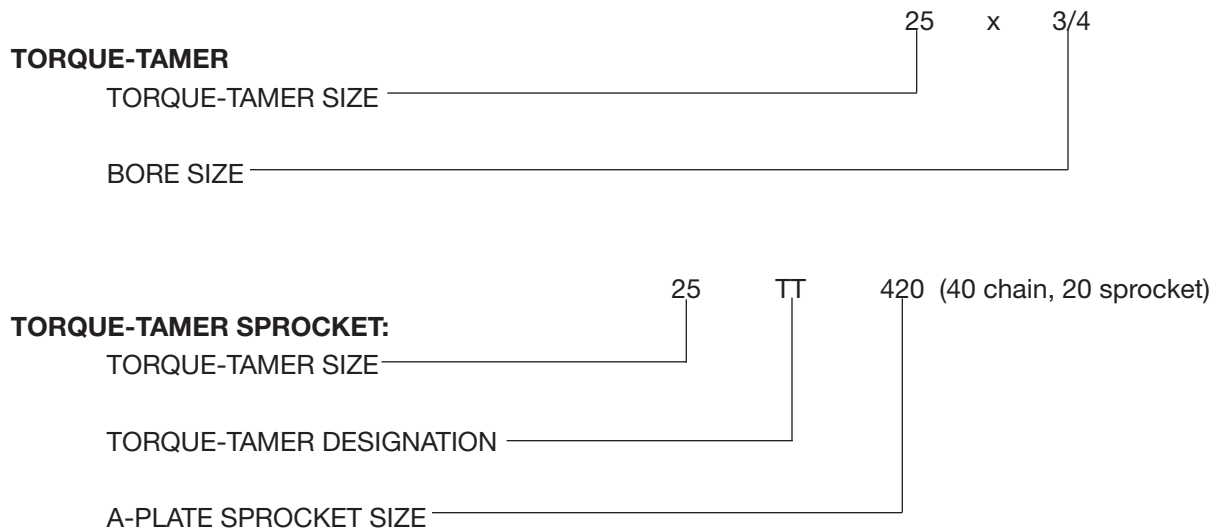
### SPECIFICATION

The DODGE TORQUE-TAMER is a protective device that is designed to slip when overloaded, thus protecting the valuable reducer and other components in the drive train. Once the overload is cleared, the TORQUE-TAMER clutch will automatically re-engage. No resetting is required.

### HOW TO ORDER

TORQUE-TAMER clutches are ordered by the size of the TORQUE-TAMER, the bore size of the unit, and the sprocket and bushing width required. The DODGE TORQUE-TAMER is supplied with the friction discs and one spring. The sprocket, bushings, and additional spring (if needed) must be ordered separately.

### NOMENCLATURE



# SELECTION/DIMENSIONS



## TORQUE-TAMER

**STEP 1:** Determine torque at which clutch should limit or slip.

$$T = \frac{HP \times 63025}{RPM} \times \text{Limit Factor}$$

Limit factor determines point at which TORQUE-TAMER should slip above nominal load.

**STEP 2:** Refer to Chart 1. Select the TORQUE-TAMER size that falls within the min./max torque range. Verify the max bore for the TORQUE-TAMER is within specification. This chart will also determine the number of springs required and the spline setting for the TORQUE-TAMER.

**STEP 3:** Refer to Chart 2 to verify the minimum number of sprocket teeth required for the TORQUE-TAMER sprocket. From Chart 2, also determine the bushing width required.

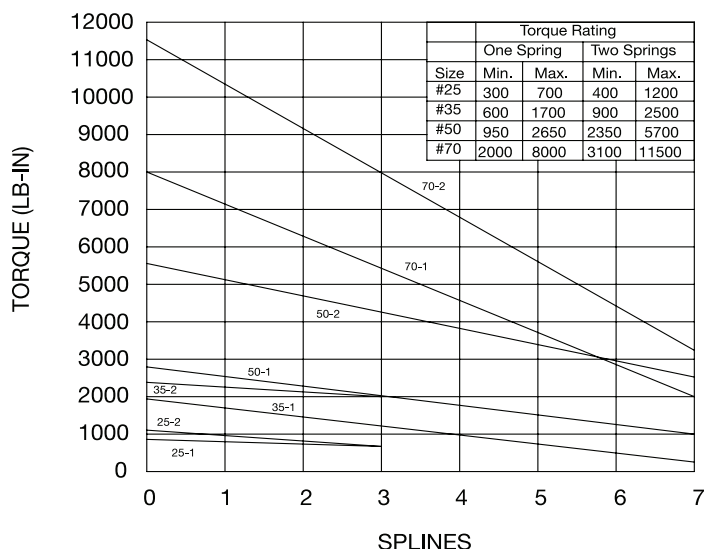
**EXAMPLE:** 3HP, RPM at TORQUE-TAMER 175, Needs TORQUE-TAMER to limit or slip at 150% of nominal torque.

- Limit factor is 150%/100%=1.5

$$T = \frac{3HP \times 63025}{175 \text{ RPM}} \times 1.5 = 1,620 \text{ lb-in}$$

- Select size from Chart 1. Minimum size is #35 TORQUE-TAMER. One spring will be sufficient, however, a second spring can be added for increased torque capability (should parameters of application required additional torque).

**Chart 1 -**



**Note**

Graph indicates approximate rated torque vs. number of splines adjusting nut is backed off from finger tight.

Numbers on calibration lines indicate TORQUE-TAMER model and quantity of compression springs. Example: 35-2 is a model 35 TORQUE-TAMER with 2 springs.

- Check Chart 2 for maximum bore and minimum sprocket teeth and bushing requirements.

**CHART 2 - Minimum Allowable Sprocket Teeth• & Width of Bushing Required & Maximum Bore Capability**

| TORQUE-TAMER Size | Data:               | Chain Size |           |           |           |           |           |            |            |            |            | Max Bore |             |
|-------------------|---------------------|------------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|----------|-------------|
|                   |                     | #35 Chain  | #41 Chain | #40 Chain | #50 Chain | #60 Chain | #80 Chain | #100 Chain | #120 Chain | #140 Chain | #160 Chain | Std. KW† | Shallow KW† |
| 25                | Minimum # Teeth     | 25         | 19▲       | 19▲       | 16▲       | .....     | .....     | .....      | .....      | .....      | .....      | 7/8      | 1           |
|                   | Bushing Width Req'd | 1/8        | 1/8       | 1/4       | 1/4       | .....     | .....     | .....      | .....      | .....      | .....      |          |             |
| 35                | Minimum # Teeth     | 34         | 26        | 26        | 21        | 18        | 15        | .....      | .....      | .....      | .....      | 1-3/16   | 1-1/4       |
|                   | Bushing Width Req'd | 1/8        | 1/8       | 1/4       | 1/4       | 3/8       | 3/8       | .....      | .....      | .....      | .....      |          |             |
| 50                | Minimum # Teeth     | 48         | 35        | 35        | 30        | 25        | 19        | 17         | .....      | .....      | .....      | 1-3/16   | 2           |
|                   | Bushing Width Req'd | 1/8        | 1/8       | 1/4       | 1/4       | 3/8       | 3/8       | 1/2***     | .....      | .....      | .....      |          |             |
| 70                | Minimum # Teeth     | .....      | .....     | 48        | 40        | 34        | 26        | 21         | 18         | 16         | 14         | 2-3/4    | 3           |
|                   | Bushing Width Req'd | .....      | .....     | 1/4       | 1/4       | 3/8       | 3/8       | 1/2        | 3/4*       | 3/4*       | 1**        |          |             |

- Minimum number of teeth on sprocket which will permit chain to clear friction disc
- ▲ 20 teeth minimum recommended. Minimal clearance of 19 teeth may shorten life

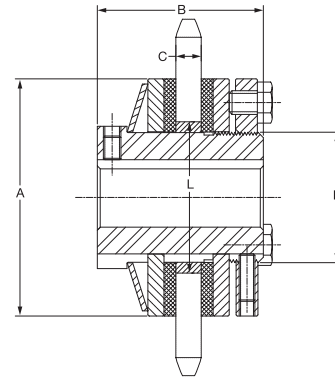
- \* Use two 3/8" wide bushings
- \*\* Use two 1/2" wide bushings
- † Keyway to be cut central with threaded spline. For standard KW sizes refer to page PT1-74.
- \*\*\* Use two 1/4" wide bushings

|                                 |  |  |  |
|---------------------------------|--|--|--|
| FEATURES/BENEFITS<br>PAGE PT5-2 | SPECIFICATION/HOW TO ORDER<br>PAGE PT5-3 |  |  |
|---------------------------------|--|--|--|

# SELECTION/DIMENSIONS



## TORQUE-TAMER



**TORQUE-TAMER Clutch Dimensions**

| TORQUE-TAMER Size | Avg. Wt. | A     | B      | C    |       | K                                 | L                                 | Max. Bore |              |
|-------------------|----------|-------|--------|------|-------|-----------------------------------|-----------------------------------|-----------|--------------|
|                   |          |       |        | Min. | Max.  | +0.000<br>-0.002<br>Spline<br>O D | +0.003<br>-0.000<br>Spkt.<br>Bore | Std. Key* | Shallow Key* |
| 25                | 1        | 2-1/2 | 1-3/4  | 1/8  | 11/32 | 1.368                             | 1.628                             | 7/8       | 1            |
| 35                | 2.5      | 3-1/2 | 2-7/16 | 1/8  | 5/8   | 1.675                             | 2.003                             | 1-3/16    | 1-1/4        |
| 50                | 6        | 5     | 2-7/8  | 1/8  | 5/8   | 2.625                             | 3.005                             | 1-3/4     | 2            |
| 70                | 18       | 7     | 3-7/8  | 1/4  | 1-1/4 | 3.811                             | 4.194                             | 2-3/4     | 3            |

\* Keyway to be cut central with threaded spline.

### Stock TORQUE-TAMER Clutches: Finished Bores & Reborable

#### Stock TORQUE-TAMER Clutches w/Finished Bore & Keyway

#### Reborable TORQUE-TAMER Clutches

| TORQUE-TAMER Size | Finished Bore |             | Reborable          |             |              |             |
|-------------------|---------------|-------------|--------------------|-------------|--------------|-------------|
|                   | Bore          | Part Number | Bore (No KW & 1 ▲) | Part Number | Max Bore     |             |
|                   |               |             |                    |             | Standard KW* | Shallow KW* |
| 25                | 1/2           | 096034      | 1/2                | 096033      | 7/8          | 1           |
|                   | 5/8           | 096035      |                    |             |              |             |
|                   | 3/4           | 096036      |                    |             |              |             |
|                   | 7/8           | 096037      |                    |             |              |             |
| 35                | 3/4           | 096008      | 3/4                | 096010      | 1-3/16       | 1-1/4       |
|                   | 7/8           | 096009      |                    |             |              |             |
|                   | 1             | 096011      |                    |             |              |             |
|                   | 1-1/8         | 096014      |                    |             |              |             |
|                   | 1-3/16        | 096015      |                    |             |              |             |
| 50                | 1-1/4         | 096018      | 1                  | 096017      | 1-3/4        | 2           |
|                   | 1-3/8         | 096019      |                    |             |              |             |
|                   | 1-7/16        | 096020      |                    |             |              |             |
|                   | 1-1/2         | 096021      |                    |             |              |             |
|                   | 1-1/2         | 096022      |                    |             |              |             |
|                   | 1-5/8         | 096023      |                    |             |              |             |
|                   | 1-7/16        | 096028      |                    |             |              |             |
| 70                | 1-1/2         | 096029      | 1-3/8              | 096027      | 2-3/4        | 3           |
|                   | 1-3/4         | 096030      |                    |             |              |             |
|                   | 1-15/16       | 096031      |                    |             |              |             |
|                   | 2             | 096032      |                    |             |              |             |
|                   | 2-3/16        | 096038      |                    |             |              |             |
|                   | 2-7/16        | 096016      |                    |             |              |             |

▲ With standard Keyway and (1) Setscrew.

\* Keyway to be cut central with threaded spline. For standard KW sizes refer to page PT1-74.

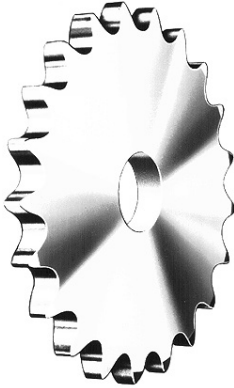
|                                 |  |  |  |
|---------------------------------|--|--|--|
| FEATURES/BENEFITS<br>PAGE PT5-2 | SPECIFICATION/HOW TO ORDER<br>PAGE PT5-3 |  |  |
|---------------------------------|--|--|--|



## SELECTION/DIMENSIONS

### TORQUE-TAMER TORQUE-TAMER

#### Sprocket



Stock TORQUE-TAMER sprockets are bored to fit TORQUE-TAMER clutches. Sprocket faces are machined smooth and parallel to provide proper interface with friction discs. Rubbing sides are micro ground to 65 to 125 micro-inches.

Standard A-Plate sprockets can also be reworked for use with TORQUE-TAMER clutches. Refer to DODGE List price Book for modifications charges.

### Stock TORQUE-TAMER Sprockets Bored and Micro Ground

| #25 TORQUE-TAMER |           |          |         |                   | #35 TORQUE-TAMER |           |          |         |                   |
|------------------|-----------|----------|---------|-------------------|------------------|-----------|----------|---------|-------------------|
| Chain Size       | No. Teeth | Descrip. | Part No | Bushing Part No * | Chain Size       | No. Teeth | Descrip. | Part No | Bushing Part No * |
| 40               | 19        | 25TT419  | 096135  | 096051            | 40               | 26        | 35TT426  | 096150  | 096056            |
| 40               | 20        | 25TT420  | 096136  | 096051            | 50               | 21        | 35TT521  | 096151  | 096056            |
| 40               | 21        | 25TT421  | 096137  | 096051            | 50               | 22        | 35TT522  | 096152  | 096056            |
| 40               | 23        | 25TT423  | 096138  | 096051            | 50               | 23        | 35TT523  | 096153  | 096056            |
| 50               | 16        | 25TT516  | 096139  | 096051            | 50               | 25        | 35TT525  | 096154  | 096056            |
| 50               | 17        | 25TT517  | 096140  | 096051            | 60               | 18        | 35TT618  | 096155  | 096057            |
| 50               | 18        | 25TT518  | 096141  | 096051            | 60               | 19        | 35TT619  | 096156  | 096057            |
| 50               | 19        | 25TT519  | 096142  | 096051            | 60               | 20        | 35TT620  | 096157  | 096057            |
| 50               | 21        | 25TT521  | 096143  | 096051            | 60               | 21        | 35TT621  | 096158  | 096057            |
| 50               | 23        | 25TT523  | 096144  | 096051            | 60               | 23        | 35TT623  | 096159  | 096057            |
| #50 TORQUE-TAMER |           |          |         |                   | #70 TORQUE-TAMER |           |          |         |                   |
| Chain Size       | No. Teeth | Descrip. | Part No | Bushing Part No * | Chain Size       | No. Teeth | Descrip. | Part No | Bushing Part No * |
| 50               | 30        | 50TT530  | 096165  | 096063            | 60               | 35        | 70TT635  | 096175  | 096071            |
| 60               | 25        | 50TT625  | 096166  | 096064            | 80               | 26        | 70TT826  | 096176  | 096071            |
| 60               | 26        | 50TT626  | 096167  | 096064            | 80               | 27        | 70TT827  | 096177  | 096071            |
| 80               | 19        | 50TT819  | 096168  | 096064            | 100              | 21        | 70TT1021 | 096178  | 096072            |
| 80               | 20        | 50TT820  | 096169  | 096064            | 100              | 22        | 70TT1022 | 096179  | 096072            |
| 80               | 21        | 50TT821  | 096170  | 096064            |                  |           |          |         |                   |
| 80               | 23        | 50TT823  | 096171  | 096064            |                  |           |          |         |                   |

\* Bushing Ordered Separately

### TORQUE-TAMER Clutch Extra Items

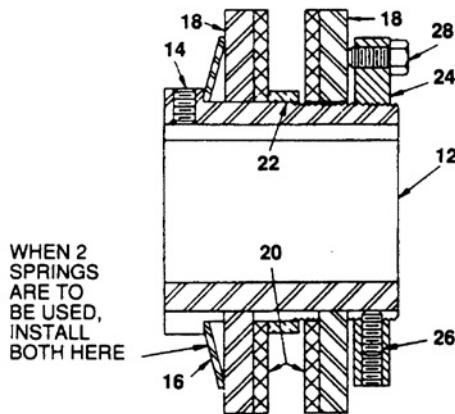
| TORQUE-TAMER Size | Part Number for Bushing Width of: |        |        |        | Part Number for Extra Spring |
|-------------------|-----------------------------------|--------|--------|--------|------------------------------|
|                   | 1/8"                              | 1/4"   | 3/8"   | 1/2"   |                              |
| 25                | 096050                            | 096051 | .....  | .....  | 096039                       |
| 35                | 096055                            | 096056 | 096057 | .....  | 096041                       |
| 50                | 096062                            | 096063 | 096064 | .....  | 096042                       |
| 70                | .....                             | 096070 | 096071 | 096072 | 096043                       |
| Reference #       | 22                                |        |        |        | 16                           |

### TORQUE-TAMER Replacement Parts

| Reference# | No. Req'd | Name of Part               | Part Numbers |         |         |         |
|------------|-----------|----------------------------|--------------|---------|---------|---------|
|            |           |                            | Size 25      | Size 35 | Size 50 | Size 70 |
| 12         | 1         | Hub Assembly               | N/A          | N/A     | N/A     | N/A     |
| 14         | 1         | Hub Set Screw              | N/A          | N/A     | N/A     | N/A     |
| 18         | 2         | Pressure Plate             | 391371       | 391375  | 391379  | 391383  |
| 20         | 1         | • Friction Discs           | 096065       | 096066  | 096067  | 096068  |
| 24         | 1         | Adjusting Nut Assembly     | 391372       | 391376  | 391380  | 391384  |
| 26         | 1         | ▲ Adjusting Nut Set Screws | .....        | .....   | .....   | .....   |
| 28         | 3         | ▲ Tension Screw            | 391373       | 391377  | 391381  | 391385  |

• Sold in packs of 2 only

▲ Included in preceding assembly



WHEN 2 SPRINGS ARE TO BE USED, INSTALL BOTH HERE

# CONTENTS

## Bushings and Hubs

### TAPER-LOCK® Bushings

|                          |        |
|--------------------------|--------|
| Features/Benefits .....  | PT6-2  |
| Nomenclature.....        | PT6-2  |
| Specification:           |        |
| Dimensions .....         | PT6-3  |
| Stock Bore.....          | PT6-5  |
| Reborable.....           | PT6-11 |
| <br>                     |        |
| Metric Bores.....        | PT6-12 |
| Related Products:        |        |
| TAPER-LOCK Hubs.....     | PT6-13 |
| TAPER-LOCK Adapters..... | PT6-15 |

### QD Bushings

|                         |        |
|-------------------------|--------|
| Features/Benefits ..... | PT6-16 |
| Specifications          |        |
| Dimensions .....        | PT6-17 |
| Stock Bore .....        | PT6-18 |
| Metric Bore .....       | PT6-24 |
| Related Products        |        |
| QD Hubs .....           | PT6-26 |

### GRIP TIGHT™ Bushings

|                         |        |
|-------------------------|--------|
| Features/Benefits ..... | PT6-28 |
| Specification:          |        |
| Dimensions .....        | PT6-29 |

|                     |          |
|---------------------|----------|
| Part Index .....    | INDEX-1  |
| Keyword Index ..... | INDEX-43 |



## FEATURES/BENEFITS

### TAPER-LOCK Bushings



- Clean, Compact Design
- An Industry Standard for over 40 years
- Easy-on, Easy-off
- 8° Taper-Grips Tight, Holds Tight, Runs True, No Wobble
- Total System Concept: Bushings, Hubs, Adapters and Products
- World-Wide Acceptance and Availability
- Flush Mounting-No Protruding Parts
- Diamond **D**® Integral Key for Added Value and Convenience

#### DODGE TAPER-LOCK BUSHING WITH INTEGRAL KEY

- Popular bore sizes, 1008 thru 2517
- Capitalizes on proven DODGE sintered steel technology
- Convenience: No more fumbling with a separate key and setscrew over the key. Integral key cannot work loose or fall out.
- More Secure fit: Clearances between key and bushing are automatically eliminated, providing a more precise fit. Provides full key even in maximum bore sizes. . . No more "shallow keyseat" compromise.
- Cost Reduction: Eliminates labor cost associated with installing key and separate key, and associated inventory expense.
- Engineered and Tested Design: Integral key concept thoroughly analyzed, including computerized Finite Element Analysis (FEA), for stress evaluation. Extensive laboratory testing included static and dynamic loading on customized machinery. Results demonstrated in successful field applications.

TAPER-LOCK Integral Key Bushing

### Simple Mounting



#### Easy On

- Insert bushing into sprocket
- Match holes (not threads).
- Put screws into holes that are farthest apart
- Slip entire unit onto shaft
- Set drive alignment and tighten screws



#### Easy Off

- Take both screws out entirely
- Insert one screw into hole that is threaded in the bushing only
- Use as jackscrew to disengage bushing

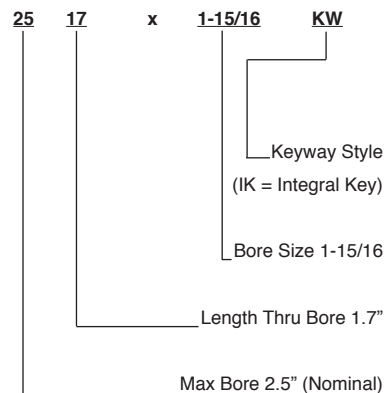


### IMPORTANT!

Do not use lubricants or anti-seize compounds on tapered bore, bushing suitcase, shaft or screws. Complete installation instructions are available on [www.dodge-pt.com](http://www.dodge-pt.com).

#### Example Nomenclature

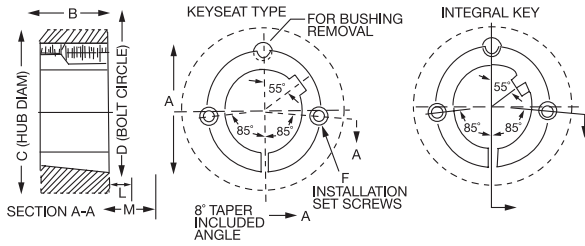
#### TAPER-LOCK Bushing





# SPECIFICATION

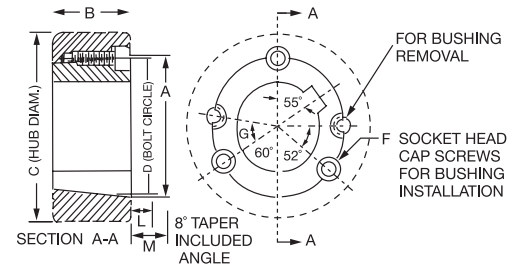
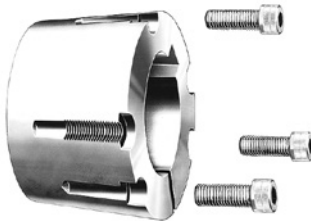
## TAPER-LOCK Bushings - Dimensions



### Dimensions For 1008 Thru 3030 TAPER-LOCK Bushings

| Bush No. | Ratings (LB-IN)   |                              | A    | B    | C Hub Dia ■ |       |      | D | F †         |             | L ●         |              | M ★         |  |
|----------|-------------------|------------------------------|------|------|-------------|-------|------|---|-------------|-------------|-------------|--------------|-------------|--|
|          | Torque Capacity ◆ | Wrench Torque Install Screws |      |      | CL 30       | Steel | Qty  |   | Size        | Std Hex Key | Short Key ▲ | Std. Hex Key | Short Key ▲ |  |
| 1008     | 1200              | 55                           | 1.39 | 0.87 | 2.19        | 1.94  | 1.33 | 2 | 1/4 X 1/2   | 1.13        | 0.63        | 1.25         | 0.75        |  |
| 1108     | 1300              | 55                           | 1.51 | 0.87 | 2.31        | 2.06  | 1.45 | 2 | 1/4 X 1/2   | 1.13        | 0.63        | 1.25         | 0.75        |  |
| 1210     | 3600              | 175                          | 1.87 | 1.00 | 3.25        | 2.88  | 1.75 | 2 | 3/8 X 5/8   | 1.38        | 0.81        | 1.63         | 1.10        |  |
| 1215     | 3550              | 175                          | 1.87 | 1.50 | 2.88        | 2.63  | 1.75 | 2 | 3/8 X 5/8   | 1.38        | 0.81        | 1.63         | 1.10        |  |
| 1310     | 3850              | 175                          | 2.00 | 1.00 | 3.38        | 3.00  | 1.88 | 2 | 3/8 X 5/8   | 1.38        | 0.81        | 1.63         | 1.10        |  |
| 1610     | 4300              | 175                          | 2.25 | 1.00 | 3.63        | 3.25  | 2.13 | 2 | 3/8 X 5/8   | 1.38        | 0.81        | 1.63         | 1.10        |  |
| 1615     | 4300              | 175                          | 2.25 | 1.50 | 3.25        | 3.00  | 2.13 | 2 | 3/8 X 5/8   | 1.38        | 0.81        | 1.63         | 1.10        |  |
| 2012     | 7150              | 280                          | 2.75 | 1.25 | 4.38        | 3.88  | 2.63 | 2 | 7/16 X 7/8  | 1.56        | 0.94        | 2.00         | 1.38        |  |
| 2517     | 11600             | 430                          | 3.38 | 1.75 | 4.88        | 4.38  | 3.25 | 2 | 1/2 X 1     | 1.63        | 1.00        | 2.25         | 1.63        |  |
| 2525     | 11300             | 430                          | 3.38 | 2.50 | 4.50        | 4.25  | 3.25 | 2 | 1/2 X 1     | 1.63        | 1.00        | 2.25         | 1.63        |  |
| 3020     | 24000             | 800                          | 4.25 | 2.00 | 6.25        | 5.63  | 4.00 | 2 | 5/8 X 1-1/4 | 1.81        | 1.19        | 2.69         | 2.10        |  |
| 3030     | 24000             | 800                          | 4.25 | 3.00 | 5.75        | 5.38  | 4.00 | 2 | 5/8 X 1-1/4 | 1.81        | 1.19        | 2.69         | 2.10        |  |

### 3535 thru 5050 Size



### Dimensions For 3525 Thru 5050 TAPER-LOCK Bushings

| Bush No. | Ratings (LB-IN)   |                              | A    | B    | C Hub Dia ■ |       |      | D | F †         |             | G    | L ●         |              | M ★         |  |
|----------|-------------------|------------------------------|------|------|-------------|-------|------|---|-------------|-------------|------|-------------|--------------|-------------|--|
|          | Torque Capacity ◆ | Wrench Torque Install Screws |      |      | CL 30       | Steel | Qty  |   | Size        | Std Hex Key |      | Short Key ▲ | Std. Hex Key | Short Key ▲ |  |
| 3525     | 44800             | 1000                         | 5.00 | 2.50 | 7.00        | 6.50  | 4.83 | 3 | 1/2 X 1-1/2 | 39          | 2.00 | 1.31        | 3.38         | 2.69        |  |
| 3535     | 44800             | 1000                         | 5.00 | 3.50 | 7.00        | 6.50  | 4.83 | 3 | 1/2 X 1-1/2 | 39          | 2.00 | 1.31        | 3.38         | 2.69        |  |
| 4030     | 77300             | 1700                         | 5.75 | 3.00 | 8.50        | 7.75  | 5.54 | 3 | 5/8 X 1-3/4 | 39          | 2.39 | 1.63        | 4.13         | 3.38        |  |
| 4040     | 77300             | 1700                         | 5.75 | 4.00 | 8.50        | 7.75  | 5.54 | 3 | 5/8 X 1-3/4 | 40          | 2.39 | 1.63        | 4.13         | 3.38        |  |
| 4535     | 110000            | 2450                         | 6.38 | 3.50 | 9.50        | 8.75  | 6.13 | 3 | 3/4 X 2     | 40          | 2.63 | 1.94        | 4.75         | 4.10        |  |
| 4545     | 110000            | 2450                         | 6.38 | 4.50 | 9.50        | 8.75  | 6.13 | 3 | 3/4 X 2     | 40          | 2.63 | 1.94        | 4.75         | 4.10        |  |
| 5040     | 126000            | 3100                         | 7.00 | 4.00 | 10.50       | 9.50  | 6.72 | 3 | 7/8 X 2-1/4 | 37          | 2.81 | 2.31        | 5.25         | 4.81        |  |
| 5050     | 126000            | 3100                         | 7.00 | 5.00 | 10.50       | 9.50  | 6.72 | 3 | 7/8 X 2-1/4 | 37          | 2.81 | 2.31        | 5.25         | 4.81        |  |

**Note:** For dimensions required for machining hubs, consult factory.

■ Hub diameter required depends on the application.  
Hub diameter shown is based on 30,000 P.S.I. minimum ultimate tensile strength.

◆ Important: refer to service factor information on page PT6-4.

● Space required to tighten bushing. Also space required to loosen screws to permit removal of hub by puller.

★ Space required to remove bushing using jackscrews-no puller required

▲ Standard hex key cut to minimum usable length.

† Use in position shown in drawing above for tightening bushing on shaft. When loosening bushing remove screws and use all except one in the holes. other

**Note: Installation and maintenance instructions for Dodge products available at [www.dodge-pt.com](http://www.dodge-pt.com)**

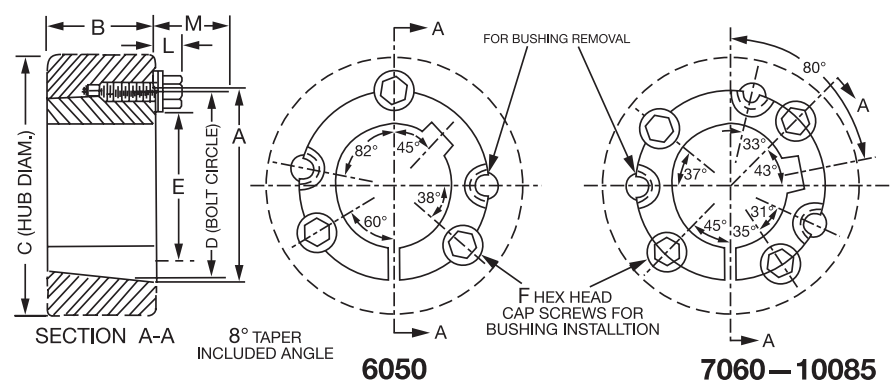
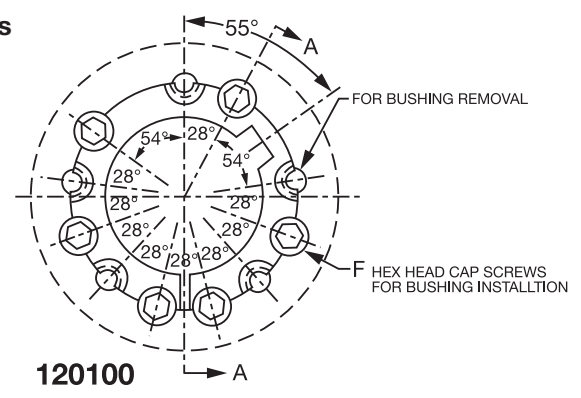
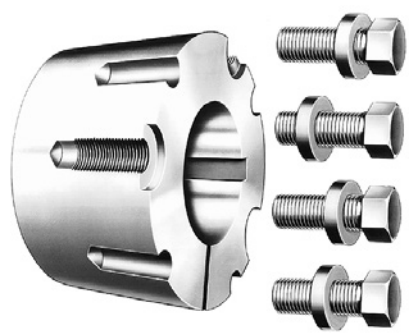
|                                     |                                 |                            |                            |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|
| T-L FEATURES/BENEFITS<br>PAGE PT6-2 | T-L SPECIFICATION<br>PAGE PT6-3 | QD BUSHINGS<br>PAGE PT6-16 | GT BUSHINGS<br>PAGE PT6-28 |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|



# SPECIFICATION

## TAPER-LOCK Bushings - Dimensions

6050 thru 120100 Sizes



### Dimensions For 6050 Thru 120100 TAPER-LOCK Bushings

| Bush No. | Ratings (LB-IN) |                              | A     | B     | C Hub Dia |       | D     | E     | F   |               | L    | M    |
|----------|-----------------|------------------------------|-------|-------|-----------|-------|-------|-------|-----|---------------|------|------|
|          | Torque Capacity | Wrench Torque Install Screws |       |       | CL 30     | Steel |       |       | Qty | Size          |      |      |
| 6050     | 282000          | 7820                         | 9.25  | 5.00  | 15.50     | 13.50 | 9.00  | 6.75  | 3   | 1-1/4 X 3-1/2 | 1.63 | 4.38 |
| 7060     | 416000          | 7820                         | 10.25 | 6.00  | 17.00     | 14.80 | 10.00 | 7.75  | 4   | 1-1/4 X 3-1/2 | 1.63 | 4.38 |
| 8065     | 456000          | 7820                         | 11.25 | 6.50  | 17.50     | 15.50 | 11.00 | 8.75  | 4   | 1-1/4 X 3-1/2 | 1.63 | 4.38 |
| 10085    | 869000          | 13700                        | 14.75 | 8.50  | 22.00     | 19.50 | 14.50 | 11.75 | 4   | 1-1/2 X 4-1/4 | 2.00 | 5.38 |
| 120100   | 1520000         | 13700                        | 17.25 | 10.00 | 26.00     | 23.00 | 17.00 | 14.25 | 6   | 1-1/2 X 4-1/4 | 2.00 | 5.38 |

Note: For dimensions required for machining hubs, consult factory.

- Hub diameter required depends on the application. Hub diameter shown is based on 30,000 P.S.I. minimum ultimate tensile strength.
- † Use in position shown in drawing above for tightening bushing on shaft. When loosening bushing remove screws and use all except one in the other holes.
- Space required to tighten bushing. Also space required to loosen screws to permit removal of hub by puller.
- ★ Space required to loosen bushing using screws as jackscrews - no puller required.
- ◆ Peak torque loads must not exceed torque capacity rating shown. Capacity values shown are for light starting and steady running conditions. For more severe duty, divide torque capacity by service factor suggested in following table.

| Service Factor | Type of Loading  |
|----------------|--|
| 1.00           | Light Starting & Steady Running                                    |
| 1.50           | Light Starting & Uneven Running                                    |
| 2.00           | Fairly Heavy Starting & Steady Or Uneven Running                   |
| 2.50           | Light or Heavy Starting & Moderate Shock Running                   |
| 3.00           | Light or Heavy Starting & Severe Shock Running, or Reversing Loads |



# SPECIFICATION

## TAPER-LOCK Bushings - Stock Bore

| TL Bush Size | Bore      | P/N Integral Key | P/N Keyway | WT.       | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|--------------|-----------|------------------|------------|-----------|----------------|------------------|--------------|
| 1008         | 1/2"      |                  | 119176     | 0.3       | 1/8 x 1/16     | 1/8 x 1/16       | 1/8 x 1/8    |
|              | 9/16"     |                  | 119177     | 0.3       |                |                  |              |
|              | 5/8"      | 119180           | 117073     | 0.3       | 3/16 x 3/32    | 3/16 x 3/32      | 3/16 x 3/16  |
|              | 11/16"    |                  | 119179     | 0.2       |                |                  |              |
|              | 3/4"      |                  | 117150     | 0.2       |                |                  |              |
|              | 13/16"    |                  | 119181     | 0.2       |                |                  |              |
|              | 7/8"      |                  | 117074     | 0.2       |                |                  |              |
|              | 15/16" #  | 119184           | 119183     | 0.2       | 1/4 x 1/16     | 1/4 x 1/8        | 1/4 x 3/16 Δ |
|              | 1" #      |                  | 117151     | 0.2       |                |                  |              |
|              | 14MM      |                  | 119565     | 0.3       | 5 x 2.3MM      | 5 x 5.3MM        | 5 x 5MM      |
|              | 16MM      |                  | 119566     | 0.3       |                |                  |              |
|              | 18MM      |                  | 119575     | 0.3       |                |                  |              |
|              | 19MM      |                  | 119569     | 0.3       |                |                  |              |
|              | 20MM      |                  | 119576     | 0.3       |                |                  |              |
| 22MM         |           | 119577           | 0.2        | 6 x 2.8MM | 6 x 3.5MM      | 6 x 6MM          |              |
| 24MM         |           | 119567           | 0.2        |           |                |                  |              |
| 25MM         |           | 119568           | 0.2        |           |                |                  |              |
| 1108         | 1/2"      |                  | 119365     | 0.3       | 1/8 x 1/4      | 1/8 x 1/4        | 1/8 x 1/8    |
|              | 9/16"     |                  | 119366     | 0.3       |                |                  |              |
|              | 5/8"      | 119367           | 117075     | 0.3       | 3/16 x 3/32    | 3/16 x 3/32      | 3/16 x 3/16  |
|              | 11/16"    |                  | 119368     | 0.2       |                |                  |              |
|              | 3/4"      |                  | 117152     | 0.2       |                |                  |              |
|              | 13/16"    |                  | 119370     | 0.2       |                |                  |              |
|              | 7/8"      |                  | 117076     | 0.2       |                |                  |              |
|              | 15/16"    |                  | 119372     | 0.2       | 1/4 x 1/8      | 1/4 x 1/8        | 1/4 x 1/4    |
|              | 1"        |                  | 117153     | 0.2       |                |                  |              |
|              | 1-1/16" # |                  | 119374     | 0.2       | 1/4 x 1/16     | 1/4 x 1/8        | 1/4 x 3/16 Δ |
|              | 1-1/8" #  |                  | 117077     | 0.1       |                |                  |              |
|              | 14MM      |                  | 119651     | 0.3       | 5 x 2.3MM      | 5 x 5.3MM        | 5 x 5MM      |
|              | 16MM      |                  | 119652     | 0.3       |                |                  |              |
|              | 18MM      |                  | 119653     | 0.3       |                |                  |              |
|              | 19MM      |                  | 119570     | 0.3       |                |                  |              |
|              | 20MM      |                  | 119579     | 0.3       |                |                  |              |
|              | 22MM      |                  | 119580     | 0.3       | 6 x 2.8MM      | 6 x 3.5MM        | 6 x 6MM      |
|              | 24MM      |                  | 119581     | 0.2       |                |                  |              |
| 25MM         |           | 119582           | 0.2        |           |                |                  |              |
| 1210         | 1/2"      |                  | 119191     | 0.6       | 1/8 x 1/16     | 1/8 x 1/16       | 1/8 x 1/8    |
|              | 9/16"     |                  | 119192     | 0.6       |                |                  |              |
|              | 5/8"      | 119195           | 117078     | 0.6       | 3/16 x 3/32    | 3/16 x 3/32      | 3/16 x 3/16  |
|              | 11/16"    |                  | 119194     | 0.5       |                |                  |              |
|              | 3/4"      |                  | 117154     | 0.5       |                |                  |              |
|              | 13/16"    |                  | 119196     | 0.5       |                |                  |              |
|              | 7/8"      |                  | 117079     | 0.5       |                |                  |              |
|              | 15/16"    | 119199           | 119198     | 0.5       | 1/4 x 1/8      | 1/4 x 1/8        | 1/4 x 1/4    |
|              | 1"        |                  | 117155     | 0.5       |                |                  |              |
|              | 1-1/16"   | 119201           | 119200     | 0.4       |                |                  |              |
|              | 1-1/8"    |                  | 117080     | 0.4       |                |                  |              |
|              | 1-3/16"   |                  | 117156     | 0.4       |                |                  |              |
|              | 1-1/4"    |                  | 117157     | 0.4       |                |                  |              |
|              | 14MM      |                  | 119583     | 0.6       | 5 x 2.3MM      | 5 x 5.3MM        | 5 x 5MM      |
|              | 16MM      |                  | 119654     | 0.6       |                |                  |              |
|              | 18MM      |                  | 119584     | 0.5       |                |                  |              |
|              | 19MM      |                  | 119571     | 0.5       | 6 x 2.8MM      | 6 x 3.5MM        | 6 x 6MM      |
|              | 20MM      |                  | 119585     | 0.5       |                |                  |              |
| 22MM         |           | 119655           | 0.5        |           |                |                  |              |
| 24MM         |           | 119586           | 0.5        |           |                |                  |              |
| 25MM         |           | 119587           | 0.4        | 8 X 3.3MM | 8 X 4MM        | 8 X 7MM          |              |
| 28MM         |           | 119588           | 0.4        |           |                |                  |              |
| 30MM         |           | 119589           | 0.4        |           |                |                  |              |
| 32MM         |           | 119590           | 0.4        |           |                |                  |              |
|              |           |                  |            |           |                |                  |              |

Δ Key furnished for these sizes ONLY

+ These sizes are STEEL

# Refer to torque capacity ratings on page PT6-3. If service factor of 2.0 or greater is required consult DODGE

| TL Bush Size | Bore      | P/N Integral Key | P/N Keyway | WT.        | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|--------------|-----------|------------------|------------|------------|----------------|------------------|--------------|
| 1215         | 1/2"      |                  | 119001     | 0.9        | 1/8 x 1/16     | 1/8 x 1/16       | 1/8 x 1/8    |
|              | 9/16"     |                  | 119002     | 0.9        |                |                  |              |
|              | 5/8"      |                  | 119003     | 0.8        | 3/16 x 3/32    | 3/16 x 3/32      | 3/16 x 3/16  |
|              | 11/16"    |                  | 119004     | 0.8        |                |                  |              |
|              | 3/4"      |                  | 119005     | 0.8        |                |                  |              |
|              | 13/16"    |                  | 119006     | 0.8        |                |                  |              |
|              | 7/8"      |                  | 119007     | 0.8        |                |                  |              |
|              | 15/16"    |                  | 119008     | 0.8        | 1/4 x 1/8      | 1/4 x 1/8        | 1/4 x 1/4    |
|              | 1"        |                  | 119009     | 0.7        |                |                  |              |
|              | 1-1/16"   |                  | 119010     | 0.6        |                |                  |              |
|              | 1-1/8"    |                  | 119011     | 0.6        |                |                  |              |
|              | 1-3/16"   |                  | 119012     | 0.5        |                |                  |              |
|              | 1-1/4"    |                  | 119013     | 0.5        |                |                  |              |
|              |           |                  |            |            |                |                  |              |
| 1310         | 1/2"      |                  | 119390     | 0.7        | 1/8 x 1/16     | 1/8 x 1/16       | 1/8 x 1/8    |
|              | 9/16"     |                  | 119391     | 0.7        |                |                  |              |
|              | 5/8"      |                  | 119392     | 0.7        | 3/16 x 3/32    | 3/16 x 3/32      | 3/16 x 3/16  |
|              | 11/16"    |                  | 119393     | 0.7        |                |                  |              |
|              | 3/4"      |                  | 119394     | 0.7        |                |                  |              |
|              | 13/16"    |                  | 119395     | 0.7        |                |                  |              |
|              | 7/8"      |                  | 119396     | 0.7        |                |                  |              |
|              | 15/16"    |                  | 119397     | 0.6        | 1/4 x 1/8      | 1/4 x 1/8        | 1/4 x 1/4    |
|              | 1"        |                  | 119398     | 0.6        |                |                  |              |
|              | 1-1/16"   |                  | 119399     | 0.6        |                |                  |              |
|              | 1-1/8"    |                  | 119400     | 0.6        |                |                  |              |
|              | 1-3/16"   |                  | 119401     | 0.6        |                |                  |              |
|              | 1-1/4"    |                  | 119402     | 0.6        |                |                  |              |
|              |           |                  |            |            |                |                  |              |
|              | 1-5/16" # |                  | 119403     | 0.6        | 5/16 x 5/32    | 5/16 x 5/32      | 5/16 x 5/16  |
|              | 1-3/8" #  |                  | 119404     | 0.6        |                |                  |              |
|              | 1-7/16" + |                  | 119438     | 0.6        | 3/8 x 1/8      | 3/8 x 3/16       | 3/8 x 5/16 Δ |
|              |           |                  |            |            |                |                  |              |
| 14MM         |           | 119656           | 0.7        | 5 x 2.3MM  | 5 x 5.3MM      | 5 x 5MM          |              |
| 16MM         |           | 119657           | 0.7        |            |                |                  |              |
| 18MM         |           | 119658           | 0.7        |            |                |                  |              |
| 19MM         |           | 119572           | 0.7        | 6 x 2.8MM  | 6 x 3.5MM      | 6 x 6MM          |              |
| 20MM         |           | 119659           | 0.6        |            |                |                  |              |
| 22MM         |           | 119660           | 0.6        |            |                |                  |              |
| 24MM         |           | 119591           | 0.6        |            |                |                  |              |
| 25MM         |           | 119592           | 0.5        | 8 X 3.3MM  | 8 X 4MM        | 8 X 7MM          |              |
| 28MM         |           | 119593           | 0.5        |            |                |                  |              |
| 30MM         |           | 119594           | 0.5        |            |                |                  |              |
| 32MM         |           | 119595           | 0.4        | 10 X 3.3MM | 10 X 5MM       | 10 X 8MM         |              |
| 35MM         |           | 119596           | 0.4        |            |                |                  |              |
| 1610         | 1/2"      |                  | 119211     | 0.9        | 1/8 x 1/16     | 1/8 x 1/16       | 1/8 x 1/8    |
|              | 9/16"     |                  | 119212     | 0.9        |                |                  |              |
|              | 5/8"      | 119213           | 117081     | 0.9        | 3/16 x 3/32    | 3/16 x 3/32      | 3/16 x 3/16  |
|              | 11/16"    |                  | 119214     | 0.9        |                |                  |              |
|              | 3/4"      |                  | 119215     | 0.9        |                |                  |              |
|              | 13/16"    |                  | 119216     | 0.9        |                |                  |              |
|              | 7/8"      |                  | 119217     | 0.8        |                |                  |              |
|              | 15/16"    | 119219           | 117083     | 0.8        | 1/4 x 1/8      | 1/4 x 1/8        | 1/4 x 1/4    |
|              | 1"        |                  | 117159     | 0.8        |                |                  |              |
|              | 1-1/16"   |                  | 119220     | 0.8        |                |                  |              |
|              | 1-1/8"    | 119221           | 117084     | 0.7        |                |                  |              |
|              | 1-3/16"   | 119222           | 117160     | 0.7        |                |                  |              |
|              | 1-1/4"    | 119223           | 117161     | 0.7        |                |                  |              |
|              |           |                  |            |            |                |                  |              |
|              | 1-5/16"   |                  | 119224     | 0.6        | 5/16 x 5/32    | 5/16 x 5/32      | 5/16 x 5/16  |
|              | 1-3/8"    | 119225           | 117085     | 0.6        |                |                  |              |
|              | 1-7/16"   |                  | 119226     | 0.6        | 3/8 x 3/16     | 3/8 x 3/16       | 3/8 x 3/8    |
|              | 1-1/2"    | 119227           | 117163     | 0.5        |                |                  |              |
| 1-9/16" #    |           | 119228           | 0.5        | 3/8 x 1/8  | 3/8 x 3/16     | 3/8 x 5/16 Δ     |              |
| 1-5/8" #     | 119229    | 117086           | 0.5        |            |                |                  |              |
| 1-11/16" +   |           | 117071           | 0.5        |            |                |                  |              |
| 14MM         |           | 119661           | 0.9        | 5 x 2.3MM  | 5 x 5.3MM      | 5 x 5MM          |              |
| 16MM         |           | 119662           | 0.9        |            |                |                  |              |

|                                     |                                 |                            |                            |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|
| T-L FEATURES/BENEFITS<br>PAGE PT6-2 | T-L SPECIFICATION<br>PAGE PT6-3 | QD BUSHINGS<br>PAGE PT6-16 | GT BUSHINGS<br>PAGE PT6-28 |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|



# SPECIFICATION



## TAPER-LOCK Bushings - Stock Bore

| TL Bush Size | Bore       | P/N Integral Key | P/N Keyway | WT.        | Bushing Keyway | Shaft Keyway REF | Key Size REF |             |             |              |
|--------------|------------|------------------|------------|------------|----------------|------------------|--------------|-------------|-------------|--------------|
| 1610 (cont)  | 18MM       |                  | 119663     | 0.9        | 6 x 2.8MM      | 6 x 3.5MM        | 6 x 6MM      |             |             |              |
|              | 19MM       |                  | 119573     | 0.8        |                |                  |              |             |             |              |
|              | 20MM       |                  | 119598     | 0.8        |                |                  |              |             |             |              |
|              | 22MM       |                  | 119236     | 0.8        |                |                  |              |             |             |              |
|              | 24MM       |                  | 119599     | 0.8        | 8 X 3.3MM      | 8 X 4MM          | 8 X 7MM      |             |             |              |
|              | 25MM       |                  | 119600     | 0.7        |                |                  |              |             |             |              |
|              | 28MM       |                  | 119601     | 0.7        |                |                  |              |             |             |              |
|              | 30MM       |                  | 119602     | 0.7        |                |                  |              |             |             |              |
|              | 32MM       |                  | 119603     | 0.6        | 10 X 3.3MM     | 10 X 5MM         | 10 X 8MM     |             |             |              |
|              | 35MM       |                  | 119604     | 0.6        |                |                  |              |             |             |              |
| 38MM         |            | 119605           | 0.5        |            |                |                  |              |             |             |              |
| 40MM         |            | 119606           | 0.5        | 12 X 3.3MM | 12 X 5MM       | 12 X 8MM         |              |             |             |              |
| 42MM +       |            | 393002           | 0.5        |            |                |                  |              |             |             |              |
| 1615         | 1/2"       |                  | 119040     | 1.3        | 1/8 x 1/16     | 1/8 x 1/16       | 1/8 x 1/8    |             |             |              |
|              | 9/16"      |                  | 119041     | 1.3        |                |                  |              |             |             |              |
|              | 5/8"       |                  | 119042     | 1.3        | 3/16 x 3/32    | 3/16 x 3/32      | 3/16 x 3/16  |             |             |              |
|              | 11/16"     |                  | 119043     | 1.2        |                |                  |              |             |             |              |
|              | 3/4"       |                  | 119044     | 1.2        |                |                  |              |             |             |              |
|              | 13/16"     |                  | 119045     | 1.2        |                |                  |              |             |             |              |
|              | 7/8"       |                  | 119046     | 1.1        |                |                  |              |             |             |              |
|              | 15/16"     |                  | 119047     | 1.1        | 1/4 x 1/8      | 1/4 x 1/8        | 1/4 x 1/4    |             |             |              |
|              | 1"         |                  | 119048     | 1.1        |                |                  |              |             |             |              |
|              | 1-1/16"    |                  | 119049     | 1          |                |                  |              |             |             |              |
|              | 1-1/8"     |                  | 119050     | 1          |                |                  |              |             |             |              |
|              | 1-3/16"    |                  | 119051     | 1          |                |                  |              |             |             |              |
|              | 1-1/4"     |                  | 119052     | 0.9        | 5/16 x 5/32    | 5/16 x 5/32      | 5/16 x 5/16  |             |             |              |
|              | 1-5/16"    |                  | 119053     | 0.8        |                |                  |              |             |             |              |
|              | 1-3/8"     |                  | 119054     | 0.8        |                |                  |              |             |             |              |
|              | 1-7/16"    |                  | 119055     | 0.7        |                |                  |              | 3/8 x 3/16  | 3/8 x 3/16  | 3/8 x 3/8    |
|              | 1-1/2"     |                  | 119056     | 0.7        |                |                  |              |             |             |              |
|              | 1-9/16" #  |                  | 119057     | 0.7        |                |                  |              | 3/8 x 1/8   | 3/8 x 3/16  | 3/8 x 5/16 Δ |
|              | 1-5/8" #   |                  | 119058     | 0.6        |                |                  |              |             |             |              |
|              | 1-11/16" + |                  | 119068     | 0.6        |                |                  |              |             |             |              |
| 25MM         |            | 119039           | 0.7        | 8 X 3.3MM  |                |                  |              | 8 X 4MM     | 8 X 7MM     |              |
| 35MM         |            | 119038           | 0.7        | 10 X 3.3MM |                |                  |              | 10 X 5MM    | 10 X 8MM    |              |
| 2012         | 1/2"       |                  | 119241     | 1.7        | 1/8 x 1/16     | 1/8 x 1/16       | 1/8 x 1/8    |             |             |              |
|              | 9/16"      |                  | 119242     | 1.7        |                |                  |              |             |             |              |
|              | 5/8"       |                  | 117087     | 1.7        |                |                  |              | 3/16 x 3/32 | 3/16 x 3/32 | 3/16 x 3/16  |
|              | 11/16"     |                  | 119244     | 1.7        |                |                  |              |             |             |              |
|              | 3/4"       |                  | 117088     | 1.7        |                |                  |              |             |             |              |
|              | 13/16"     |                  | 119246     | 1.7        |                |                  |              |             |             |              |
|              | 7/8"       |                  | 117089     | 1.6        | 1/4 x 1/8      | 1/4 x 1/8        | 1/4 x 1/4    |             |             |              |
|              | 15/16"     |                  | 119248     | 1.6        |                |                  |              |             |             |              |
|              | 1"         | 119249           | 117164     | 1.6        |                |                  |              |             |             |              |
|              | 1-1/16"    | 119250           | 117165     | 1.5        |                |                  |              |             |             |              |
|              | 1-1/8"     | 117090           | 117166     | 1.4        |                |                  |              |             |             |              |
|              | 1-3/16"    | 119252           | 117165     | 1.5        | 5/16 x 5/32    | 5/16 x 5/32      | 5/16 x 5/16  |             |             |              |
|              | 1-1/4"     | 119253           | 117166     | 1.4        |                |                  |              |             |             |              |
|              | 1-5/16"    |                  | 119254     | 1.3        |                |                  |              |             |             |              |
|              | 1-3/8"     |                  | 117091     | 1.2        |                |                  |              |             |             |              |
| 1-7/16"      | 119256     | 117167           | 1.2        | 3/8 x 3/16 |                |                  |              | 3/8 x 3/16  | 3/8 x 3/8   |              |
| 1-1/2"       | 119257     | 117168           | 1.2        |            |                |                  |              |             |             |              |
| 1-9/16"      |            | 119258           | 1.2        |            |                |                  |              |             |             |              |
| 1-5/8"       |            | 117092           | 1.2        |            |                |                  |              |             |             |              |
| 1-11/16"     |            | 117093           | 1.1        |            |                |                  |              |             |             |              |
| 1-3/4"       |            | 117094           | 1          | 1/2 x 1/4  |                |                  |              | 1/2 x 1/4   | 1/2 x 1/2   |              |
| 1-13/16"     |            | 119262           | 1          |            |                |                  |              |             |             |              |
| 1-7/8"       |            | 117095           | 0.9        |            |                |                  |              |             |             |              |

| TL Bush Size | Bore       | P/N Integral Key | P/N Keyway | WT.        | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|--------------|------------|------------------|------------|------------|----------------|------------------|--------------|
| 2012 (cont)  | 1-15/16" # |                  | 117169     | 0.9        | 1/2 x 3/16     | 1/2 x 1/4        | 1/2 x 7/16 Δ |
|              | 2" #       |                  | 117170     | 0.9        |                |                  |              |
|              | 2-1/8" +   |                  | 117177     | 0.9        |                |                  |              |
|              | 14MM       |                  | 119664     | 1.7        | 5 x 2.3MM      | 5 x 5.3MM        | 5 x 5MM      |
|              | 16MM       |                  | 119665     | 1.7        |                |                  |              |
|              | 18MM       |                  | 119666     | 1.6        | 6 x 2.8MM      | 6 x 3.5MM        | 6 x 6MM      |
|              | 19MM       |                  | 119574     | 1.6        |                |                  |              |
|              | 20MM       |                  | 119607     | 1.6        |                |                  |              |
|              | 22MM       |                  | 119667     | 1.6        |                |                  |              |
|              | 24MM       |                  | 119608     | 1.5        |                |                  |              |
| 25MM         |            | 119609           | 1.5        | 8 X 3.3MM  | 8 X 4MM        | 8 X 7MM          |              |
| 28MM         |            | 119610           | 1.5        |            |                |                  |              |
| 30MM         |            | 119611           | 1.4        |            |                |                  |              |
| 32MM         |            | 119612           | 1.4        |            |                |                  |              |
| 35MM         |            | 119613           | 1.3        | 10 X 3.3MM | 10 X 5MM       | 10 X 8MM         |              |
| 38MM         |            | 119614           | 1.3        |            |                |                  |              |
| 40MM         |            | 119615           | 1.2        |            |                |                  |              |
| 42MM         |            | 119616           | 1.1        | 12 X 3.3MM | 12 X 5MM       | 12 X 8MM         |              |
| 45MM         |            | 119617           | 1          |            |                |                  |              |
| 48MM         |            | 119668           | 0.9        | 14 X 3.8MM | 14 X 5.5MM     | 14 X 9MM         |              |
| 2517         | 1/2"       |                  | 119100     | 3.7        | 1/8 x 1/16     | 1/8 x 1/16       | 1/8 x 1/8    |
|              | 5/8"       |                  | 119102     | 3.6        | 3/16 x 3/32    | 3/16 x 3/32      | 3/16 x 3/16  |
|              | 11/16"     |                  | 119103     | 3.5        |                |                  |              |
|              | 3/4"       |                  | 119104     | 3.4        |                |                  |              |
|              | 13/16"     |                  | 119105     | 3.4        |                |                  |              |
|              | 7/8"       |                  | 119106     | 3.3        |                |                  |              |
|              | 15/16"     |                  | 119107     | 3.3        | 1/4 x 1/8      | 1/4 x 1/8        | 1/4 x 1/4    |
|              | 1"         |                  | 119108     | 3.3        |                |                  |              |
|              | 1-1/16"    |                  | 119109     | 3.2        |                |                  |              |
|              | 1-1/8"     |                  | 119110     | 3.2        |                |                  |              |
|              | 1-3/16"    |                  | 119111     | 3.2        |                |                  |              |
|              | 1-1/4"     |                  | 119112     | 3.2        | 5/16 x 5/32    | 5/16 x 5/32      | 5/16 x 5/16  |
|              | 1-5/16"    |                  | 119113     | 3.1        |                |                  |              |
|              | 1-3/8"     |                  | 119114     | 3.1        |                |                  |              |
|              | 1-7/16"    |                  | 119115     | 3          | 3/8 x 3/16     | 3/8 x 3/16       | 3/8 x 3/8    |
| 1-1/2"       |            | 119116           | 2.9        |            |                |                  |              |
| 1-9/16"      |            | 119117           | 2.9        |            |                |                  |              |
| 1-5/8"       | 119144     | 119118           | 2.8        |            |                |                  |              |
| 1-11/16"     |            | 119119           | 2.8        |            |                |                  |              |
| 1-3/4"       |            | 119120           | 2.7        | 1/2 x 1/4  | 1/2 x 1/4      | 1/2 x 1/2        |              |
| 1-13/16"     |            | 119121           | 2.6        |            |                |                  |              |
| 1-7/8"       |            | 119122           | 2.5        |            |                |                  |              |
| 1-15/16"     |            | 117173           | 2.4        |            |                |                  |              |
| 2"           | 119123     | 117174           | 2.3        |            |                |                  |              |
| 2-1/16"      | 119124     | 119125           | 2.3        | 5/8 x 3/16 | 5/8 x 5/16     | 5/8 x 1/2 Δ      |              |
| 2-1/8"       |            | 117096           | 2.2        |            |                |                  |              |
| 2-3/16"      |            | 117175           | 2.1        |            |                |                  |              |
| 2-1/4"       |            | 117097           | 2          |            |                |                  |              |
| 2-5/16"      |            | 119129           | 1.9        |            |                |                  |              |
| 2-3/8"       |            | 117098           | 1.9        | 8 X 3.3MM  | 8 X 4MM        | 8 X 7MM          |              |
| 2-7/16" #    |            | 117176           | 1.8        |            |                |                  |              |
| 2-1/2" #     |            | 117099           | 1.8        |            |                |                  |              |
| 2-5/8" +     |            | 117111           | 1.8        |            |                |                  |              |
| 2-11/16" +   |            | 117115           | 1.8        |            |                |                  |              |
| 14MM         |            | 119669           | 3.6        | 5 x 2.3MM  | 5 x 5.3MM      | 5 x 5MM          |              |
| 16MM         |            | 119670           | 3.6        |            |                |                  |              |
| 18MM         |            | 119671           | 3.5        | 6 x 2.8MM  | 6 x 3.5MM      | 6 x 6MM          |              |
| 19MM         |            | 119672           | 3.4        |            |                |                  |              |
| 20MM         |            | 119618           | 3.4        |            |                |                  |              |
| 22MM         |            | 119619           | 3.3        |            |                |                  |              |
| 24MM         |            | 119620           | 3.3        |            |                |                  |              |
| 25MM         |            | 119621           | 3.2        | 8 X 3.3MM  | 8 X 4MM        | 8 X 7MM          |              |
| 28MM         |            | 119622           | 3.1        |            |                |                  |              |
| 30MM         |            | 119623           | 3.1        |            |                |                  |              |

Δ Key furnished for these sizes ONLY  
 + These sizes are STEEL  
 # Refer to torque capacity ratings on page PT6-3. If service factor of 2.0 or greater is required consult DODGE

|                                     |                                 |                            |                            |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|
| T-L FEATURES/BENEFITS<br>PAGE PT6-2 | T-L SPECIFICATION<br>PAGE PT6-3 | QD BUSHINGS<br>PAGE PT6-16 | GT BUSHINGS<br>PAGE PT6-28 |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|



# SPECIFICATION

## TAPER-LOCK Bushings - Stock Bore

| TL Bush Size | Bore | P/N Integral Key | P/N Keyway | WT. | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|--------------|------|------------------|------------|-----|----------------|------------------|--------------|
| 2517 (cont)  | 32MM |                  | 119624     | 3   | 10 X 3.3MM     | 10 X 5MM         | 10 X 8MM     |
|              | 35MM |                  | 119625     | 2.9 |                |                  |              |
|              | 38MM |                  | 119626     | 2.9 |                |                  |              |
|              | 40MM |                  | 119627     | 2.8 | 12 X 3.3MM     | 12 X 5MM         | 12 X 8MM     |
|              | 42MM |                  | 119628     | 2.6 |                |                  |              |
|              | 45MM |                  | 119629     | 2.5 | 14 X 3.8MM     | 14 X 5.5MM       | 14 X 9MM     |
|              | 48MM |                  | 119630     | 2.4 |                |                  |              |
|              | 50MM |                  | 119640     | 2.3 |                |                  |              |
|              | 55MM |                  | 119641     | 2   | 16 X 4.3MM     | 16 X 6MM         | 16 X 10MM    |
|              | 60MM |                  | 119642     | 1.7 | 18 X 4.4MM     | 18 X 7MM         | 18 X 11MM    |
| 65MM         |      | 119643           | 1.4        |     |                |                  |              |

| TL Bush Size | Bore     | P/N Keyway | WT.    | Bushing Keyway | Shaft Keyway REF | Key Size REF |             |             |             |
|--------------|----------|------------|--------|----------------|------------------|--------------|-------------|-------------|-------------|
| 2525         | 3/4"     | 119304     | 4.9    | 3/16 x 3/32    | 3/16 x 3/32      | 3/16 x 3/16  |             |             |             |
|              | 7/8"     | 119306     | 4.8    |                |                  |              |             |             |             |
|              | 15/16"   | 119307     | 4.8    | 1/4 x 1/8      | 1/4 x 1/8        | 1/4 x 1/4    |             |             |             |
|              | 1"       | 119308     | 4.8    |                |                  |              |             |             |             |
|              | 1-1/8"   | 119310     | 4.6    |                |                  |              |             |             |             |
|              | 1-3/16"  | 119311     | 4.5    |                |                  |              |             |             |             |
|              | 1-1/4"   | 119312     | 4.4    |                |                  |              |             |             |             |
|              | 1-3/8"   | 119314     | 4.2    |                |                  |              | 5/16 x 5/32 | 5/16 x 5/32 | 5/16 x 5/16 |
|              | 1-7/16"  | 119315     | 4.2    | 3/8 x 3/16     | 3/8 x 3/16       | 3/8 x 3/8    |             |             |             |
|              | 1-1/2"   | 119316     | 4      |                |                  |              |             |             |             |
|              | 1-5/8"   | 119318     | 3.8    |                |                  |              |             |             |             |
|              | 1-11/16" | 119319     | 3.8    |                |                  |              |             |             |             |
|              | 1-3/4"   | 119320     | 3.7    |                |                  |              |             |             |             |
|              | 1-13/16" | 119321     | 3.2    |                |                  |              | 1/2 x 1/4   | 1/2 x 1/4   | 1/2 x 1/2   |
|              | 1-7/8"   | 119322     | 3.4    |                |                  |              |             |             |             |
|              | 1-15/16" | 119323     | 3.2    |                |                  |              |             |             |             |
|              | 2"       | 119324     | 3.1    |                |                  |              |             |             |             |
|              | 2-1/8"   | 119326     | 2.9    |                |                  |              |             |             |             |
|              | 2-3/16"  | 119327     | 2.5    |                |                  |              |             |             |             |
|              | 2-1/4"   | 119328     | 2.3    | 5/8 x 3/16     | 5/8 x 5/16       | 5/8 x 1/2 Δ  |             |             |             |
|              | 2-5/16"  | 119329     | 2      |                |                  |              |             |             |             |
|              | 2-3/8"   | 119330     | 2      |                |                  |              |             |             |             |
|              | 2-7/16"  | 119331     | 2      |                |                  |              |             |             |             |
|              | 2-1/2"   | 119332     | 2      |                |                  |              |             |             |             |
|              | 7/8"     | 117103     | 6.5    |                |                  |              | 3/16 x 3/32 | 3/16 x 3/32 | 3/16 x 3/16 |
|              | 3020     | 15/16"     | 117101 | 6.5            | 1/4 x 1/8        | 1/4 x 1/8    | 1/4 x 1/4   |             |             |
|              |          | 1"         | 117102 | 6.5            |                  |              |             |             |             |
|              |          | 1-1/8"     | 117104 | 6.4            |                  |              |             |             |             |
|              |          | 1-3/16"    | 117105 | 6.4            |                  |              |             |             |             |
|              |          | 1-1/4"     | 117106 | 6.3            |                  |              |             |             |             |
| 1-5/16"      |          | 117107     | 6.1    | 5/16 x 5/32    |                  |              |             | 5/16 x 5/32 | 5/16 x 5/16 |
| 1-3/8"       |          | 117108     | 6      |                |                  |              |             |             |             |
| 1-7/16"      |          | 117109     | 6      | 3/8 x 3/16     | 3/8 x 3/16       | 3/8 x 3/8    |             |             |             |
| 1-1/2"       |          | 117110     | 5.9    |                |                  |              |             |             |             |
| 1-9/16"      |          | 117135     | 5.9    |                |                  |              |             |             |             |
| 1-5/8"       |          | 117112     | 5.9    |                |                  |              |             |             |             |
| 1-11/16"     |          | 117113     | 5.7    |                |                  |              |             |             |             |
| 1-3/4"       |          | 117114     | 5.6    |                |                  |              |             |             |             |
| 1-13/16"     |          | 117136     | 5.5    |                |                  |              | 1/2 x 1/4   | 1/2 x 1/4   | 1/2 x 1/2   |
| 1-7/8"       |          | 117116     | 5.4    |                |                  |              |             |             |             |
| 1-15/16"     |          | 117117     | 5.3    |                |                  |              |             |             |             |
| 2"           |          | 117118     | 5.2    |                |                  |              |             |             |             |
| 2-1/16"      |          | 117119     | 5      |                |                  |              |             |             |             |
| 2-1/8"       |          | 117120     | 5      |                |                  |              |             |             |             |
| 2-3/16"      |          | 117121     | 4.9    |                |                  |              |             |             |             |
| 2-1/4"       | 117122   | 4.8        |        |                |                  |              |             |             |             |

| TL Bush Size    | Bore            | P/N Keyway | WT.        | Bushing Keyway | Shaft Keyway REF | Key Size REF |             |             |             |
|-----------------|-----------------|------------|------------|----------------|------------------|--------------|-------------|-------------|-------------|
| 3020 (cont)     | 2-5/16"         | 117137     | 4.6        | 5/8 x 5/16     | 5/8 x 5/16       | 5/8 x 5/8    |             |             |             |
|                 | 2-3/8"          | 117124     | 4.5        |                |                  |              |             |             |             |
|                 | 2-7/16"         | 117125     | 4.4        |                |                  |              |             |             |             |
|                 | 2-1/2"          | 117126     | 4.3        |                |                  |              |             |             |             |
|                 | 2-5/8"          | 117128     | 4          |                |                  |              |             |             |             |
|                 | 2-11/16"        | 117129     | 3.9        |                |                  |              |             |             |             |
|                 | 2-3/4"          | 117130     | 3.7        |                |                  |              |             |             |             |
|                 | 2-13/16"        | 117139     | 3.7        |                |                  |              | 3/4 x 1/4   | 3/4 x 3/8   | 3/4 x 5/8 Δ |
|                 | 2-7/8"          | 117132     | 3.6        |                |                  |              |             |             |             |
|                 | 2-15/16" # 3" # | 117133     | 3.6        |                |                  |              |             |             |             |
|                 | 3-1/8" +        | 117178     | 3.3        |                |                  |              |             |             |             |
|                 | 3-3/16" +       | 117179     | 3.3        |                |                  |              |             |             |             |
|                 | 3-1/4" +        | 117180     | 3.3        |                |                  |              |             |             |             |
|                 | 24MM            | 119673     | 6.5        | 8 X 3.3MM      | 8 X 4MM          | 8 X 7MM      |             |             |             |
|                 | 25MM            | 119674     | 6.5        |                |                  |              |             |             |             |
|                 | 28MM            | 119675     | 6.4        |                |                  |              |             |             |             |
|                 | 30MM            | 119676     | 6.4        |                |                  |              |             |             |             |
|                 | 32MM            | 119677     | 6.3        | 10 X 3.3MM     | 10 X 5MM         | 10 X 8MM     |             |             |             |
|                 | 35MM            | 119678     | 6          |                |                  |              |             |             |             |
|                 | 38MM            | 119679     | 5.9        |                |                  |              |             |             |             |
| 40MM            | 119680          | 5.9        |            |                |                  |              |             |             |             |
| 42MM            | 119681          | 5.8        | 12 X 3.3MM | 12 X 5MM       | 12 X 8MM         |              |             |             |             |
| 45MM            | 119682          | 5.6        | 14 X 3.8MM | 14 X 5.5MM     | 14 X 9MM         |              |             |             |             |
| 48MM            | 119644          | 5.5        |            |                |                  |              |             |             |             |
| 50MM            | 119645          | 5.2        |            |                |                  |              |             |             |             |
| 55MM            | 119646          | 5          |            |                |                  | 16 X 4.3MM   | 16 X 6MM    | 16 X 10MM   |             |
| 60MM            | 119647          | 4.9        |            |                |                  | 18 X 4.4MM   | 18 X 7MM    | 18 X 11MM   |             |
| 65MM            | 119648          | 4.3        |            |                |                  |              |             |             |             |
| 70MM            | 119649          | 3.7        | 20 X 4.9MM | 20 X 7.5MM     | 20 X 12MM        |              |             |             |             |
| 75MM            | 119650          | 3.5        |            |                |                  |              |             |             |             |
| 80MM +          | 117721          | 4          |            |                |                  | 22 X 5.4MM   | 22 X 9MM    | 22 X 14MM   |             |
| 3030            | 15/16"          | 117004     | 10         | 1/4 x 1/8      | 1/4 x 1/8        | 1/4 x 1/4    |             |             |             |
|                 | 1"              | 117005     | 9.4        |                |                  |              |             |             |             |
|                 | 1-1/8"          | 117007     | 9.4        |                |                  |              |             |             |             |
|                 | 1-3/16"         | 117008     | 9.2        |                |                  |              |             |             |             |
|                 | 1-1/4"          | 117009     | 9          |                |                  |              |             |             |             |
|                 | 1-5/16"         | 117010     | 8.9        |                |                  |              | 5/16 x 5/32 | 5/16 x 5/32 | 5/16 x 5/16 |
|                 | 1-3/8"          | 117011     | 8.8        | 3/8 x 3/16     | 3/8 x 3/16       | 3/8 x 3/8    |             |             |             |
|                 | 1-7/16"         | 117012     | 8.6        |                |                  |              |             |             |             |
|                 | 1-1/2"          | 117013     | 8.5        |                |                  |              |             |             |             |
|                 | 1-9/16"         | 117014     | 8.4        |                |                  |              |             |             |             |
|                 | 1-5/8"          | 117015     | 8.2        |                |                  |              |             |             |             |
|                 | 1-11/16"        | 117016     | 8          |                |                  |              |             |             |             |
|                 | 1-3/4"          | 117017     | 7.8        |                |                  |              |             |             |             |
|                 | 1-13/16"        | 117018     | 7.6        |                |                  |              | 1/2 x 1/4   | 1/2 x 1/4   | 1/2 x 1/2   |
|                 | 1-7/8"          | 117019     | 7.5        |                |                  |              |             |             |             |
|                 | 1-15/16"        | 117020     | 7.4        |                |                  |              |             |             |             |
|                 | 2"              | 117021     | 7.3        |                |                  |              |             |             |             |
|                 | 2-1/16"         | 117022     | 7.2        |                |                  |              |             |             |             |
|                 | 2-1/8"          | 117023     | 7.1        |                |                  |              |             |             |             |
|                 | 2-3/16"         | 117024     | 6.9        | 5/8 x 5/16     | 5/8 x 5/16       | 5/8 x 5/8    |             |             |             |
| 2-1/4"          | 117025          | 6.7        |            |                |                  |              |             |             |             |
| 2-5/16"         | 117026          | 6.6        |            |                |                  |              |             |             |             |
| 2-3/8"          | 117027          | 6.4        |            |                |                  |              |             |             |             |
| 2-7/16"         | 117028          | 6.2        |            |                |                  |              |             |             |             |
| 2-1/2"          | 117029          | 6.1        |            |                |                  |              |             |             |             |
| 2-5/8"          | 117031          | 6          |            |                |                  |              |             |             |             |
| 2-11/16"        | 117032          | 5.9        |            |                |                  |              |             |             |             |
| 2-3/4"          | 117033          | 5.6        |            |                |                  |              |             |             |             |
| 2-7/8"          | 117035          | 5.3        | 3/4 x 1/8  |                |                  |              | 3/4 x 3/8   | 3/4 x 1/2 Δ |             |
| 2-15/16" # 3" # | 117036          | 5          |            |                |                  |              |             |             |             |
| 3-1/8" +        | 117037          | 4.9        |            |                |                  |              |             |             |             |
| 3-3/16" +       | 117181          | 4.7        |            |                |                  |              |             |             |             |
| 3-1/4" +        | 117182          | 4.7        |            |                |                  |              |             |             |             |
| 3-1/4" +        | 117183          | 4.7        |            | 3/4 x 1/4      | 3/4 x 3/8        | 3/4 x 5/8 Δ  |             |             |             |
| 28MM            | 119808          | 9.4        | 8 X 3.3MM  | 8 X 4MM        | 8 X 7MM          |              |             |             |             |
| 32MM            | 119809          | 9          | 10 X 3.3MM | 10 X 5MM       | 10 X 8MM         |              |             |             |             |
| 38MM            | 119810          | 8.4        | 14 X 3.8MM | 14 X 5.5MM     | 14 X 9MM         |              |             |             |             |
| 48MM            | 119811          | 7.6        |            |                |                  |              |             |             |             |

Δ Key furnished for these sizes ONLY

+ These sizes are STEEL

# Refer to torque capacity ratings on page PT6-3. If service factor of 2.0 or greater is required consult DODGE

|                                     |                                 |                            |                            |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|
| T-L FEATURES/BENEFITS<br>PAGE PT6-2 | T-L SPECIFICATION<br>PAGE PT6-3 | QD BUSHINGS<br>PAGE PT6-16 | GT BUSHINGS<br>PAGE PT6-28 |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|





# SPECIFICATION

## TAPER-LOCK Bushings - Stock Bore

| TL Bush Size | Bore     | P/N Keyway | WT.        | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|--------------|----------|------------|------------|----------------|------------------|--------------|
| 3030 (cont)  | 55MM     | 119812     | 6.9        | 16 X 4.3MM     | 16 X 6MM         | 16 X 10MM    |
|              | 60MM     | 119813     | 6.4        | 18 X 4.4MM     | 18 X 7MM         | 18 X 11MM    |
|              | 80MM +   | 119895     | 4          | 22 X 5.4MM     | 22 X 9MM         | 22 X 14MM    |
| 3525         | 1-3/16"  | 119702     | 16         |                |                  |              |
|              | 1-1/4"   | 119703     | 14.6       | 1/4 x 1/8      | 1/4 x 1/8        | 1/4 x 1/4    |
|              | 1-5/16"  | 119791     | 14.6       |                |                  |              |
|              | 1-3/8"   | 119704     | 14.3       | 5/16 x 5/32    | 5/16 x 5/32      | 5/16 x 5/16  |
|              | 1-7/16"  | 119734     | 14.2       |                |                  |              |
|              | 1-1/2"   | 119705     | 14         |                |                  |              |
|              | 1-9/16"  | 119792     | 14         |                |                  |              |
|              | 1-5/8"   | 119735     | 14         | 3/8 x 3/16     | 3/8 x 3/16       | 3/8 x 3/8    |
|              | 1-11/16" | 119706     | 13.9       |                |                  |              |
|              | 1-3/4"   | 119707     | 13.4       |                |                  |              |
| 3535         | 1-13/16" | 119793     | 13.3       |                |                  |              |
|              | 1-7/8"   | 119708     | 13.2       |                |                  |              |
|              | 1-15/16" | 119709     | 13         |                |                  |              |
|              | 2"       | 119710     | 13         | 1/2 x 1/4      | 1/2 x 1/4        | 1/2 x 1/2    |
|              | 2-1/8"   | 119711     | 12.6       |                |                  |              |
|              | 2-3/16"  | 119712     | 12.4       |                |                  |              |
|              | 2-1/4"   | 119713     | 12.3       |                |                  |              |
|              | 2-5/16"  | 119736     | 12.2       |                |                  |              |
|              | 2-3/8"   | 119714     | 12         |                |                  |              |
|              | 2-7/16"  | 119715     | 11.7       |                |                  |              |
| 3535 (cont)  | 2-1/2"   | 119716     | 11.5       | 5/8 x 5/16     | 5/8 x 5/16       | 5/8 x 5/8    |
|              | 2-9/16"  | 119795     | 11.4       |                |                  |              |
|              | 2-5/8"   | 119717     | 11.1       |                |                  |              |
|              | 2-11/16" | 119718     | 10.7       |                |                  |              |
|              | 2-3/4"   | 119719     | 10.4       |                |                  |              |
|              | 2-13/16" | 119796     | 10.3       |                |                  |              |
|              | 2-7/8"   | 119720     | 10.1       |                |                  |              |
|              | 2-15/16" | 119721     | 10.5       |                |                  |              |
|              | 3"       | 119722     | 9.5        | 3/4 x 3/8      | 3/4 x 3/8        | 3/4 x 3/4    |
|              | 3-1/16"  | 119797     | 9.4        |                |                  |              |
| 3-1/8"       | 119723   | 9.3        |            |                |                  |              |
| 3-3/16"      | 119724   | 8.6        |            |                |                  |              |
| 3-1/4"       | 119725   | 8.8        |            |                |                  |              |
| 3-5/16"      | 119737   | 8.6        | 7/8 x 1/8  | 7/8 x 7/16     | 7/8 x 9/16 Δ     |              |
| 3-3/8"       | 119726   | 8.5        |            |                |                  |              |
| 3-7/16"      | 119727   | 8.2        |            |                |                  |              |
| 3-1/2"       | 119728   | 8          |            |                |                  |              |
| 3-9/16"      | 119798   | 8          | 7/8 x 3/16 | 7/8 x 7/16     | 7/8 x 5/8 Δ      |              |
| 3-5/8" #     | 119729   | 7.9        |            |                |                  |              |
| 3-11/16" #   | 119730   | 7.9        |            |                |                  |              |
| 3-3/4" #     | 119731   | 7.9        |            |                |                  |              |
| 3-13/16" #   | 119799   | 7.9        |            |                |                  |              |
| 3-7/8" #     | 119732   | 7.9        | 1 x 1/4    | 1 x 1/2        | 1 x 3/4 Δ        |              |
| 3-15/16" #   | 119733   | 7.9        |            |                |                  |              |
| 3535         | 1-3/16"  | 117207     | 15.2       |                |                  |              |
|              | 1-1/4"   | 117208     | 14.9       | 1/4 x 1/8      | 1/4 x 1/8        | 1/4 x 1/4    |
|              | 1-3/8"   | 117209     | 14.8       | 5/16 x 5/32    | 5/16 x 5/32      | 5/16 x 5/16  |
|              | 1-7/16"  | 117210     | 14.6       |                |                  |              |
|              | 1-1/2"   | 117211     | 14.4       |                |                  |              |
|              | 1-5/8"   | 117212     | 14.1       | 3/8 x 3/16     | 3/8 x 3/16       | 3/8 x 3/8    |
|              | 1-11/16" | 117213     | 14         |                |                  |              |
|              | 1-3/4"   | 117214     | 14         |                |                  |              |
|              | 1-7/8"   | 117215     | 13.6       |                |                  |              |
|              | 1-15/16" | 117216     | 13.4       |                |                  |              |
| 2"           | 117217   | 13.1       | 1/2 x 1/4  | 1/2 x 1/4      | 1/2 x 1/2        |              |
| 2-1/8"       | 117218   | 12.6       |            |                |                  |              |
| 2-3/16"      | 117219   | 12.4       |            |                |                  |              |
| 2-1/4"       | 117220   | 12.2       |            |                |                  |              |

| TL Bush Size | Bore     | P/N Keyway | WT.        | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|--------------|----------|------------|------------|----------------|------------------|--------------|
| 3535         | 2-5/16"  | 117237     | 12         |                |                  |              |
|              | 2-3/8"   | 117221     | 11.7       |                |                  |              |
|              | 2-7/16"  | 117222     | 11.7       |                |                  |              |
|              | 2-1/2"   | 117223     | 11         | 5/8 x 5/16     | 5/8 x 5/16       | 5/8 x 5/8    |
|              | 2-5/8"   | 117224     | 10.9       |                |                  |              |
|              | 2-11/16" | 117225     | 10.7       |                |                  |              |
|              | 2-3/4"   | 117226     | 10         |                |                  |              |
|              | 2-7/8"   | 117227     | 9.8        |                |                  |              |
|              | 2-15/16" | 117228     | 9.7        |                |                  |              |
|              | 3"       | 117229     | 9.2        | 3/4 x 3/8      | 3/4 x 3/8        | 3/4 x 3/4    |
| 3-1/8"       | 117230   | 9.2        |            |                |                  |              |
| 3-3/16"      | 117231   | 8.8        |            |                |                  |              |
| 3-1/4"       | 117232   | 8.7        |            |                |                  |              |
| 3-5/16"      | 117236   | 8.6        | 7/8 x 1/8  | 7/8 x 7/16     | 7/8 x 9/16 Δ     |              |
| 3-3/8"       | 117233   | 8.7        |            |                |                  |              |
| 3-7/16"      | 117234   | 8.3        |            |                |                  |              |
| 3-1/2"       | 117235   | 8          | 7/8 x 3/16 | 7/8 x 7/16     | 7/8 x 5/8 Δ      |              |
| 3-5/8" #     | 117707   | 7.1        | 7/8 x 1/4  | 7/8 x 7/16     | 7/8 x 11/16 Δ    |              |
| 3-11/16" #   | 117708   | 6.8        |            |                |                  |              |
| 3-3/4" #     | 117709   | 6.4        | 7/8 x 3/16 | 7/8 x 7/16     | 7/8 x 5/8 Δ      |              |
| 3-7/8" #     | 117710   | 6          |            |                |                  |              |
| 3-15/16" #   | 117703   | 5.6        | 1 x 1/4    | 1 x 1/2        | 1 x 3/4 Δ        |              |
| 32MM         | 119814   | 14.6       |            |                |                  |              |
| 38MM         | 119815   | 14         | 10 X 3.3MM | 10 X 5MM       | 10 X 8MM         |              |
| 48MM         | 119816   | 13.2       |            |                |                  |              |
| 50MM         | 117738   | 13         | 14 X 3.8MM | 14 X 5.5MM     | 14 X 9MM         |              |
| 55MM         | 119817   | 11.1       | 16 X 4.3MM | 16 X 6MM       | 16 X 10MM        |              |
| 60MM         | 119683   | 11.1       |            |                |                  |              |
| 65MM         | 117737   | 11         | 18 X 4.4MM | 18 X 7MM       | 18 X 11MM        |              |
| 75MM         | 117722   | 10         | 20 X 4.9MM | 20 X 7.5MM     | 20 X 12MM        |              |
| 80MM         | 117297   | 10         | 22 X 5.4MM | 22 X 9MM       | 22 X 14MM        |              |
| 85MM         | 393170   | 10         |            |                |                  |              |
| 90MM         | 426013   | 10         |            |                |                  |              |
| 95MM         | 426013   | 10         | 25 X 5.4MM | 25 X 9MM       | 25 X 14MM        |              |
| 4030         | 1-7/16"  | 119738     | 24         |                |                  |              |
|              | 1-1/2"   | 119739     | 22         |                |                  |              |
|              | 1-9/16"  | 119770     | 21.9       | 3/8 x 3/16     | 3/8 x 3/16       | 3/8 x 3/8    |
|              | 1-5/8"   | 119740     | 21.8       |                |                  |              |
|              | 1-11/16" | 119771     | 21.5       |                |                  |              |
|              | 1-3/4"   | 119772     | 21.2       |                |                  |              |
|              | 1-13/16" | 119773     | 21         |                |                  |              |
|              | 1-7/8"   | 119774     | 20.9       |                |                  |              |
|              | 1-15/16" | 119775     | 20.7       |                |                  |              |
|              | 2"       | 119741     | 20.6       | 1/2 x 1/4      | 1/2 x 1/4        | 1/2 x 1/2    |
| 2-1/16"      | 119776   | 20.6       |            |                |                  |              |
| 2-1/8"       | 119742   | 20.7       |            |                |                  |              |
| 2-3/16"      | 119743   | 20.4       |            |                |                  |              |
| 2-1/4"       | 119744   | 20.1       |            |                |                  |              |
| 2-5/16"      | 119777   | 20         |            |                |                  |              |
| 2-3/8"       | 119745   | 19.5       |            |                |                  |              |
| 2-7/16"      | 119746   | 19.3       |            |                |                  |              |
| 2-1/2"       | 119778   | 19.2       | 5/8 x 5/16 | 5/8 x 5/16     | 5/8 x 5/8        |              |
| 2-9/16"      | 119779   | 19.1       |            |                |                  |              |
| 2-5/8"       | 119747   | 19         |            |                |                  |              |
| 2-11/16"     | 119780   | 18.4       |            |                |                  |              |
| 2-3/4"       | 119748   | 17.7       |            |                |                  |              |
| 2-13/16"     | 119781   | 17.5       |            |                |                  |              |
| 2-7/8"       | 119749   | 17.2       |            |                |                  |              |
| 2-15/16"     | 119750   | 17.2       |            |                |                  |              |
| 3"           | 119751   | 17         | 3/4 x 3/8  | 3/4 x 3/8      | 3/4 x 3/4        |              |
| 3-1/16"      | 119782   | 16.8       |            |                |                  |              |
| 3-1/8"       | 119752   | 16.5       |            |                |                  |              |
| 3-3/16"      | 119783   | 15.9       |            |                |                  |              |
| 3-1/4"       | 119753   | 15.4       |            |                |                  |              |

Δ Key furnished for these sizes ONLY  
 + These sizes are STEEL  
 # Refer to torque capacity ratings on page PT6-3. If service factor of 2.0 or greater is required consult DODGE

|                                     |                                 |                            |                            |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|
| T-L FEATURES/BENEFITS<br>PAGE PT6-2 | T-L SPECIFICATION<br>PAGE PT6-3 | QD BUSHINGS<br>PAGE PT6-16 | GT BUSHINGS<br>PAGE PT6-28 |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|



# SPECIFICATION

## TAPER-LOCK Bushings - Stock Bore

| TL Bush Size | Bore      | P/N Keyway | WT.        | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|--------------|-----------|------------|------------|----------------|------------------|--------------|
| 4030 (cont)  | 3-5/16"   | 119784     | 14.9       | 7/8 x 7/16     | 7/8 x 7/16       | 7/8 x 7/8    |
|              | 3-3/8"    | 119754     | 14.6       |                |                  |              |
|              | 3-7/16"   | 119755     | 14.1       |                |                  |              |
|              | 3-1/2"    | 119756     | 13.4       |                |                  |              |
|              | 3-9/16"   | 119785     | 13.3       |                |                  |              |
|              | 3-5/8"    | 119757     | 13.2       |                |                  |              |
|              | 3-11/16"  | 119786     | 13         |                |                  |              |
|              | 3-3/4"    | 119758     | 12.7       | 7/8 x 3/16     | 7/8 x 7/16       | 7/8 x 5/8 Δ  |
|              | 3-13/16"  | 119787     | 12.7       | 1 x 1/2        | 1 x 1/2          | 1 x 1        |
|              | 3-7/8"    | 119759     | 12.6       | 1 x 1/4        | 1 x 1/2          | 1 x 3/4 Δ    |
|              | 3-15/16"  | 119760     | 12.6       |                |                  |              |
|              | 4"        | 119761     | 12.6       |                |                  |              |
|              | 4-1/8" #  | 119788     | 12.6       |                |                  |              |
|              | 4-3/16" # | 119762     | 12.6       |                |                  |              |
|              | 4-1/4" #  | 119763     | 12.6       |                |                  |              |
|              | 4-3/8" #  | 119764     | 12.6       |                |                  |              |
|              | 4-7/16" # | 119765     | 11.8       |                |                  |              |
| 4040         | 1-7/16"   | 117310     | 24         | 3/8 x 3/16     | 3/8 x 3/16       | 3/8 x 3/8    |
|              | 1-1/2"    | 117311     | 22         |                |                  |              |
|              | 1-5/8"    | 117312     | 22         |                |                  |              |
|              | 1-11/16"  | 117313     | 21.9       |                |                  |              |
|              | 1-3/4"    | 117314     | 21.9       |                |                  |              |
|              | 1-7/8"    | 117315     | 21         | 1/2 x 1/4      | 1/2 x 1/4        | 1/2 x 1/2    |
|              | 1-15/16"  | 117316     | 21.2       |                |                  |              |
|              | 2"        | 117317     | 21.1       |                |                  |              |
|              | 2-1/8"    | 117318     | 20.6       |                |                  |              |
|              | 2-3/16"   | 117319     | 20.3       |                |                  |              |
|              | 2-1/4"    | 117320     | 20.2       | 5/8 x 5/16     | 5/8 x 5/16       | 5/8 x 5/8    |
|              | 2-3/8"    | 117321     | 19.6       |                |                  |              |
|              | 2-7/16"   | 117322     | 19.3       |                |                  |              |
|              | 2-1/2"    | 117323     | 18.8       |                |                  |              |
|              | 2-5/8"    | 117324     | 18.7       |                |                  |              |
|              | 2-11/16"  | 117325     | 18.3       | 3/4 x 3/8      | 3/4 x 3/8        | 3/4 x 3/4    |
|              | 2-3/4"    | 117326     | 18.2       |                |                  |              |
|              | 2-13/16"  | 117267     | 17.8       |                |                  |              |
|              | 2-7/8"    | 117327     | 17.5       |                |                  |              |
|              | 2-15/16"  | 117328     | 17.2       |                |                  |              |
|              | 3"        | 117329     | 16.8       | 3/4 x 3/8      | 3/4 x 3/8        | 3/4 x 3/4    |
|              | 3-1/8"    | 117330     | 16.2       |                |                  |              |
|              | 3-3/16"   | 117331     | 15.8       |                |                  |              |
|              | 3-1/4"    | 117332     | 15.5       |                |                  |              |
|              | 3-3/8"    | 117333     | 14.8       |                |                  |              |
|              | 3-7/16"   | 117334     | 14.4       |                |                  |              |
|              | 3-1/2"    | 117335     | 14         |                |                  |              |
|              | 3-5/8"    | 117337     | 13.5       |                |                  |              |
|              | 3-11/16"  | 117340     | 13.5       | 7/8 x 3/16     | 7/8 x 7/16       | 7/8 x 5/8 Δ  |
|              | 3-3/4"    | 117336     | 13.5       |                |                  |              |
|              | 3-7/8"    | 117341     | 12.9       | 1 x 1/4        | 1 x 1/2          | 1 x 3/4 Δ    |
|              | 3-15/16"  | 117338     | 12.5       |                |                  |              |
|              | 4"        | 117352     | 12         |                |                  |              |
| 4-1/8" #     | 117714    | 11.2       |            |                |                  |              |
| 4-3/16" #    | 117715    | 10.7       |            |                |                  |              |
| 4-1/4" #     | 117716    | 10.3       |            |                |                  |              |
| 4-3/8" #     | 117717    | 9.5        |            |                |                  |              |
| 4-7/16" #    | 117704    | 8.9        |            |                |                  |              |
| 48MM         | 119818    | 21         | 14 X 3.8MM | 14 X 5.5MM     | 14 X 9MM         |              |
| 55MM         | 119819    | 20.4       | 16 X 4.3MM | 16 X 6MM       | 16 X 10MM        |              |
| 60MM         | 119820    | 19.5       | 18 X 4.4MM | 18 X 7MM       | 18 X 11MM        |              |
| 75MM         | 117723    | 10         | 20 X 4.9MM | 20 X 7.5MM     | 20 X 12MM        |              |
| 80MM         | 117724    | 10         | 22 X 5.4MM | 22 X 9MM       | 22 X 14MM        |              |
| 90MM         | 117726    | 10         | 25 X 5.4MM | 25 X 9MM       | 25 X 14MM        |              |
| 95MM         | 117725    | 10         |            |                |                  |              |
| 100MM        | 117729    | 10         |            |                |                  | 28 X 6.4MM   |

Δ Key furnished for these sizes ONLY  
+ These sizes are STEEL  
# Refer to torque capacity ratings on page PT6-3. If service factor of 2.0 or greater is required consult DODGE

| TL Bush Size | Bore     | P/N Keyway | WT.         | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|--------------|----------|------------|-------------|----------------|------------------|--------------|
| 4535         | 1-15/16" | 114765     | 31          | 1/2 x 1/4      | 1/2 x 1/4        | 1/2 x 1/2    |
|              | 2"       | 114766     | 29.7        |                |                  |              |
|              | 2-1/16"  | 114767     | 29.5        |                |                  |              |
|              | 2-1/8"   | 114768     | 29.3        |                |                  |              |
|              | 2-3/16"  | 114769     | 29          |                |                  |              |
|              | 2-1/4"   | 114770     | 28.8        |                |                  |              |
|              | 2-5/16"  | 114771     | 28.6        |                |                  |              |
|              | 2-3/8"   | 114772     | 27.4        |                |                  |              |
|              | 2-7/16"  | 114773     | 28          |                |                  |              |
|              | 2-1/2"   | 114774     | 26.7        |                |                  |              |
|              | 2-9/16"  | 114775     | 26.4        | 5/8 x 5/16     | 5/8 x 5/16       | 5/8 x 5/8    |
|              | 2-5/8"   | 114776     | 25.9        |                |                  |              |
|              | 2-11/16" | 114777     | 25.4        |                |                  |              |
|              | 2-3/4"   | 114778     | 25          |                |                  |              |
|              | 2-13/16" | 114779     | 24.9        |                |                  |              |
|              | 2-7/8"   | 114780     | 24.8        |                |                  |              |
|              | 2-15/16" | 114781     | 24.2        |                |                  |              |
|              | 3"       | 114782     | 24.2        | 3/4 x 3/8      | 3/4 x 3/8        | 3/4 x 3/4    |
|              | 3-1/16"  | 114783     | 24.2        |                |                  |              |
|              | 3-1/8"   | 114784     | 24.1        |                |                  |              |
|              | 3-3/16"  | 114785     | 23.8        |                |                  |              |
|              | 3-1/4"   | 114786     | 23.1        |                |                  |              |
|              | 3-5/16"  | 114787     | 22.7        | 7/8 x 7/16     | 7/8 x 7/16       | 7/8 x 7/8    |
|              | 3-3/8"   | 114788     | 22.4        |                |                  |              |
|              | 3-7/16"  | 114789     | 21.5        |                |                  |              |
|              | 3-1/2"   | 114790     | 21.3        |                |                  |              |
|              | 3-9/16"  | 114791     | 21.1        |                |                  |              |
|              | 3-5/8"   | 114792     | 21          |                |                  |              |
|              | 3-11/16" | 114793     | 20.3        |                |                  |              |
|              | 3-3/4"   | 114794     | 19.9        |                |                  |              |
|              | 3-13/16" | 114795     | 19.6        |                |                  |              |
|              | 3-7/8"   | 114796     | 19.3        |                |                  |              |
|              | 3-15/16" | 114797     | 18.9        | 1 x 1/2        | 1 x 1/2          | 1 x 1        |
| 4"           | 114798   | 18.7       |             |                |                  |              |
| 4-1/8"       | 114799   | 18.6       |             |                |                  |              |
| 4-3/16"      | 114800   | 18.5       |             |                |                  |              |
| 4-1/4"       | 114801   | 17.8       |             |                |                  |              |
| 4-3/8"       | 114802   | 16.8       | 1 x 1/4     | 1 x 1/2        | 1 x 3/4 Δ        |              |
| 4-7/16"      | 114803   | 15.4       |             |                |                  |              |
| 4-1/2"       | 114804   | 15.3       |             |                |                  |              |
| 4-3/4" #     | 114805   | 15.2       |             |                |                  |              |
| 4-7/8" #     | 114806   | 15.1       |             |                |                  |              |
| 4-15/16" #   | 114807   | 14.9       | 1-1/4 x 1/4 | 1-1/4 x 5/8    | 1-1/4 x 7/8 Δ    |              |
| 1-15/16"     | 117416   | 29.9       |             |                |                  |              |
| 2"           | 117417   | 29.8       |             |                |                  |              |
| 2-1/8"       | 117849   | 29.8       |             |                |                  |              |
| 2-3/16"      | 117419   | 29         | 1/2 x 1/4   | 1/2 x 1/4      | 1/2 x 1/2        |              |
| 2-3/8"       | 117421   | 28.2       |             |                |                  |              |
| 2-7/16"      | 117422   | 27.9       |             |                |                  |              |
| 2-1/2"       | 117850   | 27.5       | 5/8 x 5/16  | 5/8 x 5/16     | 5/8 x 5/8        |              |
| 2-5/8"       | 117424   | 27         |             |                |                  |              |
| 2-3/4"       | 117426   | 26.5       |             |                |                  |              |
| 2-7/8"       | 117427   | 25.7       |             |                |                  |              |
| 2-15/16"     | 117428   | 25.3       |             |                |                  |              |
| 3"           | 117429   | 25.2       | 3/4 x 3/8   | 3/4 x 3/8      | 3/4 x 3/4        |              |
| 3-1/8"       | 117430   | 24.3       |             |                |                  |              |
| 3-3/16"      | 117431   | 24.2       |             |                |                  |              |
| 3-1/4"       | 117432   | 23.9       |             |                |                  |              |
| 3-3/8"       | 117433   | 22.8       | 7/8 x 7/16  | 7/8 x 7/16     | 7/8 x 7/8        |              |
| 3-7/16"      | 117434   | 22.6       |             |                |                  |              |
| 3-1/2"       | 117435   | 22.1       |             |                |                  |              |
| 3-5/8"       | 117413   | 21.2       |             |                |                  |              |
| 3-3/4"       | 117436   | 20.3       |             |                |                  |              |
| 3-7/8"       | 117437   | 19.5       | 1 x 1/2     | 1 x 1/2        | 1 x 1            |              |
| 3-15/16"     | 117438   | 19         |             |                |                  |              |
| 4"           | 117439   | 18.6       |             |                |                  |              |
| 4-1/8"       | 117444   | 17.5       |             |                |                  |              |
| 4-3/16"      | 117443   | 17.1       |             |                |                  |              |
| 4-1/4"       | 117441   | 17         | 1 x 1/4     | 1 x 1/2        | 1 x 3/4          |              |
| 4-3/8"       | 117442   | 16.9       |             |                |                  |              |

|                                     |                                 |                            |                            |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|
| T-L FEATURES/BENEFITS<br>PAGE PT6-2 | T-L SPECIFICATION<br>PAGE PT6-3 | QD BUSHINGS<br>PAGE PT6-16 | GT BUSHINGS<br>PAGE PT6-28 |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|



# SPECIFICATION

## TAPER-LOCK Bushings - Stock Bore

| TL Bush Size | Bore       | P/N Keyway | WT.         | Bushing Keyway | Shaft Keyway REF | Key Size REF  |             |               |
|--------------|------------|------------|-------------|----------------|------------------|---------------|-------------|---------------|
| 4545 (cont)  | 4-7/16"    | 117440     | 16.5        | 1 x 1/4        | 1 x 1/2          | 1 x 3/4 Δ     |             |               |
|              | 4-1/2"     | 117447     | 15.9        |                |                  |               |             |               |
|              | 4-3/4" #   | 117718     | 13.9        | 1-1/4 x 1/4    | 1-1/4 x 5/8      | 1-1/4 x 7/8 Δ |             |               |
|              | 4-7/8" #   | 117719     | 12.9        |                |                  |               |             |               |
|              | 4-15/16" # | 117705     | 12.5        |                |                  |               |             |               |
| 5040         | 2-7/16"    | 114865     | 39.5        | 5/8 x 5/16     | 5/8 x 5/16       | 5/8 x 5/8     |             |               |
|              | 2-1/2"     | 114866     | 38.3        |                |                  |               |             |               |
|              | 2-9/16"    | 114867     | 37.7        |                |                  |               |             |               |
|              | 2-5/8"     | 114868     | 37.1        |                |                  |               |             |               |
|              | 2-11/16"   | 114869     | 36.9        |                |                  |               |             |               |
|              | 2-3/4"     | 114870     | 36.6        | 3/4 x 3/8      | 3/4 x 3/8        | 3/4 x 3/4     |             |               |
|              | 2-13/16"   | 114871     | 36.5        |                |                  |               |             |               |
|              | 2-7/8"     | 114872     | 36.4        |                |                  |               |             |               |
|              | 2-15/16"   | 114873     | 36.2        |                |                  |               |             |               |
|              | 3"         | 114874     | 35.6        |                |                  |               |             |               |
|              | 3-1/16"    | 114875     | 35.2        | 7/8 x 7/16     | 7/8 x 7/16       | 7/8 x 7/8     |             |               |
|              | 3-1/8"     | 114876     | 34.8        |                |                  |               |             |               |
|              | 3-3/16"    | 114877     | 33.9        |                |                  |               |             |               |
|              | 3-1/4"     | 114878     | 33.2        |                |                  |               |             |               |
|              | 3-5/16"    | 114879     | 33          |                |                  |               |             |               |
|              | 3-3/8"     | 114880     | 32.7        | 1 x 1/2        | 1 x 1/2          | 1 x 1         |             |               |
|              | 3-7/16"    | 114881     | 32          |                |                  |               |             |               |
|              | 3-1/2"     | 114882     | 31.7        |                |                  |               |             |               |
|              | 3-9/16"    | 114883     | 31.4        |                |                  |               |             |               |
|              | 3-5/8"     | 114884     | 31.1        |                |                  |               |             |               |
| 3-11/16"     | 114885     | 30.4       |             |                |                  |               |             |               |
| 3-3/4"       | 114886     | 29.7       |             |                |                  |               |             |               |
| 3-13/16"     | 114887     | 29.4       |             |                |                  |               |             |               |
| 3-7/8"       | 114888     | 29         |             |                |                  |               |             |               |
| 3-15/16"     | 114889     | 28.7       |             |                |                  |               |             |               |
| 4"           | 114890     | 27.8       | 1-1/4 x 1/4 | 1-1/4 x 5/8    | 1-1/4 x 7/8 Δ    |               |             |               |
| 4-1/8"       | 114891     | 27.5       |             |                |                  |               |             |               |
| 4-3/16"      | 114892     | 27.2       |             |                |                  |               |             |               |
| 4-1/4"       | 114893     | 27         |             |                |                  |               |             |               |
| 4-3/8"       | 114894     | 26         |             |                |                  |               |             |               |
| 4-7/16"      | 114895     | 25.1       | 5/8 x 5/16  | 5/8 x 5/16     | 5/8 x 5/8        |               |             |               |
| 4-1/2"       | 114896     | 23.6       |             |                |                  |               |             |               |
| 4-3/4"       | 114897     | 22.9       |             |                |                  |               |             |               |
| 4-7/8"       | 114898     | 22.2       |             |                |                  |               |             |               |
| 4-15/16"     | 114899     | 20.6       |             |                |                  |               |             |               |
| 5"           | 114900     | 20.5       | 3/4 x 3/8   | 3/4 x 3/8      | 3/4 x 3/4        |               |             |               |
| 2-7/16"      | 117458     | 39         |             |                |                  |               |             |               |
| 2-11/16"     | 117450     | 37.4       |             |                |                  |               |             |               |
| 2-15/16"     | 117459     | 36         |             |                |                  |               |             |               |
| 3-3/8"       | 117452     | 33         |             |                |                  |               |             |               |
| 3-7/16"      | 117460     | 32.6       |             |                |                  |               |             |               |
| 3-5/8"       | 117453     | 31.2       |             |                |                  |               |             |               |
| 3-7/8"       | 117454     | 29.3       |             |                |                  | 1 x 1/2       | 1 x 1/2     | 1 x 1         |
| 3-15/16"     | 117461     | 28.6       |             |                |                  |               |             |               |
| 4"           | 117466     | 28.3       |             |                |                  |               |             |               |
| 4-1/4"       | 117465     | 26.2       |             |                |                  |               |             |               |
| 4-3/8"       | 117469     | 25         |             |                |                  |               |             |               |
| 4-7/16"      | 117462     | 24.4       | 1-1/4 x 1/4 | 1-1/4 x 5/8    | 1-1/4 x 7/8 Δ    |               |             |               |
| 4-1/2"       | 117467     | 23.9       |             |                |                  |               |             |               |
| 4-5/8"       | 117734     | 23         |             |                |                  |               |             |               |
| 4-7/8"       | 117468     | 22.3       |             |                |                  |               |             |               |
| 4-15/16"     | 117463     | 21.4       |             |                |                  |               |             |               |
| 5"           | 117464     | 20.9       | 28 X 6.4MM  | 28 X 10MM      | 28 X 16MM        |               |             |               |
| 110MM        | 117736     | 26.2       |             |                |                  |               |             |               |
| 4-7/16"      | 117474     | 63.6       |             |                |                  | 1-1/4 x 5/8   | 1-1/4 x 5/8 | 1-1/4 x 1-1/4 |
| 4-15/16"     | 117473     | 58.2       |             |                |                  |               |             |               |
| 5-7/16"      | 117475     | 52.3       |             |                |                  |               |             |               |
| 5-15/16"     | 117476     | 57.2       |             |                |                  |               |             |               |
| 6"           | 117477     | 46.4       |             |                |                  |               |             |               |

| TL Bush Size | Bore     | P/N Keyway | WT.   | Bushing Keyway | Shaft Keyway REF | Key Size REF  |
|--------------|----------|------------|-------|----------------|------------------|---------------|
| 7060         | 4-15/16" | 117490     | 92    | 1-1/4 x 5/8    | 1-1/4 x 5/8      | 1-1/4 x 1-1/4 |
|              | 5-7/16"  | 117491     | 84.5  |                |                  |               |
|              | 5-15/16" | 117492     | 78.2  | 1-1/2 x 3/4    | 1-1/2 x 3/4      | 1-1/2 x 1-1/2 |
|              | 6"       | 117493     | 76.6  |                |                  |               |
|              | 6-7/16"  | 117494     | 68.1  |                |                  |               |
|              | 6-1/2"   | 117495     | 68.7  |                |                  |               |
| 8065         | 6-15/16" | 117496     | 62.1  | 1-3/4 x 3/4    | 1-3/4 x 3/4      | 1-3/4 x 1-1/2 |
|              | 7" #     | 117497     | 60.6  |                |                  |               |
|              | 5-7/16"  | 117479     | 98.6  | 1-1/4 x 5/8    | 1-1/4 x 5/8      | 1-1/4 x 1-1/4 |
|              | 5-15/16" | 117480     | 105.7 |                |                  |               |
|              | 6-7/16"  | 117481     | 102.3 | 1-1/2 x 3/4    | 1-1/2 x 3/4      | 1-1/2 x 1-1/2 |
|              | 6-1/2"   | 117482     | 101.8 |                |                  |               |
|              | 6-15/16" | 117488     | 92    | 1-3/4 x 3/4    | 1-3/4 x 3/4      | 1-3/4 x 1-1/2 |
|              | 7"       | 117483     | 91.1  |                |                  |               |
|              | 7-1/2"   | 117503     | 89.9  |                |                  |               |
|              | 8" #     | 117484     | 89.9  |                |                  |               |
| 10085        | 7"       | 117486     | 245   | 1-3/4 x 3/4    | 1-3/4 x 3/4      | 1-3/4 x 1-1/2 |
|              | 8"       | 117485     | 219   |                |                  |               |
|              | 8-1/4"   | 117411     | 210   | 2 x 3/4        | 2 x 3/4          | 2 x 1-1/2     |
|              | 9"       | 117487     | 190   |                |                  |               |
|              | 10"      | 117510     | 157.5 | 2-1/2 x 7/8    | 2-1/2 x 7/8      | 2-1/2 x 1-3/4 |
| 120100       | 8"       | 117522     | 410   | 2 x 3/4        | 2 x 3/4          | 2 x 1-1/2     |
|              | 8-1/2"   | 117523     | 395   |                |                  |               |
|              | 9"       | 117520     | 380   |                |                  |               |
|              | 9-1/2"   | 117524     | 365   | 2-1/2 x 7/8    | 2-1/2 x 7/8      | 2-1/2 x 1-3/4 |
|              | 10"      | 117521     | 350   |                |                  |               |
|              | 10-1/2"  | 117525     | 335   |                |                  |               |
|              | 11"      | 117526     | 320   |                |                  |               |
|              | 11-1/2"  | 117527     | 305   |                |                  |               |
| 12" #        | 117508   | 290        | 3 x 1 | 3 x 1          | 3 x 2            |               |

Δ Key furnished for these sizes ONLY

+ These sizes are STEEL

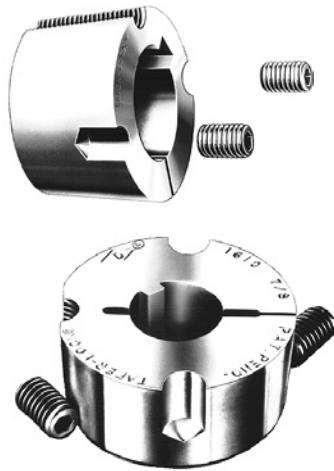
# Refer to torque capacity ratings on page PT6-3. If service factor of 2.0 or greater is required consult DODGE

|                                     |                                 |                            |                            |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|
| T-L FEATURES/BENEFITS<br>PAGE PT6-2 | T-L SPECIFICATION<br>PAGE PT6-3 | QD BUSHINGS<br>PAGE PT6-16 | GT BUSHINGS<br>PAGE PT6-28 |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|



# SPECIFICATION

## TAPER-LOCK Bushings - Reborable



**NOTE:**

All reborable bushings are stocked without sawsplit to facilitate re-machining. Sawsplit must be made in bushing to allow it to compress for proper gripping of the shaft. Factory rebores and keyseat service as listed in MLP price book includes sawsplit

| TL Bush Size | Sintered Steel |        | Cast Iron |        | Ductile Iron |        | Steel   |        | Stainless Steel |        |
|--------------|----------------|--------|-----------|--------|--------------|--------|---------|--------|-----------------|--------|
|              | Bore           | P/N    | Bore      | P/N    | Bore         | P/N    | Bore    | P/N    | Bore            | P/N    |
| 1008         | 1/2"           | 119187 |           |        |              |        | 1/2"    | 119432 | 1/2"            | 119410 |
| 1108         | 1/2"           | 119361 |           |        |              |        | 1/2"    | 119433 | 1/2"            | 119411 |
| 1210         | 1/2"           | 119206 |           |        |              |        | 1/2"    | 119434 | 1/2"            | 119412 |
| 1215         | 1/2"           | 119023 |           |        |              |        | 1/2"    | 119435 | 1/2"            | 119413 |
| 1310         | 1/2"           | 119386 |           |        |              |        | 1/2"    | 119436 | 1/2"            | 119414 |
| 1610         | 1/2"           | 119209 |           |        |              |        | 1/2"    | 119421 | 1/2"            | 119415 |
| 1615         | 1/2"           | 119067 |           |        |              |        | 1/2"    | 119437 | 1/2"            | 119416 |
| 2012         | 1/2"           | 119272 |           |        |              |        | 1/2"    | 119422 | 1/2"            | 119417 |
| 2517         | 1/2"           | 119141 |           |        |              |        | 1"      | 119423 | 5/8"            | 119418 |
| 2525         |                |        |           |        |              |        | 1-7/16" | 119429 |                 |        |
| 3020         | 7/8"           | 117147 |           |        |              |        | 1-7/16" | 119430 | 7/8"            | 119419 |
| 3020         | 1-11/16"       | 117149 |           |        |              |        |         |        |                 |        |
| 3030         |                |        | 15/16"    | 117045 |              |        | 1-7/16" | 119431 |                 |        |
| 3525         |                |        | 1-3/16"   | 119700 | 1-3/16"      | 119701 |         |        |                 |        |
| 3535         |                |        | 1-3/16"   | 117250 | 1-7/16"      | 117205 |         |        |                 |        |
| 4030         |                |        | 1-7/16"   | 119789 | 1-15/16"     | 119790 |         |        |                 |        |
| 4040         |                |        | 1-7/16"   | 117345 | 1-15/16"     | 117307 |         |        |                 |        |
| 4535         |                |        | 1-15/16"  | 119766 | 2-7/16"      | 119767 |         |        |                 |        |
| 4545         |                |        | 1-15/16"  | 117448 | 2-7/16"      | 117414 |         |        |                 |        |
| 5040         |                |        | 2-7/16"   | 119768 | 2-15/16"     | 119769 |         |        |                 |        |
| 5050         |                |        | 2-7/16"   | 117451 | 2-15/16"     | 117455 |         |        |                 |        |
| 6050         |                |        | 3-7/16"   | 117472 | 3-7/16"      | 117471 |         |        |                 |        |
| 7060         |                |        | 3-15/16"  | 117498 | 3-15/16"     | 117505 |         |        |                 |        |
| 8065         |                |        | 4-7/16"   | 117502 | 4-7/16"      | 117506 |         |        |                 |        |
| 10085        |                |        | 7"        | 117489 |              |        |         |        |                 |        |
| 120100       |                |        | 8"        | 117504 |              |        |         |        |                 |        |

## TAPER-LOCK Bushings - Maximum Bore Capacities (Inches)

| TL Bush Size | Sintered Steel |             |          | Cast Iron |             |          | Ductile Iron |             |          | Steel    |             |          |
|--------------|----------------|-------------|----------|-----------|-------------|----------|--------------|-------------|----------|----------|-------------|----------|
|              | Full Key       | Shallow Key | No * Key | Full Key  | Shallow Key | No * Key | Full Key     | Shallow Key | No * Key | Full Key | Shallow Key | No * Key |
| 1008         | 7/8"           | 1"          | 1"       |           |             |          |              |             |          | 7/8"     | 1"          | 1"       |
| 1108         | 1"             | 1-1/8"      | 1-1/8"   |           |             |          |              |             |          | 1"       | 1-1/8"      | 1-1/8"   |
| 1210         | 1-1/4"         | 1-1/4"      | 1-1/4"   |           |             |          |              |             |          | 1-1/4"   | 1-1/4"      | 1-1/4"   |
| 1215         | 1-1/4"         | 1-1/4"      | 1-1/4"   |           |             |          |              |             |          | 1-1/4"   | 1-1/4"      | 1-1/4"   |
| 1310         | 1-3/8"         | 1-3/8"      | 1-3/8"   |           |             |          |              |             |          | 1-3/8"   | 1-7/16"     | 1-7/16"  |
| 1610         | 1-1/2"         | 1-5/8"      | 1-5/8"   |           |             |          |              |             |          | 1-5/8"   | 1-11/16"    | 1-11/16" |
| 1615         | 1-1/2"         | 1-5/8"      | 1-5/8"   |           |             |          |              |             |          | 1-5/8"   | 1-11/16"    | 1-11/16" |
| 2012         | 1-7/8"         | 2"          | 2"       |           |             |          |              |             |          | 2"       | 2-1/8"      | 2-1/8"   |
| 2517         | 2-1/4"         | 2-1/2"      | 2-1/2"   |           |             |          |              |             |          | 2-7/16"  | 2-11/16"    | 2-11/16" |
| 2525         |                |             |          | 2-1/4"    | 2-1/2"      | 2-1/2"   |              |             |          | 2-3/8"   | 2-11/16"    | 2-11/16" |
| 3020         | 2-3/4"         | 3"          | 3"       | 2-3/4"    | 3"          | 3"       |              |             |          | 3"       | 3-1/4"      | 3-1/4"   |
| 3030         |                |             |          | 2-3/4"    | 3"          | 3"       |              |             |          | 3"       | 3-1/4"      | 3-1/4"   |
| 3525         |                |             |          | 3-1/4"    | 3-1/2"      | 3-1/2"   | 3-1/2"       | 3-15/16"    | 3-15/16" |          |             |          |
| 3535         |                |             |          | 3-1/4"    | 3-1/2"      | 3-1/2"   | 3-1/2"       | 3-15/16"    | 3-15/16" |          |             |          |
| 4030         |                |             |          | 3-5/8"    | 4"          | 4"       | 4"           | 4-7/16"     | 4-7/16"  |          |             |          |
| 4040         |                |             |          | 3-5/8"    | 4"          | 4"       | 4"           | 4-7/16"     | 4-7/16"  |          |             |          |
| 4535         |                |             |          | 4-1/2"    | 4-1/2"      | 4-1/2"   | 4-1/2"       | 4-15/16"    | 4-15/16" |          |             |          |
| 4545         |                |             |          | 4-1/2"    | 4-1/2"      | 4-1/2"   | 4-1/2"       | 4-15/16"    | 4-15/16" |          |             |          |
| 5040         |                |             |          | 4-1/2"    | 5"          | 5"       | 5"           | 5-5/16"     | 5-5/16"  |          |             |          |
| 5050         |                |             |          | 4-1/2"    | 5"          | 5"       | 5"           | 5-5/16"     | 5-5/16"  |          |             |          |
| 6050         |                |             |          | 6"        | 6"          | 6"       | 6"           | 6"          | 6"       |          |             |          |
| 7060         |                |             |          | 7"        | 7"          | 7"       | 7"           | 7"          | 7"       |          |             |          |
| 8065         |                |             |          | 8"        | 8"          | 8"       | 8"           | 8"          | 8"       |          |             |          |
| 10085        |                |             |          | 10"       | 10"         | 10"      | 10"          | 10"         | 10"      |          |             |          |
| 120100       |                |             |          | 12"       | 12"         | 12"      | 12"          | 12"         | 12"      |          |             |          |

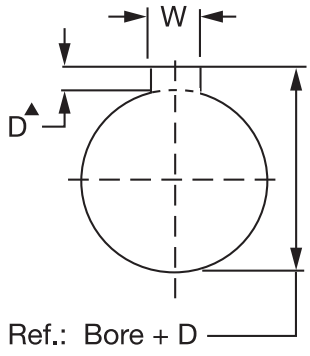
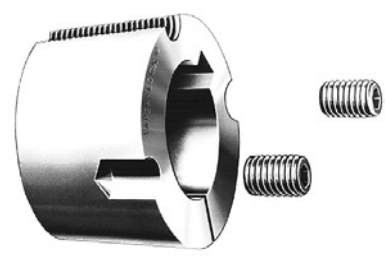
\* Verify torque capacity: Contact Application Engineering for assistance

|                                     |                                 |                            |                            |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|
| T-L FEATURES/BENEFITS<br>PAGE PT6-2 | T-L SPECIFICATION<br>PAGE PT6-3 | QD BUSHINGS<br>PAGE PT6-16 | GT BUSHINGS<br>PAGE PT6-28 |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|



# SPECIFICATION

## TAPER-LOCK Bushings - Reborable



ISO STANDARD METHOD FOR MEASURING KEYSEAT DEPTH.

▲ Depth measured at centerline

### TAPER-LOCK Bushings - Maximum Bore Capacities (Metric)

| TL Bush Size | Min Bore | Sintered Steel |             |         | Cast Iron |             |         | Ductile Iron |             |         | Steel    |             |         |
|--------------|----------|----------------|-------------|---------|-----------|-------------|---------|--------------|-------------|---------|----------|-------------|---------|
|              |          | Full Key       | Shallow Key | No Key* | Full Key  | Shallow Key | No Key* | Full Key     | Shallow Key | No Key* | Full Key | Shallow Key | No Key* |
| 1008         | 13       | 22             | 25          | 25      |           |             |         |              |             |         | 22       | 22          | 26      |
| 1108         | 13       | 25             | 25          | 29      |           |             |         |              |             |         | 25       | 28          | 29      |
| 1210         | 13       | 32             | 32          | 32      |           |             |         |              |             |         | 32       | 32          | 32      |
| 1215         | 13       | 32             | 32          | 32      |           |             |         |              |             |         | 32       | 32          | 32      |
| 1310         | 13       | 35             | 35          | 35      |           |             |         |              |             |         | 35       | 35          | 36      |
| 1610         | 13       | 40             | 40          | 40      |           |             |         |              |             |         | 42       | 42          | 44      |
| 1615         | 13       | 39             | 39          | 39      |           |             |         |              |             |         | 42       | 42          | 44      |
| 2012         | 13       | 50             | 50          | 51      |           |             |         |              |             |         | 50       | 50          | 55      |
| 2517         | 13       | 60             | 60          | 64      |           |             |         |              |             |         | 65       | 65          | 68      |
| 2525         | 20       |                |             |         | 60        | 60          | 64      |              |             |         | 65       | 65          | 68      |
| 3020         | 24       | 75             | 75          | 76      |           |             |         |              |             |         | 80       | 80          | 82      |
| 3030         | 24       |                |             |         | 75        | 75          | 76      |              |             |         | 80       | 80          | 82      |
| 3525         | 31       |                |             |         | 90        | 90          | 90      | 95           | 100         | 100     |          |             |         |
| 3535         | 31       |                |             |         | 85        | 85          | 85      | 95           | 95          | 100     |          |             |         |
| 4030         | 37       |                |             |         | 100       | 100         | 102     | 110          | 115         | 115     |          |             |         |
| 4040         | 37       |                |             |         | 100       | 100         | 102     | 105          | 105         | 113     |          |             |         |
| 4535         | 50       |                |             |         | 110       | 110         | 114     | 125          | 125         | 125     |          |             |         |
| 4545         | 50       |                |             |         | 110       | 110         | 114     | 115          | 115         | 125     |          |             |         |
| 5040         | 61       |                |             |         | 125       | 125         | 127     | 127          | 127         | 134     |          |             |         |
| 5050         | 61       |                |             |         | 125       | 125         | 127     | 127          | 127         | 134     |          |             |         |
| 6050         | 88       |                |             |         | 152       | 152         | 152     | 152          | 152         | 152     |          |             |         |
| 7060         | 100      |                |             |         | 177       | 177         | 177     | 180          | 180         | 180     |          |             |         |
| 8065         | 117      |                |             |         | 203       | 203         | 203     | 203          | 203         | 203     |          |             |         |
| 10085        | 178      |                |             |         | 254       | 254         | 254     | 254          | 254         | 254     |          |             |         |
| 120100       | 204      |                |             |         | 304       | 304         | 304     | 304          | 304         | 304     |          |             |         |

**NOTE:** ISO STANDARD METHOD FOR MEASURING KEYSEAT DEPTH  
 MM Bore and Keyway dimensions conform to ISO standard recommendation R773, for "Free" fit  
 \* Verify torque capability. Contact Application Engineering for assistance.

**REFERENCE:**  
 1 inch = 25.4 millimeters  
 1 millimeter = 0.03937 inches

|                                     |                                 |                            |                            |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|
| T-L FEATURES/BENEFITS<br>PAGE PT6-2 | T-L SPECIFICATION<br>PAGE PT6-3 | QD BUSHINGS<br>PAGE PT6-16 | GT BUSHINGS<br>PAGE PT6-28 |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|



# SPECIFICATION

## TAPER-LOCK Weld-On Hubs



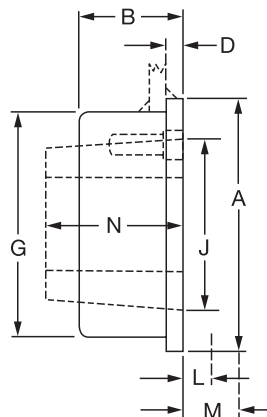
DODGE Weld-On hubs are made of 1015-1025 steel, drilled, tapped, and taper bored to receive TAPER-LOCK bushings. They are useful for welding into fan rotors, pulleys, plate sprockets, impellers, agitators, etc. which must be firmly mounted onto shafting. Four types of hubs are available from stock:

**TYPE W/WA:** Rugged, full length size for single-hub heavy-duty applications.

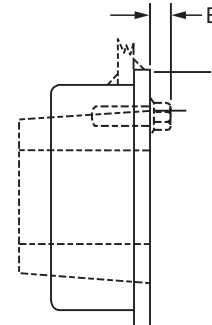
**TYPE K:** More compact design, especially useful for two-hub construction such as conveyor pulleys.

**TYPE S:** Originally designed for use in smaller sprockets using up to Taper-Lock size 3535 bushings. Suitable for many other lighter-duty applications.

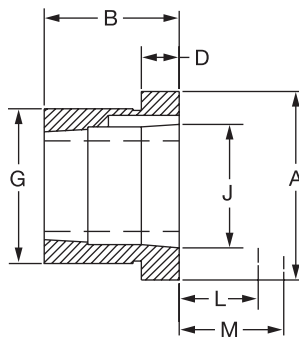
**TYPE F:** Features a larger flange diameter that can be welded into standard steel tubing to fabricate conveyor pulleys or process rolls.



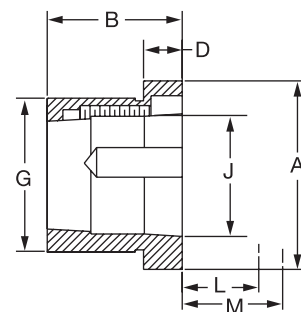
K25 to K50



K60 to K120



W12 to WA30



WA35 to WA100

### TAPER-LOCK Type K And Type W/WA Weld-On Hubs

| Hub No. | Part No. | Uses Bush. | Max. Bore | Wt. lbs. | Dimensions |      |      |      |         |        |      |        |       |             | Tolerances     |               |
|---------|----------|------------|-----------|----------|------------|------|------|------|---------|--------|------|--------|-------|-------------|----------------|---------------|
|         |          |            |           |          | A          | B+   | D    | E    | G       | J Ref. | L++  | M**    | N     | G Dimension |                |               |
| W12     | 228010   | 1215       | 1-1/4     | 1.2      | 2.88       | 1.50 | 0.63 | ...  | 2.500*  | 1.88   | 1.38 | 1.63   | 1.50  | *           | + .000/- .002  |               |
| W16     | 228011   | 1615       | 1-11/16   | 1.3      | 3.25       | 1.50 | 0.63 | ...  | 2.875*  | 2.25   | 1.38 | 1.63   | 1.50  | @           | + .000/- .003  |               |
| W25     | 228012   | 2517       | 2-11/16   | 3.9      | 4.88       | 1.75 | 0.75 | ...  | 4.375*  | 3.38   | 1.63 | 2.25   | 1.75  | ~           | + .000/- .004  |               |
| WA30    | 228087   | 3030       | 3-1/4     | 8.6      | 5.50       | 3.00 | 0.75 | ...  | 5.125*  | 4.25   | 1.81 | 2.69   | 3.00  |             |                |               |
| WA35    | 228088   | 3535       | 3-15/16   | 15       | 6.75       | 3.50 | 1.00 | ...  | 6.250*  | 5.00   | 2.00 | 3.33 - | 3.50  |             | B Dimension    |               |
| WA40    | 228089   | 4040       | 4-7/16    | 29       | 7.75       | 4.00 | 1.00 | ...  | 7.250*  | 5.75   | 2.38 | 4.13   | 4.00  |             | W/WA Hubs Only |               |
| WA45    | 228090   | 4545       | 4-15/16   | 42       | 8.75       | 4.50 | 1.00 | ...  | 8.000*  | 6.38   | 2.63 | 4.75   | 4.50  |             | +              | + .001/- .125 |
| WA50    | 228091   | 5050       | 5         | 57       | 9.50       | 5.00 | 1.00 | ...  | 8.750@  | 7.00   | 2.19 | 5.25   | 5.00  |             |                |               |
| WA60    | 228092   | 6050       | 6         | 115      | 13.25      | 5.00 | 1.25 | 1.44 | 12.250~ | 9.25   | 1.63 | 4.33   | 5.00  |             |                |               |
| WA70    | 228093   | 7060       | 7         | 158      | 14.5       | 6.00 | 1.25 | 1.44 | 13.500~ | 10.25  | 1.63 | 4.33   | 6.00  |             |                |               |
| WA80    | 228094   | 8065       | 8         | 180      | 15.25      | 6.50 | 1.25 | 1.44 | 14.125~ | 11.25  | 1.63 | 4.33   | 6.50  |             |                |               |
| WA100   | 228095   | 10085      | 10        | 340      | 19.75      | 8.50 | 1.50 | 1.75 | 18.750~ | 14.75  | 2.00 | 5.33   | 8.50  |             |                |               |
| K25     | 207156   | 2517       | 2-11/16   | 3.6      | 4.88       | 1.50 | 0.38 | ...  | 4.375*  | 3.38   | 1.63 | 2.25   | 1.75  |             |                |               |
| K30     | 207157   | 3020       | 3-1/4     | 7.8      | 5.50       | 1.63 | 0.75 | ...  | 5.125*  | 4.25   | 1.81 | 2.69   | 2.00  |             |                |               |
| K35     | 228080   | 3535       | 3-15/16   | 9.8      | 6.75       | 1.63 | 0.75 | ...  | 6.250*  | 5.00   | 2.00 | 3.33   | 3.50  |             |                |               |
| K40     | 228081   | 4040       | 4-7/16    | 10.8     | 7.75       | 2.13 | 0.50 | ...  | 7.250*  | 5.75   | 2.63 | 4.13   | 4.00  |             |                |               |
| K45     | 228082   | 4545       | 4-15/16   | 15.2     | 8.50       | 2.63 | 0.63 | ...  | 8.000*  | 6.83   | 2.63 | 4.75   | 4.50  |             |                |               |
| K50     | 228083   | 5050       | 5         | 29       | 9.25       | 2.88 | 0.63 | ...  | 8.750@  | 7.00   | 2.81 | 5.25   | 5.00  |             |                |               |
| K60     | 228084   | 6050       | 6         | 44       | 12.75      | 2.88 | 0.63 | 1.44 | 12.250~ | 9.25   | 1.63 | 4.33   | 5.00  |             |                |               |
| K70     | 228085   | 7060       | 7         | 60       | 14.00      | 3.38 | 0.75 | 1.44 | 13.500~ | 10.25  | 1.63 | 4.33   | 6.00  |             |                |               |
| K80     | 228086   | 8065       | 8         | 65       | 14.75      | 3.63 | 0.75 | 1.44 | 14.125~ | 11.25  | 1.63 | 4.33   | 6.5   |             |                |               |
| K100    | 228079   | 10085      | 10        | 128      | 19.25      | 4.13 | 1.00 | 1.75 | 18.750~ | 14.75  | 2.00 | 5.33   | 8.50  |             |                |               |
| K120    | 228058   | 120100     | 12        | 225      | 22.25      | 5.38 | 1.00 | 1.75 | 21.750~ | 17.25  | 2.00 | 5.33   | 10.00 |             |                |               |

++ Wrench clearance required to install bushing.

\*\* Wrench clearance required to remove bushing.

|                                     |                                 |                            |                            |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|
| T-L FEATURES/BENEFITS<br>PAGE PT6-2 | T-L SPECIFICATION<br>PAGE PT6-3 | QD BUSHINGS<br>PAGE PT6-16 | GT BUSHINGS<br>PAGE PT6-28 |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|



## SPECIFICATION

### TAPER-LOCK Weld-On Hubs

#### Type S Weld-On Hubs

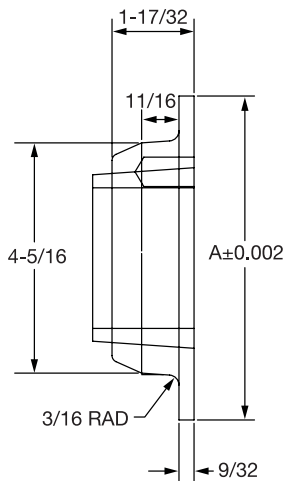
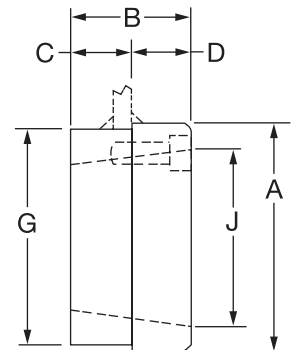
| Hub No. | Part No. | Uses Bush. | Bore Range         | Wt.   | Dimensions |      |       |      |       |               |        |
|---------|----------|------------|--------------------|-------|------------|------|-------|------|-------|---------------|--------|
|         |          |            |                    |       | A          | B    | C     | D    | G     | G Toler.      | J Ref. |
| S16-4   | 097023   | 1610       | 1/2 to 1-11/16"    | .90   | 3.00       | 1.00 | 0.275 | .73  | 2.875 | +0.000/-0.002 | 2.25   |
| S16-6   | 097024   | 1610       | 1/2 to 1-11/16"    | .90   | 3.00       | 1.00 | 0.45  | .55  | 2.875 | +0.000/-0.002 | 2.25   |
| S20-6   | 097025   | 2012       | 1/2 to 2-1/8"      | 1.80  | 3.56       | 1.25 | 0.45  | .80  | 3.438 | +0.000/-0.002 | 2.75   |
| S20-8   | 097015   | 2012       | 1/2 to 2-1/8"      | 1.40  | 3.56       | 1.25 | 0.57  | .68  | 3.438 | +0.000/-0.002 | 2.75   |
| S25-6   | 097016   | 2517       | 1/2 to 2-11/16"    | 2.60  | 4.25       | 1.75 | 0.45  | 1.3  | 4.125 | +0.000/-0.002 | 3.33   |
| S25-8   | 097017   | 2517       | 1/2 to 2-11/16"    | 2.60  | 4.25       | 1.75 | 0.565 | 1.19 | 4.125 | +0.000/-0.002 | 3.33   |
| S25-10  | 097018   | 2517       | 1/2 to 2-11/16"    | 2.50  | 4.25       | 1.75 | 0.685 | 1.07 | 4.125 | +0.000/-0.002 | 3.33   |
| S25-16  | 097019   | 2517       | 1/2 to 2-11/16"    | 2.40  | 4.25       | 1.75 | 1.09  | .66  | 4.125 | +0.000/-0.002 | 3.33   |
| S30-10  | 097020   | 3020       | 15/16 to 3-1/4"    | 4.30  | 5.25       | 2.00 | 0.675 | 1.33 | 5.125 | +0.000/-0.002 | 4.25   |
| S30-16  | 097021   | 3020       | 15/16 to 3-1/4"    | 4.20  | 5.25       | 2.00 | 1.09  | .91  | 5.125 | +0.000/-0.002 | 4.25   |
| S35     | 097022   | 3535       | 1-3/16 to 3-15/16" | 12.80 | 6.50       | 3.50 | 1.16  | 2.34 | 6.375 | +0.000/-0.002 | 5.00   |

#### TAPER-LOCK Type F Weld-On Hubs

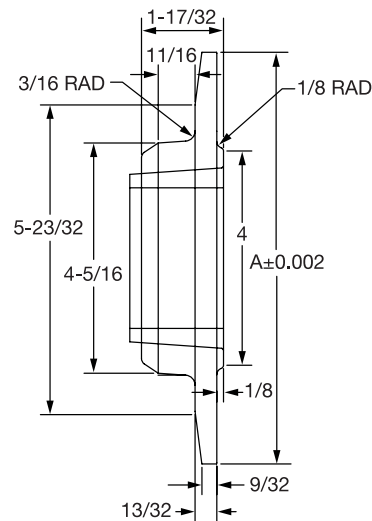
| Hub No. | Part No. | Uses Bush. | Bore Range      | Wt. | A     |
|---------|----------|------------|-----------------|-----|-------|
| 6F25P   | 226091   | 2517       | 1/2 to 2-11/16" | 3.9 | 6.048 |
| 6F25A   | 226026   | 2517       | 1/2 to 2-11/16" | 3.8 | 5.685 |
| 6F25B   | 226027   | 2517       | 1/2 to 2-11/16" | 3.8 | 5.664 |
| 6F25C   | 226028   | 2517       | 1/2 to 2-11/16" | 3.8 | 5.625 |
| 6F25D   | 226029   | 2517       | 1/2 to 2-11/16" | 3.8 | 5.579 |
| 6F25E   | 226030   | 2517       | 1/2 to 2-11/16" | 3.8 | 5.537 |
| 8F25P   | 226093   | 2517       | 1/2 to 2-11/16" | 6.3 | 7.962 |
| 8F25A   | 226031   | 2517       | 1/2 to 2-11/16" | 6.2 | 7.685 |
| 8F25B   | 226032   | 2517       | 1/2 to 2-11/16" | 6.2 | 7.664 |
| 8F25C   | 226033   | 2517       | 1/2 to 2-11/16" | 6.2 | 7.625 |
| 8F25D   | 226034   | 2517       | 1/2 to 2-11/16" | 6.2 | 7.579 |
| 8F25E   | 226007   | 2517       | 1/2 to 2-11/16" | 6.2 | 7.537 |
| F30     | 226101   | 3020       | 15/16 to 3-1/4" | 5.3 | 5.75  |



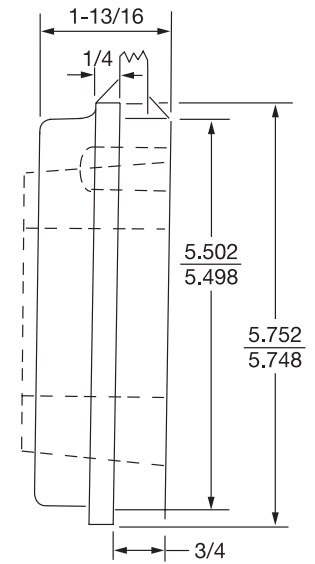
Type S



8F25



6F25



F30

|                                     |                                 |                            |                            |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|
| T-L FEATURES/BENEFITS<br>PAGE PT6-2 | T-L SPECIFICATION<br>PAGE PT6-3 | QD BUSHINGS<br>PAGE PT6-16 | GT BUSHINGS<br>PAGE PT6-28 |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|





## SPECIFICATION

### TAPER-LOCK Adapters

PT Component  
Quick References

Couplings

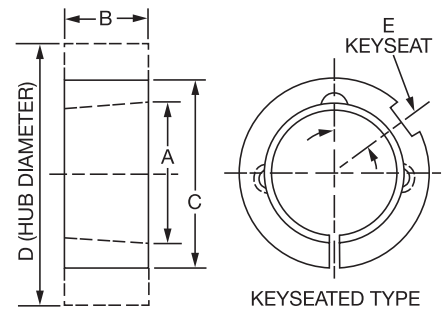
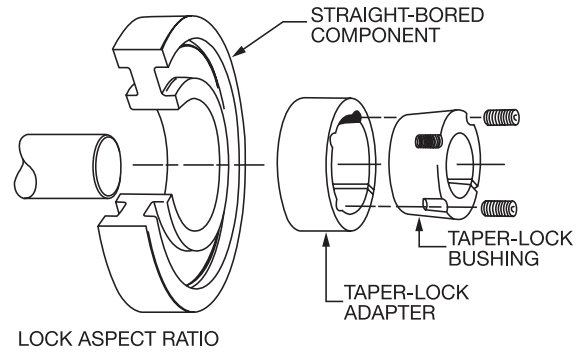
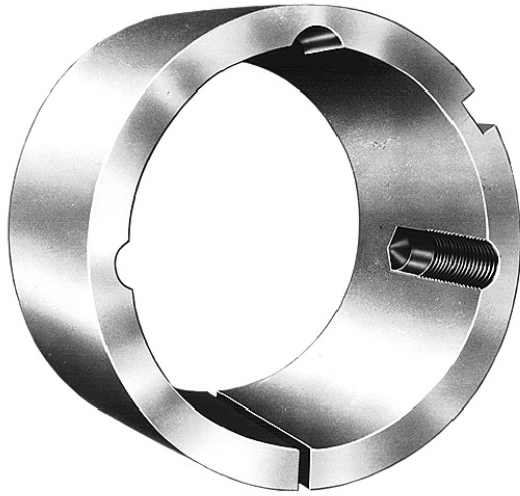
Clutches and Brakes

FLEXIDYNE

Fluid Couplings

TORQUE-TAMER

Bushings



Adapters for TAPER-LOCK bushings are recommended for use where it is more convenient to straight bore than to drill, tap and taper bore hubs to accommodate bushings.

The adapter is a gray iron, taper-bored sleeve which fits into the straight bore of a hub. The bushing simply fits inside the adapter which is tapped for the bushing screws. When tightening the locking screws, adapter is expanded against the hub bore contracting the bushing tightly upon the shaft. See page PT6-3 for bushing data and wrench space required.

#### TAPER-LOCK Adapters

| Adapter No. | Type      | For Use With Bush. No. | Adapter Part No. | Adapter Wt. | A Ref. | B    | C*    | D: Req'd Hub Dia. † |       | E          |
|-------------|-----------|------------------------|------------------|-------------|--------|------|-------|---------------------|-------|------------|
|             |           |                        |                  |             |        |      |       | Class 30 Gray Iron  | Steel | Keyseat    |
| 1215B       | Keyseated | 1215                   | <b>120011</b>    | .7          | 1.88   | 1.50 | 2-3/8 | 3.38                | 3.25  | 1/4 x 1/8  |
| 1615B       | Keyseated | 1615                   | <b>120012</b>    | .9          | 2.25   | 1.50 | 2-3/4 | 3.75                | 3.50  | 3/8 x 1/8  |
| 2517B       | Keyseated | 2517                   | <b>120013</b>    | 2.2         | 3.38   | 1.75 | 4-1/8 | 5.50                | 5.00  | 5/8 x 1/8  |
| 2525B       | Keyseated | 2525                   | <b>120014</b>    | 3.2         | 3.38   | 2.50 | 4-1/8 | 5.25                | 5.00  | 5/8 x 1/8  |
| 3030B       | Keyseated | 3030                   | <b>120015</b>    | 5.8         | 4.25   | 3.00 | 5-1/8 | 6.88                | 6.25  | 3/4 x 3/16 |
| 3535B       | Keyseated | 3535                   | <b>120016</b>    | 11.3        | 5.00   | 3.50 | 6-1/4 | 8.38                | 7.88  | 7/8 x 3/16 |
| 4040B       | Keyseated | 4040                   | <b>120017</b>    | 17.3        | 5.75   | 4.00 | 7-1/4 | 10.13               | 9.38  | 1 x 3/16   |
| 4545B       | Keyseated | 4545                   | <b>120018</b>    | 21.9        | 6.38   | 4.50 | 7-7/8 | 11.00               | 10.25 | 1 x 3/16   |

\* .001 to +.003 tolerance recommended for bore of hub.

† For reference. Severe conditions may require larger hub. Heavy well located web may permit smaller hub. Hub diameter required depends on the application. Consult factory giving full information on the proposed design. Hub diameters shown are based on 30,000 and 50,000 P.S.I. minimum ultimate tensile strength respectively for Class 30 gray iron and steel hubs.

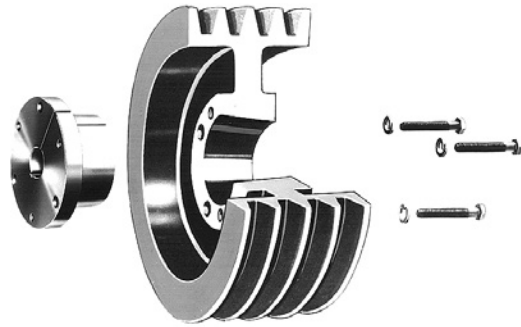
|                                     |                                 |                            |                            |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|
| T-L FEATURES/BENEFITS<br>PAGE PT6-2 | T-L SPECIFICATION<br>PAGE PT6-3 | QD BUSHINGS<br>PAGE PT6-16 | GT BUSHINGS<br>PAGE PT6-28 |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|



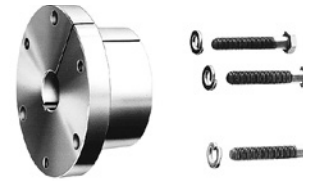


## FEATURES/BENEFITS

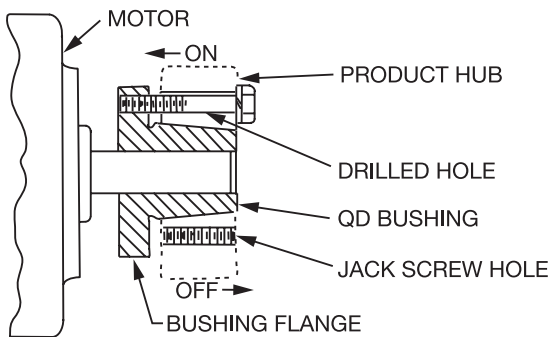
### QD Bushings



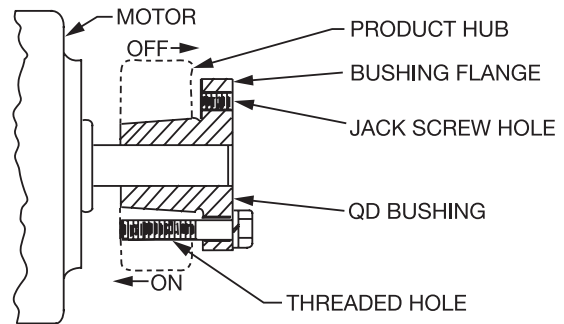
- 4 Degree Taper
- Easy on/Easy off
- Manufactured precisely to industry standards
- Conventional or Reverse Mounting, Including sizes M thru W - DODGE exclusive!
- QD is a registered trademark of Emerson Electric.



#### CONVENTIONAL



#### REVERSE



### Conventional Mounting

#### Easy On

- Place bushing in product
- Align clearance holes in product with threaded holes in bushing
- Install screws and lockwashers thru clearance holes, finger tight
- Slide assembly onto shaft, flange first
- Locate assembly on shaft for proper drive alignment
- Tighten cap screws alternately and evenly to specified torque

#### Easy Off

- Remove cap screws and install in product threaded holes
- Alternately and evenly tighten screws until bushing grip is released
- Flanged Design

### Reverse Mounting

#### Easy On

- Place bushing in product
- Align clearance holes in product with threaded holes in bushing
- Install screws and lockwashers thru clearance holes, finger tight
- Slide assembly onto shaft, flange outward
- Locate assembly on shaft for proper drive alignment
- Tighten cap screws alternately and evenly to specified torque

#### Easy Off

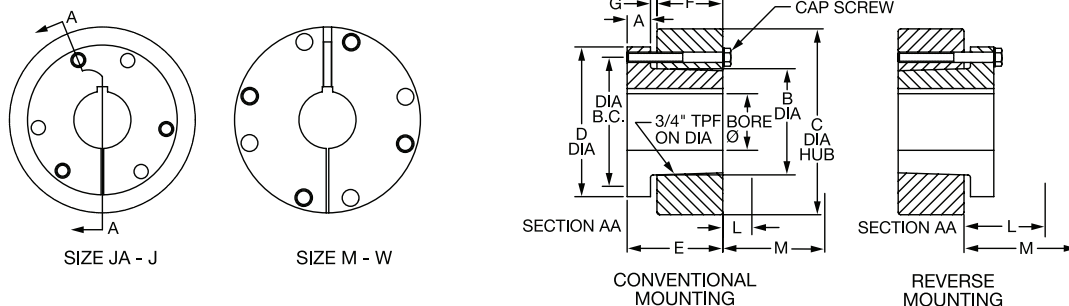
- Remove cap screws and reinstall in flange threaded holes
- Alternately and evenly tighten screws until bushing grip is released

**IMPORTANT! Do not use lubricants or anti-seize compounds on tapered bore or bushing surfaces. Complete installation instructions are available at [www.dodge-pt.com](http://www.dodge-pt.com).**



# SPECIFICATION

## QD Bushings - Dimensions



## QD Bushing Ratings And Dimensions

| Bush. Symb. | Ratings (Lb-in) Bush. Torque Cap.* | Bore Range |                |            |         | Dimensions |        |            |       |        |       |       |      |
|-------------|------------------------------------|------------|----------------|------------|---------|------------|--------|------------|-------|--------|-------|-------|------|
|             |                                    | Min.       | Max. Bore for: |            |         | A          | B Dia. | C Hub Dia. |       | D Dia. | E     | F     | G    |
|             |                                    |            | Full KW        | Shallow KW | No KW   |            |        | CI 30 Iron | Steel |        |       |       |      |
| QT / (L)    | 1000                               | 3/8        | 1-1/4          | 1-1/2      | 1-9/16  | 0.35       | 1.63   | 3.00       | 2.375 | 2.50   | 1.35  | 0.94  | 0.12 |
| JA          | 1000                               | 1/2        | 1              | 1-3/16     | 1-1/4   | 0.31       | 1.38   | 3.93       | 2.25  | 2.00   | 1.00  | 0.56  | 0.12 |
| SH          | 3500                               | 1/2        | 1-3/8          | 1-5/8      | 1-11/16 | 0.38       | 1.88   | 4.75       | 3.00  | 2.63   | 1.25  | 0.81  | 0.12 |
| SDS         | 5000                               | 1/2        | 1-5/8          | 1-15/16    | 2       | 0.43       | 2.18   | 4.75       | 3.50  | 3.18   | 1.31  | 0.75  | 0.12 |
| SD          | 5000                               | 1/2        | 1-5/8          | 1-15/16    | 2       | 0.43       | 2.18   | 3.81       | 3.50  | 3.18   | 1.81  | 1.25  | 0.12 |
| SK          | 7000                               | 1/2        | 2-1/8          | 2-1/2      | 2-5/8   | 0.50       | 2.81   | 4.75       | 4.50  | 3.88   | 1.88  | 1.25  | 0.22 |
| SF          | 11000                              | 1/2        | 2-5/16         | 2-15/16    | ...     | 0.50       | 3.13   | 6.38       | 5.50  | 4.63   | 2.00  | 1.25  | 0.22 |
| E           | 20000                              | 7/8        | 2-7/8          | 3-1/2      | ...     | 0.75       | 3.83   | 7.50       | 6.50  | 6.00   | 2.63  | 1.63  | 0.25 |
| F           | 30000                              | 1          | 3-1/4          | 3-15/16    | 4       | 0.81       | 4.43   | 7.75       | 7.25  | 6.63   | 3.63  | 2.50  | 0.34 |
| J           | 45000                              | 1-1/2      | 3-3/4          | 4-1/2      | ...     | 1.00       | 5.14   | 9.00       | 8.00  | 7.25   | 4.50  | 3.18  | 0.38 |
| M           | 85000                              | 2          | 4-3/4          | 5-1/2      | ...     | 1.25       | 6.50   | 11.38      | 10.00 | 9.00   | 6.75  | 5.18  | 0.41 |
| N           | 150000                             | 2-7/16     | 5              | 6          | ...     | 1.50       | 7.00   | 12.00      | ...   | 10.00  | 8.12  | 6.25  | 0.56 |
| P           | 250000                             | 2-15/16    | 5-15/16        | 7          | ...     | 1.75       | 8.25   | 14.00      | ...   | 11.75  | 9.38  | 7.25  | 0.63 |
| W           | 375000                             | 4          | 7-1/2          | 8-1/2      | ...     | 2.00       | 10.42  | 17.00      | ...   | 15.00  | 11.38 | 9.00  | 0.50 |
| S           | 625000                             | 5-1/2      | 9              | 10         | ...     | 3.25       | 12.13  | 19.00      | ...   | 17.75  | 15.75 | 12.00 | 0.75 |

\* Torque ratings apply when bushing installation screws are tightened to listed torque. Important: Do not over-torque screws. This can lead to hub damage

## Installation Information

| Bush. Sym. | Installation Screws |      |                  |                        | Required Wrench Clearance |      |          |      |                  |      |          |      |
|------------|---------------------|------|------------------|------------------------|---------------------------|------|----------|------|------------------|------|----------|------|
|            | B. C. Dia.          | Qty. | Size             | Screw Torque (Lb - in) | Conventional Mounting     |      |          |      | Reverse Mounting |      |          |      |
|            |                     |      |                  |                        | L-Install                 |      | M-Remove |      | L-Install        |      | M-Remove |      |
|            |                     |      |                  |                        | #                         | @    | #        | @    | #                | @    | #        | @    |
| QT / (L)   | 2                   | 2    | 1/4-20 x 7/8     | 90                     | 0.41                      | 2.53 | 1.13     | 3.25 | 1.13             | 3.25 | 1.56     | 3.68 |
| JA         | 1.65                | 3    | 10-24 x 1        | 60                     | 0.41                      | 2.53 | 1.13     | 3.25 | 1.13             | 3.25 | 1.56     | 3.68 |
| SH         | 2.25                | 3    | 1/4-20x 1-3/8    | 108                    | 0.54                      | 2.61 | 1.51     | 3.58 | 1.51             | 3.58 | 2.08     | 4.13 |
| SDS        | 2.69                | 3    | 1/4-20 x 1-3/8   | 108                    | 0.59                      | 2.66 | 1.56     | 3.63 | 1.56             | 3.63 | 2.13     | 4.18 |
| SD         | 2.69                | 3    | 1/4-20 x 1-7/8   | 108                    | 0.66                      | 2.72 | 2.06     | 4.13 | 2.06             | 4.13 | 2.63     | 4.68 |
| SK         | 3.31                | 3    | 5/16-18 x 2      | 180                    | 0.72                      | 2.66 | 2.19     | 4.19 | 2.25             | 4.25 | 2.32     | 4.94 |
| SF         | 3.88                | 3    | 3/8-16 x 2       | 360                    | 0.78                      | 2.78 | 2.25     | 4.23 | 2.30             | 4.30 | 3.19     | 5.18 |
| E          | 5.00                | 3    | 1/2 -13 x 2-3/4  | 720                    | 1.12                      | 3.06 | 3.00     | 4.93 | 3.05             | 5.00 | 4.30     | 6.25 |
| F          | 5.63                | 3    | 9/16-12 x 3-5/8  | 900                    | 1.09                      | 2.91 | 3.94     | 5.75 | 3.99             | 5.81 | 5.31     | 7.12 |
| J          | 6.25                | 3    | 5/8-11 x 4-1/2   | 1620                   | 1.28                      | 3.09 | 4.81     | 6.62 | 3.80             | 5.62 | 5.37     | 7.18 |
| M          | 7.88                | 4    | 3/4-10 x 6-3/4   | 2700                   | 2.16                      | 4.03 | 7.69     | 9.56 | ...              | ...  | ...      | ...  |
| N          | 8.50                | 4    | 7/8-9 x 8        | 3600                   | 2.28                      | ...  | 9.25     | ...  | ...              | ...  | ...      | ...  |
| P          | 10.00               | 4    | 1-8 x 9-1/2      | 5400                   | 3.13                      | ...  | 10.88    | ...  | ...              | ...  | ...      | ...  |
| W          | 12.75               | 4    | 1-1/8-7 x 11-1/2 | 7200                   | 3.88                      | ...  | 13.38    | ...  | ...              | ...  | ...      | ...  |
| S          | 15.00               | 5    | 1-1/4 -7x 15     | 9000                   | 3.75                      | ...  | 16.50    | ...  | ...              | ...  | ...      | ...  |

# Using Open-End Wrench

@ Using Socket Wrench

NOTE: Installation and maintenance instructions for Dodge products available at [www.dodge-pt.com](http://www.dodge-pt.com)

|                                     |                                 |                            |                            |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|
| T-L FEATURES/BENEFITS<br>PAGE PT6-2 | T-L SPECIFICATION<br>PAGE PT6-3 | QD BUSHINGS<br>PAGE PT6-16 | GT BUSHINGS<br>PAGE PT6-28 |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|

# SPECIFICATION



## Bushings For Bushed FHP Sheave - Stock Bore

## QD Bushings - Stock Bore

| QD Bush Size | BORE    | P/N Keyway | WT.         | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|--------------|---------|------------|-------------|----------------|------------------|--------------|
| QT / (L)     | 3/8"    | 121129     | 0.85        | None           |                  |              |
|              | 7/16"   | 121130     | 0.82        |                |                  |              |
|              | 1/2"    | 121131     | 0.81        | 1/8 x 1/16     | 1/8 x 1/16       | 1/8 x 1/8    |
|              | 9/16"   | 121133     | 0.80        |                |                  |              |
|              | 5/8"    | 122050     | 0.78        | 3/16 x 3/32    | 3/16 x 3/32      | 3/16 x 3/16  |
|              | 11/16"  | 121134     | 0.76        |                |                  |              |
|              | 3/4"    | 121162 +   | 0.74        |                |                  |              |
|              | 3/4"    | 122051     | 0.74        |                |                  |              |
|              | 13/16"  | 121136     | 0.70        |                |                  |              |
|              | 7/8"    | 121163 +   | 0.68        |                |                  |              |
|              | 7/8"    | 122052     | 0.68        |                |                  |              |
|              | 15/16"  | 121138     | 0.66        |                |                  |              |
|              | 1"      | 121164 +   | 0.62        |                |                  |              |
|              | 1"      | 122053     | 0.62        |                |                  |              |
|              | 1-1/16" | 121140     | 0.59        |                |                  |              |
|              | 1-1/8"  | 121186 +   | 0.56        |                |                  |              |
|              | 1-1/8"  | 122054     | 0.56        |                |                  |              |
|              | 1-3/16" | 121187 +   | 0.52        |                |                  |              |
|              | 1-3/16" | 122055     | 0.52        |                |                  |              |
|              | 1-1/4"  | 122056     | 0.49        |                |                  |              |
| 1-5/16"      | 121144  | 0.44       | 5/16 x 1/16 | 5/16 x 5/32    | 5/16 x 7/32 *    |              |
| 1-3/8"       | 121145  | 0.43       |             |                |                  |              |
| 1-7/16"      | 121146  | 0.38       | 3/8 x 1/16  | 3/8 x 3/16     | 3/8 x 1/4 *      |              |
| 1-1/2"       | 121147  | 0.34       |             |                |                  |              |
| 14MM         | 121148  | 0.79       | 5 x 2.3MM   | 5 x 3MM        | 5 x 5MM          |              |
| 19MM         | 121149  | 0.74       | 6 x 2.8MM   | 6 x 3.5MM      | 6 x 6MM          |              |
| 20MM         | 121467  | 0.73       |             |                |                  |              |
| 25MM         | 121151  | 0.63       | 8 X 3.3MM   | 8 X 4MM        | 8 X 7MM          |              |
| 28MM         | 151152  | 0.57       |             |                |                  |              |
| 30MM         | 121153  | 0.53       |             |                |                  |              |
| 32MM         | 121154  | 0.50       |             |                |                  | 10 x 3.3MM   |

| QD Bush Size | Bore    | P/N    | WT.        | Bushing Keyway | Shaft Keyway REF | Key Size REF |             |             |             |
|--------------|---------|--------|------------|----------------|------------------|--------------|-------------|-------------|-------------|
| JA           | 1/2"    | 120332 | 0.46       | 1/8 x 1/16     | 1/8 x 1/16       | 1/8 x 1/8    |             |             |             |
|              | 9/16"   | 120333 | 0.46       |                |                  |              |             |             |             |
|              | 5/8"    | 120334 | 0.45       | 3/16 x 3/32    | 3/16 x 3/32      | 3/16 x 3/16  |             |             |             |
|              | 11/16"  | 120335 | 0.43       |                |                  |              |             |             |             |
|              | 3/4"    | 120336 | 0.41       |                |                  |              |             |             |             |
|              | 13/16"  | 120337 | 0.40       |                |                  |              |             |             |             |
|              | 7/8"    | 120338 | 0.37       |                |                  |              |             |             |             |
|              | 15/16"  | 120339 | 0.35       | 1/4 x 1/8      | 1/4 x 1/8        | 1/4 x 1/4    |             |             |             |
|              | 1"      | 120340 | 0.33       |                |                  |              |             |             |             |
|              | 1-1/16" | 120341 | 0.34       | 1/4 x 1/16     | 1/4 x 1/8        | 1/4 x 3/16 * |             |             |             |
|              | 1-1/8"  | 120342 | 0.31       |                |                  |              |             |             |             |
|              | 1-3/16" | 120343 | 0.29       |                |                  |              |             |             |             |
|              | 1-1/4"  | 120344 | 0.25       | None           |                  |              |             |             |             |
|              | 19MM    | 117049 | 0.42       | 6 x 2.8MM      | 6 x 3.5MM        | 6 x 6MM      |             |             |             |
|              | 20MM    | 120329 | 0.41       |                |                  |              |             |             |             |
|              | 22MM    | 117043 | 0.40       |                |                  |              |             |             |             |
|              | SH      | 1/2"   | 120345     | 1.16           | 1/8 x 1/16       | 1/8 x 1/16   | 1/8 x 1/8   |             |             |
|              |         | 9/16"  | 120346     | 1.14           |                  |              |             |             |             |
|              |         | 5/8"   | 120347     | 1.14           | 3/16 x 3/32      | 3/16 x 3/32  | 3/16 x 3/16 |             |             |
|              |         | 11/16" | 120348     | 1.14           |                  |              |             |             |             |
| 3/4"         |         | 120349 | 1.10       |                |                  |              |             |             |             |
| 13/16"       |         | 120350 | 1.07       |                |                  |              |             |             |             |
| 7/8"         |         | 120351 | 1.04       |                |                  |              |             |             |             |
| 15/16"       |         | 120352 | 1.00       | 1/4 x 1/8      | 1/4 x 1/8        | 1/4 x 1/4    |             |             |             |
| 1"           |         | 120353 | 0.98       |                |                  |              |             |             |             |
| 1-1/16"      |         | 120354 | 0.94       |                |                  |              |             |             |             |
| 1-1/8"       |         | 120355 | 0.91       |                |                  |              |             |             |             |
| 1-3/16"      |         | 120356 | 0.88       |                |                  |              |             |             |             |
| 1-1/4"       |         | 120357 | 0.84       |                |                  |              |             |             |             |
| 1-5/16"      |         | 120358 | 0.82       |                |                  |              | 5/16 x 5/32 | 5/16 x 5/32 | 5/16 x 5/16 |
| 1-3/8"       |         | 120359 | 0.80       |                |                  |              |             |             |             |
| 1-7/16"      |         | 120360 | 0.79       | 3/8 x 1/16     | 3/8 x 3/16       | 3/8 x 1/4 *  |             |             |             |
| 1-1/2"       |         | 120361 | 0.75       |                |                  |              |             |             |             |
| 1-9/16"      |         | 120362 | 0.90       |                |                  |              |             |             |             |
| 1-5/8"       |         | 120363 | 0.64       |                |                  |              |             |             |             |
| 1-11/16"     |         | 120580 | 0.55       |                |                  |              | None        |             |             |
| 24MM         | 120088  | 1.00   | 8 X 3.3MM  | 8 X 4MM        | 8 X 7MM          |              |             |             |             |
| 25MM         | 120089  | 0.99   |            |                |                  |              |             |             |             |
| 28MM         | 120090  | 0.93   |            |                |                  |              |             |             |             |
| 30MM         | 120091  | 0.87   |            |                |                  |              |             |             |             |
| 32MM         | 120092  | 0.82   | 10 X 3.3MM | 10 X 5MM       | 10 X 8MM         |              |             |             |             |
| 35MM         | 120093  | 0.74   |            |                |                  |              |             |             |             |
| SDS          | 1/2"    | 120388 | 1.65       | 1/8 x 1/16     | 1/8 x 1/16       | 1/8 x 1/8    |             |             |             |
|              | 9/16"   | 120389 | 1.65       |                |                  |              |             |             |             |
|              | 5/8"    | 120390 | 1.61       | 3/16 x 3/32    | 3/16 x 3/32      | 3/16 x 3/16  |             |             |             |
|              | 11/16"  | 120391 | 1.60       |                |                  |              |             |             |             |
|              | 3/4"    | 120392 | 1.58       |                |                  |              |             |             |             |
|              | 13/16"  | 120393 | 1.54       |                |                  |              |             |             |             |
|              | 7/8"    | 120394 | 1.54       |                |                  |              |             |             |             |
|              | 15/16"  | 120395 | 1.50       | 1/4 x 1/8      | 1/4 x 1/8        | 1/4 x 1/4    |             |             |             |
|              | 1"      | 120396 | 1.46       |                |                  |              |             |             |             |
|              | 1-1/16" | 120397 | 1.43       |                |                  |              |             |             |             |
|              | 1-1/8"  | 120398 | 1.38       |                |                  |              |             |             |             |
|              | 1-3/16" | 120399 | 1.36       |                |                  |              |             |             |             |
|              | 1-1/4"  | 120400 | 1.32       |                |                  |              |             |             |             |
|              | 1-5/16" | 120401 | 1.26       |                |                  |              | 5/16 x 5/32 | 5/16 x 5/32 | 5/16 x 5/16 |
|              | 1-3/8"  | 120402 | 1.24       |                |                  |              |             |             |             |

P/N's marked (+) are Integral Key Bushings  
 Bore sizes marked (#) will be supplied with 1/2" wide keyway unless the 5/8" wide keyway is specified when ordering  
 \* Key furnished for these sizes ONLY  
 \*\* Key not furnished for MM bores sizes

# SPECIFICATION



## QD Bushings - Stock Bore

| QD Bush Size  | Bore     | P/N    | WT.        | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|---------------|----------|--------|------------|----------------|------------------|--------------|
| SDS<br>(cont) | 1-7/16"  | 120403 | 1.19       | 3/8 x 3/16     | 3/8 x 3/16       | 3/8 x 3/8    |
|               | 1-1/2"   | 120404 | 1.15       |                |                  |              |
|               | 1-9/16"  | 120405 | 1.11       |                |                  |              |
|               | 1-5/8"   | 120406 | 1.08       |                |                  |              |
|               | 1-11/16" | 120407 | 1.08       | 3/8 x 1/8      | 3/8 x 3/16       | 3/8 x 5/16 * |
|               | 1-3/4"   | 120408 | 1.02       |                |                  |              |
|               | 1-13/16" | 120409 | 0.98       | 1/2 x 1/16     | 1/2 x 1/4        | 1/2 x 5/16 * |
|               | 1-7/8"   | 120410 | 0.92       |                |                  |              |
|               | 1-15/16" | 120411 | 0.87       |                |                  |              |
|               | 2"       | 120412 | 0.77       | None           |                  |              |
|               | 24MM     | 120094 | 1.47       | 8 X 3.3MM      | 8 X 4MM          | 8 X 7MM      |
|               | 25MM     | 120095 | 1.47       |                |                  |              |
|               | 28MM     | 120096 | 1.41       |                |                  |              |
|               | 30MM     | 120097 | 1.36       |                |                  |              |
|               | 32MM     | 120098 | 1.31       | 10 X 3.3MM     | 10 X 5MM         | 10 X 8MM     |
|               | 35MM     | 120099 | 1.22       |                |                  |              |
|               | 38MM     | 120100 | 1.00       |                |                  |              |
|               | 40MM     | 120101 | 1.01       | 12 X 3.3MM     | 12 X 5MM         | 12 X 8MM     |
| 42MM          | 120102   | 1.02   |            |                |                  |              |
| SD            | 1/2"     | 120364 | 2.07       | 1/8 x 1/16     | 1/8 x 1/16       | 1/8 x 1/8    |
|               | 9/16"    | 120365 | 2.05       |                |                  |              |
|               | 5/8"     | 120366 | 2.03       |                |                  |              |
|               | 11/16"   | 120367 | 2.00       | 3/16 x 3/32    | 3/16 x 3/32      | 3/16 x 3/16  |
|               | 3/4"     | 120368 | 2.00       |                |                  |              |
|               | 13/16"   | 120369 | 2.00       |                |                  |              |
|               | 7/8"     | 120370 | 1.88       |                |                  |              |
|               | 15/16"   | 120371 | 1.85       | 1/4 x 1/8      | 1/4 x 1/8        | 1/4 x 1/4    |
|               | 1"       | 120372 | 1.80       |                |                  |              |
|               | 1-1/16"  | 120373 | 1.79       |                |                  |              |
|               | 1-1/8"   | 120374 | 1.72       |                |                  |              |
|               | 1-3/16"  | 120375 | 1.67       |                |                  |              |
|               | 1-1/4"   | 120376 | 1.62       |                |                  |              |
|               | 1-5/16"  | 120377 | 1.55       | 5/16 x 5/32    | 5/16 x 5/32      | 5/16 x 5/16  |
|               | 1-3/8"   | 120378 | 1.50       |                |                  |              |
|               | 1-7/16"  | 120379 | 1.44       | 3/8 x 3/16     | 3/8 x 3/16       | 3/8 x 3/8    |
|               | 1-1/2"   | 120380 | 1.36       |                |                  |              |
|               | 1-9/16"  | 120381 | 1.29       |                |                  |              |
|               | 1-5/8"   | 120382 | 1.29       |                |                  |              |
|               | 1-11/16" | 120383 | 1.20       |                |                  |              |
|               | 1-3/4"   | 120384 | 1.19       |                |                  |              |
|               | 1-13/16" | 120385 | 1.15       |                |                  |              |
|               | 1-7/8"   | 120386 | 1.07       |                |                  |              |
|               | 1-15/16" | 120387 | 1.00       |                |                  |              |
|               | 2"       | 120581 | 0.84       |                |                  |              |
|               | 24MM     | 120103 | 1.84       | 8 X 3.3MM      | 8 X 4MM          | 8 X 7MM      |
|               | 25MM     | 120104 | 1.82       |                |                  |              |
|               | 28MM     | 120105 | 1.72       |                |                  |              |
|               | 30MM     | 120106 | 1.66       |                |                  |              |
|               | 32MM     | 120107 | 1.58       | 10 X 3.3MM     | 10 X 5MM         | 10 X 8MM     |
| 35MM          | 120108   | 1.49   |            |                |                  |              |
| 38MM          | 120109   | 1.37   |            |                |                  |              |
| 40MM          | 120110   | 1.28   | 12 X 3.3MM | 12 X 5MM       | 12 X 8MM         |              |
| 42MM          | 120111   | 1.18   |            |                |                  |              |

| QD Bush Size | Bore     | P/N    | WT.        | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|--------------|----------|--------|------------|----------------|------------------|--------------|
| SK           | 1/2"     | 120413 | 3.77       | 1/8 x 1/16     | 1/8 x 1/16       | 1/8 x 1/8    |
|              | 9/16"    | 120414 | 3.74       |                |                  |              |
|              | 5/8"     | 120415 | 3.72       | 3/16 x 3/32    | 3/16 x 3/32      | 3/16 x 3/16  |
|              | 11/16"   | 120416 | 3.70       |                |                  |              |
|              | 3/4"     | 120417 | 3.61       |                |                  |              |
|              | 13/16"   | 120418 | 3.53       |                |                  |              |
|              | 7/8"     | 120419 | 3.58       | 1/4 x 1/8      | 1/4 x 1/8        | 1/4 x 1/4    |
|              | 15/16"   | 120420 | 3.52       |                |                  |              |
|              | 1"       | 120421 | 3.45       |                |                  |              |
|              | 1-1/16"  | 120422 | 3.41       |                |                  |              |
|              | 1-1/8"   | 120423 | 3.37       |                |                  |              |
|              | 1-3/16"  | 120424 | 3.31       |                |                  |              |
|              | 1-1/4"   | 120425 | 3.31       |                |                  |              |
|              | 1-5/16"  | 120426 | 3.18       |                |                  |              |
|              | 1-3/8"   | 120427 | 3.12       |                |                  |              |
|              | 1-7/16"  | 120428 | 3.08       |                |                  |              |
|              | 1-1/2"   | 120429 | 3.00       |                |                  |              |
|              | 1-9/16"  | 120430 | 2.95       |                |                  |              |
|              | 1-5/8"   | 120431 | 2.86       |                |                  |              |
|              | 1-11/16" | 120432 | 2.79       |                |                  |              |
|              | 1-3/4"   | 120433 | 2.88       |                |                  |              |
|              | 1-13/16" | 120434 | 2.62       |                |                  |              |
|              | 1-7/8"   | 120435 | 2.50       |                |                  |              |
|              | 1-15/16" | 120436 | 2.42       |                |                  |              |
|              | 2"       | 120437 | 2.32       |                |                  |              |
|              | 2-1/16"  | 120438 | 2.26       | 1/2 x 1/4      | 1/2 x 1/4        | 1/2 x 1/2    |
|              | 2-1/8"   | 120439 | 2.17       |                |                  |              |
|              | 2-3/16"  | 120440 | 2.21       | 1/2 x 3/16     | 1/2 x 1/4        | 1/2 x 7/16 * |
|              | 2-1/4"   | 120441 | 2.09       |                |                  |              |
|              | 2-5/16"  | 120442 | 2.00       | 5/8 x 1/16     | 5/8 x 5/16       | 5/8 x 3/8 *  |
|              | 2-3/8"   | 120443 | 1.91       |                |                  |              |
|              | 2-7/16"  | 120444 | 1.81       |                |                  |              |
|              | 2-1/2"   | 120445 | 1.72       |                |                  |              |
|              | 2-5/8"   | 120447 | 1.32       |                |                  |              |
|              | 24MM     | 120112 | 3.52       | 8 X 3.3MM      | 8 X 4MM          | 8 X 7MM      |
|              | 25MM     | 120113 | 3.50       |                |                  |              |
|              | 28MM     | 120114 | 3.41       |                |                  |              |
|              | 30MM     | 120115 | 3.31       |                |                  |              |
|              | 32MM     | 120116 | 3.31       |                |                  |              |
|              | 35MM     | 120117 | 3.12       |                |                  |              |
| 38MM         | 120118   | 2.98   |            |                |                  |              |
| 40MM         | 120119   | 2.95   |            |                |                  |              |
| 42MM         | 120120   | 2.86   |            |                |                  |              |
| 45MM         | 120070   | 2.69   |            |                |                  |              |
| 48MM         | 120121   | 2.50   | 14 X 3.8MM | 14 X 5.5MM     | 14 X 9MM         |              |
| 50MM         | 120122   | 2.40   |            |                |                  |              |
| 55MM         | 120123   | 2.17   |            |                |                  |              |
| SF           | 1/2"     | 120448 | 5.27       | 1/8 x 1/4      | 1/8 x 1/4        | 1/8 x 1/8    |
|              | 9/16"    | 120449 | 5.27       |                |                  |              |
|              | 5/8"     | 120450 | 5.22       | 3/16 x 3/32    | 3/16 x 3/32      | 3/16 x 3/16  |
|              | 11/16"   | 120451 | 5.20       |                |                  |              |
|              | 3/4"     | 120452 | 5.17       |                |                  |              |
|              | 13/16"   | 120453 | 5.32       |                |                  |              |
|              | 7/8"     | 120454 | 5.08       | 1/4 x 1/8      | 1/4 x 1/8        | 1/4 x 1/4    |
|              | 15/16"   | 120455 | 5.05       |                |                  |              |
|              | 1"       | 120456 | 5.00       |                |                  |              |
|              | 1-1/16"  | 120457 | 4.95       |                |                  |              |
|              | 1-1/8"   | 120458 | 4.90       |                |                  |              |
|              | 1-3/16"  | 120459 | 4.83       |                |                  |              |
|              | 1-1/4"   | 120460 | 4.77       |                |                  |              |

P/N's marked (+) are Integral Key Bushings

Bore sizes marked (#) will be supplied with 1/2" wide keyway unless the 5/8" wide keyway is specified when ordering

\* Key furnished for these sizes ONLY

\*\* Key not furnished for MM bores sizes

|                                     |                                 |                            |                            |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|
| T-L FEATURES/BENEFITS<br>PAGE PT6-2 | T-L SPECIFICATION<br>PAGE PT6-3 | QD BUSHINGS<br>PAGE PT6-16 | GT BUSHINGS<br>PAGE PT6-28 |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|



# SPECIFICATION

## QD Bushings - Stock Bore

| QD Bush Size | Bore     | P/N    | WT.        | Bushing Keyway | Shaft Keyway REF | Key Size REF |           |              |           |            |            |             |
|--------------|----------|--------|------------|----------------|------------------|--------------|-----------|--------------|-----------|------------|------------|-------------|
| SF<br>(cont) | 1-5/16"  | 120461 | 4.71       | 3/8 x 3/16     | 3/8 x 3/16       | 3/8 x 3/8    |           |              |           |            |            |             |
|              | 1-3/8"   | 120462 | 4.61       |                |                  |              |           |              |           |            |            |             |
|              | 1-7/16"  | 120463 | 4.57       |                |                  |              |           |              |           |            |            |             |
|              | 1-1/2"   | 120464 | 4.48       |                |                  |              |           |              |           |            |            |             |
|              | 1-9/16"  | 120465 | 4.42       |                |                  |              |           |              |           |            |            |             |
|              | 1-5/8"   | 120466 | 4.32       |                |                  |              |           |              |           |            |            |             |
|              | 1-11/16" | 120467 | 4.31       |                |                  |              |           |              |           |            |            |             |
|              | 1-3/4"   | 120468 | 4.16       |                |                  |              |           |              |           |            |            |             |
|              | 1-13/16" | 120469 | 4.06       |                |                  |              | 1/2 x 1/4 | 1/2 x 1/4    | 1/2 x 1/2 |            |            |             |
|              | 1-7/8"   | 120470 | 4.00       |                |                  |              |           |              |           |            |            |             |
|              | 1-15/16" | 120471 | 3.87       |                |                  |              |           |              |           |            |            |             |
|              | 2"       | 120472 | 3.78       |                |                  |              |           |              |           |            |            |             |
|              | 2-1/16"  | 120473 | 3.70       |                |                  |              |           |              |           |            |            |             |
|              | 2-1/8"   | 120474 | 3.57       |                |                  |              |           |              |           |            |            |             |
|              | 2-3/16"  | 120475 | 3.45       |                |                  |              |           |              |           |            |            |             |
|              | 2-1/4"   | 120476 | 3.38       |                |                  |              |           |              |           |            |            |             |
|              | 2-5/16"  | 120477 | 3.32       |                |                  |              |           |              |           | 5/8 x 5/16 | 5/8 x 5/16 | 5/8 x 5/8   |
|              | 2-3/8"   | 120478 | 3.39       |                |                  |              |           |              |           | 5/8 x 3/16 | 5/8 x 5/16 | 5/8 x 1/2 * |
|              | 2-7/16"  | 120479 | 3.26       |                |                  |              |           |              |           |            |            |             |
|              | 2-1/2"   | 120592 | 3.16       |                |                  |              |           |              |           |            |            |             |
| 2-5/8"       | 120482   | 2.91   | 5/8 x 1/16 | 5/8 x 5/16     | 5/8 x 3/8 *      |              |           |              |           |            |            |             |
| 2-11/16"     | 120483   | 2.80   |            |                |                  |              |           |              |           |            |            |             |
| 2-3/4"       | 120484   | 2.59   |            |                |                  |              |           |              |           |            |            |             |
| 2-13/16"     | 120485   | 2.50   |            |                |                  | 3/4 x 1/16   | 3/4 x 3/8 | 3/4 x 7/16 * |           |            |            |             |
| 2-7/8"       | 120486   | 2.35   | 3/4 x 1/32 | 3/4 x 3/8      | 3/4 x 13/32 *    |              |           |              |           |            |            |             |
| 2-15/16"     | 120487   | 2.22   |            |                |                  |              |           |              |           |            |            |             |
| 28MM         | 120124   | 5.00   | 8 X 3.3MM  | 8 X 4MM        | 8 X 7MM          |              |           |              |           |            |            |             |
| 30MM         | 120125   | 4.90   |            |                |                  |              |           |              |           |            |            |             |
| 32MM         | 120126   | 4.77   | 10 X 3.3MM | 10 X 5MM       | 10 X 8MM         |              |           |              |           |            |            |             |
| 35MM         | 120127   | 4.61   |            |                |                  |              |           |              |           |            |            |             |
| 38MM         | 120128   | 4.48   |            |                |                  |              |           |              |           |            |            |             |
| 40MM         | 120129   | 4.42   |            |                |                  | 12 X 3.3MM   | 12 X 5MM  | 12 X 8MM     |           |            |            |             |
| 42MM         | 120130   | 4.32   | 14 X 3.8MM | 14 X 5.5MM     | 14 X 9MM         |              |           |              |           |            |            |             |
| 45MM         | 120071   | 4.16   |            |                |                  |              |           |              |           |            |            |             |
| 48MM         | 120131   | 4.00   |            |                |                  |              |           |              |           |            |            |             |
| 50MM         | 120132   | 3.87   |            |                |                  |              |           |              |           |            |            |             |
| 55MM         | 120133   | 3.57   |            |                |                  | 16 X 4.3MM   | 16 X 6MM  | 16 X 10MM    |           |            |            |             |
| 60MM         | 120134   | 3.39   | 18 X 4.4MM | 18 X 7MM       | 18 X 11MM        |              |           |              |           |            |            |             |
| E            | 7/8"     | 120488 | 11.80      | 3/16 x 3/32    | 3/16 x 3/32      | 3/16 x 3/16  |           |              |           |            |            |             |
|              | 1"       | 120490 | 11.65      | 1/4 x 1/8      | 1/4 x 1/8        | 1/4 x 1/4    |           |              |           |            |            |             |
|              | 1-1/8"   | 120492 | 11.46      |                |                  |              |           |              |           |            |            |             |
|              | 1-3/16"  | 120493 | 11.40      |                |                  |              |           |              |           |            |            |             |
|              | 1-1/4"   | 120494 | 11.33      | 5/16 x 5/32    | 5/16 x 5/32      | 5/16 x 5/16  |           |              |           |            |            |             |
|              | 1-5/16"  | 120495 | 11.26      |                |                  |              |           |              |           |            |            |             |
|              | 1-3/8"   | 120496 | 11.20      |                |                  |              |           |              |           |            |            |             |
|              | 1-7/16"  | 120497 | 11.13      |                |                  |              |           |              |           |            |            |             |
|              | 1-1/2"   | 120498 | 10.86      |                |                  |              |           |              |           |            |            |             |
|              | 1-9/16"  | 120499 | 10.82      | 3/8 x 3/16     | 3/8 x 3/16       | 3/8 x 3/8    |           |              |           |            |            |             |
|              | 1-5/8"   | 120500 | 10.69      |                |                  |              |           |              |           |            |            |             |
|              | 1-11/16" | 120501 | 10.56      |                |                  |              |           |              |           |            |            |             |
|              | 1-3/4"   | 120502 | 10.46      |                |                  |              |           |              |           |            |            |             |

| QD Bush Size | Bore     | P/N    | WT.        | Bushing Keyway | Shaft Keyway REF | Key Size REF |             |             |             |
|--------------|----------|--------|------------|----------------|------------------|--------------|-------------|-------------|-------------|
| E<br>(cont)  | 1-13/16" | 120503 | 10.16      | 1/2 x 1/4      | 1/2 x 1/4        | 1/2 x 1/2    |             |             |             |
|              | 1-7/8"   | 120504 | 10.16      |                |                  |              |             |             |             |
|              | 1-15/16" | 120505 | 10.16      |                |                  |              |             |             |             |
|              | 2"       | 120506 | 10.01      |                |                  |              |             |             |             |
|              | 2-1/16"  | 120507 | 9.85       |                |                  |              |             |             |             |
|              | 2-1/8"   | 120508 | 9.73       |                |                  |              |             |             |             |
|              | 2-3/16"  | 120509 | 9.42       |                |                  |              |             |             |             |
|              | 2-1/4"   | 120510 | 9.42       |                |                  |              |             |             |             |
|              | 2-5/16"  | 120511 | 9.07       |                |                  |              | 5/8 x 5/16  | 5/8 x 5/16  | 5/8 x 5/8   |
|              | 2-3/8"   | 120512 | 8.95       |                |                  |              |             |             |             |
|              | 2-7/16"  | 120513 | 8.77       |                |                  |              |             |             |             |
|              | 2-1/2"   | 120514 | 8.72       |                |                  |              |             |             |             |
|              | 2-5/8"   | 120516 | 8.37       |                |                  |              |             |             |             |
|              | 2-11/16" | 120517 | 8.05       |                |                  |              |             |             |             |
|              | 2-3/4"   | 120518 | 7.90       |                |                  |              |             |             |             |
|              | 2-13/16" | 120519 | 7.70       | 3/4 x 3/8      | 3/4 x 3/8        | 3/4 x 3/4    |             |             |             |
|              | 2-7/8"   | 120520 | 7.32       |                |                  |              |             |             |             |
|              | 2-15/16" | 120521 | 7.53       | 3/4 x 1/8      | 3/4 x 3/8        | 3/4 x 1/2 *  |             |             |             |
|              | 3"       | 120522 | 7.31       |                |                  |              |             |             |             |
|              | 3-1/8"   | 120524 | 6.90       |                |                  |              |             |             |             |
|              | 3-3/16"  | 120525 | 6.69       |                |                  |              |             |             |             |
|              | 3-1/4"   | 120526 | 6.48       |                |                  |              |             |             |             |
|              | 3-5/16"  | 120527 | 6.10       | 7/8 x 1/8      | 7/8 x 7/16       | 7/8 x 9/16 * |             |             |             |
|              | 3-3/8"   | 120528 | 6.21       | 7/8 x 1/16     | 7/8 x 7/16       | 7/8 x 1/2 *  |             |             |             |
|              | 3-7/16"  | 120529 | 5.86       |                |                  |              |             |             |             |
|              | 3-1/2"   | 120530 | 5.73       |                |                  |              |             |             |             |
|              | 28MM     | 120073 | 10.20      | 8 X 3.3MM      | 8 X 4MM          | 8 X 7MM      |             |             |             |
|              | 30MM     | 120074 | 10.20      |                |                  |              |             |             |             |
|              | 32MM     | 120075 | 10.20      | 10 X 3.3MM     | 10 X 5MM         | 10 X 8MM     |             |             |             |
|              | 35MM     | 120135 | 10.20      |                |                  |              |             |             |             |
| 38MM         | 120136   | 10.00  |            |                |                  |              |             |             |             |
| 40MM         | 120137   | 10.88  | 12 X 3.3MM |                |                  |              | 12 X 5MM    | 12 X 8MM    |             |
| 42MM         | 120138   | 9.80   | 14 X 3.8MM | 14 X 5.5MM     | 14 X 9MM         |              |             |             |             |
| 45MM         | 120141   | 9.60   |            |                |                  |              |             |             |             |
| 48MM         | 120139   | 10.26  |            |                |                  |              |             |             |             |
| 50MM         | 120140   | 10.06  |            |                |                  |              |             |             |             |
| 55MM         | 120142   | 9.56   |            |                |                  | 16 X 4.3MM   | 16 X 6MM    | 16 X 10MM   |             |
| 60MM         | 120143   | 9.10   | 18 X 4.4MM | 18 X 7MM       | 18 X 11MM        |              |             |             |             |
| 65MM         | 120144   | 9.60   |            |                |                  |              |             |             |             |
| 70MM         | 120145   | 7.87   | 20 X 4.9MM | 20 X 7.5MM     | 20 X 12MM        |              |             |             |             |
| 75MM         | 120146   | 7.28   |            |                |                  |              |             |             |             |
| F            | 1"       | 120531 | 19.41      | 1/4 x 1/8      | 1/4 x 1/8        | 1/4 x 1/4    |             |             |             |
|              | 1-1/8"   | 120533 | 19.15      |                |                  |              |             |             |             |
|              | 1-3/16"  | 120534 | 18.00      |                |                  |              |             |             |             |
|              | 1-1/4"   | 120535 | 18.99      |                |                  |              |             |             |             |
|              | 1-3/8"   | 120537 | 18.68      |                |                  |              | 5/16 x 5/32 | 5/16 x 5/32 | 5/16 x 5/16 |
|              | 1-7/16"  | 120538 | 18.56      | 3/8 x 3/16     | 3/8 x 3/16       | 3/8 x 3/8    |             |             |             |
|              | 1-1/2"   | 120539 | 18.48      |                |                  |              |             |             |             |
|              | 1-9/16"  | 120540 | 18.40      |                |                  |              |             |             |             |
|              | 1-5/8"   | 120541 | 18.15      |                |                  |              |             |             |             |
|              | 1-11/16" | 120542 | 17.91      |                |                  |              |             |             |             |
|              | 1-3/4"   | 120543 | 16.77      |                |                  |              |             |             |             |
|              | 1-13/16" | 120544 | 17.62      |                |                  |              | 1/2 x 1/4   | 1/2 x 1/4   | 1/2 x 1/2   |
|              | 1-7/8"   | 120545 | 16.41      |                |                  |              |             |             |             |
|              | 1-15/16" | 120546 | 16.00      |                |                  |              |             |             |             |
|              | 2"       | 120547 | 16.00      |                |                  |              |             |             |             |
| 2-1/16"      | 120548   | 16.00  |            |                |                  |              |             |             |             |
| 2-1/8"       | 120549   | 15.95  |            |                |                  |              |             |             |             |
| 2-3/16"      | 120550   | 15.95  |            |                |                  |              |             |             |             |
| 2-1/4"       | 120551   | 15.95  |            |                |                  |              |             |             |             |

P/N's marked (+) are Integral Key Bushings  
 Bore sizes marked (#) will be supplied with 1/2" wide keyway unless the 5/8" wide keyway is specified when ordering  
 \* Key furnished for these sizes ONLY  
 \*\* Key not furnished for MM bores sizes

# SPECIFICATION



## QD Bushings - Stock Bore

| QD Bush Size       | Bore          | P/N           | WT.        | Bushing Keyway | Shaft Keyway REF | Key Size REF |            |           |
|--------------------|---------------|---------------|------------|----------------|------------------|--------------|------------|-----------|
| <b>F</b><br>(cont) | 2-5/16"       | <b>120552</b> | 15.95      | 5/8 x 5/16     | 5/8 x 5/16       | 5/8 x 5/8    |            |           |
|                    | 2-3/8"        | <b>120553</b> | 15.50      |                |                  |              |            |           |
|                    | 2-7/16"       | <b>120554</b> | 15.50      |                |                  |              |            |           |
|                    | 2-1/2"        | <b>120555</b> | 15.37      |                |                  |              |            |           |
|                    | 2-5/8"        | <b>120557</b> | 14.86      |                |                  |              |            |           |
|                    | 2-11/16"      | <b>120558</b> | 14.50      |                |                  |              |            |           |
|                    | 2-3/4"        | <b>120559</b> | 14.37      | 3/4 x 3/8      | 3/4 x 3/8        | 3/4 x 3/4    |            |           |
|                    | 2-13/16"      | <b>120560</b> | 14.00      |                |                  |              |            |           |
|                    | 2-7/8"        | <b>120561</b> | 14.02      |                |                  |              |            |           |
|                    | 2-15/16"      | <b>120562</b> | 13.47      |                |                  |              |            |           |
|                    | 3"            | <b>120563</b> | 13.20      |                |                  |              |            |           |
|                    | 3-1/8"        | <b>120565</b> | 12.67      |                |                  |              |            |           |
|                    | 3-3/16"       | <b>120566</b> | 12.50      | 7/8 x 3/16     | 7/8 x 7/16       | 7/8 x 5/8 *  |            |           |
|                    | 3-1/4"        | <b>120567</b> | 12.00      |                |                  |              |            |           |
|                    | 3-3/8"        | <b>120569</b> | 12.00      |                |                  |              |            |           |
|                    | 3-7/16"       | <b>120570</b> | 11.88      |                |                  |              |            |           |
|                    | 3-1/2"        | <b>120571</b> | 11.40      |                |                  |              |            |           |
|                    | 3-5/8"        | <b>120573</b> | 10.53      |                |                  |              |            |           |
|                    | 3-11/16"      | <b>120574</b> | 14.00      | 1 x 1/8        | 1 x 1/2          | 1 x 5/8 *    |            |           |
|                    | 3-3/4"        | <b>120575</b> | 9.89       |                |                  |              |            |           |
| 3-7/8"             | <b>120577</b> | 9.26          |            |                |                  |              |            |           |
| 3-15/16"           | <b>120578</b> | 9.23          |            |                |                  |              |            |           |
| 4"                 | <b>120579</b> | 7.96          |            |                |                  |              |            |           |
| None               |               |               |            |                |                  |              |            |           |
| 45MM               | <b>120076</b> | 16.20         | 14 X 3.8MM | 14 X 5.5MM     | 14 X 9MM         |              |            |           |
| 48MM               | <b>120147</b> | 16.00         |            |                |                  |              |            |           |
| 50MM               | <b>120148</b> | 15.80         |            |                |                  |              |            |           |
| 55MM               | <b>120149</b> | 15.80         |            |                |                  |              |            |           |
| 60MM               | <b>120150</b> | 15.80         |            |                |                  |              |            |           |
| 65MM               | <b>120151</b> | 14.30         |            |                |                  |              |            |           |
| 70MM               | <b>120152</b> | 14.30         | 20 X 4.9MM | 20 x 7.5MM     | 20 X 12MM        |              |            |           |
| 75MM               | <b>120153</b> | 13.50         |            |                |                  |              |            |           |
| 80MM               | <b>120154</b> | 12.55         |            |                |                  |              |            |           |
| 85MM               | <b>120155</b> | 10.60         |            |                |                  |              |            |           |
| 90MM               | <b>120077</b> | 10.50         |            |                |                  |              |            |           |
| 25 X 5.4MM         |               |               |            |                |                  |              |            |           |
| 25 X 9MM           |               |               | 22 X 5.4MM | 22 X 9MM       | 22 X 14MM        |              |            |           |
| 25 X 14MM          |               |               |            |                |                  |              |            |           |
| 2-1/2"             | <b>120600</b> | 28.97         |            |                |                  | 3/8 x 3/16   | 3/8 x 3/16 | 3/8 x 3/8 |
| 1-5/8"             | <b>120601</b> | 28.61         |            |                |                  |              |            |           |
| 1-3/4"             | <b>120603</b> | 28.28         |            |                |                  |              |            |           |
| 1-7/8"             | <b>120604</b> | 27.79         |            |                |                  |              |            |           |
| 1-15/16"           | <b>120605</b> | 27.53         |            |                |                  |              |            |           |
| 2"                 | <b>120606</b> | 27.33         |            |                |                  |              |            |           |
| 2-1/8"             | <b>120607</b> | 26.74         | 1/2 x 1/4  | 1/2 x 1/4      | 1/2 x 1/2        |              |            |           |
| 2-3/16"            | <b>120608</b> | 26.37         |            |                |                  |              |            |           |
| 2-1/4"             | <b>120609</b> | 26.32         |            |                |                  |              |            |           |
| 2-3/8"             | <b>120610</b> | 25.65         |            |                |                  |              |            |           |
| 2-7/16"            | <b>120611</b> | 25.52         |            |                |                  |              |            |           |
| 2-1/2"             | <b>120612</b> | 25.05         |            |                |                  |              |            |           |
| 2-5/8"             | <b>120613</b> | 24.50         | 5/8 x 5/16 | 5/8 x 5/16     | 5/8 x 5/8        |              |            |           |
| 2-11/16"           | <b>120614</b> | 24.18         |            |                |                  |              |            |           |
| 2-3/4"             | <b>120615</b> | 23.86         |            |                |                  |              |            |           |

| QD Bush Size       | Bore          | P/N           | WT.        | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|--------------------|---------------|---------------|------------|----------------|------------------|--------------|
| <b>J</b><br>(cont) | 2-7/8"        | <b>120617</b> | 23.15      | 3/4 x 3/8      | 3/4 x 3/8        | 3/4 x 3/4    |
|                    | 2-15/16"      | <b>120618</b> | 23.07      |                |                  |              |
|                    | 3"            | <b>120619</b> | 22.43      |                |                  |              |
|                    | 3-1/8"        | <b>120620</b> | 21.68      |                |                  |              |
|                    | 3-3/16"       | <b>120621</b> | 21.35      |                |                  |              |
|                    | 3-1/4"        | <b>120622</b> | 20.98      |                |                  |              |
|                    | 3-3/8"        | <b>120623</b> | 20.33      | 7/8 x 7/16     | 7/8 x 7/16       | 7/8 x 7/8    |
|                    | 3-7/16"       | <b>120624</b> | 21.13      |                |                  |              |
|                    | 3-1/2"        | <b>120625</b> | 19.58      |                |                  |              |
|                    | 3-5/8"        | <b>120626</b> | 18.44      |                |                  |              |
|                    | 3-11/16"      | <b>120627</b> | 18.04      |                |                  |              |
|                    | 3-3/4"        | <b>120628</b> | 17.62      |                |                  |              |
|                    | 3-7/8"        | <b>120629</b> | 17.94      | 1 x 1/8        | 1 x 1/2          | 1 x 5/8 *    |
|                    | 3-15/16"      | <b>120630</b> | 17.38      |                |                  |              |
|                    | 4"            | <b>120631</b> | 16.62      |                |                  |              |
|                    | 4-1/8"        | <b>120632</b> | 15.69      |                |                  |              |
|                    | 4-3/16"       | <b>120633</b> | 14.55      |                |                  |              |
|                    | 4-1/4"        | <b>120634</b> | 14.68      |                |                  |              |
|                    | 4-3/8"        | <b>120635</b> | 14.00      | 14 X 3.8MM     | 14 X 5.5MM       | 14 X 9MM     |
|                    | 4-7/16"       | <b>120636</b> | 13.49      |                |                  |              |
| 4-1/2"             | <b>120637</b> | 12.67         |            |                |                  |              |
| 50MM               | <b>120157</b> | 26.50         |            |                |                  |              |
| 55MM               | <b>120158</b> | 25.60         |            |                |                  |              |
| 60MM               | <b>120159</b> | 25.82         |            |                |                  |              |
| 65MM               | <b>120160</b> | 25.25         | 18 X 4.4MM | 18 X 7MM       | 18 X 11MM        |              |
| 70MM               | <b>120161</b> | 24.04         |            |                |                  |              |
| 75MM               | <b>120162</b> | 21.90         |            |                |                  |              |
| 80MM               | <b>120163</b> | 20.90         |            |                |                  |              |
| 85MM               | <b>120164</b> | 20.52         |            |                |                  |              |
| 90MM               | <b>120165</b> | 18.10         |            |                |                  |              |
| 95MM               | <b>120166</b> | 16.80         | 20 X 4.9MM | 20 x 7.5MM     | 20 X 12MM        |              |
| 100MM              | <b>120167</b> | 16.50         |            |                |                  |              |
| 26 X 6.4MM         |               |               |            |                |                  |              |
| 28 X 10MM          |               |               |            |                |                  |              |
| 28 X 16MM          |               |               |            |                |                  |              |
| 2"                 | <b>119900</b> | 62.65         |            |                |                  | 1/2 x 1/4    |
| 2-1/8"             | <b>119901</b> | 62.65         |            |                |                  |              |
| 2-3/16"            | <b>119902</b> | 61.58         |            |                |                  |              |
| 2-1/4"             | <b>119903</b> | 61.14         |            |                |                  |              |
| 2-3/8"             | <b>119904</b> | 59.50         |            |                |                  |              |
| 2-7/16"            | <b>119905</b> | 59.35         |            |                |                  |              |
| 2-1/2"             | <b>119906</b> | 59.21         | 5/8 x 5/16 | 5/8 x 5/16     | 5/8 x 5/8        |              |
| 2-5/8"             | <b>119907</b> | 58.69         |            |                |                  |              |
| 2-3/4"             | <b>119908</b> | 57.86         |            |                |                  |              |
| 2-7/8"             | <b>119909</b> | 56.57         |            |                |                  |              |
| 2-15/16"           | <b>119910</b> | 56.17         |            |                |                  |              |
| 3"                 | <b>119911</b> | 56.10         |            |                |                  |              |
| 3-1/8"             | <b>119912</b> | 55.82         | 3/4 x 3/8  | 3/4 x 3/8      | 3/4 x 3/4        |              |
| 3-3/16"            | <b>119913</b> | 53.84         |            |                |                  |              |
| 3-1/4"             | <b>119914</b> | 53.42         |            |                |                  |              |
| 3-3/8"             | <b>119915</b> | 52.06         |            |                |                  |              |
| 3-7/16"            | <b>119916</b> | 52.04         |            |                |                  |              |
| 3-1/2"             | <b>119917</b> | 51.12         |            |                |                  |              |
| 3-5/8"             | <b>119918</b> | 50.08         | 7/8 x 7/16 | 7/8 x 7/16     | 7/8 x 7/8        |              |
| 3-11/16"           | <b>119919</b> | 49.00         |            |                |                  |              |
| 3-3/4"             | <b>119920</b> | 48.47         |            |                |                  |              |
| 3-7/8"             | <b>119921</b> | 47.03         |            |                |                  |              |
| 3-15/16"           | <b>119922</b> | 46.26         |            |                |                  |              |
| 4"                 | <b>119923</b> | 46.09         |            |                |                  |              |
| 4-1/8"             | <b>119924</b> | 44.31         | 1 x 1/2    | 1 x 1/2        | 1 x 1            |              |
| 4-3/16"            | <b>119925</b> | 43.64         |            |                |                  |              |
| 4-1/4"             | <b>119926</b> | 42.81         |            |                |                  |              |

P/N's marked (+) are Integral Key Bushings

Bore sizes marked (#) will be supplied with 1/2" wide keyway unless the 5/8" wide keyway is specified when ordering

\* Key furnished for these sizes ONLY

\*\* Key not furnished for MM bores sizes

|                                     |                                 |                            |                            |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|
| T-L FEATURES/BENEFITS<br>PAGE PT6-2 | T-L SPECIFICATION<br>PAGE PT6-3 | QD BUSHINGS<br>PAGE PT6-16 | GT BUSHINGS<br>PAGE PT6-28 |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|





# SPECIFICATION

## QD Bushings - Stock Bore

| QD Bush Size    | Bore          | P/N           | WT.           | Bushing Keyway | Shaft Keyway REF | Key Size REF  |
|-----------------|---------------|---------------|---------------|----------------|------------------|---------------|
| <b>M (cont)</b> | 4-3/8"        | <b>119927</b> | 41.46         |                |                  |               |
|                 | 4-7/16"       | <b>119928</b> | 40.60         | 1 x 1/2        | 1 x 1/2          | 1 x 1         |
|                 | 4-1/2"        | <b>119929</b> | 40.27         |                |                  |               |
|                 | 4-11/16"      | <b>119930</b> | 37.12         | 1-1/4 x 5/8    | 1-1/4 x 5/8      | 1-1/4 x 1-1/4 |
|                 | 4-3/4"        | <b>119931</b> | 37.00         |                |                  |               |
|                 | 4-7/8"        | <b>119932</b> | 36.89         |                |                  |               |
|                 | 4-15/16"      | <b>119933</b> | 36.13         |                |                  |               |
|                 | 5"            | <b>119934</b> | 35.66         |                |                  |               |
|                 | 5-1/8"        | <b>119899</b> | 35.00         | 1-1/4 x 1/4    | 1-1/4 x 5/8      | 1-1/4 x 7/8 * |
|                 | 5-3/16"       | <b>119894</b> | 35.00         |                |                  |               |
|                 | 5-1/4"        | <b>119935</b> | 30.00         |                |                  |               |
|                 | 5-7/16"       | <b>119936</b> | 30.00         |                |                  |               |
|                 | 5-1/2"        | <b>119937</b> | 29.00         |                |                  |               |
|                 | <b>N</b>      | 2-7/16"       | <b>119940</b> | 87.57          | 5/8 x 5/16       | 5/8 x 5/16    |
| 2-15/16"        |               | <b>119941</b> | 83.00         | 3/4 x 3/8      | 3/4 x 3/8        | 3/4 x 3/4     |
| 3-7/16"         |               | <b>119942</b> | 80.00         |                |                  |               |
| 3-1/2"          |               | <b>119980</b> | 80.00         | 7/8 x 7/16     | 7/8 x 7/16       | 7/8 x 7/8     |
| 3-3/4"          |               | <b>119943</b> | 80.00         |                |                  |               |
| 3-7/8"          |               | <b>119944</b> | 80.00         |                |                  |               |
| 3-15/16"        |               | <b>119945</b> | 80.00         |                |                  |               |
| 4"              |               | <b>119946</b> | 80.00         |                |                  |               |
| 4-3/16"         |               | <b>119947</b> | 80.00         | 1 x 1/2        | 1 x 1/2          | 1 x 1         |
| 4-1/4"          |               | <b>119948</b> | 80.00         |                |                  |               |
| 4-3/8"          |               | <b>119982</b> | 79.00         |                |                  |               |
| 4-7/16"         |               | <b>119949</b> | 78.00         |                |                  |               |
| 4-1/2"          |               | <b>119950</b> | 77.00         |                |                  |               |
| 4-11/16"        |               | <b>119983</b> | 76.00         |                |                  |               |
| 4-3/4"          |               | <b>119951</b> | 75.00         |                |                  |               |
| 4-7/8"          |               | <b>119952</b> | 74.00         | 1-1/4 x 5/8    | 1-1/4 x 5/8      | 1-1/4 x 1-1/4 |
| 4-15/16"        |               | <b>119953</b> | 73.00         |                |                  |               |
| 5"              |               | <b>119954</b> | 72.00         |                |                  |               |
| 5-1/8"          |               | <b>119955</b> | 71.00         |                |                  |               |
| 5-3/16"         |               | <b>119986</b> | 70.50         |                |                  |               |
| 5-1/4"          | <b>119956</b> | 70.00         | 1-1/4 x 1/4   | 1-1/4 x 5/8    | 1-1/4 x 7/8 *    |               |
| 5-7/16"         | <b>119957</b> | 52.19         |               |                |                  |               |
| 5-1/2"          | <b>119958</b> | 49.02         |               |                |                  |               |
| 5-3/4"          | <b>119959</b> | 49.00         |               |                |                  |               |
| 5-7/8"          | <b>119960</b> | 44.00         |               |                |                  |               |
| 5-15/16"        | <b>119961</b> | 43.00         | 1-1/2 x 1/8   | 1-1/2 x 3/4    | 1-1/2 x 7/8 *    |               |
| 6"              | <b>119962</b> | 42.00         |               |                |                  |               |

| QD Bush Size | Bore          | P/N           | WT.         | Bushing Keyway | Shaft Keyway REF | Key Size REF  |
|--------------|---------------|---------------|-------------|----------------|------------------|---------------|
| <b>P</b>     | 3-7/16"       | <b>119965</b> | 134.00      | 7/8 x 7/16     | 7/8 x 7/16       | 7/8 x 7/8     |
|              | 3-15/16"      | <b>119966</b> | 122.00      |                |                  |               |
|              | 4"            | <b>119987</b> | 122.00      | 1 x 1/2        | 1 x 1/2          | 1 x 1         |
|              | 4-7/16"       | <b>119967</b> | 122.40      |                |                  |               |
|              | 4-1/2"        | <b>119968</b> | 121.00      |                |                  |               |
|              | 4-3/4"        | <b>119969</b> | 120.00      |                |                  |               |
|              | 4-7/8"        | <b>119985</b> | 120.00      |                |                  |               |
|              | 4-15/16"      | <b>119970</b> | 119.00      |                |                  |               |
|              | 5"            | <b>119971</b> | 115.00      | 1-1/4 x 5/8    | 1-1/4 x 5/8      | 1-1/4 x 1-1/4 |
|              | 5-3/16"       | <b>119984</b> | 114.00      |                |                  |               |
|              | 5-7/16"       | <b>119972</b> | 113.00      |                |                  |               |
|              | 5-1/2"        | <b>119973</b> | 100.00      |                |                  |               |
|              | 5-15/16"      | <b>119974</b> | 94.00       |                |                  |               |
|              | 6"            | <b>119975</b> | 93.70       |                |                  |               |
| 6-7/16"      | <b>119976</b> | 83.50         | 1-1/2 x 1/4 | 1-1/2 x 3/4    | 1-1/2 x 1 *      |               |
| 6-1/2"       | <b>119977</b> | 80.50         |             |                |                  |               |
| 7"           | <b>119978</b> | 68.00         | 1-3/4 x 1/8 | 1-3/4 x 3/4    | 1-3/4 x 7/8 *    |               |
| <b>W</b>     | 4-1/4"        | <b>120180</b> | 260.00      |                |                  |               |
|              | 4-7/16"       | <b>120181</b> | 256.60      | 1 x 1/2        | 1 x 1/2          | 1 x 1         |
|              | 4-1/2"        | <b>120182</b> | 255.40      |                |                  |               |
|              | 4-3/4"        | <b>120183</b> | 250.00      |                |                  |               |
|              | 5"            | <b>120186</b> | 244.30      | 1-1/4 x 5/8    | 1-1/4 x 5/8      | 1-1/4 x 1-1/4 |
|              | 5-3/8"        | <b>120188</b> | 235.30      |                |                  |               |
|              | 5-1/2"        | <b>120189</b> | 232.20      |                |                  |               |
|              | 5-3/4"        | <b>120190</b> | 225.70      |                |                  |               |
|              | 5-7/8"        | <b>120191</b> | 222.30      |                |                  |               |
|              | 5-15/16"      | <b>120192</b> | 220.00      | 1-1/2 x 3/4    | 1-1/2 x 3/4      | 1-1/2 x 1-1/2 |
|              | 6"            | <b>120193</b> | 218.90      |                |                  |               |
|              | 6-1/2"        | <b>120194</b> | 215.00      |                |                  |               |
|              | 6-3/4"        | <b>120328</b> | 210.00      |                |                  |               |
|              | 7"            | <b>120196</b> | 184.90      | 1-3/4 x 3/4    | 1-3/4 x 3/4      | 1-3/4 x 1-1/2 |
|              | 7-1/4"        | <b>120197</b> | 184.40      |                |                  |               |
|              | 7-1/2"        | <b>120198</b> | 175.80      |                |                  |               |
| 7-3/4"       | <b>120199</b> | 172.00        | 2 x 1/4     | 2 x 3/4        | 2 x 1 *          |               |
| 8"           | <b>120200</b> | 159.70        |             |                |                  |               |

**S** ▼ Bushings size available please call Dodge for information

P/N's marked (+) are Integral Key Bushings  
 Bore sizes marked (#) will be supplied with 1/2" wide keyway unless the 5/8" wide keyway is specified when ordering

\* Key furnished for these sizes ONLY  
 \*\* Key not furnished for MM bores sizes

|                                     |                                 |                            |                            |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|
| T-L FEATURES/BENEFITS<br>PAGE PT6-2 | T-L SPECIFICATION<br>PAGE PT6-3 | QD BUSHINGS<br>PAGE PT6-16 | GT BUSHINGS<br>PAGE PT6-28 |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|

PT Component  
Quick References

Couplings

Clutches and Brakes

FLEXIDYNE

Fluid Couplings

TORQUE-TAMER

Bushings



# SPECIFICATION

## QD Reborable

| QD Bush Size | Sintered Steel |        | Cast Iron |        | Ductile Iron |        |
|--------------|----------------|--------|-----------|--------|--------------|--------|
|              | Bore           | P/N    | Bore      | P/N    | Bore         | P/N    |
| QT (L)       | 3/8"           | 120595 |           |        |              |        |
| JA           | 1/2"           | 120050 |           |        |              |        |
| SH           | 1/2"           | 120051 |           |        | 1/2"         | 119876 |
| SDS          | 1/2"           | 120052 |           |        | 1-7/16"      | 119877 |
| SD           | 1/2"           | 120053 |           |        | 1-9/16"      | 119878 |
| SK           | 1/2"           | 120054 |           |        | 2"           | 119879 |
| SF           | 1/2"           | 120055 |           |        | 2-5/16"      | 119880 |
| E            |                |        | 7/8"      | 120056 | 7/8"         | 119881 |
| F            |                |        | 1"        | 120057 | 1"           | 119882 |
| J            |                |        | 1-1/2"    | 120058 | 1-1/2"       | 119883 |
| M            |                |        | 2"        | 119938 | 2"           | 119884 |
| N            |                |        | 2-7/16"   | 119963 | 2-7/16"      | 119885 |
| P            |                |        | 3-7/16"   | 119979 | 3-7/16"      | 119886 |
| W            |                |        | 4"        | 120276 |              |        |
| S            |                |        | 5-1/2"    | 394059 |              |        |

**NOTE:** All reborable bushings are stocked without sawsplit to facilitate re-machining. Sawsplit must be made in bushing to allow it to compress for proper gripping of the shaft. Factory rebore and keyseat service as listed in MLP price book includes sawsplit.

## QD - Maximum Bore Capacities

| QD Bush Size | Sintered Steel |             |        | Cast Iron |             |        | Ductile Iron |             |          |        |
|--------------|----------------|-------------|--------|-----------|-------------|--------|--------------|-------------|----------|--------|
|              | Full Key       | Shallow Key | Metric | Full Key  | Shallow Key | Metric | Full Key     | Shallow Key | No Key*  | Metric |
| QT (L)       |                |             |        |           |             |        |              |             |          |        |
| JA           | 1"             | 1-1/16"     | 25     |           |             |        | 1"           | 1-3/16"     | 1-1/4"   | 25     |
| SH           | 1-1/4"         | 1-1/4"      | 30     |           |             |        | 1-3/8"       | 1-5/8"      | 1-11/16" | 35     |
| SDS          | 1-9/16"        | 1-5/8"      | 40     |           |             |        | 1-5/8"       | 1-15/16"    | 2"       | 42     |
| SD           | 1-9/16"        | 1-9/16"     | 40     |           |             |        | 1-11/16"     | 1-15/16"    | 2"       | 42     |
| SK           | 2"             | 2-1/16"     | 50     |           |             |        | 2-1/2"       | 2-1/2"      | 2-5/8"   | 55     |
| SF           | 2-1/4"         | 2-3/8"      | 55     |           |             |        | 2-5/16"      | 2-15/16"    | 2-15/16" | 65     |
| E            |                |             |        | 2-3/4"    | 3"          | 70     | 2-7/8"       | 3-1/2"      | 3-1/2"   | 89     |
| F            |                |             |        | 3-1/4"    | 3-7/16"     | 90     | 3-1/4"       | 3-15/16"    | 4"       | 101    |
| J            |                |             |        | 3-3/4"    | 3-7/8"      | 100    | 3-3/4"       | 4-1/2"      | 4-1/2"   | 114    |
| M            |                |             |        | 4-3/4"    | 5"          | 120    | 4-3/4"       | 5-1/2"      | 5-1/2"   | 139    |
| N            |                |             |        | 5"        | 5-1/4"      | 130    | 5"           | 6"          | 6"       | 149    |
| P            |                |             |        | 5-1/2"    | 7"          | 160    | 5-1/2"       | 7"          | 7"       | 177    |
| W            |                |             |        | 6-1/2"    | 7"          | 165    | 6-1/2"       | 8-1/2"      | 8-1/2"   | 216    |
| S            |                |             |        | 8-1/4"    | 8-1/4"      | 209    | 8-1/4"       | 10"         | 10"      | 250    |

**NOTE:** ISO STANDARD METHOD FOR MEASURING KEYSEAT DEPTH  
MM Bore and Keyway dimensions conform to ISO standard recommendation R773, for "Free" fit

### REFERENCE:

1 inch = 25.4 millimeters  
1 millimeter = .03937 inches

\* Verify torque capacity: Contact Application Engineering for assistance

|                                     |                                 |                            |                            |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|
| T-L FEATURES/BENEFITS<br>PAGE PT6-2 | T-L SPECIFICATION<br>PAGE PT6-3 | QD BUSHINGS<br>PAGE PT6-16 | GT BUSHINGS<br>PAGE PT6-28 |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|



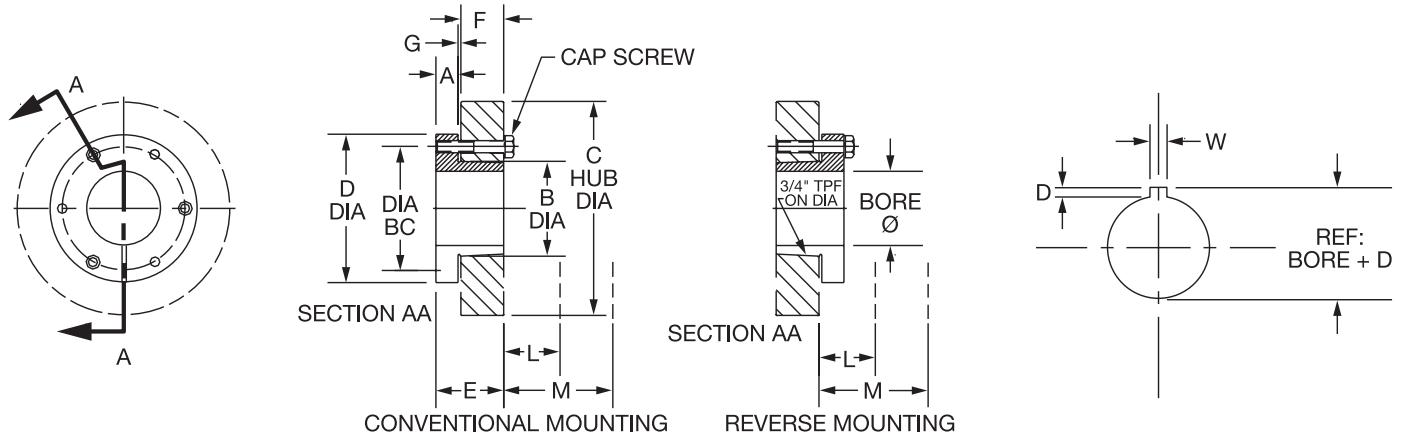
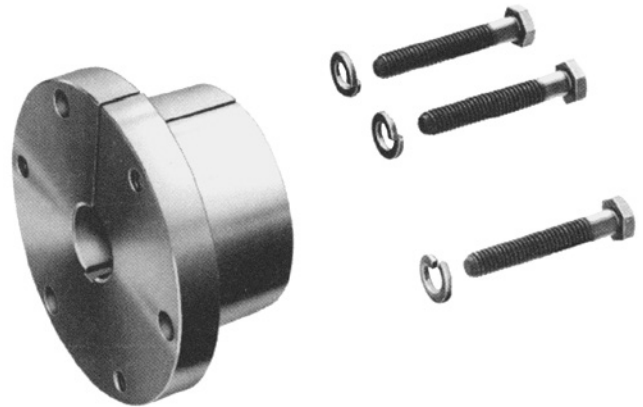


## SPECIFICATION

### QD Bushing - Metric Bore/Metric Hardware

#### FEATURES

- ◆ DODGE QD-style bushings stocked in popular finish bore sizes and minimum plain bore, for custom reboring
- ◆ DODGE Metric QD bushings supplied with metric hex-head cap screws and lock washers
- ◆ Stock reborable bushings available for custom reboring
- ◆ Reboring and sawsplit available from DODGE for nominal extra charge  
**NOTE:** Rebore by others must be sawsplit after rebore
- ◆ Can be used with DODGE HTD sprockets for conventional mounting only (*English thread hardware required for demounting.*)



|                                     |                                 |                            |                            |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|
| T-L FEATURES/BENEFITS<br>PAGE PT6-2 | T-L SPECIFICATION<br>PAGE PT6-3 | QD BUSHINGS<br>PAGE PT6-16 | GT BUSHINGS<br>PAGE PT6-28 |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|



# SPECIFICATION

## QD Bushing - Metric Bore/Metric Hardware

### Stock Reborable Bushings & Specifications

| Bush Sym | Ductile Iron |          |            | Dimensions (MM) |        |           |        |        |        |        |       |
|----------|--------------|----------|------------|-----------------|--------|-----------|--------|--------|--------|--------|-------|
|          | Part No.     | Max Bore | Stock Bore | A MM            | B MM   | C Hub Dia |        | D MM   | E MM   | F MM   | G MM  |
|          |              |          |            |                 |        | Iron      | Steel  |        |        |        |       |
| QT / (L) | 119861       | 35       | 10.00      | 6.40            | 41.40  | 76.20     | 69.90  | 63.50  | 33.30  | 22.20  | 4.80  |
| JA       | 119860       | 25       | 12.70      | 7.90            | 35.10  | 99.80     | 57.20  | 50.80  | 25.40  | 14.20  | 3.10  |
| SH       | 119862       | 36       | 12.70      | 10.90           | 47.80  | 120.70    | 76.20  | 66.80  | 33.30  | 20.60  | 3.10  |
| SDS      | 119863       | 42       | 36.51      | 10.90           | 55.40  | 120.70    | 88.90  | 80.80  | 33.30  | 19.10  | 3.10  |
| SD       | 119864       | 42       | 39.69      | 10.90           | 55.40  | 96.80     | 88.90  | 80.80  | 46.00  | 31.80  | 3.10  |
| SK       | 119865       | 55       | 50.80      | 14.20           | 71.40  | 120.70    | 114.30 | 98.60  | 49.00  | 31.80  | 5.60  |
| SF       | 119866       | 60       | 58.74      | 16.00           | 79.50  | 162.10    | 139.70 | 117.60 | 52.30  | 31.80  | 5.60  |
| E        | 119867       | 82       | 22.20      | 22.40           | 97.30  | 190.50    | 165.10 | 152.40 | 69.90  | 41.40  | 6.40  |
| F        | 119868       | 92       | 25.40      | 25.40           | 115.50 | 196.90    | 184.20 | 168.40 | 95.30  | 63.50  | 8.60  |
| J        | 119869       | 104      | 38.10      | 28.70           | 130.60 | 228.60    | 203.20 | 184.20 | 117.60 | 80.80  | 9.70  |
| M        | 119870       | 130      | 50.80      | 31.80           | 165.10 | 289.10    | 254.00 | 228.60 | 171.50 | 131.60 | 10.40 |

| Bushing  |                      |                 | Bolt |             |            |                  |
|----------|----------------------|-----------------|------|-------------|------------|------------------|
| Type     | Torque Capacity (Nm) | Center Dia (mm) | Qty  | Length (mm) | Size       | Bolt Torque (Nm) |
| QT / (L) | 113                  | 50.8            | 2    | 22          | M6 x 1     | 9.6              |
| JA       | 113                  | 42.3            | 3    | 25          | M5 x 0.8   | 5.6              |
| SH       | 395                  | 57.2            | 3    | 35          | M6 x 1     | 11.5             |
| SDS      | 565                  | 68.3            | 3    | 35          | M6 x 1     | 11.5             |
| SD       | 565                  | 68.3            | 3    | 50          | M6 x 1     | 11.5             |
| SK       | 781                  | 84.1            | 3    | 50          | M8 x 1.25  | 20.5             |
| SF       | 1243                 | 98.4            | 3    | 50          | M10 x 1.5  | 34.0             |
| E        | 2260                 | 127.0           | 3    | 70          | M12 x 1.75 | 77.0             |
| F        | 3390                 | 142.9           | 3    | 100         | M14 x 2    | 100.0            |
| J        | 5085                 | 158.8           | 3    | 120         | M16 x 2    | 194.5            |
| M        | 9600                 | 200.0           | 4    | 180         | M20 x 2.5  | 256.0            |

## QD Bushing - Metric Series

### Metric QD Bushing - Metric Hardware

| MM Bore | Bushing No. |         |         |         |         |         |         |         |         | MM Keyway |      |
|---------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|------|
|         | QT / (L)    | JA      | SH      | SDS     | SD      | SK      | SF      | E       | F       | W         | D    |
| 14      | ----        | 117377  | ----    | ----    | ----    | ----    | ----    | ----    | ----    | 5         | 2.30 |
| 19      | ----        | 117371  | ----    | ----    | ----    | ----    | ----    | ----    | ----    | 6         | 2.80 |
| 20      | ----        | 117372  | 117378  | 117385  | ----    | ----    | ----    | ----    | ----    | 6         | 2.80 |
| 24      | ----        | 117373  | 117379  | 117386  | 117531  | 117540  | ----    | ----    | ----    | 8         | 3.30 |
| 25      | 117356      | 117374* | 117380  | 117387  | 117532  | 117541  | 117553  | ----    | ----    | 8         | 3.30 |
| 28      | ----        | ----    | 117381  | 117388  | 117533  | 117542  | 117554  | ----    | ----    | 8         | 3.30 |
| 30      | 117357      | ----    | 117382  | 117389  | 117534  | 117543  | 117555  | ----    | ----    | 8         | 3.30 |
| 32      | 117358*     | ----    | 117383* | 117390  | 117535  | 117544  | 117556  | ----    | ----    | 10        | 3.30 |
| 35      | ----        | ----    | 117384* | 117391  | 117536  | 117545  | 117557  | ----    | ----    | 10        | 3.30 |
| 38      | ----        | ----    | ----    | 117392  | 117537  | 117546  | 117558  | ----    | ----    | 10        | 3.30 |
| 40      | ----        | ----    | ----    | 117393  | 117538  | 117547  | 117559  | 117571* | 117583* | 12        | 3.30 |
| 42      | ----        | ----    | ----    | 117394* | 117539* | 117548  | 117560  | ----    | 117584* | 12        | 3.30 |
| 45      | ----        | ----    | ----    | ----    | ----    | 117549  | 117561  | ----    | ----    | 14        | 3.80 |
| 48      | ----        | ----    | ----    | ----    | ----    | 117550  | 117562  | ----    | ----    | 14        | 3.80 |
| 50      | ----        | ----    | ----    | ----    | ----    | 117551  | 117563  | 117575* | 117587* | 14        | 3.80 |
| 55      | ----        | ----    | ----    | ----    | ----    | 117552* | 117564  | 117576* | 117588* | 16        | 4.30 |
| 60      | ----        | ----    | ----    | ----    | ----    | ----    | 117565* | ----    | 117589* | 18        | 4.40 |

Part Numbers marked (\*) are Ductile Iron

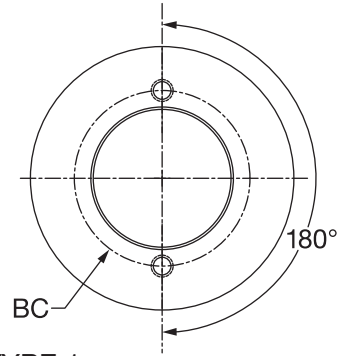
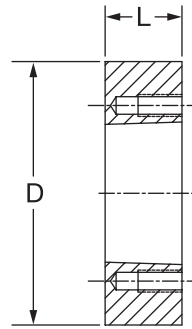
|                                     |                                 |                            |                            |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|
| T-L FEATURES/BENEFITS<br>PAGE PT6-2 | T-L SPECIFICATION<br>PAGE PT6-3 | QD BUSHINGS<br>PAGE PT6-16 | GT BUSHINGS<br>PAGE PT6-28 |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|



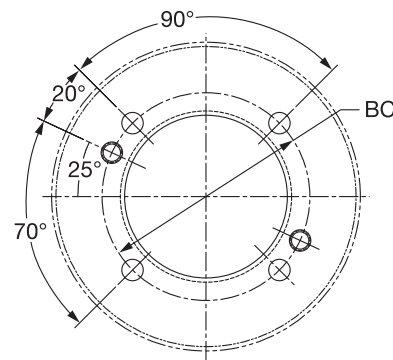
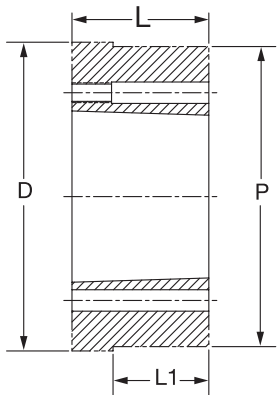
# SPECIFICATION

## QD Hubs

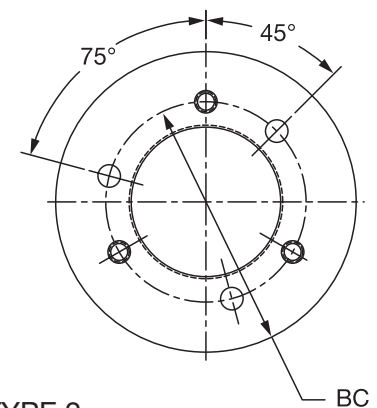
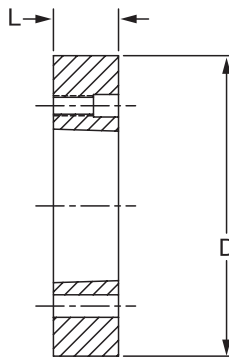
DODGE QD Weld-On hubs are useful for welding into fan rotors, pulleys, plate sprockets, impellers, agitators, etc. which require secure mounting to the shaft. These hubs are made of low carbon steel for good welding compatibility. The data tabulation shows the standard QD bushings that are used with these hubs.



TYPE 1



TYPE 3



TYPE 2

| Hub No. | Part No. | For Bush | Bore Range       | Wt. Lbs. | Type | Dimensions |      |       |       |      |                     |
|---------|----------|----------|------------------|----------|------|------------|------|-------|-------|------|---------------------|
|         |          |          |                  |          |      | D*         | L    | BC    | P     | L1   | Thread Size         |
| QT-A    | 228465   | QT       | 3/8 to 1-1/2"    | 0.6      | 1    | 2.375      | 0.88 | 2.00  | 2.50  | 0.17 | 1/4-20 NC x 3/4     |
| JA-A    | 228466   | JA       | 1/2 to 1-1/4"    | 0.4      | 2    | 2.250      | 0.56 | 1.66  | ....  | .... | 10-24 NC x 1        |
| SH-A    | 228467   | SH       | 1/2 to 1-11/16"  | 1.0      | 2    | 3.000      | 0.81 | 2.25  | ....  | .... | 1/4-20 NC x 1-3/8   |
| SDS-A   | 228468   | SDS      | 1/2 to 2"        | 1.3      | 2    | 3.500      | 0.75 | 2.6   | ....  | .... | 1/4-20 NC x 1-3/8   |
| SK-A    | 228469   | SK       | 1/2 to 2-5/8"    | 3.0      | 2    | 4.375      | 1.25 | 3.31  | ....  | .... | 5/16-18 NC x 2      |
| SF-A    | 228470   | SF       | 1/2 to 2-15/16"  | 4.0      | 2    | 5.000      | 1.25 | 3.88  | ....  | .... | 3/8-16 NC x 2       |
| E-A     | 228471   | E        | 7/8 to 3-1/2"    | 9.0      | 2    | 6.250      | 1.63 | 5.00  | ....  | .... | 1/2-13 NC x 2-3/4   |
| F-A     | 228472   | F        | 1 to 4"          | 16.0     | 2    | 7.000      | 2.50 | 5.63  | ....  | .... | 9/16-12 NC x 3-5/8  |
| J-A     | 228473   | J        | 1-1/2 to 4-1/2"  | 22.5     | 2    | 7.750      | 3.19 | 6.25  | ....  | .... | 5/8-11 NC x 4-1/2   |
| M-A     | 228474   | M        | 2 to 5-1/2"      | 50.0     | 3    | 9.250      | 5.19 | 7.88  | 9.50  | 3.56 | 3/4-10 NC x 6-3/4   |
| N-A     | 228475   | N        | 2-7/16 to 5-7/8" | 75.0     | 3    | 10.250     | 6.25 | 8.50  | 10.50 | 4.50 | 7/8-9 NC x 8        |
| P-A     | 228476   | P        | 2-15/16 to 7"    | 155.0    | 2    | 13.000     | 7.25 | 10.00 | ....  | .... | 1-8 NC x 9-1/2      |
| W-A     | 228477   | W        | 4 to 8-1/2"      | 300.0    | 2    | 15.500     | 9.00 | 12.75 | ....  | .... | 1-1/16-7 NC x 11/12 |

Mounting:

- Type 1: Reverse only
- Type 2: Conventional or Reverse
- Type 3: Conventional Only

\*Tolerance:

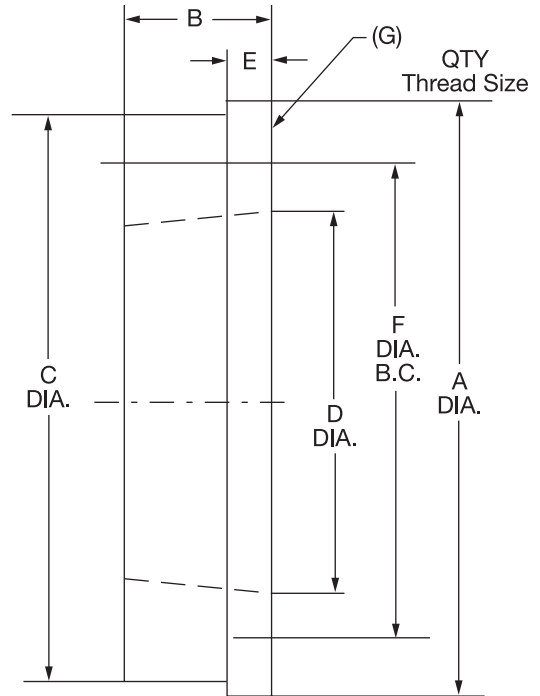
- QT-A Thru J-A = (+0.000"/-0.002")
- M-A Thru W-A = (+0.000"/-0.003")

|                                     |                                 |                            |                            |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|
| T-L FEATURES/BENEFITS<br>PAGE PT6-2 | T-L SPECIFICATION<br>PAGE PT6-3 | QD BUSHINGS<br>PAGE PT6-16 | GT BUSHINGS<br>PAGE PT6-28 |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|



# SPECIFICATION

## QD Weld-On Hubs For Conveyor Pulleys



DODGE QD Weld-On Hubs for conveyor pulleys are specifically designed for use in the end disc of a conveyor pulley. Their short length through bore provides more

forgiveness under the operating stresses of the pulley. These hubs are manufactured from low Carbon steel for good welding compatibility

### QD Weld-On Hubs For Conveyor Pulleys

| Hub No. | Part No. | For Bush. | Bore Range       | Wt. Lbs. | Dimensions |      |        |         |      |       | Installation Screws |                    |
|---------|----------|-----------|------------------|----------|------------|------|--------|---------|------|-------|---------------------|--------------------|
|         |          |           |                  |          | A          | B    | C #    | D (ref) | E    | F     | Qty                 | Thread Size        |
| SF      | 228110   | SF        | 1/2 to 2-15/16"  | 3.9      | 5.00       | 1.00 | 4.750  | 3.13    | 0.44 | 3.88  | 3                   | 3/8-16 NC x 2      |
| E       | 228111   | E         | 7/8 to 3-1/2"    | 6.6      | 6.25       | 1.13 | 6.000  | 3.52    | 0.50 | 5.00  | 3                   | 1/2-13 NC x 2-1/4  |
| F       | 228112   | F         | 1 to 4"          | 9.3      | 7.00       | 1.25 | 6.750  | 4.44    | 0.56 | 5.63  | 3                   | 9/16-12 NC x 3-5/8 |
| JS      | 228113   | J         | 1-1/2 to 4-1/2"  | 17       | 8.25       | 1.63 | 8.000  | 5.14    | 0.63 | 6.25  | 3                   | 5/8-11 NC x 2-1/2  |
| MS      | 228114   | M         | 2 to 5-1/2"      | 22       | 9.50       | 2.38 | 9.250  | 6.50    | 0.75 | 7.88  | 4                   | 3/4-10 NC-10 x 3   |
| NS      | 228115   | N         | 2-7/16 to 5-7/8" | 29       | 10.25      | 2.38 | 10.000 | 7.00    | 0.81 | 8.50  | 4                   | 7/8-9 NC x 3-1/2   |
| PS      | 228116   | P         | 2-15/16 to 7"    | 75       | 12.25      | 2.88 | 12.000 | 8.25    | 0.88 | 10.00 | 4                   | 1-8 NC x 4-1/2     |
| WS      | 228117   | W         | 4 to 8-1/2"      | 85       | 15.25      | 3.33 | 14.875 | 10.42   | 0.94 | 12.75 | 4                   | 1-1/8-7 NC x 5     |
| SS      | 228118   | S         | 5-1/2 to 10"     | 139      | 17.50      | 3.88 | 17.000 | 12.13   | 1.13 | 15.00 | 5                   | 1-1/4-7 NC x 5     |
| ZS      | 228119   | Z         | 7 to 12"         | 236      | 22.00      | 4.88 | 21.500 | 15.98   | 1.25 | 19.00 | 5                   | 1-1/8-7 NC x 5     |

# +.000/- .010" Tolerance



## FEATURES/BENEFITS

### GRIP-TIGHT Bushings

GRIP-TIGHT is a revolutionary bushing system that will decrease maintenance costs and increase productivity and uptime. The 360° contact provides a secure fit onto the shaft, reduces vibration, eliminates shaft damage and makes the use of keys obsolete.



#### Features and Benefits:

- Concentric contact on shaft for better grip
- Less vibration
- Superior balanced system
- No keyways required
- No fretting corrosion
- Can be used with commercial shafting
- Reduction in material cost
- Easy on, reliable mounting
- Same bushing concept used in bearings, fan hubs, and sheaves

#### Possible Application:

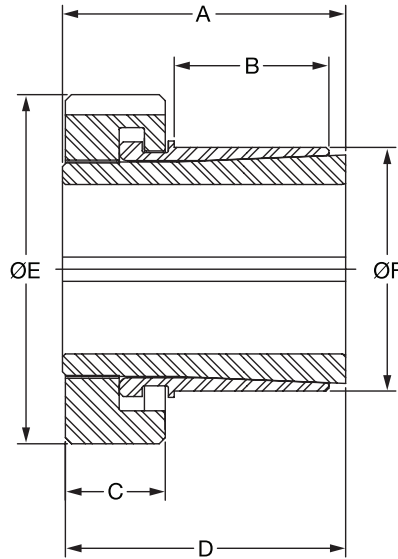
- Fan hub
- Sheaves and sprockets
- Couplings

**NOTE:** Installation and maintenance instructions for Dodge products are available on [www.dodge-pt.com](http://www.dodge-pt.com)

# SPECIFICATION



## GRIP-TIGHT Bushings - Dimensions



| Shaft Size* | Series | Part Number   | A    | B    | C    | D    | E    | F<br>+.002/- .000 | Recommended Housing Bore Tolerance | Locknut Rotation From Zero |
|-------------|--------|---------------|------|------|------|------|------|-------------------|------------------------------------|----------------------------|
| 1           | 205    | <b>111940</b> | 1.46 | 0.80 | 0.52 | 1.43 | 1.80 | 1.256             | + .0040" - 0                       | 2/3 Turn                   |
| 1-3/16      | 206    | <b>111941</b> | 1.61 | 0.94 | 0.53 | 1.58 | 2.00 | 1.445             | + .0040" - 0                       | 2/3 Turn                   |
| 1-7/16      | 207    | <b>111942</b> | 1.62 | 0.98 | 0.53 | 1.59 | 2.30 | 1.693             | + .0040" - 0                       | 2/3 Turn                   |
| 1-1/2       | 208    | <b>111943</b> | 1.84 | 1.12 | 0.53 | 1.81 | 2.50 | 1.932             | + .0040" - 0                       | 2/3 Turn                   |
| 1-11/16     | 209    | <b>111944</b> | 1.85 | 1.15 | 0.53 | 1.82 | 2.67 | 2.080             | + .0047" - 0                       | 2/3 Turn                   |
| 1-15/16     | 210    | <b>111945</b> | 1.86 | 1.16 | 0.53 | 1.83 | 2.94 | 2.312             | + .0047" - 0                       | 1 Turn                     |
| 2-3/16      | 211    | <b>111946</b> | 1.93 | 1.23 | 0.53 | 1.90 | 3.25 | 2.564             | + .0047" - 0                       | 1 Turn                     |
| 2-7/16      | 212    | <b>111947</b> | 2.12 | 1.33 | 0.60 | 2.09 | 3.50 | 2.782             | + .0047" - 0                       | 1 Turn                     |
| 2-11/16     | 214    | <b>111948</b> | 2.39 | 1.59 | 0.62 | 2.36 | 3.81 | 3.083             | + .0047" - 0                       | 1 Turn                     |
| 2-15/16     | 215    | <b>111949</b> | 2.56 | 1.66 | 0.75 | 2.53 | 4.25 | 3.410             | + .0055" - 0                       | 1 Turn                     |
| 3-7/16      | 218    | <b>111950</b> | 2.77 | 1.83 | 0.75 | 2.94 | 4.50 | 3.962             | + .0055" - 0                       | 1 Turn                     |

\* Other shaft sizes available upon request

**NOTE:** Installation and maintenance instructions for Dodge products available at [www.dodge-pt.com](http://www.dodge-pt.com)

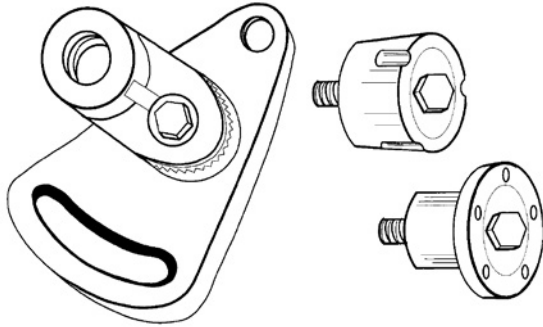


|                                     |                                 |                            |                            |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|
| T-L FEATURES/BENEFITS<br>PAGE PT6-2 | T-L SPECIFICATION<br>PAGE PT6-3 | QD BUSHINGS<br>PAGE PT6-16 | GT BUSHINGS<br>PAGE PT6-28 |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|

# SPECIFICATION



## Idler Brackets and Bushings

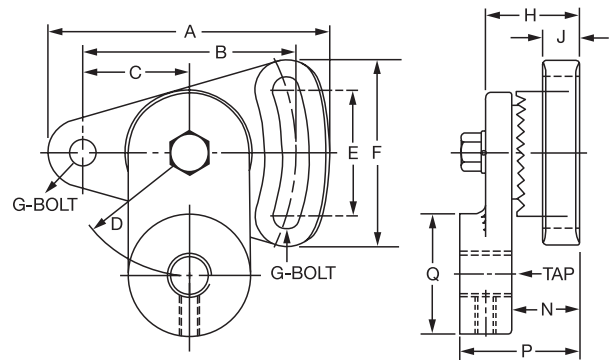


- Double Adjustable Bracket for Maximum Flexibility
  - Positive Ratchet Locking Between Base and Arm
  - Idler Bushings in TAPER-LOCK® and QD\* Style
  - Use with Stock Products, such as: Sheaves, Roller Chain Sprockets, HTD Sprockets · Compatible with Products Machined for: TAPER-LOCK 1610, 2012 and 2517 Bushings; QD SK, SF and E Bushings
- \* QD is a registered trademark of Emerson Electric.

### Bracket Specs

|             |     | Model No. |        |        |
|-------------|-----|-----------|--------|--------|
|             |     | 5         | 10     | 20     |
| Part Number |     | 115982    | 115986 | 115987 |
| WT.         |     | 3.40      | 3.40   | 13.50  |
| DIM.        | A   | 4.62      | 4.63   | 6.94   |
|             | B   | 3.50      | 3.50   | 5.25   |
|             | C   | 1.75      | 1.75   | 2.62   |
|             | D   | 2.00      | 2.00   | 5.00   |
| DIM.        | E   | 2.06      | 2.06   | 3.00   |
|             | F   | 3.06      | 3.06   | 4.56   |
|             | G   | 3/8       | 3/8    | 5/8    |
|             | H   | 1.63      | 1.63   | 2.38   |
| DIM.        | J   | 0.62      | 0.62   | 0.88   |
|             | N   | 1.16      | 1.16   | 1.63   |
|             | P   | 2.01      | 2.01   | 2.94   |
|             | Q   | 2.00      | 2.00   | 3.00   |
|             | THD | 5/8-18    | 3/4-16 | 1-14   |

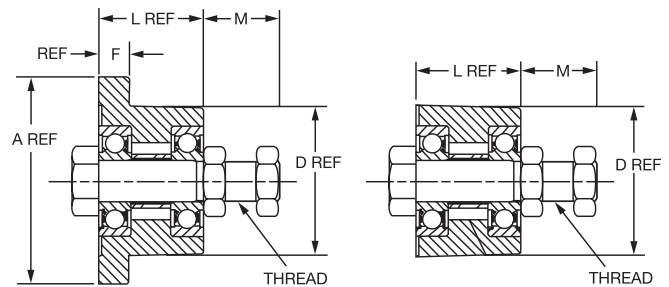
### IDLER BRACKETS



### Bushing Specs

| Taper-Lock   |     | 1610-IDL | 2012-IDL | 2517-IDL |
|--------------|-----|----------|----------|----------|
| Part Number  |     | 115985   | 115983   | 115984   |
| For Brkt No. |     | 5        | 10       | 10       |
| DIM.         | D   | 2.25     | 2.75     | 3.38     |
|              | L   | 1.00     | 1.25     | 1.75     |
|              | M   | 1.38     | 1.56     | 1.56     |
|              | THD | 5/8-18   | 3/4-16   | 3/4-16   |
|              | WT. | 1.0      | 1.6      | 3.0      |
| Bearings     |     | 6003     | 6204     | 6304     |

### IDLER BUSHINGS



| QD           |      | SH-IDL | SD-IDL | SK-IDL | SK-IDL - Large | SF-IDL | E-IDL  | E-IDL - Large |
|--------------|------|--------|--------|--------|----------------|--------|--------|---------------|
| Part Number  |      | 115978 | 115979 | 115988 | 115980         | 115989 | 115990 | 424063        |
| For Brkt No. |      | -      | -      | 10     | -              | 20     | 20     | -             |
| DIM.         | A    | 2.63   | 3.18   | 3.88   | 3.88           | 4.63   | 6.00   | 6.00          |
|              | D    | 1.88   | 2.18   | 2.81   | 2.81           | 3.13   | 3.83   | 3.83          |
|              | F    | 0.43   | 0.43   | 0.56   | 0.56           | 0.63   | 0.88   | 0.88          |
|              | L    | 1.31   | 1.81   | 1.94   | 1.94           | 2.08   | 2.75   | 2.75          |
|              | M    | 1.69   | 1.69   | 1.44   | 1.44           | 2.13   | 2.19   | 2.19          |
|              | Thd. | 3/4-10 | 3/4-10 | 3/4-16 | 1-8            | 1-14   | 1-14   | 1-1/4 - 12    |
|              | Wt.  | 2.10   | 2.50   | 2.80   | 2.80           | 5.00   | 8.60   | 12.50         |
| Bearings     |      | 6004   | 6204   | 6304   | 6206           | 6206   | 6306   | 6307          |

|                                     |                                 |                            |                            |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|
| T-L FEATURES/BENEFITS<br>PAGE PT6-2 | T-L SPECIFICATION<br>PAGE PT6-3 | QD BUSHINGS<br>PAGE PT6-16 | GT BUSHINGS<br>PAGE PT6-28 |
|-------------------------------------|---------------------------------|----------------------------|----------------------------|



## V-Drives

### Sheaves

|   |        |
|---|--------|
| Features/Benefits .....                     | PT7-2  |
| Selection/Dimensions, TAPER-LOCK            |        |
| Wedge (3V-5V-8V) .....                      | PT7-4  |
| Classical (A-B-C) .....                     | PT7-11 |
| Selection/Dimensions, QD Heavy Duty         |        |
| Wedge (3V-5V-8V) .....                      | PT7-16 |
| Classical (A-B-C) .....                     | PT7-22 |
| Selection/Dimensions, QD Standard Duty      |        |
| Wedge (3V-5V-8V) .....                      | PT7-29 |
| Classical (A-B-C) .....                     | PT7-36 |
| Selection/How To Order Custom Sheaves ..... | PT7-44 |

### V-Belts

|                                 |        |
|---------------------------------|--------|
| Features/Benefits .....         | PT7-45 |
| Selection:                      |        |
| D-V Wedge .....                 | PT7-46 |
| Polyband Wedge .....            | PT7-47 |
| S-L Classic .....               | PT7-50 |
| Polyband S-L Classic .....      | PT7-52 |
| Classic Cog .....               | PT7-56 |
| Double-V .....                  | PT7-57 |
| FLEXLINK .....                  | PT7-58 |
| FHP Fractional Horsepower ..... | PT7-59 |

#### Selection

|                               |         |
|-------------------------------|---------|
| D-V Wedge                     |         |
| Selection Procedure .....     | PT7-60  |
| Stock Selection Tables .....  | PT7-64  |
| Basic Horsepower Rating ..... | PT7-96  |
| S-L Classic Drives            |         |
| Selection Procedure .....     | PT7-102 |
| Stock Selection Tables .....  | PT7-106 |
| Basic Horsepower Rating ..... | PT7-134 |

### Related Products

|                                 |         |
|---------------------------------|---------|
| Idler Brackets & Bushings ..... | PT7-140 |
| Groove Belt Gages .....         | PT7-141 |

### Software

|                |         |
|----------------|---------|
| VIA-VISA ..... | PT7-141 |
|----------------|---------|

### Engineering/Technical

|                                    |          |
|------------------------------------|----------|
| Installation and Maintenance ..... | PT7-143  |
| Part Number Index .....            | INDEX-1  |
| Keyword Index .....                | INDEX-43 |

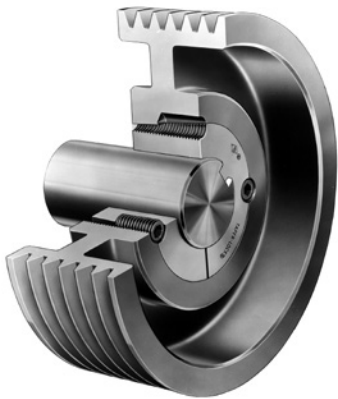




**FEATURES/BENEFITS**

**TAPER-LOCK and QD Sheaves**

**TAPER-LOCK Sheaves**



**QD Sheaves**

Great for Harsh duty applications, such as Rock Crushers and Wood Chippers.

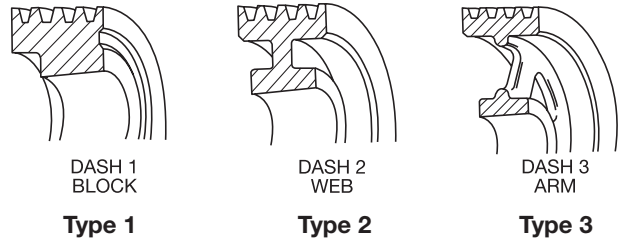
Dodge Taper-Lock Sheave Line offers:

- A premium solution
- A Bushing system that pound for pound carries more torque, than the QD system.
- A Bushing system that reduces overhung load increasing the life of the other power transmission products in the system.
- An easy on and easy off bushing system with fewer components to install.
- Quality materials
- Manufacturing to Industry recognized tolerances

Great for Standard and Harsh duty applications, suitable for all applications.

Sheaves are manufactured in DODGE plants under strict quality control assurances. Precision machining meets or exceeds joint RMA/MPTA industry standards for smooth operation plus extended belt life. DODGE manufactures all sheaves in plants certified to ISO 9002 Quality Standards.

**Sheave Construction**



DODGE Branded Sheaves come in two bushing styles, QD and Taper-Lock®. In addition to these bushing choices, DODGE now offers choices within our QD Sheaves line. Our QD Sheave line comes in a Standard Duty (SD) and a Heavy Duty (HD) offering.

Dodge QD SD Sheave Line offers:

- Economical Solution for everyday V-Belt power transmission applications
- Quality materials
- Manufacturing to Industry recognized tolerances
- Power transmission applications standard sheave loads and torque

Great for standard applications, such as air handling and fluid pumping.

Dodge QD HD Sheave Line offers:

- High strength solution for higher torque and heavy load applications
- Rigid Hubs and High strength arms
- Quality materials
- Manufacturing to Industry recognized tolerances

DODGE stock sheaves are manufactured from high quality gray iron. They are given a corrosion-resistant finish before packaging and shipping. Sheave construction follows the general format illustrated above: smaller sheaves are of the block construction, intermediate sizes of the web type, and large sheaves of the arm- type construction.

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets



## TAPER-LOCK and QD Sheaves

### Sheave Balance

Static balance of stock sheaves is suitable for most applications up to a rim speed of 6500 FPM. Dynamic (two-plane) balance is available at extra charge for applications that are more sensitive to vibration. Dynamic balance is recommended for operation above 6500 FPM.

### V-Drive Advantages

- Isolates shock loads and vibration.
- Misalignment capability.
- Drive ratios of 6:1 or more possible.
- Stock drive selections up to:
  - 1100 design HP at 1180 RPM
  - 800 design HP at 1770 RPM
- Low maintenance.
- No lubrication required.
- Quiet operation: Motors, etc. are normally at a higher db level than V-Drives.
- Efficiency of 93% is typical.

### Computer Selection

For fast, accurate evaluation of viable V-Drive alternatives, use the DODGE VIA-VISA software program which is available on the website [www.dodge-pt.com](http://www.dodge-pt.com). Just type the required information on the user-friendly input screen and let the software do the rest. All the significant data on the drive combinations is presented: Cost, RPM, shaft loading, installation tension, face width and diameter, etc. This is shown in a format that allows you to select the best drive for the application. See page PT7-123 for complete information on VIA-VISA.

### WARNING

Stock sheaves are manufactured from gray iron, which is suitable for operation up to 6500 feet per minute rim speed (e.g. 14, max. dia. on a 1750 RPM motor). Operation above this rim speed may cause sheave failure resulting in personnel and/or equipment damage. Refer to the Made-To-Order sheave section for constructions that are suitable for operation at higher rim speeds.

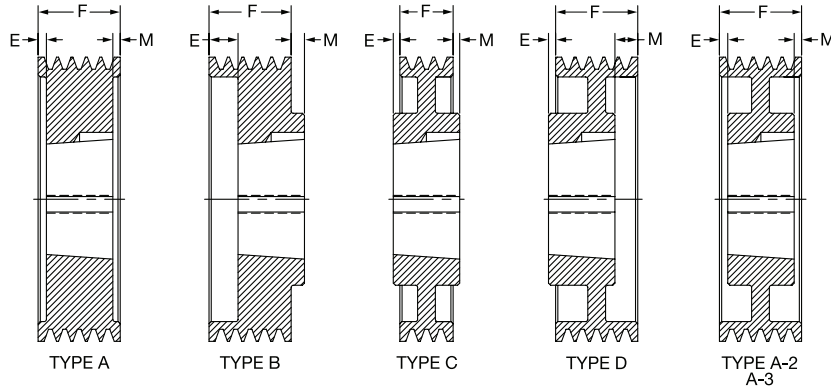
### ARAMIDE CORD BELTS WARNING:

Because of the high horsepower rating of Aramide (Kevlar) cord belts, stock sheaves can not be used. Contact DODGE for made to order high capacity sheaves at 864-234-5700.



## SELECTION/DIMENSIONS

### 3V TAPER-LOCK SHEAVES



| 1-Groove |          |               |      |       |     | F = ** |
|----------|----------|---------------|------|-------|-----|--------|
| O.D.Δ    | Part No. | Description   | Wt.  | Type‡ | E   | M      |
| 2.65     | 112124   | 1/3V2.65-1108 | .75  | A1    | .06 | 0      |
| 2.8      | 112125   | 1/3V2.8-1108  | .85  | A1    | .06 | 0      |
| 3.0      | 112126   | 1/3V3.0-1108  | 1.0  | A1    | .06 | 0      |
| 3.15     | 112127   | 1/3V3.15-1108 | 1.0  | A1    | .06 | 0      |
| 3.35     | 112175   | 1/3V3.35-1610 | 1.1  | A1    | .11 | .05    |
| 3.65     | 112176   | 1/3V3.65-1610 | 1.3  | A1    | .11 | .05    |
| 4.12     | 112177   | 1/3V4.12-1610 | 2.0  | A1    | .11 | .05    |
| 4.5      | 112178   | 1/3V4.5-1610  | 2.3  | A1    | .11 | .05    |
| 4.75     | 112179   | 1/3V4.75-1610 | 2.6  | A1    | .11 | .05    |
| 5.0      | 112180   | 1/3V5.0-1610  | 2.9  | A1    | .11 | .05    |
| 5.3      | 112181   | 1/3V5.3-1610  | 3.3  | A1    | .11 | .05    |
| 5.6      | 112182   | 1/3V5.6-1610  | 3.7  | A1    | .11 | .05    |
| 6.0      | 112183   | 1/3V6.0-1610  | 4.2  | B1    | 0   | .31    |
| 6.5      | 112184   | 1/3V6.5-1610  | 5.0  | B1    | 0   | .31    |
| 6.9      | 112185   | 1/3V6.9-1610  | 5.6  | B1    | 0   | .31    |
| 8.0      | 112008   | 1/3V8.0-2517  | 8.5  | B1    | 0   | 1.06   |
| 10.6     | 112009   | 1/3V10.6-2517 | 14.0 | B1    | 0   | 1.06   |
| 14.0     | 112010   | 1/3V14.0-2517 | 20.0 | C3    | 0   | .94    |
| 19.0     | 112011   | 1/3V19.0-3020 | 20.0 | C3    | 0   | .91    |

\*\* 2.65-3.15=0.94, 3.35-5.6=1.06, 6.0-10.6=0.69, 14.0=0.81, 19.0=1.09

| 3-Groove |          |               |      |       |     | F = 1.50 |
|----------|----------|---------------|------|-------|-----|----------|
| O.D.Δ    | Part No. | Description   | Wt.  | Type‡ | E   | M        |
| 2.65     | 112130   | 3/3V2.65-1108 | 1.0  | A1    | .06 | .56      |
| 2.8      | 112131   | 3/3V2.8-1108  | 1.1  | A1    | .06 | .56      |
| 3.0      | 112199   | 3/3V3.0-1210  | 1.8  | A1    | .11 | .40      |
| 3.15     | 112200   | 3/3V3.15-1210 | 1.5  | A1    | .11 | .40      |
| 3.35     | 112201   | 3/3V3.35-1610 | 1.8  | A1    | .11 | .40      |
| 3.65     | 112202   | 3/3V3.65-1610 | 2.0  | A1    | .11 | .40      |
| 4.12     | 112203   | 3/3V4.12-1610 | 2.6  | A1    | 0   | .50      |
| 4.5      | 112204   | 3/3V4.5-1610  | 3.2  | A1    | 0   | .50      |
| 4.75     | 112205   | 3/3V4.75-1610 | 3.7  | A1    | 0   | .50      |
| 5.0      | 112206   | 3/3V5.0-1610  | 4.2  | A1    | 0   | .50      |
| 5.3      | 112207   | 3/3V5.3-1610  | 4.8  | A1    | 0   | .50      |
| 5.6      | 112208   | 3/3V5.6-1610  | 5.5  | A1    | 0   | .50      |
| 6.0      | 112038   | 3/3V6.0-2517  | 7.4  | B1    | 0   | .25      |
| 6.5      | 112144   | 3/3V6.5-2517  | 9.1  | B1    | 0   | .25      |
| 6.9      | 112145   | 3/3V6.9-2517  | 10.0 | B1    | 0   | .25      |
| 8.0      | 112039   | 3/3V8.0-2517  | 15.0 | B1    | 0   | .25      |
| 10.6     | 112040   | 3/3V10.6-2517 | 18.0 | C2    | 0   | .25      |
| 14.0     | 112041   | 3/3V14.0-2517 | 25.0 | C3    | 0   | .25      |
| 19.0     | 112042   | 3/3V19.0-3020 | 34.0 | C3    | 0   | .50      |
| 25.0     | 112043   | 3/3V25.0-3020 | 36.0 | C3    | 0   | .50      |
| 33.5     | 112044   | 3/3V33.5-3020 | 53.0 | C3    | .25 | .25      |

| 2-Groove |          |               |      |       |      | F = 1.09 |
|----------|----------|---------------|------|-------|------|----------|
| O.D.Δ    | Part No. | Description   | Wt.  | Type‡ | E    | M        |
| 2.65     | 112128   | 2/3V2.65-1108 | 0.75 | A1    | .06  | .13      |
| 2.8      | 112129   | 2/3V2.8-1108  | 0.90 | A1    | .06  | .13      |
| 3.0      | 112186   | 2/3V3.0-1210  | 1.4  | A1    | .11  | .05      |
| 3.15     | 112187   | 2/3V3.15-1210 | 1.0  | A1    | .11  | .05      |
| 3.35     | 112188   | 2/3V3.35-1610 | 1.5  | A1    | .11  | .05      |
| 3.65     | 112189   | 2/3V3.65-1610 | 1.6  | A1    | .11  | .05      |
| 4.12     | 112190   | 2/3V4.12-1610 | 2.1  | A1    | .11  | .05      |
| 4.5      | 112191   | 2/3V4.5-1610  | 2.7  | A1    | .11  | .05      |
| 4.75     | 112192   | 2/3V4.75-1610 | 3.1  | A1    | .11  | .05      |
| 5.0      | 112193   | 2/3V5.0-1610  | 3.6  | A1    | .11  | .05      |
| 5.3      | 112194   | 2/3V5.3-1610  | 4.2  | A1    | 0    | .05      |
| 5.6      | 112195   | 2/3V5.6-1610  | 4.8  | A1    | 0    | .05      |
| 6.0      | 112196   | 2/3V6.0-1610  | 5.8  | A1    | .09  | 0        |
| 6.5      | 112197   | 2/3V6.5-1610  | 7.0  | A1    | .09  | 0        |
| 6.9      | 112198   | 2/3V6.9-1610  | 8.0  | A1    | 0    | .09      |
| 8.0      | 112023   | 2/3V8.0-2517  | 11.0 | B1    | 0    | .66      |
| 10.6     | 112024   | 2/3V10.6-2517 | 15.0 | B1    | 0    | .66      |
| 14.0     | 112025   | 2/3V14.0-2517 | 22.0 | C3    | 0    | .66      |
| 19.0     | 112026   | 2/3V19.0-3020 | 22.0 | C3    | 0    | .91      |
| 25.0     | 112027   | 2/3V25.0-3020 | 30.0 | C3    | .125 | .78      |

| 4-Groove |          |               |      |       |     | F = 1.90 |
|----------|----------|---------------|------|-------|-----|----------|
| O.D.Δ    | Part No. | Description   | Wt.  | Type‡ | E   | M        |
| 2.65     | 112132   | 4/3V2.65-1108 | 1.2  | A1    | .06 | .97      |
| 2.8      | 112133   | 4/3V2.8-1108  | 1.3  | A1    | .06 | .97      |
| 3.0      | 112209   | 4/3V3.0-1210  | 2.1  | A1    | .11 | .80      |
| 3.15     | 112210   | 4/3V3.15-1210 | 1.9  | A1    | .11 | .80      |
| 3.35     | 112211   | 4/3V3.35-1610 | 2.2  | A1    | .11 | .80      |
| 3.65     | 112212   | 4/3V3.65-1610 | 2.0  | A1    | .11 | .80      |
| 4.12     | 112213   | 4/3V4.12-1610 | 3.0  | A1    | 0   | .91      |
| 4.5      | 112214   | 4/3V4.5-1610  | 3.7  | A1    | 0   | .91      |
| 4.75     | 112215   | 4/3V4.75-1610 | 4.2  | A1    | 0   | .91      |
| 5.0      | 112216   | 4/3V5.0-1610  | 4.8  | A1    | 0   | .91      |
| 5.3      | 112217   | 4/3V5.3-1610  | 5.5  | A1    | 0   | .91      |
| 5.6      | 112218   | 4/3V5.6-1610  | 6.2  | A1    | 0   | .91      |
| 6.0      | 112053   | 4/3V6.0-2517  | 8.0  | A1    | 0   | .16      |
| 6.5      | 112150   | 4/3V6.5-2517  | 10.0 | A1    | 0   | .16      |
| 6.9      | 112151   | 4/3V6.9-2517  | 12.0 | A1    | 0   | .16      |
| 8.0      | 112054   | 4/3V8.0-2517  | 18.0 | A1    | 0   | .16      |
| 10.6     | 112055   | 4/3V10.6-2517 | 20.0 | A2    | 0   | .16      |
| 14.0     | 112056   | 4/3V14.0-2517 | 29.0 | A3    | 0   | .16      |
| 19.0     | 112275   | 4/3V19.0-3020 | 45.0 | C3    | 0   | .09      |
| 25.0     | 112276   | 4/3V25.0-3020 | 42.0 | D3    | .19 | .09      |
| 33.5     | 112059   | 4/3V33.5-3030 | 73.0 | C3    | .55 | .55      |

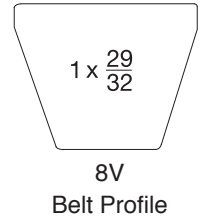
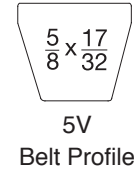
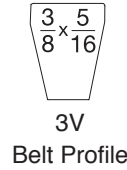
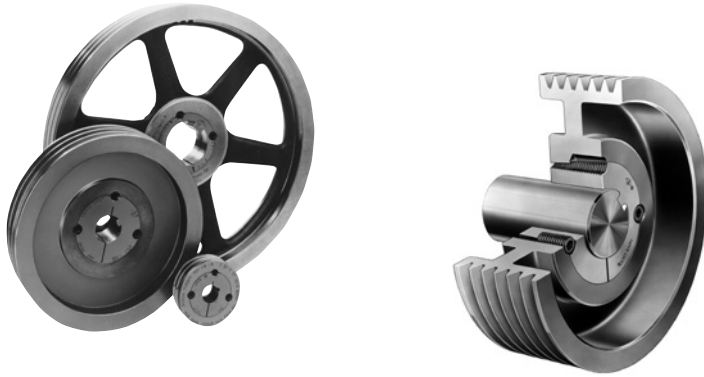
Δ Pitch diameter = O.D. - .05"

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-2.

# SELECTION/DIMENSIONS



## 3V TAPER-LOCK SHEAVES



| 5-Groove |          |               |      |       |     |     | F = 2.31 |  |
|----------|----------|---------------|------|-------|-----|-----|----------|--|
| O.D.Δ    | Part No. | Description   | Wt.  | Type‡ | E   | M   |          |  |
| 4.5      | 112102   | 5/3V4.5-1615  | 4.0  | A1    | 0   | .81 |          |  |
| 4.75     | 112103   | 5/3V4.75-2517 | 3.9  | A1    | .56 | 0   |          |  |
| 5.0      | 112061   | 5/3V5.0-2517  | 5.4  | A1    | .56 | 0   |          |  |
| 5.30     | 112062   | 5/3V5.3-2517  | 6.7  | A1    | .56 | 0   |          |  |
| 5.6      | 112063   | 5/3V5.6-2517  | 7.6  | A1    | .56 | 0   |          |  |
| 6.0      | 112064   | 5/3V6.0-2517  | 11.0 | A1    | .56 | 0   |          |  |
| 6.5      | 112152   | 5/3V6.5-2517  | 11.0 | A1    | 0   | .56 |          |  |
| 6.9      | 112153   | 5/3V6.9-2517  | 14.0 | A1    | 0   | .56 |          |  |
| 8.0      | 112065   | 5/3V8.0-2517  | 20.0 | A1    | 0   | .56 |          |  |
| 10.6     | 112066   | 5/3V10.6-2517 | 27.0 | A1    | 0   | .56 |          |  |
| 14.0     | 112067   | 5/3V14.0-2517 | 29.0 | A3    | 0   | .56 |          |  |
| 19.0     | 112277   | 5/3V19.0-3020 | 51.0 | A3    | 0   | .31 |          |  |
| 25.0     | 112069   | 5/3V25.0-3030 | 58.0 | C3    | 0   | .69 |          |  |
| 33.5     | 112070   | 5/3V33.5-3030 | 82.0 | C3    | .34 | .34 |          |  |

| 6-Groove |          |               |      |       |     |     | F = 2.71 |  |
|----------|----------|---------------|------|-------|-----|-----|----------|--|
| O.D.Δ    | Part No. | Description   | Wt.  | Type‡ | E   | M   |          |  |
| 4.75     | 112071   | 6/3V4.75-2517 | 4.4  | A1    | .97 | 0   |          |  |
| 5.0      | 112072   | 6/3V5.0-2517  | 5.4  | A1    | .97 | 0   |          |  |
| 5.3      | 112073   | 6/3V5.3-2517  | 6.5  | A1    | .97 | 0   |          |  |
| 5.6      | 112074   | 6/3V5.6-2517  | 7.7  | A1    | .97 | 0   |          |  |
| 6.0      | 112075   | 6/3V6.0-2517  | 9.5  | A1    | 0   | .97 |          |  |
| 6.5      | 112154   | 6/3V6.5-2517  | 12.0 | A1    | 0   | .97 |          |  |
| 6.9      | 112155   | 6/3V6.9-2517  | 13.0 | A1    | 0   | .97 |          |  |
| 8.0      | 112076   | 6/3V8.0-2517  | 20.0 | A1    | 0   | .97 |          |  |
| 10.6     | 112077   | 6/3V10.6-2517 | 29.0 | A2    | 0   | .97 |          |  |
| 14.0     | 112078   | 6/3V14.0-2517 | 41.0 | A3    | .22 | .75 |          |  |
| 19.0     | 112278   | 6/3V19.0-3020 | 51.0 | A3    | 0   | .72 |          |  |
| 25.0     | 112080   | 6/3V25.0-3030 | 72.0 | C3    | 0   | .28 |          |  |
| 33.5     | 112081   | 6/3V33.5-3030 | 92.0 | C3    | .14 | .14 |          |  |

| 8-Groove |          |               |       |       |      |      | F = 3.53 |  |
|----------|----------|---------------|-------|-------|------|------|----------|--|
| O.D.Δ    | Part No. | Description   | Wt.   | Type‡ | E    | M    |          |  |
| 4.75     | 112082   | 8/3V4.75-2517 | 5.8   | A1    | 1.78 | 0    |          |  |
| 5.0      | 112083   | 8/3V5.0-2517  | 6.4   | A1    | 1.78 | 0    |          |  |
| 5.3      | 112084   | 8/3V5.3-2517  | 7.8   | A1    | 1.03 | .75  |          |  |
| 5.6      | 112085   | 8/3V5.6-2517  | 9.2   | A1    | .25  | 1.53 |          |  |
| 6.0      | 112086   | 8/3V6.0-2517  | 11.0  | A1    | .25  | 1.53 |          |  |
| 6.5      | 112156   | 8/3V6.5-2517  | 14.0  | A1    | .25  | 1.53 |          |  |
| 6.9      | 112157   | 8/3V6.9-2517  | 16.0  | A1    | .25  | 1.53 |          |  |
| 8.0      | 112087   | 8/3V8.0-3020  | 22.0  | A1    | .50  | 1.03 |          |  |
| 10.6     | 112088   | 8/3V10.6-3020 | 28.0  | A2    | .50  | 1.03 |          |  |
| 14.0     | 112279   | 8/3V14.0-3020 | 52.0  | A3    | .65  | .87  |          |  |
| 19.0     | 112090   | 8/3V19.0-3535 | 67.0  | A3    | 0    | .03  |          |  |
| 25.0     | 112091   | 8/3V25.0-3535 | 75.0  | A3    | 0    | .03  |          |  |
| 33.5     | 112092   | 8/3V33.5-4040 | 111.0 | C3    | .23  | .23  |          |  |

| 10-Groove |          |                |       |       |      |      | F = 4.34 |  |
|-----------|----------|----------------|-------|-------|------|------|----------|--|
| O.D.Δ     | Part No. | Description    | Wt.   | Type‡ | E    | M    |          |  |
| 4.75      | 112093   | 10/3V4.75-2517 | 7.1   | A1    | 2.59 | 0    |          |  |
| 5.0       | 112094   | 10/3V5.0-2517  | 8.2   | A1    | 2.59 | 0    |          |  |
| 5.3       | 112158   | 10/3V5.3-2517  | 9.3   | A1    | 1.84 | .75  |          |  |
| 5.6       | 112159   | 10/3V5.6-2517  | 10.0  | A1    | .50  | 2.09 |          |  |
| 6.0       | 112095   | 10/3V6.0-2517  | 13.0  | A1    | .50  | 2.09 |          |  |
| 6.5       | 112160   | 10/3V6.5-2517  | 15.0  | A1    | .50  | 2.09 |          |  |
| 6.9       | 112161   | 10/3V6.9-2517  | 18.0  | A1    | .81  | 1.78 |          |  |
| 8.0       | 112096   | 10/3V8.0-3020  | 25.0  | A1    | .25  | 2.09 |          |  |
| 10.6      | 112097   | 10/3V10.6-3020 | 39.0  | A1    | .84  | 1.50 |          |  |
| 14.0      | 112098   | 10/3V14.0-3535 | 57.0  | A3    | 0    | .84  |          |  |
| 19.0      | 112099   | 10/3V19.0-3535 | 81.0  | A3    | 0    | .84  |          |  |
| 25.0      | 112100   | 10/3V25.0-4040 | 88.0  | A3    | 0    | .34  |          |  |
| 33.5      | 112101   | 10/3V33.5-4040 | 128.0 | A3    | .17  | .17  |          |  |

Δ Pitch diameter = O.D. - .05"

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-2.

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets



# SELECTION/DIMENSIONS

## 5V TAPER-LOCK SHEAVES

| 2-Groove |               |               |      |       |     |      | F = 1.68 |
|----------|---------------|---------------|------|-------|-----|------|----------|
| O.D.Δ    | Part No.      | Description   | Wt.  | Type‡ | E   | M    |          |
| 4.4++    | <b>111200</b> | 2/5V4.4-1610  | 3.0  | A1    | .06 | .62  |          |
| 4.65++   | <b>111201</b> | 2/5V4.65-1610 | 3.0  | A1    | .06 | .62  |          |
| 4.9++    | <b>111202</b> | 2/5V4.9-1610  | 4.0  | A1    | .06 | .62  |          |
| 5.2++    | <b>111203</b> | 2/5V5.2-1610  | 4.0  | A1    | .06 | .62  |          |
| 5.5++    | <b>111255</b> | 2/5V5.5-1610  | 5.0  | A1    | .06 | .62  |          |
| 5.9++    | <b>111204</b> | 2/5V5.9-1610  | 6.0  | A1    | .06 | .62  |          |
| 6.3++    | <b>111205</b> | 2/5V6.3-1610  | 7.0  | A1    | 0   | .68  |          |
| 6.7++    | <b>111206</b> | 2/5V6.7-1610  | 9.0  | A1    | 0   | .68  |          |
| 7.1      | <b>111132</b> | 2/5V7.1-2517  | 10.0 | B1    | 0   | .06  |          |
| 7.5      | <b>111133</b> | 2/5V7.5-2517  | 12.0 | B1    | 0   | .06  |          |
| 8.0      | <b>111134</b> | 2/5V8.0-2517  | 14.0 | B1    | 0   | .06  |          |
| 8.5      | <b>111135</b> | 2/5V8.5-2517  | 13.0 | C2    | 0   | .06  |          |
| 9.0      | <b>111136</b> | 2/5V9.0-2517  | 16.0 | C2    | 0   | .06  |          |
| 9.25     | <b>111137</b> | 2/5V9.25-3020 | 17.0 | B1    | 0   | .31  |          |
| 9.75     | <b>111138</b> | 2/5V9.75-3020 | 19.0 | B1    | 0   | .31  |          |
| 10.3     | <b>111139</b> | 2/5V10.3-3020 | 22.0 | C2    | 0   | .31  |          |
| 10.9     | <b>111140</b> | 2/5V10.9-3020 | 24.0 | C2    | 0   | .31  |          |
| 11.3     | <b>111207</b> | 2/5V11.3-3020 | 25.0 | C2    | 0   | .31  |          |
| 11.8     | <b>111141</b> | 2/5V11.8-3020 | 26.0 | C2    | 0   | .31  |          |
| 12.5     | <b>111142</b> | 2/5V12.5-3020 | 28.0 | C2    | 0   | .31  |          |
| 13.2     | <b>111143</b> | 2/5V13.2-3020 | 21.0 | C3    | 0   | .31  |          |
| 14.0     | <b>111144</b> | 2/5V14.0-3020 | 23.0 | C3    | 0   | .31  |          |
| 15.0     | <b>111145</b> | 2/5V15.0-3020 | 26.0 | C3    | 0   | .31  |          |
| 16.0     | <b>111146</b> | 2/5V16.0-3020 | 28.0 | C3    | 0   | .31  |          |
| 18.7     | <b>111208</b> | 2/5V18.7-3020 | 40.0 | C3    | 0   | .31  |          |
| 21.2     | <b>111147</b> | 2/5V21.2-3535 | 45.0 | C3    | .37 | 1.44 |          |
| 23.6     | <b>111209</b> | 2/5V23.6-3535 | 56.0 | C3    | .25 | 1.56 |          |
| 28.0     | <b>111148</b> | 2/5V28.0-3535 | 68.0 | C3    | .37 | 1.43 |          |

| 3-Groove |               |               |       |       |      |      | F = 2.37 |
|----------|---------------|---------------|-------|-------|------|------|----------|
| O.D.Δ    | Part No.      | Description   | Wt.   | Type‡ | E    | M    |          |
| 4.4++    | <b>111210</b> | 3/5V4.4-1610  | 4.0   | A1    | 1.38 | 0    |          |
| 4.65++   | <b>111211</b> | 3/5V4.65-1610 | 5.0   | A1    | .06  | 1.31 |          |
| 4.9++    | <b>111212</b> | 3/5V4.9-1610  | 5.0   | A1    | .06  | 1.31 |          |
| 5.2++    | <b>111213</b> | 3/5V5.2-1610  | 6.0   | A1    | .06  | 1.31 |          |
| 5.5++    | <b>111256</b> | 3/5V5.5-1610  | 6.0   | A1    | .06  | 1.31 |          |
| 5.9++    | <b>111214</b> | 3/5V5.9-2517  | 7.0   | A1    | 0    | .62  |          |
| 6.3++    | <b>111215</b> | 3/5V6.3-2517  | 9.0   | A1    | 0    | .62  |          |
| 6.7++    | <b>111216</b> | 3/5V6.7-2517  | 10.0  | A1    | 0    | .62  |          |
| 7.1      | <b>111001</b> | 3/5V7.1-2517  | 13.0  | A1    | 0    | .62  |          |
| 7.5      | <b>111002</b> | 3/5V7.5-2517  | 15.0  | A1    | 0    | .62  |          |
| 8.0      | <b>111003</b> | 3/5V8.0-2517  | 18.0  | A1    | 0    | .62  |          |
| 8.5      | <b>111004</b> | 3/5V8.5-2517  | 20.0  | A1    | 0    | .62  |          |
| 9.0      | <b>111005</b> | 3/5V9.0-2517  | 20.0  | A1    | 0    | .62  |          |
| 9.25     | <b>111099</b> | 3/5V9.25-3020 | 21.0  | A1    | 0    | .37  |          |
| 9.75     | <b>111100</b> | 3/5V9.75-3020 | 24.0  | A2    | 0    | .37  |          |
| 10.3     | <b>111101</b> | 3/5V10.3-3020 | 25.0  | A2    | 0    | .37  |          |
| 10.9     | <b>111102</b> | 3/5V10.9-3020 | 27.0  | A2    | 0    | .37  |          |
| 11.3     | <b>111217</b> | 3/5V11.3-3020 | 28.0  | A2    | 0    | .37  |          |
| 11.8     | <b>111006</b> | 3/5V11.8-3020 | 29.0  | A2    | 0    | .37  |          |
| 12.5     | <b>111103</b> | 3/5V12.5-3020 | 32.0  | A2    | 0    | .37  |          |
| 13.2     | <b>111007</b> | 3/5V13.2-3020 | 34.0  | A3    | 0    | .37  |          |
| 14.0     | <b>111008</b> | 3/5V14.0-3020 | 36.0  | A3    | 0    | .37  |          |
| 15.0     | <b>111009</b> | 3/5V15.0-3020 | 36.0  | A3    | 0    | .37  |          |
| 16.0     | <b>111010</b> | 3/5V16.0-3020 | 38.0  | A3    | 0    | .37  |          |
| 18.7     | <b>111218</b> | 3/5V18.7-3020 | 52.0  | A3    | 0    | .37  |          |
| 21.2     | <b>111011</b> | 3/5V21.2-3535 | 60.0  | C3    | 0    | 1.12 |          |
| 23.6     | <b>111219</b> | 3/5V23.6-3535 | 68.0  | C3    | 0    | 1.12 |          |
| 28.0     | <b>111012</b> | 3/5V28.0-3535 | 83.0  | C3    | 0    | 1.12 |          |
| 31.5     | <b>111220</b> | 3/5V31.5-3535 | 96.0  | C3    | .34  | .78  |          |
| 37.5     | <b>111013</b> | 3/5V37.5-4040 | 124.0 | C3    | .50  | 1.12 |          |
| 50.0     | <b>111014</b> | 3/5V50.0-4040 | 186.0 | C3    | .50  | 1.12 |          |

Δ Pitch diameter = O.D. - .10"

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See drawings page PT7-2.

++ 5VX Belts only on these sizes.

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets

# SELECTION/DIMENSIONS



## 5V TAPER-LOCK SHEAVES

| 4-Groove |          |               |       |       |      | F = 3.06 |  |
|----------|----------|---------------|-------|-------|------|----------|--|
| O.D.Δ    | Part No. | Description   | Wt.   | Type‡ | E    | M        |  |
| 4.4++    | 111221   | 4/5V4.4-1610  | 6.0   | A1    | 2.06 | 0        |  |
| 4.65++   | 111222   | 4/5V4.65-1610 | 6.0   | A1    | 2.06 | 0        |  |
| 4.9++    | 111223   | 4/5V4.9-1610  | 6.0   | A1    | 2.06 | 0        |  |
| 5.2++    | 111224   | 4/5V5.2-1610  | 7.0   | A1    | 2.06 | 0        |  |
| 5.5++    | 111225   | 4/5V5.5-2517  | 8.0   | A1    | 1.31 | 0        |  |
| 5.9++    | 111226   | 4/5V5.9-2517  | 10.0  | A1    | 1.31 | 0        |  |
| 6.3++    | 111227   | 4/5V6.3-2517  | 11.0  | A1    | 0    | 1.31     |  |
| 6.7++    | 111228   | 4/5V6.7-2517  | 12.0  | A1    | 0    | 1.31     |  |
| 7.1      | 111020   | 4/5V7.1-2517  | 15.0  | A1    | 0    | 1.31     |  |
| 7.5      | 111021   | 4/5V7.5-2517  | 18.0  | A1    | 0    | 1.31     |  |
| 8.0      | 111022   | 4/5V8.0-2517  | 21.0  | A1    | 0    | 1.31     |  |
| 8.5      | 111023   | 4/5V8.5-2517  | 20.0  | A1    | 0    | 1.31     |  |
| 9.0      | 111035   | 4/5V9.0-2517  | 22.0  | A1    | 0    | 1.31     |  |
| 9.25     | 111104   | 4/5V9.25-3020 | 27.0  | A1    | 0    | 1.06     |  |
| 9.75     | 111105   | 4/5V9.75-3020 | 31.0  | A1    | 0    | 1.06     |  |
| 10.3     | 111106   | 4/5V10.3-3020 | 28.0  | A1    | 0    | 1.06     |  |
| 10.9     | 111107   | 4/5V10.9-3020 | 31.0  | A1    | 0    | 1.06     |  |
| 11.3     | 111229   | 4/5V11.3-3020 | 32.0  | A1    | 0    | 1.06     |  |
| 11.8     | 111025   | 4/5V11.8-3020 | 34.0  | A2    | 0    | 1.06     |  |
| 12.5     | 112280   | 4/5V12.5-3020 | 40.0  | A2    | 0    | 1.06     |  |
| 13.2     | 112281   | 4/5V13.2-3020 | 42.0  | A3    | 0    | 1.06     |  |
| 14.0     | 111028   | 4/5V14.0-3535 | 48.0  | C2    | .43  | 0        |  |
| 15.0     | 111029   | 4/5V15.0-3535 | 52.0  | C3    | .43  | 0        |  |
| 16.0     | 111030   | 4/5V16.0-3535 | 53.0  | C3    | .43  | 0        |  |
| 18.7     | 111230   | 4/5V18.7-3535 | 63.0  | C3    | .43  | 0        |  |
| 21.2     | 111031   | 4/5V21.2-3535 | 70.0  | C3    | 0    | .43      |  |
| 23.6     | 111231   | 4/5V23.6-3535 | 79.0  | C3    | 0    | .43      |  |
| 28.0     | 111032   | 4/5V28.0-3535 | 98.0  | C3    | 0    | .43      |  |
| 31.5     | 111232   | 4/5V31.5-3535 | 114.0 | C3    | 0    | .43      |  |
| 37.5     | 111033   | 4/5V37.5-4040 | 148.0 | C3    | 0    | .93      |  |
| 50.0     | 111034   | 4/5V50.0-4040 | 243.0 | C3    | 0    | .93      |  |

| 5-Groove |          |               |       |       |     | F = 3.75 |  |
|----------|----------|---------------|-------|-------|-----|----------|--|
| O.D.Δ    | Part No. | Description   | Wt.   | Type‡ | E   | M        |  |
| 5.9++    | 111233   | 5/5V5.9-2517  | 11.0  | A1    | .56 | 1.43     |  |
| 6.3++    | 111234   | 5/5V6.3-2517  | 12.0  | A1    | .56 | 1.43     |  |
| 6.7++    | 111235   | 5/5V6.7-2517  | 13.0  | A1    | .56 | 1.43     |  |
| 7.1      | 111038   | 5/5V7.1-3020  | 16.0  | A1    | .50 | 1.25     |  |
| 7.5      | 111039   | 5/5V7.5-3020  | 19.0  | A1    | .50 | 1.25     |  |
| 8.0      | 111040   | 5/5V8.0-3020  | 22.0  | A1    | .50 | 1.25     |  |
| 8.5      | 111041   | 5/5V8.5-3020  | 26.0  | A1    | .50 | 1.25     |  |
| 9.0      | 111042   | 5/5V9.0-3020  | 30.0  | A1    | .50 | 1.25     |  |
| 9.25     | 111108   | 5/5V9.25-3020 | 31.0  | A1    | .50 | 1.25     |  |
| 9.75     | 111109   | 5/5V9.75-3020 | 36.0  | A1    | .50 | 1.25     |  |
| 10.3     | 111110   | 5/5V10.3-3020 | 33.0  | A1    | .50 | 1.25     |  |
| 10.9     | 111111   | 5/5V10.9-3020 | 36.0  | A1    | .50 | 1.25     |  |
| 11.3     | 111236   | 5/5V11.3-3020 | 38.0  | A1    | .50 | 1.25     |  |
| 11.8     | 111043   | 5/5V11.8-3020 | 40.0  | A2    | .50 | 1.25     |  |
| 12.5     | 111044   | 5/5V12.5-3535 | 54.0  | A2    | 0   | .25      |  |
| 13.2     | 111045   | 5/5V13.2-3535 | 57.0  | A2    | 0   | .25      |  |
| 14.0     | 111046   | 5/5V14.0-3535 | 57.0  | A3    | 0   | .25      |  |
| 15.0     | 111047   | 5/5V15.0-3535 | 65.0  | A3    | 0   | .25      |  |
| 16.0     | 111048   | 5/5V16.0-3535 | 70.0  | A3    | 0   | .25      |  |
| 18.7     | 111237   | 5/5V18.7-3535 | 84.0  | A3    | 0   | .25      |  |
| 21.2     | 111049   | 5/5V21.2-4040 | 81.0  | C3    | 0   | .25      |  |
| 23.6     | 111238   | 5/5V23.6-4040 | 92.0  | C3    | 0   | .25      |  |
| 28.0     | 111050   | 5/5V28.0-4040 | 115.0 | C3    | 0   | .25      |  |
| 31.5     | 111239   | 5/5V31.5-4040 | 155.0 | C3    | 0   | .25      |  |
| 37.5     | 111051   | 5/5V37.5-4040 | 190.0 | C3    | 0   | .25      |  |
| 50.0     | 111052   | 5/5V50.0-4545 | 280.0 | C3    | 0   | .75      |  |

Δ Pitch diameter = O.D. - .10"

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See drawings page PT7-2.

++ 5VX Belts only on these sizes.

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

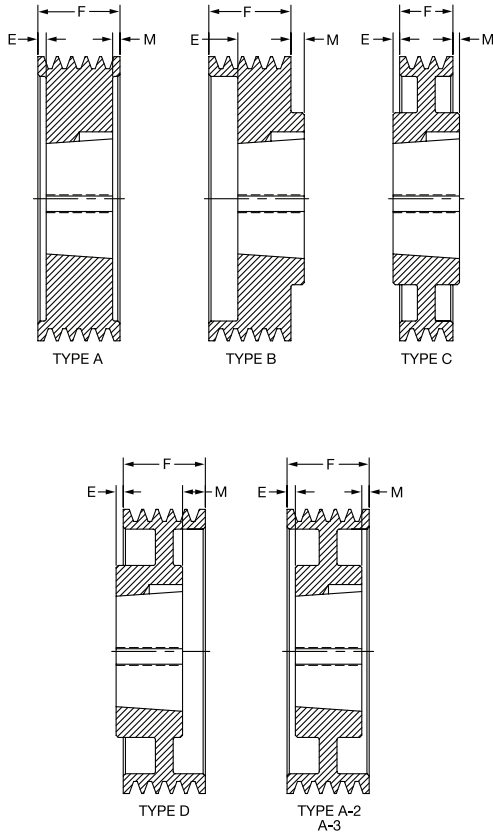
Roller Chain Sprockets





## SELECTION/DIMENSIONS

### 5V TAPER-LOCK SHEAVES



| 6-Groove |               |               |       | F = 4.43 |      |      |
|----------|---------------|---------------|-------|----------|------|------|
| O.D.Δ    | Part No.      | Description   | Wt.   | Type‡    | E    | M    |
| 5.9++    | <b>111240</b> | 6/5V5.9-2517  | 13.0  | A1       | 1.12 | 1.56 |
| 6.3++    | <b>111241</b> | 6/5V6.3-2517  | 13.0  | A1       | .81  | 1.87 |
| 6.7++    | <b>111242</b> | 6/5V6.7-2517  | 15.0  | A1       | .81  | 1.87 |
| 7.1      | <b>111056</b> | 6/5V7.1-3020  | 18.0  | A1       | .75  | 1.68 |
| 7.5      | <b>111057</b> | 6/5V7.5-3020  | 21.0  | A1       | .75  | 1.68 |
| 8.0      | <b>111058</b> | 6/5V8.0-3020  | 24.0  | A1       | .75  | 1.68 |
| 8.5      | <b>111059</b> | 6/5V8.5-3020  | 28.0  | A1       | .75  | 1.68 |
| 9.0      | <b>111060</b> | 6/5V9.0-3020  | 32.0  | A1       | .75  | 1.68 |
| 9.25     | <b>111112</b> | 6/5V9.25-3535 | 41.0  | A1       | 0    | .93  |
| 9.75     | <b>111113</b> | 6/5V9.75-3535 | 48.0  | A1       | 0    | .93  |
| 10.3     | <b>111114</b> | 6/5V10.3-3535 | 56.0  | A1       | 0    | .93  |
| 10.9     | <b>111115</b> | 6/5V10.9-3535 | 65.0  | A1       | 0    | .93  |
| 11.3     | <b>111243</b> | 6/5V11.3-3535 | 53.0  | A1       | 0    | .93  |
| 11.8     | <b>111061</b> | 6/5V11.8-3535 | 59.0  | A2       | 0    | .93  |
| 12.5     | <b>111062</b> | 6/5V12.5-3535 | 59.0  | A2       | 0    | .93  |
| 13.2     | <b>111063</b> | 6/5V13.2-3535 | 67.0  | A2       | 0    | .93  |
| 14.0     | <b>111064</b> | 6/5V14.0-3535 | 67.0  | A2       | 0    | .93  |
| 15.0     | <b>111065</b> | 6/5V15.0-4040 | 82.0  | A2       | 0    | .43  |
| 16.0     | <b>111066</b> | 6/5V16.0-4040 | 84.0  | A2       | 0    | .43  |
| 18.7     | <b>111244</b> | 6/5V18.7-4040 | 97.0  | A2       | 0    | .43  |
| 21.2     | <b>111067</b> | 6/5V21.2-4040 | 91.0  | A3       | 0    | .43  |
| 23.6     | <b>111245</b> | 6/5V23.6-4040 | 124.0 | A3       | 0    | .43  |
| 28.0     | <b>111068</b> | 6/5V28.0-4040 | 149.0 | A3       | 0    | .43  |
| 31.5     | <b>111246</b> | 6/5V31.5-4040 | 171.0 | A3       | 0    | .43  |
| 37.5     | <b>111069</b> | 6/5V37.5-4545 | 214.0 | C3       | 0    | .06  |
| 50.0     | <b>111070</b> | 6/5V50.0-4545 | 336.0 | D3       | .50  | .56  |

| 8-Groove |               |               |       | F = 5.81 |      |      |
|----------|---------------|---------------|-------|----------|------|------|
| O.D.Δ    | Part No.      | Description   | Wt.   | Type‡    | E    | M    |
| 7.1      | <b>111075</b> | 8/5V7.1-3030  | 24.0  | A1       | 1.00 | 1.81 |
| 7.5      | <b>111076</b> | 8/5V7.5-3030  | 28.0  | A1       | 1.00 | 1.81 |
| 8.0      | <b>111077</b> | 8/5V8.0-3030  | 33.0  | A1       | 1.00 | 1.81 |
| 8.5      | <b>111078</b> | 8/5V8.5-3030  | 38.0  | A1       | 1.00 | 1.81 |
| 9.0      | <b>111079</b> | 8/5V9.0-3535  | 44.0  | A1       | 1.00 | 1.31 |
| 9.25     | <b>111116</b> | 8/5V9.25-3535 | 45.0  | A1       | 1.00 | 1.31 |
| 9.75     | <b>111117</b> | 8/5V9.75-3535 | 51.0  | A1       | 1.00 | 1.31 |
| 10.3     | <b>111118</b> | 8/5V10.3-3535 | 60.0  | A1       | 1.00 | 1.31 |
| 10.9     | <b>111119</b> | 8/5V10.9-3535 | 68.0  | A1       | 1.00 | 1.31 |
| 11.3     | <b>111247</b> | 8/5V11.3-3535 | 57.0  | A1       | 1.00 | 1.31 |
| 11.8     | <b>111080</b> | 8/5V11.8-3535 | 63.0  | A1       | 1.00 | 1.31 |
| 12.5     | <b>111081</b> | 8/5V12.5-4040 | 102.0 | A1       | .25  | 1.56 |
| 13.2     | <b>111082</b> | 8/5V13.2-4040 | 82.0  | A1       | .25  | 1.56 |
| 14.0     | <b>111083</b> | 8/5V14.0-4040 | 87.0  | A1       | .25  | 1.56 |
| 15.0     | <b>111084</b> | 8/5V15.0-4040 | 97.0  | A2       | .25  | 1.56 |
| 16.0     | <b>111085</b> | 8/5V16.0-4040 | 102.0 | A2       | .25  | 1.56 |
| 18.7     | <b>111248</b> | 8/5V18.7-4040 | 112.0 | A3       | .25  | 1.56 |
| 21.2     | <b>111086</b> | 8/5V21.2-4040 | 129.0 | A3       | .25  | 1.56 |
| 23.6     | <b>111249</b> | 8/5V23.6-4040 | 145.0 | A3       | .25  | 1.56 |
| 28.0     | <b>111087</b> | 8/5V28.0-4545 | 178.0 | A3       | .25  | 1.06 |
| 31.5     | <b>111250</b> | 8/5V31.5-4545 | 228.0 | A3       | .25  | 1.06 |
| 37.5     | <b>111088</b> | 8/5V37.5-4545 | 279.0 | A3       | .25  | 1.06 |
| 50.0     | <b>111089</b> | 8/5V50.0-4545 | 403.0 | A3       | .25  | 1.06 |

| 10-Groove |               |                |       | F = 7.18 |      |      |
|-----------|---------------|----------------|-------|----------|------|------|
| O.D.Δ     | Part No.      | Description    | Wt.   | Type‡    | E    | M    |
| 8.0       | <b>111120</b> | 10/5V8.0-3030  | 36.0  | A1       | 1.00 | 3.18 |
| 8.5       | <b>111121</b> | 10/5V8.5-3030  | 42.0  | A1       | 1.00 | 3.18 |
| 9.0       | <b>111122</b> | 10/5V9.0-3535  | 47.0  | A1       | 1.00 | 2.68 |
| 9.25      | <b>111123</b> | 10/5V9.25-4040 | 46.0  | A1       | 1.00 | 2.18 |
| 9.75      | <b>111124</b> | 10/5V9.75-4040 | 54.0  | A1       | 1.00 | 2.18 |
| 10.3      | <b>111125</b> | 10/5V10.3-4040 | 64.0  | A1       | 1.00 | 2.18 |
| 10.9      | <b>111126</b> | 10/5V10.9-4040 | 73.0  | A1       | 1.00 | 2.18 |
| 11.3      | <b>111251</b> | 10/5V11.3-4040 | 80.0  | A1       | 1.00 | 2.18 |
| 11.8      | <b>111127</b> | 10/5V11.8-4040 | 92.0  | A1       | 1.00 | 2.18 |
| 12.5      | <b>111090</b> | 10/5V12.5-4040 | 107.0 | A1       | .38  | 2.81 |
| 13.2      | <b>111091</b> | 10/5V13.2-4040 | 107.0 | A1       | .38  | 2.81 |
| 14.0      | <b>111092</b> | 10/5V14.0-4545 | 106.0 | A1       | .75  | 1.93 |
| 15.0      | <b>111093</b> | 10/5V15.0-4545 | 116.0 | A1       | .69  | 2.00 |
| 16.0      | <b>111094</b> | 10/5V16.0-4545 | 126.0 | A2       | 0    | 2.68 |
| 18.7      | <b>111252</b> | 10/5V18.7-4545 | 116.0 | A2       | .50  | 2.18 |
| 21.2      | <b>111095</b> | 10/5V21.2-4545 | 149.0 | D3       | .50  | 3.18 |
| 23.6      | <b>111253</b> | 10/5V23.6-4545 | 191.0 | A3       | .50  | 2.18 |
| 28.0      | <b>111096</b> | 10/5V28.0-4545 | 227.0 | A3       | .75  | 1.93 |
| 31.5      | <b>111254</b> | 10/5V31.5-4545 | 259.0 | A3       | .75  | 1.93 |
| 37.5      | <b>111097</b> | 10/5V37.5-4545 | 320.0 | A3       | .75  | 1.93 |
| 50.0      | <b>111098</b> | 10/5V50.0-5050 | 471.0 | A3       | .75  | 1.43 |

Δ Pitch diameter = O.D. - .10"

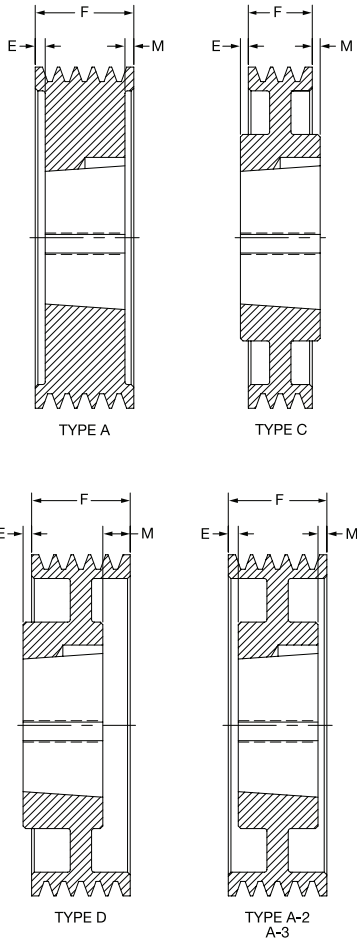
‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-2.

++ 5VX Belts only on these sizes.

# SELECTION/DIMENSIONS



## 8V TAPER-LOCK SHEAVES



| 4-Groove |          |               |       |       | F = 4.87 |      |
|----------|----------|---------------|-------|-------|----------|------|
| O.D.Δ    | Part No. | Description   | Wt.   | Type‡ | E        | M    |
| 12.5     | 110003   | 4/8V12.5-4040 | 83.0  | A1    | 0        | .87  |
| 13.2     | 110008   | 4/8V13.2-4040 | 125.0 | A2    | 0        | .87  |
| 14.0     | 110950   | 4/8V14.0-4040 | 88.0  | A2    | 0        | .87  |
| 15.0     | 110951   | 4/8V15.0-4040 | 111.0 | A2    | .50      | .37  |
| 16.0     | 110952   | 4/8V16.0-4040 | 105.0 | A2    | .44      | .44  |
| 17.0     | 110953   | 4/8V17.0-4040 | 150.0 | A2    | 0        | .87  |
| 18.0     | 110954   | 4/8V18.0-4040 | 150.0 | A2    | 0        | .87  |
| 19.0     | 110955   | 4/8V19.0-4040 | 146.0 | A2    | 0        | .87  |
| 20.0     | 110015   | 4/8V20.0-4545 | 145.0 | A2    | 0        | .37  |
| 21.2     | 110016   | 4/8V21.2-4545 | 138.0 | A2    | 0        | .37  |
| 22.4     | 110004   | 4/8V22.4-4545 | 147.0 | A2    | 0        | .37  |
| 24.8     | 110681   | 4/8V24.8-5050 | 191.0 | D3    | .94      | .81  |
| 30.0     | 110957   | 4/8V30.0-5050 | 233.0 | D3    | 1.12     | 1.00 |
| 35.5     | 110900   | 4/8V35.5-5050 | 278.0 | D3    | 1.12     | 1.00 |
| 40.0     | 110006   | 4/8V40.0-5050 | 324.0 | D3    | 1.12     | 1.00 |
| 44.5     | 110002   | 4/8V44.5-5050 | 367.0 | D3    | .25      | .12  |
| 53.0     | 110007   | 4/8V53.0-5050 | 469.0 | B3    | 1.12     | 1.25 |

| 5-Groove |          |               |       |       | F = 6.00 |      |
|----------|----------|---------------|-------|-------|----------|------|
| O.D.Δ    | Part No. | Description   | Wt.   | Type‡ | E        | M    |
| 12.5     | 110958   | 5/8V12.5-4040 | 96.0  | A2    | .18      | 1.81 |
| 13.2     | 110959   | 5/8V13.2-4040 | 100.0 | A2    | .18      | 1.81 |
| 14.0     | 110960   | 5/8V14.0-4040 | 107.0 | A2    | .18      | 1.81 |
| 15.0     | 110961   | 5/8V15.0-4040 | 106.0 | A2    | .18      | 1.81 |
| 16.0     | 110962   | 5/8V16.0-4040 | 110.0 | A2    | .50      | 1.50 |
| 17.0     | 110023   | 5/8V17.0-4545 | 120.0 | A3    | 0        | 1.50 |
| 18.0     | 110024   | 5/8V18.0-4545 | 180.0 | A3    | 0        | 1.50 |
| 19.0     | 110025   | 5/8V19.0-4545 | 200.0 | A3    | 0        | 1.50 |
| 20.0     | 110026   | 5/8V20.0-4545 | 145.0 | A3    | 0        | 1.50 |
| 21.2     | 110027   | 5/8V21.2-4545 | 185.0 | A3    | 0        | 1.50 |
| 22.4     | 110028   | 5/8V22.4-4545 | 176.0 | A3    | 0        | 1.50 |
| 24.8     | 110682   | 5/8V24.8-5050 | 206.0 | A3    | 0        | 1.50 |
| 30.0     | 110029   | 5/8V30.0-5050 | 319.0 | D3    | .62      | 1.62 |
| 35.5     | 110046   | 5/8V35.5-5050 | 399.0 | A3    | 0        | 1.00 |
| 40.0     | 110017   | 5/8V40.0-5050 | 350.0 | A3    | 0        | 1.00 |
| 44.5     | 110047   | 5/8V44.5-5050 | 572.0 | A3    | 0        | 1.00 |
| 53.0     | 110018   | 5/8V53.0-5050 | 565.0 | A3    | 0        | 1.00 |

| 6-Groove |          |               |       |       | F = 7.12 |      |
|----------|----------|---------------|-------|-------|----------|------|
| O.D.Δ    | Part No. | Description   | Wt.   | Type‡ | E        | M    |
| 12.5     | 110964   | 6/8V12.5-4040 | 98.0  | A1    | 1.00     | 2.12 |
| 13.2     | 110965   | 6/8V13.2-4040 | 114.0 | A2    | 1.00     | 2.12 |
| 14.0     | 110966   | 6/8V14.0-4040 | 134.0 | A2    | 1.00     | 2.12 |
| 15.0     | 110033   | 6/8V15.0-4545 | 146.0 | A2    | .50      | 2.12 |
| 16.0     | 110034   | 6/8V16.0-4545 | 140.0 | A2    | .12      | 2.50 |
| 17.0     | 110035   | 6/8V17.0-4545 | 143.0 | A2    | .50      | 2.12 |
| 18.0     | 110036   | 6/8V18.0-4545 | 164.0 | A2    | .50      | 2.12 |
| 19.0     | 110037   | 6/8V19.0-4545 | 166.0 | A3    | .50      | 2.12 |
| 20.0     | 110967   | 6/8V20.0-5050 | 144.0 | D3    | 1.31     | 3.43 |
| 21.2     | 110968   | 6/8V21.2-5050 | 201.0 | A3    | .19      | 1.94 |
| 22.4     | 110969   | 6/8V22.4-5050 | 212.0 | D3    | 1.13     | 3.25 |
| 24.8     | 110683   | 6/8V24.8-5050 | 236.0 | D3    | .13      | 2.25 |
| 30.0     | 110041   | 6/8V30.0-5050 | 292.0 | A3    | .06      | 2.06 |
| 35.5     | 110049   | 6/8V35.5-5050 | 363.0 | A3    | .50      | 1.62 |
| 40.0     | 110042   | 6/8V40.0-5050 | 423.0 | A3    | .50      | 1.62 |
| 44.5     | 110064   | 6/8V44.5-5050 | 485.0 | A3    | .50      | 1.62 |
| 53.0     | 110043   | 6/8V53.0-5050 | 621.0 | A3    | .50      | 1.62 |

Δ Pitch diameter = O.D. - .20"

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See drawings page PT7-2.

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets





# SELECTION/DIMENSIONS

## 8V TAPER-LOCK SHEAVES

| 8-Groove |               |               |       |       | F = 9.37 |      |
|----------|---------------|---------------|-------|-------|----------|------|
| O.D.Δ    | Part No.      | Description   | Wt.   | Type‡ | E        | M    |
| 12.5     | <b>110050</b> | 8/8V12.5-4545 | 150.0 | A1    | 1.50     | 3.37 |
| 13.2     | <b>110051</b> | 8/8V13.2-4545 | 141.0 | A2    | 1.50     | 3.37 |
| 14.0     | <b>110052</b> | 8/8V14.0-4545 | 160.0 | A2    | 1.50     | 3.37 |
| 15.0     | <b>110053</b> | 8/8V15.0-4545 | 185.0 | A2    | 1.50     | 3.37 |
| 16.0     | <b>110054</b> | 8/8V16.0-4545 | 168.0 | A2    | 1.50     | 3.37 |
| 17.0     | <b>110971</b> | 8/8V17.0-5050 | 179.0 | A2    | .18      | 4.18 |
| 18.0     | <b>110056</b> | 8/8V18.0-5050 | 204.0 | A2    | .18      | 4.18 |
| 19.0     | <b>110057</b> | 8/8V19.0-5050 | 223.0 | A2    | .18      | 4.18 |
| 20.0     | <b>110058</b> | 8/8V20.0-5050 | 178.0 | A2    | .18      | 4.18 |
| 21.2     | <b>110059</b> | 8/8V21.2-5050 | 192.0 | A3    | .18      | 4.18 |
| 22.4     | <b>110060</b> | 8/8V22.4-5050 | 249.0 | A3    | .18      | 4.18 |
| 24.8     | <b>110065</b> | 8/8V24.8-5050 | 285.0 | A3    | 2.12     | 2.25 |
| 30.0     | <b>110061</b> | 8/8V30.0-5050 | 356.0 | A3    | 1.18     | 3.18 |
| 35.5     | <b>110066</b> | 8/8V35.5-5050 | 441.0 | A3    | 1.00     | 3.37 |
| 40.0     | <b>110062</b> | 8/8V40.0-5050 | 517.0 | A3    | 1.00     | 3.37 |
| 44.5     | <b>110973</b> | 8/8V44.5-6050 | 596.0 | A3    | 1.00     | 3.37 |
| 53.0     | <b>110974</b> | 8/8V53.0-6050 | 759.0 | A3    | 1.00     | 3.37 |

| 10-Groove |               |                |       |       |      |      | F = 11.62 |  |
|-----------|---------------|----------------|-------|-------|------|------|-----------|--|
| O.D.Δ     | Part No.      | Description    | Wt.   | Type‡ | E    | M    |           |  |
| 12.5      | - - -         | 10/8V12.5-4545 | - - - | A1    | 2.06 | 5.06 |           |  |
| 13.2      | <b>110071</b> | 10/8V13.2-4545 | 150.0 | A1    | 2.06 | 5.06 |           |  |
| 14.0      | <b>110072</b> | 10/8V14.0-4545 | 175.0 | A2    | 2.06 | 5.06 |           |  |
| 15.0      | <b>110073</b> | 10/8V15.0-5050 | 175.0 | A2    | 1.31 | 4.68 |           |  |
| 16.0      | <b>110074</b> | 10/8V16.0-5050 | 200.0 | A2    | 2.18 | 4.43 |           |  |
| 17.0      | <b>110075</b> | 10/8V17.0-5050 | 210.0 | A2    | 2.25 | 4.37 |           |  |
| 18.0      | <b>110076</b> | 10/8V18.0-5050 | 220.0 | A2    | 2.25 | 4.37 |           |  |
| 19.0      | <b>110077</b> | 10/8V19.0-5050 | 240.0 | A3    | 2.25 | 4.37 |           |  |
| 20.0      | <b>110078</b> | 10/8V20.0-5050 | 211.0 | A3    | 2.25 | 4.37 |           |  |
| 21.2      | <b>110079</b> | 10/8V21.2-5050 | 270.0 | A3    | 2.50 | 4.12 |           |  |
| 22.4      | <b>110080</b> | 10/8V22.4-5050 | 291.0 | A3    | 2.25 | 4.37 |           |  |
| 24.8      | <b>110068</b> | 10/8V24.8-5050 | 328.0 | A3    | 2.37 | 4.25 |           |  |
| 30.0      | <b>110081</b> | 10/8V30.0-5050 | 416.0 | A3    | 2.25 | 4.37 |           |  |
| 35.5      | <b>110976</b> | 10/8V35.5-6050 | 517.0 | A3    | 2.25 | 4.37 |           |  |
| 40.0      | <b>110977</b> | 10/8V40.0-6050 | 606.0 | A3    | 2.25 | 4.37 |           |  |
| 44.5      | <b>110978</b> | 10/8V44.5-6050 | 701.0 | A3    | 2.25 | 4.37 |           |  |
| 53.0      | <b>110979</b> | 10/8V53.0-6050 | 898.0 | A3    | 2.25 | 4.37 |           |  |

| 12-Groove |               |                |        |       |      |      |  |  |  |  |  | F = 13.87 |  |
|-----------|---------------|----------------|--------|-------|------|------|--|--|--|--|--|-----------|--|
| O.D.Δ     | Part No.      | Description    | Wt.    | Type‡ | E    | M    |  |  |  |  |  |           |  |
| 12.5      | <b>110980</b> | 12/8V12.5-5050 | 153.0  | A1    | 3.18 | 5.68 |  |  |  |  |  |           |  |
| 13.2      | <b>110981</b> | 12/8V13.2-5050 | 180.0  | A1    | 3.00 | 5.87 |  |  |  |  |  |           |  |
| 14.0      | <b>110982</b> | 12/8V14.0-5050 | 186.0  | A1    | 3.18 | 5.68 |  |  |  |  |  |           |  |
| 15.0      | <b>110983</b> | 12/8V15.0-5050 | 221.0  | A2    | 1.88 | 7.00 |  |  |  |  |  |           |  |
| 16.0      | <b>110984</b> | 12/8V16.0-5050 | 247.0  | A2    | 1.88 | 7.00 |  |  |  |  |  |           |  |
| 17.0      | <b>110985</b> | 12/8V17.0-5050 | 267.0  | A2    | 3.50 | 5.38 |  |  |  |  |  |           |  |
| 18.0      | <b>110986</b> | 12/8V18.0-5050 | 274.0  | A2    | 3.53 | 5.34 |  |  |  |  |  |           |  |
| 19.0      | <b>110987</b> | 12/8V19.0-5050 | 306.0  | A2    | 2.25 | 6.62 |  |  |  |  |  |           |  |
| 20.0      | <b>110988</b> | 12/8V20.0-5050 | 249.0  | A3    | 2.25 | 6.62 |  |  |  |  |  |           |  |
| 21.2      | <b>110989</b> | 12/8V21.2-5050 | 294.0  | A3    | 2.25 | 6.62 |  |  |  |  |  |           |  |
| 22.4      | <b>110990</b> | 12/8V22.4-5050 | 337.0  | A3    | 2.25 | 6.62 |  |  |  |  |  |           |  |
| 24.8      | <b>110991</b> | 12/8V24.8-5050 | 380.0  | A3    | 5.37 | 3.50 |  |  |  |  |  |           |  |
| 30.0      | <b>110992</b> | 12/8V30.0-6050 | 482.0  | A3    | 4.00 | 4.87 |  |  |  |  |  |           |  |
| 35.5      | <b>110993</b> | 12/8V35.5-6050 | 597.0  | A3    | 4.00 | 4.87 |  |  |  |  |  |           |  |
| 40.0      | <b>110994</b> | 12/8V40.0-6050 | 702.0  | A3    | 4.00 | 4.87 |  |  |  |  |  |           |  |
| 44.5      | <b>110995</b> | 12/8V44.5-6050 | 814.0  | A3    | 4.00 | 4.87 |  |  |  |  |  |           |  |
| 53.0      | <b>110996</b> | 12/8V53.0-7060 | 1077.0 | A3    | 5.00 | 2.87 |  |  |  |  |  |           |  |

Δ Pitch diameter = O.D. - .20"

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See drawings page PT7-2.

V-Drives

FHP Drives

Drive Component Accessories

DVNA-SYNC

HT200/HTD Synchronous Drives

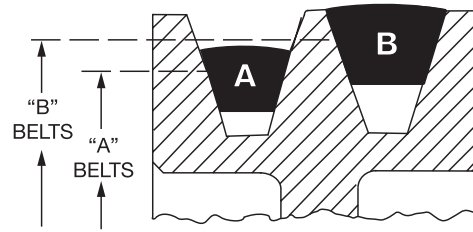
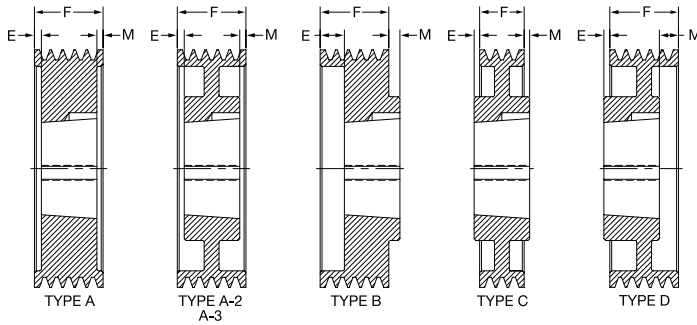
HT500 Synchronous Drives

Roller Chain Sprockets

# SELECTION/DIMENSIONS



## A/B TAPER-LOCK SHEAVES



Drawing illustrates how either A or B belts may be used with Dual Duty groove sheaves.

| 1-Groove |          |                  |       |       |     | F = ** |
|----------|----------|------------------|-------|-------|-----|--------|
| O.D.Δ    | Part No. | Description      | Wt.   | Type‡ | E   | M      |
| 3.75     | 118190   | 1A3.0B3.4-1210   | 1.5   | A1    | .11 | .04    |
| 3.95     | 118191   | 1A3.2B3.6-1210   | 1.7   | A1    | .11 | .04    |
| 4.15     | 118301   | 1A3.4B3.8-1610   | 1.5   | A1    | .11 | .04    |
| 4.35     | 118302   | 1A3.6B4.0-1610   | 1.9   | A1    | .11 | .04    |
| 4.55     | 118194   | 1A3.8B4.2-1610   | 2.2   | A1    | .11 | .04    |
| 4.75     | 118195   | 1A4.0B4.4-1610   | 2.5   | A1    | .11 | .04    |
| 4.95     | 118196   | 1A4.2B4.6-1610   | 2.9   | A1    | .11 | .04    |
| 5.15     | 118197   | 1A4.4B4.8-1610   | 3.3   | A1    | .11 | .04    |
| 5.35     | 118198   | 1A4.6B5.0-1610   | 3.6   | A1    | .11 | .04    |
| 5.55     | 118199   | 1A4.8B5.2-1610   | 4.1   | A1    | .11 | .04    |
| 5.75     | 118200   | 1A5.0B5.4-1610   | 4.5   | A1    | .11 | .04    |
| 5.95     | 118201   | 1A5.2B5.6-1610   | 4.9   | A1    | 0   | 0      |
| 6.15     | 118202   | 1A5.4B5.8-1610   | 5.3   | A1    | 0   | 0      |
| 6.35     | 118203   | 1A5.6B6.0-1610   | 5.8   | A1    | 0   | 0      |
| 6.55     | 118204   | 1A5.8B6.2-1610   | 6.3   | A1    | 0   | 0      |
| 6.75     | 118205   | 1A6.0B6.4-1610   | 6.8   | A1    | 0   | 0      |
| 6.95     | 118206   | 1A6.2B6.6-1610   | 7.5   | A1    | 0   | 0      |
| 7.15     | 118207   | 1A6.4B6.8-1610   | 7.8   | A1    | 0   | 0      |
| 7.35     | 118340   | 1A6.6B7.0-2517   | 8.5   | B1    | 0   | .75    |
| 7.75     | 118303   | 1A7.0B7.4-2517   | 9.4   | B1    | 0   | .75    |
| 8.35     | 118341   | 1A7.6B8.0-2517   | 11.0  | B1    | 0   | .75    |
| 8.95     | 118304   | 1A8.2B8.6-2517   | 12.0  | B1    | 0   | .75    |
| 9.75     | 118305   | 1A9.0B9.4-2517   | 14.0  | B1    | 0   | .75    |
| 11.35    | 118022   | 1A10.6B11.0-2517 | 15.0  | B1    | 0   | .75    |
| 12.75    | 118023   | 1A12.0B12.4-2517 | 114.0 | C3    | .25 | .50    |
| 13.95    | 118342   | 1A13.2B13.6-2517 | 16.0  | C3    | .25 | .50    |
| 15.75    | 118024   | 1A15.0B15.4-2517 | 18.0  | C3    | .38 | .38    |
| 16.35    | 118343   | 1A15.6B16.0-2517 | 22.0  | C3    | .38 | .38    |
| 18.75    | 118025   | 1A18.0B18.4-2517 | 27.0  | C3    | .18 | .43    |

| 2-Groove |          |                  |      |       |     | F = 1.75 |
|----------|----------|------------------|------|-------|-----|----------|
| O.D.Δ    | Part No. | Description      | Wt.  | Type‡ | E   | M        |
| 3.75     | 118211   | 2A3.0B3.4-1210   | 2.2  | A1    | .10 | .65      |
| 3.95     | 118212   | 2A3.2B3.6-1210   | 2.6  | A1    | .10 | .65      |
| 4.15     | 118306   | 2A3.4B3.8-1610   | 2.5  | A1    | 0   | .75      |
| 4.35     | 118307   | 2A3.6B4.0-1610   | 2.9  | A1    | 0   | .75      |
| 4.55     | 118215   | 2A3.8B4.2-1610   | 3.3  | A1    | 0   | .75      |
| 4.75     | 118216   | 2A4.0B4.4-1610   | 3.7  | A1    | 0   | .75      |
| 4.95     | 118217   | 2A4.2B4.6-1610   | 4.2  | A1    | 0   | .75      |
| 5.15     | 118218   | 2A4.4B4.8-1610   | 4.1  | A1    | 0   | .75      |
| 5.35     | 118219   | 2A4.6B5.0-1610   | 5.0  | A1    | 0   | .75      |
| 5.55     | 118220   | 2A4.8B5.2-1610   | 5.5  | A1    | 0   | .75      |
| 5.75     | 118221   | 2A5.0B5.4-1610   | 5.9  | A1    | 0   | .75      |
| 5.95     | 118222   | 2A5.2B5.6-1610   | 6.5  | A1    | 0   | .75      |
| 6.15     | 118223   | 2A5.4B5.8-1610   | 6.9  | A1    | 0   | .75      |
| 6.35     | 118224   | 2A5.6B6.0-1610   | 7.6  | A1    | 0   | .75      |
| 6.55     | 118225   | 2A5.8B6.2-1610   | 8.2  | A1    | 0   | .75      |
| 6.75     | 118226   | 2A6.0B6.4-1610   | 8.6  | A1    | 0   | .75      |
| 6.95     | 118227   | 2A6.2B6.6-1610   | 9.5  | A1    | 0   | .75      |
| 7.15     | 118228   | 2A6.4B6.8-1610   | 9.8  | A1    | 0   | .75      |
| 7.35     | 118344   | 2A6.6B7.0-2517   | 14.0 | A1    | 0   | 0        |
| 7.75     | 118044   | 2A7.0B7.4-2517   | 14.0 | A1    | 0   | 0        |
| 8.35     | 118345   | 2A7.6B8.0-2517   | 15.0 | C2    | 0   | 0        |
| 8.95     | 118045   | 2A8.2B8.6-2517   | 15.0 | C2    | 0   | 0        |
| 9.75     | 118046   | 2A9.0B9.4-2517   | 18.0 | C2    | 0   | 0        |
| 11.35    | 118047   | 2A10.6B11.0-2517 | 25.0 | C2    | 0   | 0        |
| 12.75    | 118048   | 2A12.0B12.4-2517 | 18.0 | C3    | 0   | 0        |
| 13.95    | 118346   | 2A13.2B13.6-2517 | 24.0 | C3    | 0   | 0        |
| 15.75    | 118049   | 2A15.0B15.4-2517 | 24.0 | C3    | 0   | 0        |
| 16.35    | 118347   | 2A15.6B16.0-2517 | 26.0 | C3    | 0   | 0        |
| 18.75    | 118050   | 2A18.0B18.4-2517 | 33.0 | C3    | 0   | 0        |
| 20.35    | 114068   | 2B20.0-3020      | 31.0 | C3    | 0   | .25      |
| 25.35    | 114069   | 2B25.0-3020      | 41.0 | C3    | 0   | .25      |
| 30.35    | 114070   | 2B30.0-3020      | 52.0 | C3    | 0   | .25      |
| 38.35    | 114071   | 2B38.0-3020      | 71.0 | C3    | 0   | .25      |

Δ P.D. for "A" Belts = O.D. - .37"

P.D. for "B" Belts = O.D. + .01"

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-2.

\*\* 1.16" for 1A3.0B3.4 thru 1A4.4B4.8

1.05" for 1A4.6B5.0 thru 1A5.0B15.4

1.13" for 1A15.6B16.0 thru 1A18.0B18.4



# SELECTION/DIMENSIONS

## A/B TAPER-LOCK SHEAVES

| 3-Groove |               |                  |       |       |     |      | F = 2.50 |  |
|----------|---------------|------------------|-------|-------|-----|------|----------|--|
| O.D.Δ    | Part No.      | Description      | Wt.   | Type‡ | E   | M    |          |  |
| 3.75     | <b>118229</b> | 3A3.0B3.4-1210   | 3.0   | A1    | 0   | 1.50 |          |  |
| 3.95     | <b>118230</b> | 3A3.2B3.6-1210   | 3.5   | A1    | 0   | 1.50 |          |  |
| 4.15     | <b>118308</b> | 3A3.4B3.8-1610   | 3.4   | A1    | 0   | 1.50 |          |  |
| 4.35     | <b>118309</b> | 3A3.6B4.0-1610   | 4.0   | A1    | 0   | 1.50 |          |  |
| 4.55     | <b>118233</b> | 3A3.8B4.2-1610   | 4.6   | A1    | 0   | 1.50 |          |  |
| 4.75     | <b>118234</b> | 3A4.0B4.4-1610   | 4.9   | A1    | 0   | 1.50 |          |  |
| 4.95     | <b>118235</b> | 3A4.2B4.6-1610   | 5.4   | A1    | 0   | 1.50 |          |  |
| 5.15     | <b>118310</b> | 3A4.4B4.8-1610   | 5.9   | A1    | 0   | 1.50 |          |  |
| 5.35     | <b>118311</b> | 3A4.6B5.0-1610   | 6.4   | A1    | 0   | 1.50 |          |  |
| 5.55     | <b>118312</b> | 3A4.8B5.2-1610   | 7.0   | A1    | 0   | 1.50 |          |  |
| 5.75     | <b>118313</b> | 3A5.0B5.4-2517   | 7.8   | A1    | .75 | 0    |          |  |
| 5.95     | <b>118314</b> | 3A5.2B5.6-2517   | 8.2   | A1    | .75 | 0    |          |  |
| 6.15     | <b>118315</b> | 3A5.4B5.8-2517   | 8.9   | A1    | .75 | 0    |          |  |
| 6.35     | <b>118316</b> | 3A5.6B6.0-2517   | 9.8   | A1    | .75 | 0    |          |  |
| 6.55     | <b>118317</b> | 3A5.8B6.2-2517   | 11.0  | A1    | 0   | .75  |          |  |
| 6.75     | <b>118318</b> | 3A6.0B6.4-2517   | 12.0  | A1    | 0   | .75  |          |  |
| 6.95     | <b>118319</b> | 3A6.2B6.6-2517   | 13.0  | A1    | 0   | .75  |          |  |
| 7.15     | <b>118320</b> | 3A6.4B6.8-2517   | 14.0  | A1    | 0   | .75  |          |  |
| 7.35     | <b>118348</b> | 3A6.6B7.0-2517   | 15.0  | A1    | 0   | .75  |          |  |
| 7.75     | <b>118069</b> | 3A7.0B7.4-2517   | 17.0  | A1    | .0  | .75  |          |  |
| 8.35     | <b>118349</b> | 3A7.6B8.0-2517   | 19.0  | A1    | 0   | .75  |          |  |
| 8.95     | <b>118070</b> | 3A8.2B8.6-2517   | 19.0  | A1    | 0   | .75  |          |  |
| 9.75     | <b>118071</b> | 3A9.0B9.4-2517   | 21.0  | A2    | 0   | .75  |          |  |
| 11.35    | <b>118072</b> | 3A10.6B11.0-2517 | 28.0  | A2    | 0   | .75  |          |  |
| 12.75    | <b>118073</b> | 3A12.0B12.4-2517 | 22.0  | A3    | 0   | .75  |          |  |
| 13.95    | <b>118350</b> | 3A13.2B13.6-2517 | 25.0  | A3    | 0   | .75  |          |  |
| 15.75    | <b>118074</b> | 3A15.0B15.4-2517 | 30.0  | A3    | 0   | .75  |          |  |
| 16.35    | <b>118351</b> | 3A15.6B16.0-2517 | 32.0  | A3    | 0   | .75  |          |  |
| 18.75    | <b>118075</b> | 3A18.0B18.4-2517 | 39.0  | A3    | 0   | .75  |          |  |
| 20.35    | <b>114072</b> | 3B20.0-3020      | 39.0  | A3    | 0   | .50  |          |  |
| 25.35    | <b>114073</b> | 3B25.0-3020      | 52.0  | A3    | 0   | .50  |          |  |
| 30.35    | <b>114074</b> | 3B30.0-3020      | 66.0  | A3    | 0   | .50  |          |  |
| 38.35    | <b>114033</b> | 3B38.0-3020      | 103.0 | A3    | 0   | .50  |          |  |

| 4-Groove |               |                  |       |       |      |      | F = 3.25 |  |
|----------|---------------|------------------|-------|-------|------|------|----------|--|
| O.D.Δ    | Part No.      | Description      | Wt.   | Type‡ | E    | M    |          |  |
| 3.75     | <b>118247</b> | 4A3.0B3.4-1210   | 3.7   | A1    | 2.25 | 0    |          |  |
| 3.95     | <b>118248</b> | 4A3.2B3.6-1210   | 4.4   | A1    | 2.25 | 0    |          |  |
| 4.15     | <b>118321</b> | 4A3.4B3.8-1610   | 4.3   | A1    | 2.25 | 0    |          |  |
| 4.35     | <b>118322</b> | 4A3.6B4.0-1610   | 5.1   | A1    | 2.25 | 0    |          |  |
| 4.55     | <b>118251</b> | 4A3.8B4.2-1610   | 5.5   | A1    | 2.25 | 0    |          |  |
| 4.75     | <b>118252</b> | 4A4.0B4.4-1610   | 6.0   | A1    | 2.25 | 0    |          |  |
| 4.95     | <b>118253</b> | 4A4.2B4.6-1610   | 6.7   | A1    | 2.25 | 0    |          |  |
| 5.15     | <b>118323</b> | 4A4.4B4.8-1610   | 7.2   | A1    | 2.25 | 0    |          |  |
| 5.35     | <b>118324</b> | 4A4.6B5.0-2517   | 6.7   | A1    | 1.50 | 0    |          |  |
| 5.55     | <b>118325</b> | 4A4.8B5.2-2517   | 8.0   | A1    | 1.50 | 0    |          |  |
| 5.75     | <b>118326</b> | 4A5.0B5.4-2517   | 8.7   | A1    | 1.50 | 0    |          |  |
| 5.95     | <b>118327</b> | 4A5.2B5.6-2517   | 9.8   | A1    | 1.50 | 0    |          |  |
| 6.15     | <b>118328</b> | 4A5.4B5.8-2517   | 10.0  | A1    | 1.50 | 0    |          |  |
| 6.35     | <b>118329</b> | 4A5.6B6.0-2517   | 12.0  | A1    | 1.50 | 0    |          |  |
| 6.55     | <b>118090</b> | 4A5.8B6.2-2517   | 13.0  | A1    | 0    | 1.50 |          |  |
| 6.75     | <b>118091</b> | 4A6.0B6.4-2517   | 13.0  | A1    | 0    | 1.50 |          |  |
| 6.95     | <b>118092</b> | 4A6.2B6.6-2517   | 15.0  | A1    | 0    | 1.50 |          |  |
| 7.15     | <b>118093</b> | 4A6.4B6.8-2517   | 15.0  | A1    | 0    | 1.50 |          |  |
| 7.35     | <b>118352</b> | 4A6.6B7.0-2517   | 16.0  | A1    | 0    | 1.50 |          |  |
| 7.75     | <b>118094</b> | 4A7.0B7.4-2517   | 19.0  | A1    | 0    | 1.50 |          |  |
| 8.35     | <b>118353</b> | 4A7.6B8.0-2517   | 21.0  | A1    | 0    | 1.50 |          |  |
| 8.95     | <b>118095</b> | 4A8.2B8.6-2517   | 21.0  | A1    | 0    | 1.50 |          |  |
| 9.75     | <b>118096</b> | 4A9.0B9.4-2517   | 24.0  | A1    | 0    | 1.50 |          |  |
| 11.35    | <b>118097</b> | 4A10.6B11.0-2517 | 31.0  | A1    | 0    | 1.50 |          |  |
| 12.75    | <b>118098</b> | 4A12.0B12.4-2517 | 30.0  | A3    | .37  | 1.12 |          |  |
| 13.95    | <b>118354</b> | 4A13.2B13.6-2517 | 34.0  | A3    | .37  | 1.12 |          |  |
| 15.75    | <b>118099</b> | 4A15.0B15.4-2517 | 41.0  | A3    | .37  | 1.12 |          |  |
| 16.35    | <b>118355</b> | 4A15.6B16.0-2517 | 61.0  | A3    | .37  | 1.12 |          |  |
| 18.75    | <b>118100</b> | 4A18.0B18.4-2517 | 67.0  | A3    | .48  | 1.01 |          |  |
| 20.35    | <b>114075</b> | 4B20.0-3020      | 58.0  | A3    | .50  | .75  |          |  |
| 25.35    | <b>114041</b> | 4B25.0-3030      | 73.0  | A3    | 0    | .25  |          |  |
| 30.35    | <b>114042</b> | 4B30.0-3030      | 91.0  | A3    | 0    | .25  |          |  |
| 38.35    | <b>114043</b> | 4B38.0-3030      | 123.0 | A3    | 0    | .25  |          |  |

P.D. for "A" Belts = O.D. - .37"

P.D. for "B" Belts = O.D. +.01"

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-2.

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets

# SELECTION/DIMENSIONS



## A/B TAPER-LOCK SHEAVES

| 5-Groove |               |                  |       |       |      | F = 4.00 |  |
|----------|---------------|------------------|-------|-------|------|----------|--|
| O.D.Δ    | Part No.      | Description      | Wt.   | Type‡ | E    | M        |  |
| 3.75     | <b>118101</b> | 5A3.0B3.4-1215   | 4.9   | A1    | .87  | 1.62     |  |
| 3.95     | <b>118102</b> | 5A3.2B3.6-1215   | 5.4   | A1    | .87  | 1.62     |  |
| 4.15     | <b>118103</b> | 5A3.4B3.8-1215   | 5.1   | A1    | .87  | 1.62     |  |
| 4.35     | <b>118104</b> | 5A3.6B4.0-1215   | 6.1   | A1    | .87  | 1.62     |  |
| 4.55     | <b>118105</b> | 5A3.8B4.2-1615   | 6.6   | A1    | .87  | 1.62     |  |
| 4.75     | <b>118106</b> | 5A4.0B4.4-1615   | 6.9   | A1    | .87  | 1.62     |  |
| 4.95     | <b>118107</b> | 5A4.2B4.6-1615   | 8.6   | A1    | .87  | 1.62     |  |
| 5.15     | <b>118356</b> | 5A4.4B4.8-1615   | 9.4   | A1    | .87  | 1.62     |  |
| 5.35     | <b>118109</b> | 5A4.6B5.0-1615   | 9.2   | A1    | .87  | 1.62     |  |
| 5.55     | <b>118110</b> | 5A4.8B5.2-1615   | 9.9   | A1    | .87  | 1.62     |  |
| 5.75     | <b>118111</b> | 5A5.0B5.4-2517   | 11.0  | A1    | .81  | 1.43     |  |
| 5.95     | <b>118112</b> | 5A5.2B5.6-2517   | 11.0  | A1    | .81  | 1.43     |  |
| 6.15     | <b>118357</b> | 5A5.4B5.8-2517   | 13.0  | A1    | .81  | 1.43     |  |
| 6.35     | <b>118114</b> | 5A5.6B6.0-2517   | 13.0  | A1    | .81  | 1.43     |  |
| 6.55     | <b>118358</b> | 5A5.8B6.2-2517   | 14.0  | A1    | .81  | 1.43     |  |
| 6.75     | <b>118116</b> | 5A6.0B6.4-2517   | 15.0  | A1    | .81  | 1.43     |  |
| 6.95     | <b>118359</b> | 5A6.2B6.6-2517   | 16.0  | A1    | .81  | 1.43     |  |
| 7.15     | <b>118118</b> | 5A6.4B6.8-2517   | 18.0  | A1    | .81  | 1.43     |  |
| 7.35     | <b>118360</b> | 5A6.6B7.0-2517   | 18.0  | A1    | .75  | 1.50     |  |
| 7.75     | <b>118119</b> | 5A7.0B7.4-2517   | 22.0  | A1    | .75  | 1.50     |  |
| 8.35     | <b>118361</b> | 5A7.6B8.0-2517   | 23.0  | A1    | .50  | 1.75     |  |
| 8.95     | <b>118120</b> | 5A8.2B8.6-2517   | 24.0  | A1    | .75  | 1.50     |  |
| 9.75     | <b>118121</b> | 5A9.0B9.4-2517   | 26.0  | A1    | .75  | 1.50     |  |
| 11.35    | <b>118122</b> | 5A10.6B11.0-2517 | 32.0  | A2    | .75  | 1.50     |  |
| 12.75    | <b>118123</b> | 5A12.0B12.4-2517 | 35.0  | A3    | .75  | 1.50     |  |
| 13.95    | <b>118362</b> | 5A13.2B13.6-2517 | 38.0  | A3    | 1.00 | 1.25     |  |
| 15.75    | <b>118124</b> | 5A15.0B15.4-2517 | 43.0  | A3    | .75  | 1.50     |  |
| 16.35    | <b>118363</b> | 5A15.6B16.0-2517 | 67.0  | A3    | .75  | 1.50     |  |
| 18.75    | <b>118125</b> | 5A18.0B18.4-2517 | 70.0  | A3    | .81  | 1.44     |  |
| 20.35    | <b>114050</b> | 5B20.0-3030      | 65.0  | A3    | .25  | .75      |  |
| 25.35    | <b>114051</b> | 5B25.0-3030      | 84.0  | A3    | .25  | .75      |  |
| 30.35    | <b>114052</b> | 5B30.0-3030      | 105.0 | A3    | .38  | .63      |  |
| 38.35    | <b>114053</b> | 5B38.0-3030      | 144.0 | A3    | .25  | .75      |  |

| 6-Groove |               |                  |       |       |      | F = 4.75 |  |
|----------|---------------|------------------|-------|-------|------|----------|--|
| O.D.Δ    | Part No.      | Description      | Wt.   | Type‡ | E    | M        |  |
| 4.55     | <b>118130</b> | 6A3.8B4.2-1615   | 7.9   | A1    | 1.25 | 2.00     |  |
| 4.75     | <b>118131</b> | 6A4.0B4.4-1615   | 9.3   | A1    | 1.25 | 2.00     |  |
| 4.95     | <b>118132</b> | 6A4.2B4.6-1615   | 9.7   | A1    | 1.25 | 2.00     |  |
| 5.15     | <b>118364</b> | 6A4.4B4.8-1615   | 11.0  | A1    | 1.25 | 2.00     |  |
| 5.35     | <b>118134</b> | 6A4.6B5.0-1615   | 10.0  | A1    | 1.25 | 2.00     |  |
| 5.55     | <b>118135</b> | 6A4.8B5.2-1615   | 11.0  | A1    | 1.25 | 2.00     |  |
| 5.75     | <b>118136</b> | 6A5.0B5.4-2517   | 12.0  | A1    | 1.12 | 1.87     |  |
| 5.95     | <b>118137</b> | 6A5.2B5.6-2517   | 13.0  | A1    | 1.12 | 1.87     |  |
| 6.15     | <b>118365</b> | 6A5.4B5.8-2517   | 14.0  | A1    | 1.12 | 1.87     |  |
| 6.35     | <b>118139</b> | 6A5.6B6.0-2517   | 15.0  | A1    | 1.12 | 1.87     |  |
| 6.55     | <b>118366</b> | 6A5.8B6.2-2517   | 16.0  | A1    | 1.12 | 1.87     |  |
| 6.75     | <b>118141</b> | 6A6.0B6.4-2517   | 19.0  | A1    | 1.12 | 1.87     |  |
| 6.95     | <b>118367</b> | 6A6.2B6.6-2517   | 20.0  | A1    | 1.12 | 1.87     |  |
| 7.15     | <b>118143</b> | 6A6.4B6.8-2517   | 20.0  | A1    | 1.12 | 1.87     |  |
| 7.35     | <b>118368</b> | 6A6.6B7.0-2517   | 21.0  | A1    | 1.50 | 1.50     |  |
| 7.75     | <b>118144</b> | 6A7.0B7.4-2517   | 24.0  | A1    | 1.12 | 1.87     |  |
| 8.35     | <b>118369</b> | 6A7.6B8.0-2517   | 26.0  | A1    | 1.50 | 1.50     |  |
| 8.95     | <b>118145</b> | 6A8.2B8.6-2517   | 30.0  | A2    | 1.50 | 1.50     |  |
| 9.75     | <b>118146</b> | 6A9.0B9.4-2517   | 30.0  | A2    | 1.12 | 1.87     |  |
| 11.35    | <b>118147</b> | 6A10.6B11.0-2517 | 33.0  | A2    | 1.12 | 1.87     |  |
| 12.75    | <b>118148</b> | 6A12.0B12.4-2517 | 37.0  | A3    | 1.50 | 1.50     |  |
| 13.95    | <b>118370</b> | 6A13.2B13.6-2517 | 42.0  | A3    | 1.50 | 1.50     |  |
| 15.75    | <b>118149</b> | 6A15.0B15.4-2517 | 47.0  | A3    | 1.50 | 1.50     |  |
| 16.35    | <b>118371</b> | 6A15.6B16.0-2517 | 53.0  | A3    | 1.50 | 1.50     |  |
| 18.75    | <b>118150</b> | 6A18.0B18.4-2517 | 68.0  | A3    | 1.50 | 1.50     |  |
| 20.35    | <b>114060</b> | 6B20.0-3030      | 73.0  | A3    | .50  | 1.25     |  |
| 25.35    | <b>114061</b> | 6B25.0-3030      | 95.0  | A3    | .50  | 1.25     |  |
| 30.35    | <b>114062</b> | 6B30.0-3030      | 119.0 | A3    | .50  | 1.25     |  |
| 38.35    | <b>114063</b> | 6B38.0-3030      | 164.0 | A3    | .50  | 1.25     |  |

Δ P.D. for "A" Belts = O.D. - .37"

P.D. for "B" Belts = O.D. +.01"

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-2.

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

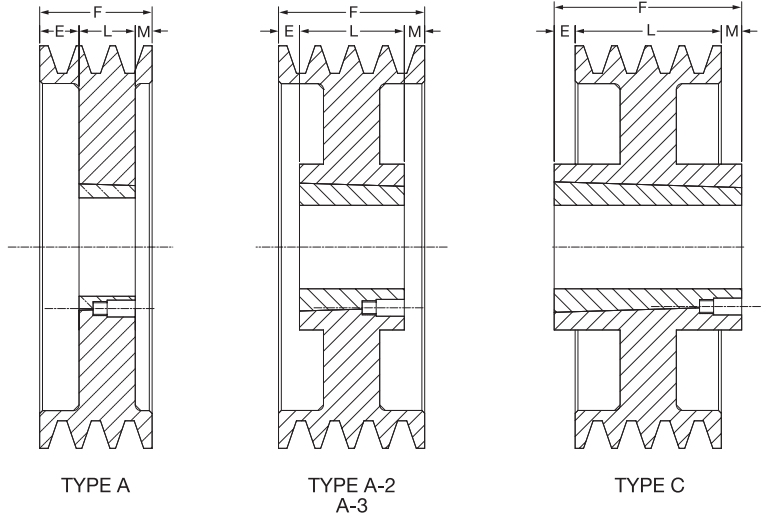
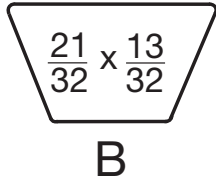
HT500 Synchronous Drives

Roller Chain Sprockets



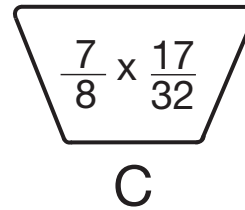
## SELECTION/DIMENSIONS

### B TAPER-LOCK SHEAVES



| 8-Groove |          | F = 6.25    |       |       |      |      |
|----------|----------|-------------|-------|-------|------|------|
| O.D.Δ    | Part No. | Description | Wt.   | Type‡ | E    | M    |
| 5.75     | 114114   | 8B5.4-2517  | 15.0  | A1    | 1.87 | 2.62 |
| 5.95     | 114115   | 8B5.6-2517  | 17.0  | A1    | 1.87 | 2.62 |
| 6.35     | 114116   | 8B6.0-2517  | 19.0  | A1    | 1.87 | 2.62 |
| 6.75     | 114117   | 8B6.4-2517  | 22.0  | A1    | 1.87 | 2.62 |
| 7.15     | 114118   | 8B6.8-2517  | 26.0  | A1    | 1.87 | 2.62 |
| 7.75     | 114119   | 8B7.4-2517  | 34.0  | A1    | 1.87 | 2.62 |
| 8.95     | 114130   | 8B8.6-3030  | 37.0  | A1    | 1.00 | 2.25 |
| 9.75     | 114131   | 8B9.4-3030  | 37.0  | A1    | 1.00 | 2.25 |
| 11.35    | 114132   | 8B11.0-3030 | 46.0  | A1    | 1.13 | 2.13 |
| 12.75    | 114133   | 8B12.4-3030 | 46.0  | A2    | 1.00 | 2.25 |
| 15.75    | 114134   | 8B15.4-3030 | 66.0  | A2    | 1.00 | 2.25 |
| 18.75    | 114135   | 8B18.4-3030 | 81.0  | A3    | 1.00 | 2.25 |
| 20.35    | 114136   | 8B20.0-3030 | 87.0  | A3    | 1.00 | 2.25 |
| 25.35    | 114137   | 8B25.0-3535 | 115.0 | A3    | .75  | 2.00 |
| 30.35    | 114138   | 8B30.0-3535 | 146.0 | A3    | .75  | 2.00 |
| 38.35    | 114139   | 8B38.0-4040 | 204.0 | A3    | 1.12 | 1.12 |

| 10-Groove |          | F = 7.75     |      |       |      |      |
|-----------|----------|--------------|------|-------|------|------|
| O.D.Δ     | Part No. | Description  | Wt.  | Type‡ | E    | M    |
| 5.75      | 114150   | 10B5.4-2517  | 18.0 | A1    | 3.00 | 3.00 |
| 5.95      | 114151   | 10B5.6-2517  | 20.0 | A1    | 3.00 | 3.00 |
| 6.35      | 114152   | 10B6.0-2517  | 22.0 | A1    | 3.00 | 3.00 |
| 6.75      | 114153   | 10B6.4-2517  | 26.0 | A1    | 3.00 | 3.00 |
| 7.15      | 114154   | 10B6.8-2517  | 29.0 | A1    | 3.00 | 3.00 |
| 7.75      | 114155   | 10B7.4-2517  | 35.0 | A1    | 3.00 | 3.00 |
| 8.95      | 114170   | 10B8.6-3030  | 43.0 | A1    | 2.00 | 2.75 |
| 9.75      | 114171   | 10B9.4-3030  | 47.0 | A1    | 2.00 | 2.75 |
| 11.35     | 114172   | 10B11.0-3030 | 58.0 | A1    | 2.00 | 2.75 |



### C TAPER-LOCK SHEAVES

| 2-Groove |          | F = 2.37    |      |       |     |     |
|----------|----------|-------------|------|-------|-----|-----|
| O.D.Δ    | Part No. | Description | Wt.  | Type‡ | E   | M   |
| 7.4      | 115162   | 2C7.0-2517  | 15.0 | A1    | 0   | .62 |
| 7.9      | 115163   | 2C7.5-2517  | 18.0 | A1    | 0   | .62 |
| 8.4      | 115164   | 2C8.0-2517  | 20.0 | A1    | 0   | .62 |
| 8.9      | 115165   | 2C8.5-2517  | 22.0 | A1    | 0   | .62 |
| 9.4      | 115166   | 2C9.0-2517  | 21.0 | A1    | 0   | .62 |
| 9.9      | 115186   | 2C9.5-2517  | 24.0 | A1    | 0   | .62 |
| 10.4     | 115171   | 2C10.0-2517 | 25.0 | A2    | 0   | .62 |
| 10.9     | 115187   | 2C10.5-2517 | 26.0 | A2    | 0   | .62 |
| 11.4     | 115174   | 2C11.0-2517 | 27.0 | A2    | 0   | .62 |
| 12.4     | 115175   | 2C12.0-2517 | 28.0 | A2    | 0   | .62 |
| 13.4     | 115176   | 2C13.0-2517 | 33.0 | A3    | 0   | .62 |
| 14.4     | 115177   | 2C14.0-2517 | 35.0 | A3    | 0   | .62 |
| 16.4     | 115178   | 2C16.0-2517 | 38.0 | A3    | 0   | .62 |
| 18.4     | 115325   | 2C18.0-3020 | 42.0 | A3    | 0   | .37 |
| 20.4     | 115326   | 2C20.0-3020 | 44.0 | A3    | 0   | .37 |
| 24.4     | 115327   | 2C24.0-3020 | 56.0 | A3    | 0   | .37 |
| 30.4     | 115000   | 2C30.0-3535 | 85.0 | C3    | .50 | .63 |

| 3-Groove |          | F = 3.37    |       |       |     |      |
|----------|----------|-------------|-------|-------|-----|------|
| O.D.Δ    | Part No. | Description | Wt.   | Type‡ | E   | M    |
| 7.4      | 115130   | 3C7.0-2517  | 18.0  | A1    | .25 | 1.37 |
| 7.9      | 115131   | 3C7.5-2517  | 19.0  | A1    | .25 | 1.37 |
| 8.4      | 115132   | 3C8.0-2517  | 21.0  | A1    | 0   | 1.62 |
| 8.9      | 115133   | 3C8.5-2517  | 23.0  | A1    | .25 | 1.37 |
| 9.4      | 115001   | 3C9.0-2517  | 24.0  | A1    | .25 | 1.37 |
| 9.9      | 115188   | 3C9.5-2517  | 25.0  | A1    | .25 | 1.37 |
| 10.4     | 115016   | 3C10.0-2517 | 27.0  | A1    | .25 | 1.37 |
| 10.9     | 115189   | 3C10.5-2517 | 28.0  | A1    | .25 | 1.37 |
| 11.4     | 115006   | 3C11.0-2517 | 29.0  | A1    | .25 | 1.37 |
| 12.4     | 115328   | 3C12.0-3020 | 44.0  | A2    | 0   | 1.37 |
| 13.4     | 115329   | 3C13.0-3020 | 49.0  | A3    | 0   | 1.37 |
| 14.4     | 115330   | 3C14.0-3020 | 50.0  | A3    | 0   | 1.37 |
| 16.4     | 115331   | 3C16.0-3020 | 64.0  | A3    | .06 | 1.31 |
| 18.4     | 115014   | 3C18.0-3030 | 72.0  | A3    | 0   | .37  |
| 20.4     | 115009   | 3C20.0-3030 | 79.0  | A3    | 0   | .37  |
| 24.4     | 115010   | 3C24.0-3030 | 90.0  | A3    | 0   | .37  |
| 30.4     | 115011   | 3C30.0-3535 | 135.0 | C3    | 0   | .12  |
| 36.4     | 115012   | 3C36.0-3535 | 175.0 | C3    | 0   | .12  |

Δ P.D. for "B" Belts = O.D. + .01"

P.D. for "C" Belts = O.D.

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-2.

# SELECTION/DIMENSIONS



## C TAPER-LOCK SHEAVES

| 4-Groove |          |             |       |       |      | F = 4.37 |  |
|----------|----------|-------------|-------|-------|------|----------|--|
| O.D.Δ    | Part No. | Description | Wt.   | Type‡ | E    | M        |  |
| 7.4      | 115135   | 4C7.0-2517  | 20.0  | A1    | 1.12 | 1.50     |  |
| 7.9      | 115136   | 4C7.5-2517  | 21.0  | A1    | 1.13 | 1.50     |  |
| 8.4      | 115137   | 4C8.0-2517  | 24.0  | A1    | .50  | 2.13     |  |
| 8.9      | 115138   | 4C8.5-2517  | 25.0  | A1    | .50  | 2.13     |  |
| 9.4      | 115017   | 4C9.0-2517  | 26.0  | A1    | .50  | 2.13     |  |
| 9.9      | 115190   | 4C9.5-2517  | 29.0  | A1    | .50  | 2.13     |  |
| 10.4     | 115032   | 4C10.0-2517 | 31.0  | A1    | .50  | 2.13     |  |
| 10.9     | 115191   | 4C10.5-2517 | 32.0  | A1    | .50  | 2.13     |  |
| 11.4     | 115022   | 4C11.0-2517 | 34.0  | A1    | .50  | 2.13     |  |
| 12.4     | 115151   | 4C12.0-3030 | 52.0  | A2    | 0    | 1.37     |  |
| 13.4     | 115023   | 4C13.0-3030 | 56.0  | A3    | 0    | 1.37     |  |
| 14.4     | 115155   | 4C14.0-3030 | 63.0  | A3    | 0    | 1.37     |  |
| 16.4     | 115024   | 4C16.0-3030 | 71.0  | A3    | 0    | 1.37     |  |
| 18.4     | 115030   | 4C18.0-3030 | 81.0  | A3    | .18  | 1.18     |  |
| 20.4     | 115025   | 4C20.0-3030 | 80.0  | A3    | 0    | 1.37     |  |
| 24.4     | 115026   | 4C24.0-3030 | 98.0  | A3    | 0    | 1.37     |  |
| 30.4     | 115027   | 4C30.0-3535 | 130.0 | A3    | .31  | .56      |  |
| 36.4     | 115028   | 4C36.0-3535 | 165.0 | A3    | 0    | .87      |  |
| 44.4     | 115029   | 4C44.0-4040 | 240.0 | A3    | 0    | .37      |  |

| 6-Groove |          |             |       |       |      | F = 6.37 |  |
|----------|----------|-------------|-------|-------|------|----------|--|
| O.D.Δ    | Part No. | Description | Wt.   | Type‡ | E    | M        |  |
| 7.4      | 115145   | 6C7.0-3030  | 33.0  | A1    | 1.00 | 2.37     |  |
| 7.9      | 115146   | 6C7.5-3030  | 38.0  | A1    | 1.00 | 2.37     |  |
| 8.4      | 115147   | 6C8.0-3030  | 43.0  | A1    | 1.00 | 2.37     |  |
| 8.9      | 115148   | 6C8.5-3030  | 49.0  | A1    | 1.00 | 2.37     |  |
| 9.4      | 115049   | 6C9.0-3030  | 54.0  | A1    | 1.00 | 2.37     |  |
| 9.9      | 115194   | 6C9.5-3030  | 57.0  | A1    | 1.00 | 2.37     |  |
| 10.4     | 115064   | 6C10.0-3030 | 61.0  | A1    | 1.00 | 2.37     |  |
| 10.9     | 115195   | 6C10.5-3030 | 56.0  | A1    | 1.00 | 2.37     |  |
| 11.4     | 115054   | 6C11.0-3030 | 58.0  | A1    | 1.00 | 2.37     |  |
| 12.4     | 115153   | 6C12.0-3030 | 66.0  | A1    | 1.00 | 2.37     |  |
| 13.4     | 115055   | 6C13.0-3030 | 69.0  | A2    | 1.00 | 2.37     |  |
| 14.4     | 115157   | 6C14.0-3535 | 85.0  | A2    | .50  | 2.37     |  |
| 16.4     | 115056   | 6C16.0-3535 | 100.0 | A3    | .50  | 2.37     |  |
| 18.4     | 115062   | 6C18.0-3535 | 115.0 | A3    | .75  | 2.12     |  |
| 20.4     | 115057   | 6C20.0-3535 | 103.0 | A3    | .87  | 2.00     |  |
| 24.4     | 115058   | 6C24.0-3535 | 129.0 | A3    | .87  | 2.00     |  |
| 30.4     | 115059   | 6C30.0-4040 | 195.0 | A3    | 1.00 | 1.37     |  |
| 36.4     | 115060   | 6C36.0-4040 | 243.0 | A3    | 1.00 | 1.37     |  |
| 44.4     | 115061   | 6C44.0-4040 | 315.0 | A3    | 1.00 | 1.37     |  |

| 10-Groove |          |              |       |       |      | F = 10.37 |  |
|-----------|----------|--------------|-------|-------|------|-----------|--|
| O.D.Δ     | Part No. | Description  | Wt.   | Type‡ | E    | M         |  |
| 9.4       | 115351   | 10C9.0-4545  | 84.0  | A1    | 1.50 | 4.37      |  |
| 9.9       | 115352   | 10C9.5-4545  | 101.0 | A1    | 1.50 | 4.37      |  |
| 10.4      | 115353   | 10C10.0-4545 | 104.0 | A1    | 1.50 | 4.37      |  |
| 10.9      | 115354   | 10C10.5-4545 | 108.0 | A1    | 1.50 | 4.37      |  |
| 11.4      | 115355   | 10C11.0-4545 | 128.0 | A1    | 1.50 | 4.37      |  |
| 12.4      | 115356   | 10C12.0-4545 | 148.0 | A1    | 1.50 | 4.37      |  |
| 13.4      | 115349   | 10C13.0-4545 | 168.0 | A1    | 2.00 | 3.87      |  |
| 14.4      | 115357   | 10C14.0-4545 | 205.0 | A1    | 2.00 | 3.87      |  |
| 16.4      | 115358   | 10C16.0-4545 | 237.0 | A1    | 2.00 | 3.87      |  |
| 18.4      | 115359   | 10C18.0-4545 | 270.0 | A3    | 2.00 | 3.87      |  |
| 20.4      | 115360   | 10C20.0-4545 | 176.0 | A3    | 2.00 | 3.87      |  |
| 24.4      | 115361   | 10C24.0-5050 | 242.0 | A3    | 1.50 | 3.87      |  |
| 30.4      | 115123   | 10C30.0-4545 | 303.0 | A3    | 2.00 | 3.87      |  |
| 36.4      | 115124   | 10C36.0-4545 | 375.0 | A3    | 2.00 | 3.87      |  |
| 44.4      | 115125   | 10C44.0-4545 | 484.0 | A3    | 2.00 | 3.87      |  |

| 5-Groove |          |             |       |       |      | F = 5.37 |  |
|----------|----------|-------------|-------|-------|------|----------|--|
| O.D.Δ    | Part No. | Description | Wt.   | Type‡ | E    | M        |  |
| 7.4      | 115140   | 5C7.0-2517  | 23.0  | A1    | 1.50 | 2.12     |  |
| 7.9      | 115141   | 5C7.5-2517  | 25.0  | A1    | 1.50 | 2.12     |  |
| 8.4      | 115142   | 5C8.0-2517  | 30.0  | A1    | 1.50 | 2.12     |  |
| 8.9      | 115143   | 5C8.5-2517  | 32.0  | A1    | 1.50 | 2.12     |  |
| 9.4      | 115033   | 5C9.0-2517  | 35.0  | A1    | 1.50 | 2.12     |  |
| 9.9      | 115192   | 5C9.5-2517  | 36.0  | A1    | 1.50 | 2.12     |  |
| 10.4     | 115048   | 5C10.0-2517 | 39.0  | A1    | 1.50 | 2.12     |  |
| 10.9     | 115193   | 5C10.5-2517 | 42.0  | A1    | 1.50 | 2.12     |  |
| 11.4     | 115038   | 5C11.0-2517 | 43.0  | A1    | 1.50 | 2.12     |  |
| 12.4     | 115152   | 5C12.0-3030 | 58.0  | A1    | .69  | 1.69     |  |
| 13.4     | 115039   | 5C13.0-3030 | 63.0  | A2    | .50  | 1.87     |  |
| 14.4     | 115156   | 5C14.0-3030 | 65.0  | A2    | .50  | 1.87     |  |
| 16.4     | 115040   | 5C16.0-3030 | 86.0  | A3    | .50  | 1.87     |  |
| 18.4     | 115036   | 5C18.0-3030 | 105.0 | A3    | .69  | 1.69     |  |
| 20.4     | 115041   | 5C20.0-3535 | 91.0  | A3    | 0    | 1.87     |  |
| 24.4     | 115042   | 5C24.0-3535 | 114.0 | A3    | .37  | 1.50     |  |
| 30.4     | 115043   | 5C30.0-3535 | 152.0 | A3    | .38  | 1.50     |  |
| 36.4     | 115044   | 5C36.0-4040 | 216.0 | A3    | .25  | 1.12     |  |
| 44.4     | 115045   | 5C44.0-4040 | 278.0 | A3    | .25  | 1.12     |  |

| 8-Groove |          |             |       |       |      | F = 8.37 |  |
|----------|----------|-------------|-------|-------|------|----------|--|
| O.D.Δ    | Part No. | Description | Wt.   | Type‡ | E    | M        |  |
| 8.4      | 115160   | 8C8.0-3030  | 59.0  | A1    | 2.00 | 3.37     |  |
| 8.9      | 115161   | 8C8.5-3030  | 62.0  | A1    | 2.00 | 3.37     |  |
| 9.4      | 115081   | 8C9.0-3535  | 64.0  | A1    | 1.50 | 3.37     |  |
| 9.9      | 115196   | 8C9.5-3535  | 73.0  | A1    | 1.50 | 3.37     |  |
| 10.4     | 115096   | 8C10.0-3535 | 81.0  | A1    | 1.50 | 3.37     |  |
| 10.9     | 115197   | 8C10.5-3535 | 85.0  | A1    | 1.50 | 3.37     |  |
| 11.4     | 115086   | 8C11.0-3535 | 87.0  | A1    | 1.50 | 3.37     |  |
| 12.4     | 115185   | 8C12.0-3535 | 90.0  | A1    | 1.50 | 3.37     |  |
| 13.4     | 115087   | 8C13.0-3535 | 97.0  | A1    | 1.50 | 3.37     |  |
| 14.4     | 115097   | 8C14.0-3535 | 105.0 | A1    | 1.50 | 3.37     |  |
| 16.4     | 115088   | 8C16.0-3535 | 125.0 | A3    | 1.50 | 3.37     |  |
| 18.4     | 115098   | 8C18.0-4040 | 155.0 | A3    | 1.50 | 2.87     |  |
| 20.4     | 115089   | 8C20.0-4040 | 151.0 | A3    | 1.50 | 2.87     |  |
| 24.4     | 115090   | 8C24.0-4040 | 183.0 | A3    | 1.50 | 2.87     |  |
| 30.4     | 115091   | 8C30.0-4040 | 237.0 | A3    | 1.50 | 2.87     |  |
| 36.4     | 115092   | 8C36.0-4545 | 322.0 | A3    | 1.25 | 2.62     |  |
| 44.4     | 115093   | 8C44.0-4545 | 411.0 | A3    | 1.25 | 2.62     |  |

| 12-Groove |          |              |       |       |      | F = 12.37 |  |
|-----------|----------|--------------|-------|-------|------|-----------|--|
| O.D.Δ     | Part No. | Description  | Wt.   | Type‡ | E    | M         |  |
| 9.4       | 115065   | 12C9.0-4040  | 87.0  | A1    | 3.50 | 4.87      |  |
| 9.9       | 115066   | 12C9.5-4040  | 90.0  | A1    | 3.50 | 4.87      |  |
| 10.4      | 115067   | 12C10.0-4040 | 95.0  | A1    | 3.50 | 4.87      |  |
| 10.9      | 115068   | 12C10.5-4040 | 104.0 | A1    | 3.50 | 4.87      |  |
| 11.4      | 115069   | 12C11.0-4040 | 125.0 | A1    | 3.50 | 4.87      |  |
| 12.4      | 115070   | 12C12.0-4040 | 140.0 | A1    | 3.50 | 4.87      |  |
| 13.4      | 115071   | 12C13.0-4545 | 173.0 | A1    | 3.00 | 4.87      |  |
| 14.4      | 115072   | 12C14.0-4545 | 177.0 | A1    | 3.00 | 4.87      |  |

Δ P.D. for "C" Belts = O.D.

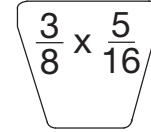
‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-2.





## SELECTION/DIMENSIONS

### 3V QD SHEAVES - Heavy Duty



| 1-Groove |          |              |      |       |      |      | F = * |
|----------|----------|--------------|------|-------|------|------|-------|
| O.D.Δ    | Part No. | Description  | Wt.  | Type‡ | M    | K    |       |
| 2.2      | 455100   | 1/3V2.2-JA   | 0.93 | E1    | 0.50 | 0.51 |       |
| 2.35     | 455101   | 1/3V2.35-JA  | 1.1  | E1    | 0.50 | 0.51 |       |
| 2.5      | 455102   | 1/3V2.5-JA   | 1.2  | E1    | 0.50 | 0.51 |       |
| 2.65     | 455103   | 1/3V2.65-JA  | 1.4  | D1    | 0.14 | 0.37 |       |
| 2.8      | 455104   | 1/3V2.8-JA   | 1.5  | D1    | 0.14 | 0.37 |       |
| 3.0      | 455105   | 1/3V3.00-JA  | 1.6  | D1    | 0.14 | 0.37 |       |
| 3.15     | 455106   | 1/3V3.15-JA  | 1.7  | D1    | 0.14 | 0.37 |       |
| 3.35     | 455107   | 1/3V3.35-JA  | 1.8  | D1    | 0.14 | 0.37 |       |
| 3.65     | 455108   | 1/3V3.65-SH  | 2.2  | D1    | 0.11 | 0.57 |       |
| 4.12     | 455109   | 1/3V4.12-SH  | 2.7  | D1    | 0.05 | 0.63 |       |
| 4.5      | 455110   | 1/3V4.5-SH   | 3.1  | D1    | 0.05 | 0.63 |       |
| 4.75     | 455111   | 1/3V4.75-SH  | 3.4  | D1    | 0.05 | 0.63 |       |
| 5.0      | 455112   | 1/3V5.0-SH   | 3.7  | C1    | 0.00 | 0.68 |       |
| 5.3      | 455113   | 1/3V5.3-SH   | 3.9  | C1    | 0.00 | 0.68 |       |
| 5.6      | 455114   | 1/3V5.6-SH   | 4.4  | C1    | 0.00 | 0.68 |       |
| 6.0      | 455115   | 1/3V6.0-SH   | 4.5  | C1    | 0.00 | 0.68 |       |
| 6.5      | 455116   | 1/3V6.5-SH   | 4.6  | C1    | 0.00 | 0.68 |       |
| 6.9      | 455117   | 1/3V6.9-SH   | 4.8  | C1    | 0.00 | 0.68 |       |
| 8.0      | 455118   | 1/3V8.0-SDS  | 6.6  | C1    | 0.06 | 0.64 |       |
| 10.6     | 455119   | 1/3V10.6-SDS | 8.5  | C2    | 0.12 | 0.58 |       |
| 14.0     | 455120   | 1/3V14.0-SK  | 14.0 | C3    | 0.44 | 1.33 |       |
| 19.0     | 455121   | 1/3V19.0-SK  | 20.0 | C3    | 0.16 | 1.05 |       |

\* F=1.19 2.2 – 2.5, F=1.09 2.65 – 3.65 & 14.0 – 19.0,  
F=0.93 4.12 – 4.75, F=0.81 5.0 – 6

| 2-Groove |          |             |      |       |      |      | F = 1.09 |
|----------|----------|-------------|------|-------|------|------|----------|
| O.D.Δ    | Part No. | Description | Wt.  | Type‡ | M    | K    |          |
| 2.2      | 455122   | 2/3V2.2-JA  | 1.2  | E1    | 0.50 | 0.51 |          |
| 2.35     | 455123   | 2/3V2.35-JA | 1.3  | E1    | 0.50 | 0.51 |          |
| 2.5      | 455124   | 2/3V2.5-JA  | 1.5  | E1    | 0.50 | 0.51 |          |
| 2.65     | 455125   | 2/3V2.65-JA | 1.6  | D1    | 0.14 | 0.37 |          |
| 2.8      | 455126   | 2/3V2.8-JA  | 1.7  | D1    | 0.14 | 0.37 |          |
| 3.0      | 455127   | 2/3V3.0-JA  | 2.0  | D1    | 0.14 | 0.37 |          |
| 3.15     | 455128   | 2/3V3.15-JA | 2.1  | D1    | 0.14 | 0.37 |          |
| 3.35     | 455129   | 2/3V3.35-SH | 2.2  | D1    | 0.11 | 0.57 |          |
| 3.65     | 455130   | 2/3V3.65-SH | 2.6  | D1    | 0.11 | 0.57 |          |
| 4.12     | 455131   | 2/3V4.12-SH | 3.2  | C1    | 0.28 | 0.40 |          |
| 4.5      | 455132   | 2/3V4.5-SH  | 3.8  | C1    | 0.28 | 0.40 |          |
| 4.75     | 455133   | 2/3V4.75-SH | 4.1  | C1    | 0.28 | 0.40 |          |
| 5.0      | 455134   | 2/3V5.0-SH  | 4.6  | C1    | 0.28 | 0.40 |          |
| 5.3      | 455135   | 2/3V5.3-SH  | 5.1  | C1    | 0.28 | 0.40 |          |
| 5.6      | 455136   | 2/3V5.6-SH  | 5.6  | C1    | 0.28 | 0.40 |          |
| 6.0      | 455137   | 2/3V6.0-SH  | 5.8  | C1    | 0.12 | 0.56 |          |
| 6.5      | 455138   | 2/3V6.5-SDS | 6.0  | C1    | 0.34 | 0.36 |          |
| 6.9      | 455139   | 2/3V6.9-SDS | 6.6  | C1    | 0.34 | 0.36 |          |
| 8.0      | 455140   | 2/3V8.0-SDS | 7.8  | C1    | 0.34 | 0.36 |          |
| 10.6     | 455141   | 2/3V10.6-SK | 14.0 | C1    | 0.25 | 0.64 |          |
| 14.0     | 455142   | 2/3V14.0-SK | 17.0 | D3    | 0.25 | 0.64 |          |
| 19.0     | 455143   | 2/3V19.0-SK | 24.0 | D3    | 0.00 | 0.89 |          |
| 25.0     | 455144   | 2/3V25.0-SF | 29.0 | D3    | 0.18 | 0.76 |          |

| 3-Groove |          |              |      |       |      |      | F = 1.50 |
|----------|----------|--------------|------|-------|------|------|----------|
| O.D.Δ    | Part No. | Description  | Wt.  | Type‡ | M    | K    |          |
| 2.5      | 455145   | 3/3V2.50-JA  | 1.9  | E1    | 0.44 | 0.51 |          |
| 2.65     | 455146   | 3/3V2.65-JA  | 1.9  | E1    | 0.00 | 0.51 |          |
| 2.8      | 455147   | 3/3V2.80-JA  | 2.2  | E1    | 0.00 | 0.51 |          |
| 3.0      | 455148   | 3/3V3.00-SH  | 2.6  | E1    | 0.52 | 0.68 |          |
| 3.15     | 455149   | 3/3V3.15-SH  | 2.8  | E1    | 0.52 | 0.68 |          |
| 3.35     | 455150   | 3/3V3.35-SH  | 3.0  | D1    | 0.11 | 0.57 |          |
| 3.65     | 455151   | 3/3V3.65-SH  | 3.2  | D1    | 0.11 | 0.57 |          |
| 4.12     | 455152   | 3/3V4.12-SH  | 3.6  | B1    | 0.69 | 0.01 |          |
| 4.5      | 455153   | 3/3V4.50-SDS | 4.3  | B1    | 0.75 | 0.05 |          |
| 4.75     | 455154   | 3/3V4.75-SDS | 4.8  | B1    | 0.75 | 0.05 |          |
| 5.0      | 455155   | 3/3V5.0-SDS  | 5.1  | B1    | 0.75 | 0.05 |          |
| 5.3      | 455156   | 3/3V5.3-SDS  | 5.8  | B1    | 0.75 | 0.05 |          |
| 5.6      | 455157   | 3/3V5.6-SDS  | 6.5  | B1    | 0.75 | 0.05 |          |
| 6.0      | 455158   | 3/3V6.0-SDS  | 7.5  | D1    | 0.56 | 0.14 |          |
| 6.5      | 455159   | 3/3V6.5-SDS  | 7.8  | B1    | 0.75 | 0.05 |          |
| 6.9      | 455160   | 3/3V6.9-SDS  | 8.0  | B1    | 0.75 | 0.05 |          |
| 8.0      | 455161   | 3/3V8.0-SK   | 12.0 | C1    | 0.25 | 0.64 |          |
| 10.6     | 455162   | 3/3V10.6-SK  | 15.0 | D2    | 0.25 | 0.64 |          |
| 14.0     | 455163   | 3/3V14.0-SK  | 21.0 | C3    | 0.25 | 0.64 |          |
| 19.0     | 455164   | 3/3V19.0-SF  | 36.0 | C3    | 0.25 | 0.69 |          |
| 25.0     | 455165   | 3/3V25.0-SF  | 35.0 | C3    | 0.25 | 0.69 |          |
| 33.5     | 455166   | 3/3V33.5-SF  | 52.0 | C3    | 0.25 | 0.69 |          |

| 4-Groove |          |              |      |       |      |      | F = 1.90 |
|----------|----------|--------------|------|-------|------|------|----------|
| O.D.Δ    | Part No. | Description  | Wt.  | Type‡ | M    | K    |          |
| 2.65     | 455167   | 4/3V2.65-JA  | 2.2  | E1    | 0.00 | 0.51 |          |
| 2.8      | 455168   | 4/3V2.8-JA   | 2.4  | E1    | 0.00 | 0.51 |          |
| 3.0      | 455169   | 4/3V3.0-SH   | 2.8  | E1    | 0.38 | 0.68 |          |
| 3.15     | 455170   | 4/3V3.15-SH  | 3.1  | E1    | 0.38 | 0.68 |          |
| 3.35     | 455171   | 4/3V3.35-SH  | 3.3  | E1    | 0.38 | 0.68 |          |
| 3.65     | 455172   | 4/3V3.65-SH  | 3.8  | E1    | 0.38 | 0.68 |          |
| 4.12     | 455173   | 4/3V4.12-SH  | 4.1  | A1    | 1.09 | 0.41 |          |
| 4.5      | 455174   | 4/3V4.5-SDS  | 4.6  | A1    | 1.15 | 0.45 |          |
| 4.75     | 455175   | 4/3V4.75-SDS | 5.3  | A1    | 1.15 | 0.45 |          |
| 5.0      | 455176   | 4/3V5.0-SDS  | 5.6  | A1    | 1.15 | 0.45 |          |
| 5.3      | 455177   | 4/3V5.3-SDS  | 6.4  | A1    | 1.15 | 0.45 |          |
| 5.6      | 455178   | 4/3V5.6-SDS  | 6.9  | A1    | 1.15 | 0.45 |          |
| 6.0      | 455179   | 4/3V6.0-SK   | 9.4  | D1    | 0.50 | 0.39 |          |
| 6.5      | 455180   | 4/3V6.5-SK   | 9.5  | C1    | 0.66 | 0.23 |          |
| 6.9      | 455181   | 4/3V6.9-SK   | 11.0 | C1    | 0.66 | 0.23 |          |
| 8.0      | 455182   | 4/3V8.0-SK   | 13.0 | C1    | 0.66 | 0.23 |          |
| 10.6     | 455183   | 4/3V10.6-SK  | 18.0 | D2    | 0.66 | 0.23 |          |
| 14.0     | 455184   | 4/3V14.0-SK  | 24.0 | D3    | 0.63 | 0.27 |          |
| 19.0     | 455185   | 4/3V19.0-SF  | 40.0 | D3    | 0.50 | 0.44 |          |
| 25.0     | 455186   | 4/3V25.0-SF  | 41.0 | D3    | 0.63 | 0.31 |          |
| 33.5     | 455187   | 4/3V33.5-E   | 65.0 | C3    | 0.34 | 0.86 |          |

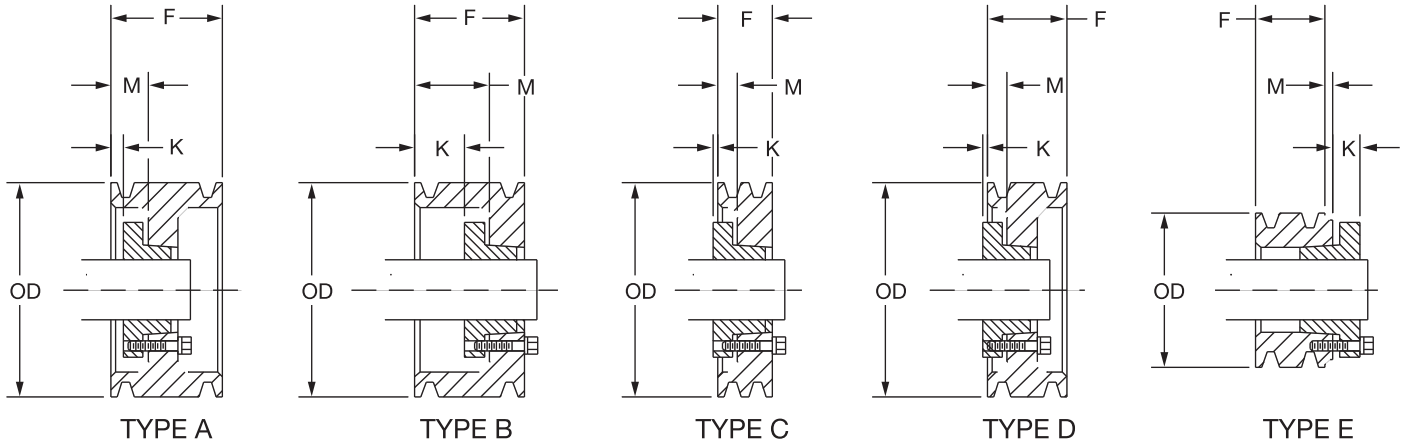
Δ Pitch Diameter = O.D. - .05"

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-2.

# SELECTION/DIMENSIONS



## 3V QD SHEAVES - Heavy Duty



| 5-Groove |          | F = 2.31     |      |       |      |      |
|----------|----------|--------------|------|-------|------|------|
| O.D.Δ    | Part No. | Description  | Wt.  | Type‡ | M    | K    |
| 4.75     | 455188   | 5/3V4.75-SDS | 5.9  | A1    | 0.75 | 0.05 |
| 5.0      | 455189   | 5/3V5.0-SDS  | 6.3  | A1    | 0.75 | 0.05 |
| 5.3      | 455190   | 5/3B5.3-SK   | 8.0  | A1    | 0.94 | 0.05 |
| 5.6      | 455191   | 5/3V5.6-SK   | 9.0  | A1    | 0.94 | 0.05 |
| 6.0      | 455192   | 5/3V6.0-SK   | 11.0 | A1    | 0.94 | 0.05 |
| 6.5      | 455193   | 5/3V6.5-SK   | 11.0 | A1    | 0.94 | 0.05 |
| 6.9      | 455194   | 5/3V6.9-SK   | 12.0 | A1    | 0.94 | 0.05 |
| 8.0      | 455195   | 5/3V8.0-SK   | 15.0 | A1    | 0.94 | 0.05 |
| 10.6     | 455196   | 5/3V10.6-SK  | 20.0 | A1    | 0.94 | 0.05 |
| 14.0     | 455197   | 5/3V14.0-SF  | 31.0 | D3    | 0.63 | 0.32 |
| 19.0     | 455198   | 5/3V19.0-SF  | 46.0 | D3    | 0.63 | 0.31 |
| 25.0     | 455199   | 5/3V25.0-E   | 50.0 | C3    | 0.63 | 0.57 |
| 33.5     | 455200   | 5/3V33.5-E   | 74.0 | C3    | 0.63 | 0.57 |

| 6-Groove |          | F = 2.72    |      |       |      |      |
|----------|----------|-------------|------|-------|------|------|
| O.D.Δ    | Part No. | Description | Wt.  | Type‡ | M    | K    |
| 4.75     | 455201   | 6/3V4.75-SK | 7.1  | E1    | 0.00 | 0.89 |
| 5.0      | 455202   | 6/3V5.0-SK  | 7.8  | E1    | 0.00 | 0.89 |
| 5.3      | 455203   | 6/3V5.3-SK  | 8.6  | A1    | 1.31 | 0.42 |
| 5.6      | 455204   | 6/3V5.6-SK  | 8.8  | A1    | 1.31 | 0.42 |
| 6.0      | 455205   | 6/3V6.0-SK  | 11.0 | A1    | 1.31 | 0.42 |
| 6.5      | 455206   | 6/3V6.5-SK  | 12.0 | A1    | 1.31 | 0.42 |
| 6.9      | 455207   | 6/3V6.9-SK  | 13.0 | A1    | 1.31 | 0.42 |
| 8.0      | 455208   | 6/3V8.0-SK  | 17.0 | D1    | 0.59 | 0.30 |
| 10.6     | 455209   | 6/3V10.6-SF | 23.0 | D1    | 0.88 | 0.07 |
| 14.0     | 455210   | 6/3V14.0-SF | 33.0 | D3    | 0.88 | 0.06 |
| 19.0     | 455211   | 6/3V19.0-E  | 62.0 | D3    | 0.88 | 0.32 |
| 25.0     | 455212   | 6/3V25.0-E  | 56.0 | D3    | 1.00 | 0.20 |
| 33.5     | 455213   | 6/3V33.5-E  | 83.0 | D3    | 1.00 | 0.20 |

| 8-Groove |          | F = 3.53    |      |       |      |      |
|----------|----------|-------------|------|-------|------|------|
| O.D.Δ    | Part No. | Description | Wt.  | Type‡ | M    | K    |
| 4.75     | 455214   | 8/3V4.75-SK | 8.4  | E1    | 0.00 | 0.89 |
| 5.0      | 455215   | 8/3V5.0-SK  | 8.6  | E1    | 0.00 | 0.89 |
| 5.3      | 455216   | 8/3V5.3-SK  | 10.0 | A1    | 1.31 | 0.42 |
| 5.6      | 455217   | 8/3V5.6-SK  | 11.0 | A1    | 1.31 | 0.42 |
| 6.0      | 455218   | 8/3V6.0-SK  | 13.0 | A1    | 1.31 | 0.42 |
| 6.5      | 455219   | 8/3V6.5-SK  | 15.0 | A1    | 1.31 | 0.42 |
| 6.9      | 455220   | 8/3V6.9-SK  | 15.0 | A1    | 1.53 | 0.64 |
| 8.0      | 455221   | 8/3V8.0-SF  | 20.0 | A1    | 1.31 | 0.37 |
| 10.6     | 455222   | 8/3V10.6-SF | 29.0 | A2    | 1.12 | 0.18 |
| 14.0     | 455223   | 8/3V14.0-E  | 51.0 | A3    | 1.25 | 0.05 |
| 19.0     | 455224   | 8/3V19.0-E  | 70.0 | D3    | 1.12 | 0.08 |
| 25.0     | 455225   | 8/3V25.0-E  | 67.0 | A3    | 1.25 | 0.05 |
| 33.5     | 455226   | 8/3V33.5-F  | 98.0 | D3    | 1.06 | 0.36 |

| 10-Groove |          | F = 4.34     |       |       |      |      |
|-----------|----------|--------------|-------|-------|------|------|
| O.D.Δ     | Part No. | Description  | Wt.   | Type‡ | M    | K    |
| 4.75      | 455227   | 10/3V4.75-SK | 9.7   | E1    | 0.00 | 0.89 |
| 5.0       | 455228   | 10/3V5.0-SK  | 11.0  | E1    | 0.00 | 0.89 |
| 5.3       | 455229   | 10/3V5.3-SK  | 12.0  | A1    | 1.44 | 0.55 |
| 5.6       | 455230   | 10/3V5.6-SK  | 13.0  | A1    | 1.44 | 0.55 |
| 6.0       | 455231   | 10/3V6.0-SK  | 15.0  | A1    | 1.44 | 0.55 |
| 6.5       | 455232   | 10/3V6.5-SK  | 16.0  | A1    | 1.44 | 0.55 |
| 6.9       | 455233   | 10/3V6.9-SK  | 18.0  | A1    | 1.44 | 0.55 |
| 8.0       | 455234   | 10/3V8.0-SF  | 22.0  | A1    | 1.63 | 0.69 |
| 10.6      | 455235   | 10/3V10.6-E  | 41.0  | A1    | 1.25 | 0.05 |
| 14.0      | 455236   | 10/3V14.0-E  | 55.0  | A2    | 1.25 | 0.05 |
| 19.0      | 455237   | 10/3V19.0-E  | 80.0  | A3    | 1.25 | 0.05 |
| 25.0      | 455238   | 10/3V25.0-F  | 83.0  | D3    | 1.31 | 0.11 |
| 33.5      | 455239   | 10/3V33.5-F  | 124.0 | D3    | 1.31 | 0.11 |

Δ Pitch Diameter = O.D. - .05"

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-2.

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets





# SELECTION/DIMENSIONS

## 5V QD SHEAVES - Heavy Duty

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets

| 2-Groove |          |              |      |       |      |      | F = 1.69 |  |
|----------|----------|--------------|------|-------|------|------|----------|--|
| O.D.Δ    | Part No. | Description  | Wt.  | Type‡ | M    | K    |          |  |
| ++4.4    | 455240   | 2/5V4.4-SH   | 4.0  | D1    | 0.19 | 0.49 |          |  |
| ++4.65   | 455241   | 2/5V4.65-SDS | 4.4  | E1    | 0.19 | 0.70 |          |  |
| ++4.9    | 455242   | 2/5V4.9-SDS  | 5.1  | E1    | 0.19 | 0.51 |          |  |
| ++5.2    | 455243   | 2/5V5.2-SDS  | 5.7  | D1    | 0.69 | 0.01 |          |  |
| ++5.5    | 455244   | 2/5V5.5-SDS  | 5.9  | D1    | 0.69 | 0.01 |          |  |
| ++5.9    | 455245   | 2/5V5.9-SDS  | 6.8  | D1    | 0.69 | 0.01 |          |  |
| ++6.3    | 455246   | 2/5V6.3-SK   | 10.0 | C1    | 0.44 | 0.45 |          |  |
| ++6.7    | 455247   | 2/5V6.7-SK   | 13.0 | C1    | 0.44 | 0.45 |          |  |
| 7.1      | 455248   | 2/5V7.1-SK   | 10.0 | C1    | 0.44 | 0.45 |          |  |
| 7.5      | 455249   | 2/5V7.5-SK   | 12.0 | C1    | 0.44 | 0.45 |          |  |
| 8.0      | 455250   | 2/5V8.0-SK   | 10.0 | C1    | 0.44 | 0.45 |          |  |
| 8.5      | 455251   | 2/5V8.5-SK   | 11.0 | C2    | 0.44 | 0.45 |          |  |
| 9.0      | 455252   | 2/5V9.0-SK   | 12.0 | C2    | 0.44 | 0.45 |          |  |
| 9.25     | 455253   | 2/5V9.25-SK  | 13.0 | C1    | 0.44 | 0.45 |          |  |
| 9.75     | 455254   | 2/5V9.75-SK  | 13.0 | C1    | 0.44 | 0.45 |          |  |
| 10.3     | 455255   | 2/5V10.3-SK  | 15.0 | C2    | 0.44 | 0.45 |          |  |
| 10.9     | 455256   | 2/5V10.9-SK  | 16.0 | C2    | 0.44 | 0.45 |          |  |
| 11.3     | 455257   | 2/5V11.3-SK  | 19.0 | C2    | 0.44 | 0.45 |          |  |
| 11.8     | 455258   | 2/5V11.8-SK  | 18.0 | C2    | 0.44 | 0.45 |          |  |
| 12.5     | 455259   | 2/5V12.5-SF  | 20.0 | C2    | 0.44 | 0.50 |          |  |
| 13.2     | 455260   | 2/5V13.2-SF  | 21.0 | D3    | 0.31 | 0.63 |          |  |
| 14.0     | 455261   | 2/5V14.0-SF  | 23.0 | D3    | 0.31 | 0.63 |          |  |
| 15.0     | 455262   | 2/5V15.0-SF  | 26.0 | D3    | 0.31 | 0.63 |          |  |
| 16.0     | 455263   | 2/5V16.0-SF  | 29.0 | D3    | 0.31 | 0.63 |          |  |
| 18.7     | 455264   | 2/5V18.7-SF  | 39.0 | D3    | 0.31 | 0.63 |          |  |
| 21.2     | 455265   | 2/5V21.2-SF  | 39.0 | C3    | 0.44 | 0.50 |          |  |
| 23.6     | 455266   | 2/5V23.6-E   | 48.0 | D3    | 0.25 | 0.95 |          |  |
| 28.0     | 455267   | 2/5V28.0-E   | 60.0 | D3    | 0.25 | 0.95 |          |  |
| 31.5     | ---      | ---          | ---  | ---   | ---  | ---  |          |  |
| 37.5     | ---      | ---          | ---  | ---   | ---  | ---  |          |  |
| 50.0     | ---      | ---          | ---  | ---   | ---  | ---  |          |  |

| 4-Groove |          |             |       |       |      |      | F = 3.06 |  |
|----------|----------|-------------|-------|-------|------|------|----------|--|
| O.D.Δ    | Part No. | Description | Wt.   | Type‡ | M    | K    |          |  |
| ++4.4    | 455300   | 4/5V4.40-SD | 6.8   | E1    | 0.00 | 0.70 |          |  |
| ++4.65   | 455301   | 4/5V4.65-SD | 7.7   | E1    | 0.00 | 0.70 |          |  |
| ++4.9    | 455302   | 4/5V4.90-SD | 8.0   | A1    | 1.31 | 0.61 |          |  |
| ++5.2    | 455303   | 4/5V5.20-SD | 8.7   | A1    | 1.31 | 0.61 |          |  |
| ++5.5    | 455304   | 4/5V5.50-SD | 9.7   | A1    | 1.31 | 0.61 |          |  |
| ++5.9    | 455305   | 4/5V5.90-SD | 11.0  | A1    | 1.31 | 0.61 |          |  |
| ++6.3    | 455306   | 4/5V6.30-SK | 13.0  | A1    | 1.31 | 0.42 |          |  |
| ++6.7    | 455307   | 4/5V6.70-SK | 14.0  | A1    | 1.31 | 0.42 |          |  |
| 7.1      | 455308   | 4/5V7.1-SF  | 17.0  | A1    | 1.31 | 0.37 |          |  |
| 7.5      | 455309   | 4/5V7.5-SF  | 20.0  | A1    | 1.06 | 0.12 |          |  |
| 8.0      | 455310   | 4/5V8.0-E   | 28.0  | B1    | 1.44 | 0.24 |          |  |
| 8.5      | 455311   | 4/5V8.5-E   | 30.0  | B1    | 1.44 | 0.24 |          |  |
| 9.0      | 455312   | 4/5V9.0-E   | 33.0  | B1    | 1.44 | 0.24 |          |  |
| 9.25     | 455313   | 4/5V9.25-E  | 36.0  | B1    | 1.44 | 0.24 |          |  |
| 9.75     | 455314   | 4/5V9.75-E  | 36.0  | B1    | 1.44 | 0.24 |          |  |
| 10.3     | 455315   | 4/5V10.3-E  | 37.0  | B1    | 1.44 | 0.24 |          |  |
| 10.9     | 455316   | 4/5V10.9-E  | 40.0  | B1    | 1.44 | 0.24 |          |  |
| 11.3     | 455317   | 4/5V11.3-E  | 39.0  | B1    | 1.44 | 0.24 |          |  |
| 11.8     | 455318   | 4/5V11.8-E  | 42.0  | B2    | 1.44 | 0.24 |          |  |
| 12.5     | 455319   | 4/5V12.5-E  | 43.0  | B2    | 1.44 | 0.24 |          |  |
| 13.2     | 455320   | 4/5V13.2-E  | 44.0  | A3    | 1.06 | 0.14 |          |  |
| 14.0     | 455321   | 4/5V14.0-E  | 47.0  | A3    | 1.31 | 0.11 |          |  |
| 15.0     | 455322   | 4/5V15.0-E  | 50.0  | A3    | 1.31 | 0.11 |          |  |
| 16.0     | 455323   | 4/5V16.0-E  | 51.0  | A3    | 1.31 | 0.11 |          |  |
| 18.7     | 455324   | 4/5V18.7-E  | 63.0  | A3    | 1.31 | 0.11 |          |  |
| 21.2     | 455325   | 4/5V21.2-E  | 62.0  | D3    | 0.88 | 0.32 |          |  |
| 23.6     | 455326   | 4/5V23.6-F  | 75.0  | D3    | 0.88 | 0.54 |          |  |
| 28.0     | 455327   | 4/5V28.0-F  | 94.0  | D3    | 0.88 | 0.54 |          |  |
| 31.5     | 455328   | 4/5V31.5-F  | 111.0 | D3    | 0.88 | 0.54 |          |  |
| 37.5     | 455329   | 4/5V37.5-F  | 144.0 | D3    | 0.88 | 0.54 |          |  |
| 50.0     | 455330   | 4/5V50.0-J  | 267.0 | D3    | 0.69 | 0.91 |          |  |

| 3-Groove |          |              |       |       |      |      | F = 2.38 |  |
|----------|----------|--------------|-------|-------|------|------|----------|--|
| O.D.Δ    | Part No. | Description  | Wt.   | Type‡ | M    | K    |          |  |
| ++4.4    | 455268   | 3/5V4.4-SDS  | 5.7   | E1    | 0.00 | 0.70 |          |  |
| ++4.65   | 455269   | 3/5V4.65-SDS | 6.2   | E1    | 0.00 | 0.70 |          |  |
| ++4.9    | 455270   | 3/5V4.9-SDS  | 6.3   | A1    | 1.06 | 0.36 |          |  |
| ++5.2    | 455271   | 3/5V5.2-SDS  | 6.8   | A1    | 1.06 | 0.36 |          |  |
| ++5.5    | 455272   | 3/5V5.5-SDS  | 7.7   | A1    | 1.06 | 0.36 |          |  |
| ++5.9    | 455273   | 3/5V5.9-SDS  | 8.3   | A1    | 1.06 | 0.36 |          |  |
| ++6.3    | 455274   | 3/5V6.3-SK   | 12.0  | B1    | 1.13 | 0.24 |          |  |
| ++6.7    | 455275   | 3/5V6.7-SK   | 13.0  | B1    | 1.13 | 0.24 |          |  |
| 7.1      | 455276   | 3/5V7.1-SF   | 15.0  | A1    | 1.00 | 0.06 |          |  |
| 7.5      | 455277   | 3/5V7.5-SF   | 17.0  | A1    | 1.00 | 0.06 |          |  |
| 8.0      | 455278   | 3/5V8.0-SF   | 19.0  | A1    | 1.00 | 0.06 |          |  |
| 8.5      | 455279   | 3/5V8.5-SF   | 21.0  | D1    | 0.81 | 0.13 |          |  |
| 9.0      | 455280   | 3/5V9.0-SF   | 22.0  | D1    | 0.81 | 0.13 |          |  |
| 9.25     | 455281   | 3/5V9.25-SF  | 23.0  | A1    | 1.00 | 0.06 |          |  |
| 9.75     | 455282   | 3/5V9.75-SF  | 23.0  | A2    | 1.13 | 0.19 |          |  |
| 10.3     | 455284   | 3/5V10.3-SF  | 25.0  | A2    | 1.00 | 0.06 |          |  |
| 10.9     | 455285   | 3/5V10.9-SF  | 27.0  | D2    | 0.81 | 0.13 |          |  |
| 11.3     | 455286   | 3/5V11.3-SF  | 25.0  | D2    | 0.81 | 0.13 |          |  |
| 11.8     | 455287   | 3/5V11.8-SF  | 28.0  | A2    | 1.00 | 0.06 |          |  |
| 12.5     | 455288   | 3/5V12.5-E   | 36.0  | D2    | 0.56 | 0.64 |          |  |
| 13.2     | 455289   | 3/5V13.2-E   | 38.0  | C2    | 0.75 | 0.45 |          |  |
| 14.0     | 455290   | 3/5V14.0-E   | 46.0  | D3    | 0.56 | 0.64 |          |  |
| 15.0     | 455291   | 3/5V15.0-E   | 48.0  | D3    | 0.63 | 0.57 |          |  |
| 16.0     | 455292   | 3/5V16.0-E   | 50.0  | D3    | 0.63 | 0.57 |          |  |
| 18.7     | 455293   | 3/5V18.7-E   | 54.0  | D3    | 0.50 | 0.70 |          |  |
| 21.2     | 455294   | 3/5V21.2-E   | 62.0  | C3    | 0.75 | 0.45 |          |  |
| 23.6     | 455295   | 3/5V23.6-E   | 79.0  | C3    | 0.75 | 0.45 |          |  |
| 28.0     | 455296   | 3/5V28.0-E   | 85.0  | C3    | 0.75 | 0.45 |          |  |
| 31.5     | 455297   | 3/5V31.5-F   | 124.0 | D3    | 0.56 | 0.86 |          |  |
| 37.5     | 455298   | 3/5V37.5-F   | 143.0 | D3    | 0.56 | 0.86 |          |  |
| 50.0     | 455299   | 3/5V50.0-F   | 218.0 | D3    | 0.31 | 1.11 |          |  |

| 5-Groove |          |             |       |       |      |      | F = 3.75 |  |
|----------|----------|-------------|-------|-------|------|------|----------|--|
| O.D.Δ    | Part No. | Description | Wt.   | Type‡ | M    | K    |          |  |
| ++4.4    | 455331   | 5/5V4.4-SD  | 8.0   | E1    | 0.00 | 0.70 |          |  |
| ++4.65   | 455332   | 5/5V4.65-SD | 8.5   | E1    | 0.00 | 0.70 |          |  |
| ++4.9    | 455333   | 5/5V4.9-SD  | 10.0  | E1    | 0.00 | 0.70 |          |  |
| ++5.2    | 455334   | 5/5V5.2-SD  | 11.0  | A1    | 1.31 | 0.61 |          |  |
| ++5.5    | 455335   | 5/5V5.5-SD  | 11.0  | A1    | 1.31 | 0.61 |          |  |
| ++5.9    | 455336   | 5/5V5.9-SK  | 13.0  | A1    | 1.31 | 0.42 |          |  |
| ++6.3    | 455337   | 5/5V6.3-SK  | 15.0  | A1    | 1.31 | 0.42 |          |  |
| ++6.7    | 455338   | 5/5V6.7-SF  | 16.0  | A1    | 1.19 | 0.25 |          |  |
| 7.1      | 455339   | 5/5V7.1-SF  | 19.0  | A1    | 1.19 | 0.25 |          |  |
| 7.5      | 455340   | 5/5V7.5-SF  | 21.0  | A1    | 1.19 | 0.25 |          |  |
| 8.0      | 455341   | 5/5V8.0-E   | 30.0  | A1    | 1.38 | 0.18 |          |  |
| 8.5      | 455342   | 5/5V8.5-E   | 33.0  | A1    | 1.38 | 0.18 |          |  |
| 9.0      | 455343   | 5/5V9.0-E   | 36.0  | A1    | 1.38 | 0.18 |          |  |
| 9.25     | 455344   | 5/5V9.25-E  | 38.0  | A1    | 1.38 | 0.18 |          |  |
| 9.75     | 455345   | 5/5V9.75-E  | 38.0  | A1    | 1.38 | 0.18 |          |  |
| 10.3     | 455346   | 5/5V10.3-E  | 41.0  | A1    | 1.38 | 0.18 |          |  |
| 10.9     | 455347   | 5/5V10.9-E  | 45.0  | A1    | 1.38 | 0.18 |          |  |
| 11.3     | 455348   | 5/5V11.3-E  | 42.0  | A1    | 1.38 | 0.18 |          |  |
| 11.8     | 455349   | 5/5V11.8-E  | 45.0  | A2    | 1.38 | 0.18 |          |  |
| 12.5     | 455350   | 5/5V12.5-E  | 55.0  | A2    | 1.38 | 0.18 |          |  |
| 13.2     | 455351   | 5/5V13.2-E  | 58.0  | A2    | 1.38 | 0.18 |          |  |
| 14.0     | 455352   | 5/5V14.0-E  | 60.0  | A2    | 1.38 | 0.18 |          |  |
| 15.0     | 455353   | 5/5V15.0-E  | 61.0  | A3    | 1.31 | 0.11 |          |  |
| 16.0     | 455354   | 5/5V16.0-E  | 67.0  | A3    | 1.25 | 0.05 |          |  |
| 18.7     | 455355   | 5/5V18.7-F  | 92.0  | C3    | 1.31 | 0.11 |          |  |
| 21.2     | 455356   | 5/5V21.2-F  | 77.0  | C3    | 1.31 | 0.11 |          |  |
| 23.6     | 455357   | 5/5V23.6-F  | 88.0  | C3    | 1.31 | 0.11 |          |  |
| 28.0     | 455358   | 5/5V28.0-F  | 111.0 | D3    | 1.08 | 0.34 |          |  |
| 31.5     | 455359   | 5/5V31.5-J  | 150.0 | D3    | 1.00 | 0.60 |          |  |
| 37.5     | 455360   | 5/5V37.5-J  | 186.0 | D3    | 0.81 | 0.79 |          |  |
| 50.0     | 455361   | 5/5V50.0-J  | 273.0 | D3    | 1.00 | 0.60 |          |  |

Δ Pitch diameter = O.D. - .10" . . . >.000

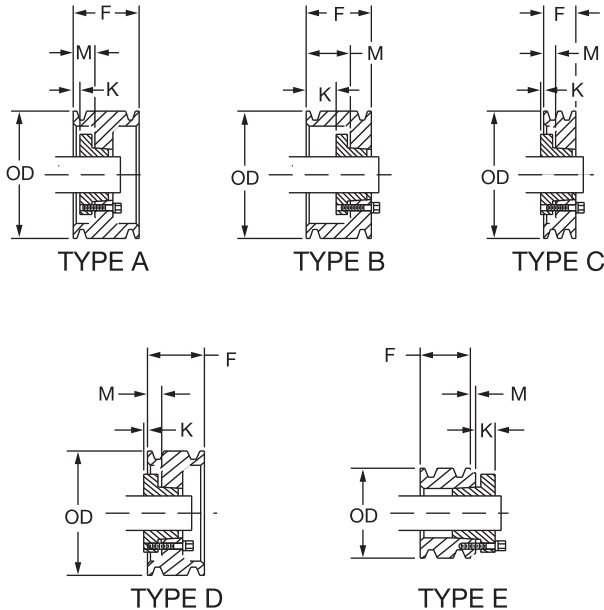
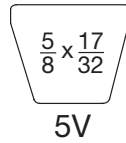
‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-2.

++ 5VX Belts only on these sizes.

# SELECTION/DIMENSIONS



## 5V QD SHEAVES - Heavy Duty



| 8-Groove |          |             |       |       |      |      | F = 5.81 |
|----------|----------|-------------|-------|-------|------|------|----------|
| O.D.Δ    | Part No. | Description | Wt.   | Type‡ | M    | K    |          |
| 7.1      | 455393   | 8/5V7.1-SF  | 24.0  | A1    | 2.13 | 1.19 |          |
| 7.5      | 455394   | 8/5V7.5-SF  | 28.0  | A1    | 2.13 | 1.19 |          |
| 8.0      | 455395   | 8/5V8.0-E   | 36.0  | A1    | 2.50 | 1.30 |          |
| 8.5      | 455396   | 8/5V8.5-E   | 39.0  | A1    | 2.50 | 1.30 |          |
| 9.0      | 455397   | 8/5V9.0-E   | 43.0  | A1    | 2.50 | 1.30 |          |
| 9.25     | 455398   | 8/5V9.25-F  | 55.0  | A1    | 2.31 | 0.89 |          |
| 9.75     | 455399   | 8/5V9.75-F  | 56.0  | A1    | 2.31 | 0.89 |          |
| 10.3     | 455400   | 8/5V10.3-F  | 60.0  | A1    | 2.31 | 0.89 |          |
| 10.9     | 455401   | 8/5V10.9-F  | 65.0  | A1    | 2.31 | 0.89 |          |
| 11.3     | 455402   | 8/5V11.3-F  | 70.0  | A1    | 2.31 | 0.89 |          |
| 11.8     | 455403   | 8/5V11.8-F  | 67.0  | A1    | 2.31 | 0.89 |          |
| 12.5     | 455404   | 8/5V12.5-F  | 76.0  | A1    | 2.56 | 1.14 |          |
| 13.2     | 455405   | 8/5V13.2-F  | 77.0  | A1    | 2.56 | 1.14 |          |
| 14.0     | 455406   | 8/5V14.0-F  | 77.0  | A1    | 2.44 | 1.02 |          |
| 15.0     | 455407   | 8/5V15.0-F  | 85.0  | A2    | 2.44 | 1.02 |          |
| 16.0     | 455408   | 8/5V16.0-F  | 90.0  | A3    | 2.38 | 0.96 |          |
| 18.7     | 455409   | 8/5V18.7-J  | 138.0 | A3    | 2.91 | 1.31 |          |
| 21.2     | 455410   | 8/5V21.2-J  | 126.0 | D3    | 1.56 | 0.04 |          |
| 23.6     | 455411   | 8/5V23.6-J  | 141.0 | D3    | 1.56 | 0.04 |          |
| 28.0     | 455412   | 8/5V28.0-J  | 172.0 | D3    | 1.56 | 0.04 |          |
| 31.5     | 455413   | 8/5V31.5-M  | 246.0 | A3    | 1.94 | 0.20 |          |
| 37.5     | 455414   | 8/5V37.5-M  | 296.0 | A3    | 1.94 | 0.20 |          |
| 50.0     | 455415   | 8/5V50.0-M  | 419.0 | A3    | 1.94 | 0.20 |          |

Δ Pitch diameter = O.D. - .10"

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See drawings page PT7-2.

++ 5VX Belts only on these sizes.

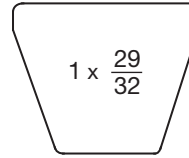
| 6-Groove |          |             |       |       |      |      | F = 4.44 |
|----------|----------|-------------|-------|-------|------|------|----------|
| O.D.Δ    | Part No. | Description | Wt.   | Type‡ | M    | K    |          |
| ++4.4    | 455362   | 6/5V4.40-SD | 9.0   | E1    | 0.00 | 0.70 |          |
| ++4.65   | 455363   | 6/5V4.65-SD | 10.0  | E1    | 0.00 | 0.70 |          |
| ++4.90   | 455364   | 6/5V4.90-SD | 11.0  | E1    | 0.00 | 0.70 |          |
| ++5.20   | 455365   | 6/5V5.20-SD | 12.0  | A1    | 1.31 | 0.61 |          |
| ++5.50   | 455366   | 6/5V5.50-SD | 13.0  | A1    | 1.31 | 0.61 |          |
| ++5.90   | 455367   | 6/5V5.90-SK | 14.0  | A1    | 1.31 | 0.42 |          |
| ++6.30   | 455368   | 6/5V6.30-SK | 16.0  | A1    | 1.31 | 0.42 |          |
| ++6.70   | 455369   | 6/5V6.70-SF | 19.0  | A1    | 1.69 | 0.75 |          |
| 7.1      | 455370   | 6/5V7.1-SF  | 21.0  | A1    | 1.63 | 0.68 |          |
| 7.5      | 455371   | 6/5V7.5-SF  | 24.0  | A1    | 1.63 | 0.68 |          |
| 8.0      | 455372   | 6/5V8.0-E   | 32.0  | A1    | 2.00 | 0.80 |          |
| 8.5      | 455373   | 6/5V8.5-E   | 34.0  | A1    | 2.00 | 0.80 |          |
| 9.0      | 455374   | 6/5V9.0-E   | 38.0  | A1    | 2.00 | 0.80 |          |
| 9.25     | 455375   | 6/5V9.25-E  | 40.0  | A1    | 2.00 | 0.80 |          |
| 9.75     | 455376   | 6/5V9.75-E  | 41.0  | A1    | 2.00 | 0.80 |          |
| 10.3     | 455377   | 6/5V10.3-E  | 44.0  | A1    | 2.00 | 0.80 |          |
| 10.9     | 455378   | 6/5V10.9-E  | 49.0  | A1    | 2.00 | 0.80 |          |
| 11.3     | 455379   | 6/5V11.3-E  | 47.0  | A1    | 2.00 | 0.80 |          |
| 11.8     | 455380   | 6/5V11.8E   | 49.0  | A2    | 2.00 | 0.80 |          |
| 12.5     | 455381   | 6/5V12.5-F  | 63.0  | B2    | 2.06 | 0.64 |          |
| 13.2     | 455382   | 6/5V13.2-F  | 64.0  | B2    | 2.06 | 0.64 |          |
| 14.0     | 455383   | 6/5V14.0-F  | 73.0  | B2    | 2.06 | 0.64 |          |
| 15.0     | 455384   | 6/5V15.0-F  | 75.0  | D2    | 1.31 | 0.11 |          |
| 16.0     | 455385   | 6/5V16.0-F  | 91.0  | B3    | 1.88 | 0.46 |          |
| 18.7     | 455386   | 6/5V18.7-F  | 99.0  | A3    | 1.44 | 0.02 |          |
| 21.2     | 455387   | 6/5V21.2-F  | 86.0  | D3    | 1.31 | 0.11 |          |
| 23.6     | 455388   | 6/5V23.6-J  | 121.0 | B3    | 1.31 | 0.11 |          |
| 28.0     | 455389   | 6/5V28.0-J  | 145.0 | B3    | 1.31 | 0.11 |          |
| 31.5     | 455390   | 6/5V31.5-J  | 167.0 | B3    | 1.31 | 0.11 |          |
| 37.5     | 455391   | 6/5V37.5-J  | 208.0 | B3    | 1.31 | 0.11 |          |
| 50.0     | 455392   | 6/5V50.0-M  | 353.0 | B3    | 0.00 | 1.74 |          |

| 10-Groove |          |             |       |       |      |      | F = 7.19 |
|-----------|----------|-------------|-------|-------|------|------|----------|
| O.D.Δ     | Part No. | Description | Wt.   | Type‡ | M    | K    |          |
| 8.0       | 456062   | 10/5V8.0-E  | 42.0  | A1    | 3.25 | 2.05 |          |
| 8.5       | 456063   | 10/5V8.5-E  | 44.0  | A1    | 3.25 | 2.05 |          |
| 9.0       | 456064   | 10/5V9.0-F  | 57.0  | A1    | 3.31 | 1.89 |          |
| 9.25      | 456065   | 10/5V9.25-F | 60.0  | A1    | 3.31 | 1.89 |          |
| 9.75      | 456066   | 10/5V9.75-F | 61.0  | A1    | 3.31 | 1.89 |          |
| 10.3      | 456067   | 10/5V10.3-F | 66.0  | A1    | 3.31 | 1.89 |          |
| 10.9      | 456068   | 10/5V10.9-F | 72.0  | A1    | 3.31 | 1.89 |          |
| 11.3      | 456069   | 10/5V11.3-F | 78.0  | A1    | 3.31 | 1.89 |          |
| 11.8      | 456070   | 10/5V11.8-F | 80.0  | A1    | 3.31 | 1.89 |          |
| 12.5      | 456071   | 10/5V12.5-J | 111.0 | A1    | 3.56 | 1.96 |          |
| 13.2      | 456072   | 10/5V13.2-J | 115.0 | A1    | 3.56 | 1.96 |          |
| 14.0      | 456073   | 10/5V14.0-J | 118.0 | A1    | 3.44 | 1.84 |          |
| 15.0      | 456074   | 10/5V15.0-J | 120.0 | A1    | 3.31 | 1.71 |          |
| 16.0      | 456075   | 10/5V16.0-J | 160.0 | A1    | 3.56 | 1.96 |          |
| 18.7      | 456076   | 10/5V18.7-J | 151.0 | D2    | 1.56 | 0.04 |          |
| 21.2      | 456077   | 10/5V21.2-J | 143.0 | D2    | 1.56 | 0.04 |          |
| 23.6      | 456078   | 10/5V23.6-M | 209.0 | B3    | 1.94 | 0.20 |          |
| 28.0      | 456079   | 10/5V28.0-M | 245.0 | B3    | 1.94 | 0.20 |          |
| 31.5      | 456080   | 10/5V31.5-M | 277.0 | B3    | 1.94 | 0.20 |          |
| 37.5      | 456081   | 10/5V37.5-M | 337.0 | B3    | 1.94 | 0.20 |          |
| 50.0      | 456082   | 10/5V50.0-M | 484.0 | B3    | 1.94 | 0.20 |          |



## SELECTION/DIMENSIONS

### 8V QD SHEAVES - Heavy Duty



| 4-Groove |          |             |       |       |      |      | F = 4.88 |
|----------|----------|-------------|-------|-------|------|------|----------|
| O.D.Δ    | Part No. | Description | Wt.   | Type‡ | M    | K    |          |
| 12.5     | 455416   | 4/8V12.5-F  | 83.0  | D1    | 1.19 | 0.23 |          |
| 13.2     | 455417   | 4/8V13.2-F  | 88.0  | D2    | 1.19 | 0.23 |          |
| 14.0     | 455418   | 4/8V14.0-F  | 88.0  | D2    | 1.19 | 0.23 |          |
| 15.0     | 455419   | 4/8V15.0-F  | 111.0 | D2    | 1.19 | 0.23 |          |
| 16.0     | 455420   | 4/8V16.0-F  | 105.0 | D2    | 1.19 | 0.23 |          |
| 17.0     | 455521   | 4/8V17.0-F  | 150.0 | D3    | 1.19 | 0.23 |          |
| 18.0     | 455422   | 4/8V18.0-F  | 150.0 | D3    | 1.19 | 0.23 |          |
| 19.0     | 455423   | 4/8V19.0-F  | 146.0 | D3    | 1.19 | 0.23 |          |
| 20.0     | 455424   | 4/8V20.0-J  | 145.0 | D3    | 1.44 | 0.16 |          |
| 21.2     | 455425   | 4/8V21.2-J  | 181.0 | D3    | 1.44 | 0.16 |          |
| 22.4     | 455426   | 4/8V22.4-J  | 199.0 | D3    | 1.44 | 0.16 |          |
| 24.8     | 456654   | 4/8V24.8-M  | 211.0 | C3    | 1.44 | 0.93 |          |
| 30.0     | 455427   | 4/8V30.0-M  | 292.0 | C3    | 0.81 | 0.93 |          |
| 35.5     | 456655   | 4/8V35.5-M  | 367.0 | C3    | 0.81 | 0.93 |          |
| 40.0     | 455428   | 4/8V40.0-M  | 434.0 | C3    | 0.81 | 0.93 |          |
| 44.5     | 456656   | 4/8V44.5-M  | 371.0 | C3    | 0.81 | 0.93 |          |
| 53.0     | 455429   | 4/8V53.0-M  | 818.0 | C3    | 0.81 | 0.93 |          |

| 5-Groove |          |             |       |       |      |      | F = 6.00 |
|----------|----------|-------------|-------|-------|------|------|----------|
| O.D.Δ    | Part No. | Description | Wt.   | Type‡ | M    | K    |          |
| 12.5     | 455430   | 5/8V12.5-F  | 69.0  | A2    | 2.31 | 0.89 |          |
| 13.2     | 455431   | 5/8V13.2-F  | 75.0  | A2    | 2.31 | 0.89 |          |
| 14.0     | 455432   | 5/8V14.0-F  | 83.0  | A2    | 2.31 | 0.89 |          |
| 15.0     | 455433   | 5/8V15.0-F  | 94.0  | A2    | 2.31 | 0.89 |          |
| 16.0     | 455434   | 5/8V16.0-F  | 106.0 | A2    | 2.31 | 0.89 |          |
| 17.0     | 455435   | 5/8V17.0-J  | 133.0 | A2    | 2.00 | 0.40 |          |
| 18.0     | 455436   | 5/8V18.0-J  | 147.0 | A3    | 2.00 | 0.40 |          |
| 19.0     | 455437   | 5/8V19.0-J  | 161.0 | A3    | 2.00 | 0.40 |          |
| 20.0     | 455438   | 5/8V20.0-J  | 141.0 | A3    | 2.00 | 0.40 |          |
| 21.2     | 455439   | 5/8V21.2-J  | 151.0 | A3    | 2.00 | 0.40 |          |
| 22.4     | 456402   | 5/8V22.4-M  | 208.0 | D3    | 1.94 | 0.20 |          |
| 24.8     | 456657   | 5/8V24.8-M  | 229.0 | D3    | 1.94 | 0.20 |          |
| 30.0     | 455441   | 5/8V30.0-M  | 276.0 | D3    | 1.94 | 0.20 |          |
| 35.5     | 456658   | 5/8V35.5-M  | 334.0 | D3    | 1.94 | 0.20 |          |
| 40.0     | 455442   | 5/8V40.0-M  | 385.0 | D3    | 1.94 | 0.20 |          |
| 44.5     | 456659   | 5/8V44.5-N  | 459.0 | C3    | 0.94 | 1.11 |          |
| 53.0     | 455443   | 5/8V53.0-N  | 574.0 | C3    | 0.94 | 1.11 |          |

| 6-Groove |          |             |        |       |      |      | F = 7.13 |
|----------|----------|-------------|--------|-------|------|------|----------|
| O.D.Δ    | Part No. | Description | Wt.    | Type‡ | M    | K    |          |
| 12.5     | 455444   | 6/8V12.5-F  | 78.0   | A1    | 2.31 | 0.89 |          |
| 13.2     | 455445   | 6/8V13.2-F  | 85.0   | A2    | 2.31 | 0.89 |          |
| 14.0     | 455446   | 6/8V14.0-F  | 94.0   | A2    | 2.31 | 0.89 |          |
| 15.0     | 455447   | 6/8V15.0-J  | 122.0  | A2    | 2.56 | 0.96 |          |
| 16.0     | 455448   | 6/8V16.0-J  | 134.0  | A2    | 2.56 | 0.96 |          |
| 17.0     | 455449   | 6/8V17.0-J  | 147.0  | A2    | 2.56 | 0.96 |          |
| 18.0     | 455450   | 6/8V18.0-J  | 161.0  | A2    | 2.56 | 0.96 |          |
| 19.0     | 455451   | 6/8V19.0-J  | 177.0  | A3    | 2.56 | 0.96 |          |
| 20.0     | 455452   | 6/8V20.0-M  | 232.0  | B3    | 2.94 | 1.20 |          |
| 21.2     | 455453   | 6/8V21.2-M  | 216.0  | B3    | 2.94 | 1.20 |          |
| 22.4     | 455454   | 6/8V22.4-M  | 227.0  | B3    | 2.94 | 1.20 |          |
| 24.8     | 456660   | 6/8V24.8-M  | 251.0  | B3    | 1.94 | 0.20 |          |
| 30.0     | 455455   | 6/8V30.0-M  | 306.0  | B3    | 2.06 | 0.32 |          |
| 35.5     | 456661   | 6/8V35.5-N  | 391.0  | C3    | 1.13 | 0.92 |          |
| 40.0     | 455456   | 6/8V40.0-N  | 450.0  | C3    | 1.13 | 0.92 |          |
| 44.5     | 456662   | 6/8V44.5-N  | 511.0  | C3    | 1.13 | 0.92 |          |
| 53.0     | 455457   | 6/8V53.0-N  | 646.0  | C3    | 1.13 | 0.92 |          |
| 63.0     | 456663   | 6/8V63.0-P  | 856.0  | C3    | 2.00 | 0.30 |          |
| 71.0     | 456690   | 6/8V71.0-P  | 1016.0 | C3    | 2.00 | 0.30 |          |

| 8-Groove |          |             |        |       |      |      | F = 9.38 |
|----------|----------|-------------|--------|-------|------|------|----------|
| O.D.Δ    | Part No. | Description | Wt.    | Type‡ | M    | K    |          |
| 12.5     | 455458   | 8/8V12.5-J  | 115.0  | A1    | 3.56 | 1.96 |          |
| 13.2     | 455459   | 8/8V13.2-J  | 129.0  | A2    | 3.56 | 1.96 |          |
| 14.0     | 455460   | 8/8V14.0-J  | 146.0  | A2    | 3.56 | 1.96 |          |
| 15.0     | 455461   | 8/8V15.0-J  | 144.0  | A2    | 3.56 | 1.96 |          |
| 16.0     | 455462   | 8/8V16.0-J  | 158.0  | A2    | 3.56 | 1.96 |          |
| 17.0     | 455463   | 8/8V17.0-M  | 214.0  | A1    | 3.94 | 2.20 |          |
| 18.0     | 455464   | 8/8V18.0-M  | 230.0  | A2    | 4.19 | 2.45 |          |
| 19.0     | 455465   | 8/8V19.0-M  | 247.0  | A2    | 3.94 | 2.20 |          |
| 20.0     | 455466   | 8/8V20.0-M  | 266.0  | A2    | 3.94 | 2.20 |          |
| 21.2     | 455467   | 8/8V21.2-M  | 245.0  | A3    | 3.94 | 2.20 |          |
| 22.4     | 455468   | 8/8V22.4-M  | 264.0  | A3    | 2.25 | 0.51 |          |
| 24.8     | 456664   | 8/8V24.8-N  | 315.0  | A3    | 2.25 | 0.20 |          |
| 30.0     | 455469   | 8/8V30.0-N  | 384.0  | A3    | 2.25 | 0.20 |          |
| 35.5     | 456665   | 8/8V35.5-N  | 468.0  | A3    | 2.25 | 0.20 |          |
| 40.0     | 455470   | 8/8V40.0-N  | 543.0  | B3    | 2.63 | 0.58 |          |
| 44.5     | 456666   | 8/8V44.5-P  | 670.0  | B3    | 2.63 | 0.33 |          |
| 53.0     | 455471   | 8/8V53.0-P  | 833.0  | B3    | 2.63 | 0.33 |          |
| 63.0     | 456667   | 8/8V63.0-P  | 1049.0 | B3    | 2.63 | 0.33 |          |
| 71.0     | 456691   | 8/8V71.0-W  | 1266.0 | C3    | 0.19 | 2.37 |          |

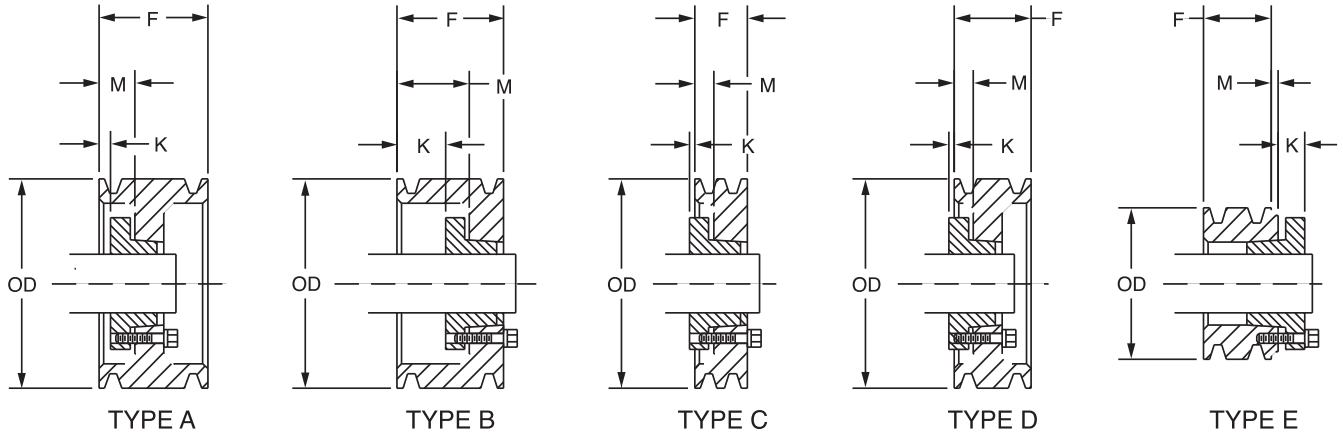
Δ Pitch diameter = O.D. - .20"

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-2.

# SELECTION/DIMENSIONS



## 8V QD SHEAVES - Heavy Duty



| 10-Groove |          |             |      |       |      |      | F = 11.63 |  |
|-----------|----------|-------------|------|-------|------|------|-----------|--|
| O.D.Δ     | Part No. | Description | Wt.  | Type‡ | M    | K    |           |  |
| 12.5      | 455472   | 10/8V12.5-J | 133  | A1    | 3.56 | 1.96 |           |  |
| 13.2      | 455473   | 10/8V13.2-J | 148  | A1    | 3.56 | 1.96 |           |  |
| 14.0      | 455474   | 10/8V14.0-J | 166  | A2    | 3.56 | 1.96 |           |  |
| 15.0      | 455475   | 10/8V15.0-M | 224  | A2    | 3.94 | 2.20 |           |  |
| 16.0      | 455476   | 10/8V16.0-M | 260  | A2    | 3.94 | 2.20 |           |  |
| 17.0      | 455477   | 10/8V17.0-M | 241  | A1    | 3.94 | 2.20 |           |  |
| 18.0      | 455478   | 10/8V18.0-M | 259  | A2    | 3.94 | 2.20 |           |  |
| 19.0      | 455479   | 10/8V19.0-M | 279  | A2    | 3.94 | 2.20 |           |  |
| 20.0      | 455480   | 10/8V20.0-M | 300  | A2    | 3.94 | 2.20 |           |  |
| 21.2      | 455481   | 10/8V21.2-M | 286  | A3    | 3.94 | 2.20 |           |  |
| 22.4      | 455482   | 10/8V22.4-N | 321  | A3    | 2.25 | 0.20 |           |  |
| 24.8      | 456668   | 10/8V24.8-N | 357  | A3    | 2.25 | 0.20 |           |  |
| 30.0      | 455483   | 10/8V30.0-N | 444  | A3    | 2.25 | 0.20 |           |  |
| 35.5      | 456669   | 10/8V35.5-P | 591  | A3    | 2.63 | 0.33 |           |  |
| 40.0      | 455484   | 10/8V40.0-P | 680  | A3    | 2.63 | 0.33 |           |  |
| 44.5      | 456670   | 10/8V44.5-P | 775  | A3    | 2.63 | 0.33 |           |  |
| 53.0      | 455485   | 10/8V53.0-P | 971  | A3    | 2.63 | 0.33 |           |  |
| 63.0      | 456671   | 10/8V63.0-W | 1256 | D3    | 1.31 | 1.25 |           |  |
| 71.0      | 456692   | 10/8V71.0-W | 1482 | D3    | 1.31 | 1.25 |           |  |

| 12-Groove |          |             |      |       |      |      | F = 13.88 |  |
|-----------|----------|-------------|------|-------|------|------|-----------|--|
| O.D.Δ     | Part No. | Description | Wt.  | Type‡ | M    | K    |           |  |
| 12.5      | 456672   | 12/8V12.5-M | 164  | A1    | 3.94 | 2.20 |           |  |
| 13.2      | 456673   | 12/8V13.2-M | 186  | A1    | 3.94 | 2.20 |           |  |
| 14.0      | 456674   | 12/8V14.0-M | 213  | A1    | 3.94 | 2.20 |           |  |
| 15.0      | 456675   | 12/8V15.0-M | 248  | A2    | 3.94 | 2.20 |           |  |
| 16.0      | 456676   | 12/8V16.0-M | 285  | A1    | 3.94 | 2.20 |           |  |
| 17.0      | 456677   | 12/8V17.0-M | 270  | A1    | 3.94 | 2.20 |           |  |
| 18.0      | 456678   | 12/8V18.0-M | 292  | A2    | 3.94 | 2.20 |           |  |
| 19.0      | 456679   | 12/8V19.0-N | 330  | A2    | 2.25 | 0.20 |           |  |
| 20.0      | 456680   | 12/8V20.0-N | 354  | A2    | 2.25 | 0.20 |           |  |
| 21.2      | 456681   | 12/8V21.2-N | 365  | A3    | 2.25 | 0.20 |           |  |
| 22.4      | 456682   | 12/8V22.4-N | 367  | A3    | 2.25 | 0.20 |           |  |
| 24.8      | 456683   | 12/8V24.8-N | 408  | A3    | 2.25 | 0.20 |           |  |
| 30.0      | 456684   | 12/8V30.0-P | 557  | A3    | 2.63 | 0.32 |           |  |
| 35.5      | 456685   | 12/8V35.5-P | 671  | A3    | 2.63 | 0.32 |           |  |
| 40.0      | 456686   | 12/8V40.0-P | 776  | A3    | 2.63 | 0.32 |           |  |
| 44.5      | 456687   | 12/8V44.5-P | 887  | A3    | 2.63 | 0.32 |           |  |
| 53.0      | 456688   | 12/8V53.0-W | 1150 | A3    | 2.88 | 0.32 |           |  |
| 63.0      | 456689   | 12/8V63.0-W | 1445 | D3    | 2.44 | 0.12 |           |  |
| 71.0      | 456693   | 12/8V71.0-W | 1706 | D3    | 2.44 | 0.12 |           |  |

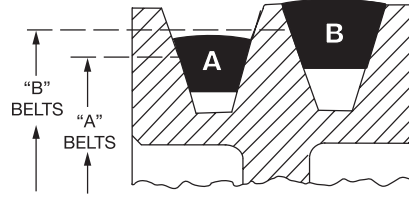
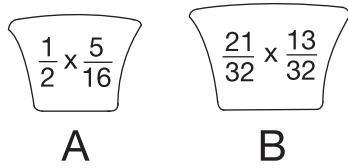
Δ Pitch diameter = O.D. - .20"

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-2.

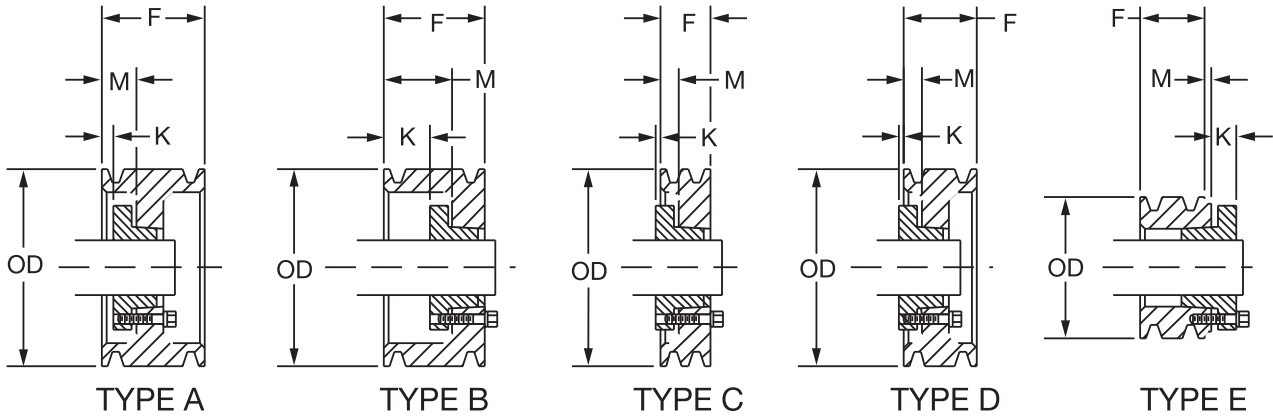


## SELECTION/DIMENSIONS

### A/B QD SHEAVES - Heavy Duty



Drawing illustrates how either A or B belts may be used with combination groove sheaves.



**1-Groove** **F = .84 A3.2 thru A4.0 B4.4**

|       |          | Balance F = 1   |      |       |      |      |
|-------|----------|-----------------|------|-------|------|------|
| O.D.Δ | Part No. | Description     | Wt.  | Type‡ | M    | K    |
| 3.75  | 118283   | 1A3.0B3.4-SH    | 2.0  | E1    | 0.44 | 0.68 |
| 3.95  | 118284   | 1A3.2B3.6-SH    | 2.2  | D1    | 0.05 | 0.63 |
| 4.15  | 118285   | 1A3.4B3.8-SH    | 2.4  | D1    | 0.05 | 0.63 |
| 4.35  | 118286   | 1A3.6B4.0-SH    | 2.7  | D1    | 0.05 | 0.63 |
| 4.55  | 455550   | 1A3.8B4.2-SH    | 2.9  | D1    | 0.05 | 0.63 |
| 4.75  | 455551   | 1A4.0B4.4-SH    | 3.4  | D1    | 0.05 | 0.63 |
| 4.95  | 455552   | 1A4.2B4.6-SDS   | 4.0  | D1    | 0.14 | 0.55 |
| 5.15  | 455553   | 1A4.4B4.8-SDS   | 4.0  | D1    | 0.14 | 0.55 |
| 5.35  | 455554   | 1A4.6B5.0-SDS   | 4.0  | D1    | 0.14 | 0.55 |
| 5.55  | 455555   | 1A4.8B5.2-SDS   | 5.0  | D1    | 0.14 | 0.55 |
| 5.75  | 455556   | 1A5.0B5.4-SDS   | 5.0  | D1    | 0.14 | 0.55 |
| 5.95  | 455557   | 1A5.2B5.6-SDS   | 6.0  | C1    | 0.25 | 0.45 |
| 6.15  | 455558   | 1A5.4B5.8-SDS   | 6.0  | C1    | 0.25 | 0.45 |
| 6.35  | 455559   | 1A5.6B6.0-SDS   | 6.0  | C1    | 0.25 | 0.45 |
| 6.55  | 455560   | 1A5.8B6.2-SDS   | 6.0  | C1    | 0.25 | 0.45 |
| 6.75  | 455561   | 1A6.0B6.4-SDS   | 6.0  | C1    | 0.25 | 0.45 |
| 6.95  | 455562   | 1A6.2B6.6-SDS   | 7.0  | C1    | 0.25 | 0.45 |
| 7.15  | 455563   | 1A6.4B6.8-SDS   | 7.0  | C1    | 0.25 | 0.45 |
| 7.35  | 455564   | 1A6.6B7.0-SDS   | 7.5  | D1    | 0.13 | 0.57 |
| 7.55  | 455565   | 1A7.0B7.4-SDS   | 8.0  | C1    | 0.25 | 0.45 |
| 8.35  | 455566   | 1A7.6B8.0-SDS   | 8.0  | D1    | 0.13 | 0.57 |
| 8.95  | 455567   | 1A8.2B8.6-SDS   | 8.0  | D2    | 0.13 | 0.57 |
| 9.75  | 455568   | 1A9.0B9.4-SDS   | 8.0  | D2    | 0.13 | 0.57 |
| 11.35 | 455569   | 1A10.6B11.0-SDS | 10.0 | D2    | 0.13 | 0.57 |
| 12.75 | 455570   | 1A12.0B12.4-SDS | 11.0 | D3    | 0.13 | 0.57 |
| 13.95 | 455571   | 1A13.2B13.6-SDS | 13.0 | D3    | 0.06 | 0.63 |
| 15.75 | 455572   | 1A15.0B15.4-SK  | 16.0 | C3    | 0.00 | 0.83 |
| 16.35 | 455573   | 1A15.6B16.0-SK  | 17.0 | C3    | 0.00 | 0.89 |
| 18.75 | 455574   | 1A18.0B18.4-SK  | 18.0 | C3    | 0.00 | 0.89 |
| 20.35 | 455575   | 1B20.0-SK       | 18.0 | C3    | 0.00 | 0.89 |

**2-Groove** **F = 1.75**

| O.D.Δ | Part No. | Description    | Wt.  | Type‡ | M    | K    |
|-------|----------|----------------|------|-------|------|------|
| 3.75  | 455576   | 2A3.0B3.4-SH   | 3.2  | E1    | 0.38 | 0.68 |
| 3.95  | 455577   | 2A3.2B3.6-SH   | 3.4  | E1    | 0.00 | 0.68 |
| 4.15  | 455578   | 2A3.4B3.8-SH   | 3.9  | E1    | 0.00 | 0.68 |
| 4.35  | 455579   | 2A3.6B4.0-SH   | 3.8  | A1    | 0.94 | 0.26 |
| 4.55  | 455580   | 2A3.8B4.2-SH   | 4.4  | A1    | 0.94 | 0.26 |
| 4.75  | 455581   | 2A4.0B4.4-SH   | 4.6  | A1    | 0.94 | 0.26 |
| 4.95  | 455582   | 2A4.2B4.6-SDS  | 5.0  | A1    | 1.00 | 0.30 |
| 5.15  | 455583   | 2A4.4B4.8-SDS  | 4.1  | A1    | 1.00 | 0.30 |
| 5.35  | 455584   | 2A4.6B5.0-SDS  | 6.0  | A1    | 1.00 | 0.30 |
| 5.55  | 455585   | 2A4.8B5.2-SDS  | 7.0  | A1    | 1.00 | 0.30 |
| 5.75  | 455586   | 2A5.0B5.4-SDS  | 7.0  | A1    | 1.00 | 0.30 |
| 5.95  | 455587   | 2A5.2B5.6-SDS  | 7.0  | A1    | 0.81 | 0.12 |
| 6.15  | 455588   | 2A5.4B5.8-SDS  | 7.0  | D1    | 0.69 | 0.01 |
| 6.35  | 455589   | 2A5.6B6.0-SDS  | 7.0  | D1    | 0.69 | 0.01 |
| 6.55  | 455590   | 2A5.8B6.2-SDS  | 6.3  | D1    | 0.69 | 0.01 |
| 6.75  | 455591   | 2A6.0B6.4-SDS  | 8.0  | D1    | 0.69 | 0.01 |
| 6.95  | 455592   | 2A6.2B6.6-SDS  | 8.2  | D1    | 0.69 | 0.01 |
| 7.15  | 455593   | 2A6.4B6.8-SDS  | 9.0  | D1    | 0.69 | 0.01 |
| 7.35  | 455594   | 2A6.6B7.0-SK   | 10.0 | C1    | 0.50 | 0.39 |
| 7.55  | 455595   | 2A7.0B7.4-SK   | 11.0 | C1    | 0.50 | 0.39 |
| 8.35  | 455596   | 2A7.6B8.0-SK   | 11.0 | D2    | 0.44 | 0.46 |
| 8.95  | 455597   | 2A8.2B8.6-SK   | 12.0 | D2    | 0.44 | 0.46 |
| 9.75  | 455598   | 2A9.0B9.4-SK   | 12.0 | D2    | 0.44 | 0.46 |
| 11.35 | 455599   | 2A10.6B11.0-SK | 14.0 | D2    | 0.44 | 0.46 |
| 12.75 | 455600   | 2A12.0B12.4-SK | 18.0 | D3    | 0.44 | 0.46 |
| 13.95 | 455601   | 2A13.2B13.6-SK | 19.0 | D3    | 0.38 | 0.52 |
| 15.75 | 455602   | 2A15.0B15.4-SK | 24.0 | D3    | 0.44 | 0.46 |
| 16.35 | 455603   | 2A15.6B16.0-SK | 22.0 | D3    | 0.44 | 0.46 |
| 18.75 | 455604   | 2A18.0B18.4-SK | 29.0 | D3    | 0.31 | 0.58 |
| 20.35 | 455605   | 2B20.0-SF      | 30.0 | D3    | 0.38 | 0.57 |
| 25.35 | 455606   | 2B25.0-SF      | 40.0 | D3    | 0.38 | 0.57 |
| 30.35 | 455607   | 2B30.0-SF      | 50.0 | D3    | 0.38 | 0.57 |
| 38.35 | 455608   | 2B38.0-SF      | 70.0 | D3    | 0.34 | 0.60 |

Δ P.D. for "A" Belts = O.D. - .37"

P.D. for "B" Belts = O.D. + .01"

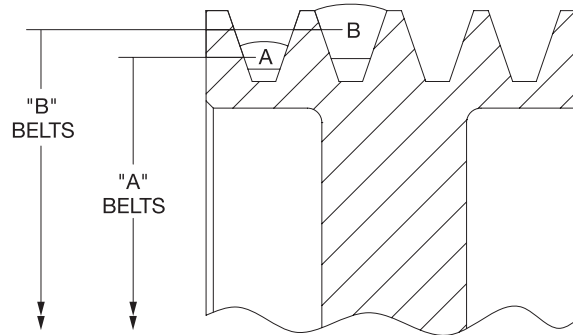
‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-2.



# SELECTION/DIMENSIONS



## A/B QD SHEAVES - Heavy Duty



Drawing illustrates how either A or B belts may be used with combination groove sheaves.

| 3-Groove |          |                |      |       |      | F = 2.50 |  |
|----------|----------|----------------|------|-------|------|----------|--|
| O.D.Δ    | Part No. | Description    | Wt.  | Type‡ | M    | K        |  |
| 3.75     | 455609   | 3A3.0B3.4-SH   | 4.2  | E1    | 0.38 | 0.68     |  |
| 3.95     | 455610   | 3A3.2B3.6-SH   | 4.7  | E1    | 0.00 | 0.68     |  |
| 4.15     | 455611   | 3A3.4B3.8-SH   | 5.4  | E1    | 0.00 | 0.68     |  |
| 4.35     | 455612   | 3A3.6B4.0-SH   | 4.8  | E1    | 0.00 | 0.68     |  |
| 4.55     | 455613   | 3A3.8B4.2-SH   | 5.4  | E1    | 0.00 | 0.68     |  |
| 4.75     | 455614   | 3A4.0B4.4-SH   | 5.6  | E1    | 0.00 | 0.68     |  |
| 4.95     | 455615   | 3A4.2B4.6-SD   | 8.0  | A1    | 1.06 | 0.37     |  |
| 5.15     | 455616   | 3A4.4B4.8-SD   | 8.5  | A1    | 1.06 | 0.67     |  |
| 5.35     | 455617   | 3A4.6B5.0-SD   | 9.0  | A1    | 1.06 | 0.67     |  |
| 5.55     | 455618   | 3A4.8B5.2-SD   | 9.0  | A1    | 1.06 | 0.37     |  |
| 5.75     | 455619   | 3A5.0B5.4-SD   | 10.0 | A1    | 1.06 | 0.37     |  |
| 5.95     | 455620   | 3A5.2B5.6-SD   | 11.0 | A1    | 1.06 | 0.37     |  |
| 6.15     | 455621   | 3A5.4B5.8-SD   | 9.1  | A1    | 1.06 | 0.37     |  |
| 6.35     | 455622   | 3A5.6B6.0-SD   | 10.0 | A1    | 1.06 | 0.37     |  |
| 6.55     | 455623   | 3A5.8B6.2-SD   | 11.0 | A1    | 1.06 | 0.37     |  |
| 6.75     | 455624   | 3A6.0B6.4-SD   | 11.0 | A1    | 1.06 | 0.37     |  |
| 6.95     | 455625   | 3A6.2B6.6-SD   | 12.0 | A1    | 1.06 | 0.37     |  |
| 7.15     | 455626   | 3A6.4B6.8-SD   | 13.0 | A1    | 1.06 | 0.37     |  |
| 7.35     | 455627   | 3A6.6B7.0-SK   | 13.0 | D1    | 0.75 | 0.14     |  |
| 7.75     | 455628   | 3A7.0B7.4-SK   | 13.0 | D1    | 0.75 | 0.14     |  |
| 8.35     | 455629   | 3A7.6B8.0-SK   | 14.0 | D1    | 0.88 | 0.02     |  |
| 8.95     | 455630   | 3A8.2B8.6-SK   | 13.0 | D1    | 0.88 | 0.02     |  |
| 9.75     | 455631   | 3A9.0B9.4-SK   | 16.0 | D2    | 0.75 | 0.14     |  |
| 11.35    | 455632   | 3A10.6B11.0-SK | 19.0 | D2    | 0.75 | 0.14     |  |
| 12.75    | 455633   | 3A12.0B12.4-SK | 24.0 | D3    | 0.75 | 0.14     |  |
| 13.95    | 455634   | 3A13.2B13.6-SK | 24.0 | D3    | 0.69 | 0.21     |  |
| 15.75    | 455635   | 3A15.0B15.4-SK | 30.0 | D3    | 0.75 | 0.14     |  |
| 16.35    | 455636   | 3A15.6B16.0-SK | 27.0 | D3    | 0.75 | 0.14     |  |
| 18.75    | 455637   | 3A18.0B18.4-SK | 38.0 | D3    | 0.75 | 0.14     |  |
| 20.35    | 455638   | 3B20.0-SF      | 38.0 | D3    | 0.63 | 0.32     |  |
| 25.35    | 455639   | 3B25.0-SF      | 51.0 | D3    | 0.63 | 0.32     |  |
| 30.35    | 455640   | 3B30.0-SF      | 65.0 | D3    | 0.63 | 0.32     |  |
| 38.35    | 455641   | 3B38.0-E       | 95.0 | D3    | 0.63 | 0.57     |  |

| 4-Groove |          |                |       |       |      | F = 3.25 |  |
|----------|----------|----------------|-------|-------|------|----------|--|
| O.D.Δ    | Part No. | Description    | Wt.   | Type‡ | M    | K        |  |
| 3.75     | 455642   | 4A3.0B3.4-SD   | 5.5   | E1    | 0.47 | 0.70     |  |
| 3.95     | 455643   | 4A3.2B3.6-SD   | 5.8   | E1    | 0.47 | 0.70     |  |
| 4.15     | 455644   | 4A3.4B3.8-SD   | 6.2   | E1    | 0.47 | 0.70     |  |
| 4.35     | 455645   | 4A3.6B4.0-SD   | 6.6   | E1    | 0.00 | 0.70     |  |
| 4.55     | 455646   | 4A3.8B4.2-SD   | 6.9   | E1    | 0.00 | 0.70     |  |
| 4.75     | 455647   | 4A4.0B4.4-SD   | 7.5   | E1    | 0.00 | 0.70     |  |
| 4.95     | 455648   | 4A4.2B4.6-SD   | 7.5   | A1    | 1.50 | 0.80     |  |
| 5.15     | 455649   | 4A4.4B4.8-SD   | 7.3   | A1    | 1.50 | 0.80     |  |
| 5.35     | 455650   | 4A4.6B5.0-SD   | 10.0  | A1    | 1.50 | 0.80     |  |
| 5.55     | 455651   | 4A4.8B5.2-SD   | 11.0  | A1    | 1.50 | 0.80     |  |
| 5.75     | 455652   | 4A5.0B5.4-SD   | 11.0  | A1    | 1.50 | 0.80     |  |
| 5.95     | 455653   | 4A5.2B5.6-SD   | 12.0  | A1    | 1.50 | 0.80     |  |
| 6.15     | 455654   | 4A5.4B5.8-SD   | 11.0  | A1    | 1.50 | 0.80     |  |
| 6.35     | 455655   | 4A5.6B6.0-SD   | 11.0  | A1    | 1.50 | 0.80     |  |
| 6.55     | 455656   | 4A5.8B6.2-SD   | 14.0  | A1    | 1.50 | 0.80     |  |
| 6.75     | 455657   | 4A6.0B6.4-SD   | 14.0  | A1    | 1.50 | 0.80     |  |
| 6.95     | 455658   | 4A6.2B6.6-SD   | 14.0  | A1    | 1.50 | 0.80     |  |
| 7.15     | 455659   | 4A6.4B6.8-SD   | 14.0  | A1    | 1.50 | 0.80     |  |
| 7.35     | 455660   | 4A6.6B7.0-SK   | 14.0  | A1    | 1.00 | 0.11     |  |
| 7.75     | 455661   | 4A7.0B7.4-SK   | 15.0  | A1    | 1.25 | 0.36     |  |
| 8.35     | 455662   | 4A7.6B8.0-SK   | 15.0  | A1    | 1.38 | 0.48     |  |
| 8.95     | 455663   | 4A8.2B8.6-SK   | 17.0  | A1    | 1.50 | 0.61     |  |
| 9.75     | 455664   | 4A9.0B9.4-SK   | 19.0  | A2    | 1.13 | 0.23     |  |
| 11.35    | 455665   | 4A10.6B11.0-SK | 22.0  | A2    | 1.00 | 0.11     |  |
| 12.75    | 455666   | 4A12.0B12.4-SK | 29.0  | A3    | 1.00 | 0.11     |  |
| 13.95    | 455667   | 4A13.2B13.6-SK | 29.0  | A3    | 1.00 | 0.11     |  |
| 15.75    | 455668   | 4A15.0B15.4-SF | 39.0  | A3    | 1.13 | 0.18     |  |
| 16.35    | 455669   | 4A15.6B16.0-SF | 34.0  | A3    | 1.00 | 0.06     |  |
| 18.75    | 455670   | 4A18.0B18.4-SF | 47.0  | A3    | 1.00 | 0.06     |  |
| 20.35    | 455671   | 4B20.0-SF      | 46.0  | A3    | 1.00 | 0.06     |  |
| 25.35    | 455672   | 4B25.0-E       | 66.0  | D3    | 1.00 | 0.20     |  |
| 30.35    | 455673   | 4B30.0-E       | 83.0  | D3    | 0.63 | 0.57     |  |
| 38.35    | 455674   | 4B38.0-E       | 115.0 | D3    | 1.00 | 0.20     |  |

Δ P.D. for "A" Belts = O.D. - .37"

P.D. for "B" Belts = O.D. + .01"

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-2.



# SELECTION/DIMENSIONS

## A/B QD SHEAVES - Heavy Duty

| 5-Groove |          |                |       |       |      |      | F = 4.00 |  |
|----------|----------|----------------|-------|-------|------|------|----------|--|
| O.D.Δ    | Part No. | Description    | Wt.   | Type‡ | M    | K    |          |  |
| 3.75     | 455675   | 5A3.0B3.4-SD   | 5.9   | E1    | 0.47 | 0.70 |          |  |
| 3.95     | 455676   | 5A3.2B3.6-SD   | 6.5   | E1    | 0.47 | 0.70 |          |  |
| 4.15     | 455677   | 5A3.4B3.8-SD   | 7.2   | E1    | 0.47 | 0.70 |          |  |
| 4.35     | 455678   | 5A3.6B4.0-SD   | 7.3   | E1    | 0.00 | 0.70 |          |  |
| 4.55     | 455679   | 5A3.8B4.2-SD   | 8.0   | E1    | 0.00 | 0.70 |          |  |
| 4.75     | 455680   | 5A4.0B4.4-SD   | 8.8   | E1    | 0.00 | 0.70 |          |  |
| 4.95     | 455681   | 5A4.2B4.6-SD   | 9.0   | A1    | 1.31 | 0.62 |          |  |
| 5.15     | 455682   | 5A4.4B4.8-SD   | 8.5   | A1    | 1.31 | 0.62 |          |  |
| 5.35     | 455683   | 5A4.6B5.0-SD   | 11.0  | A1    | 1.31 | 0.62 |          |  |
| 5.55     | 455684   | 5A4.8B5.2-SD   | 12.0  | A1    | 1.31 | 0.62 |          |  |
| 5.75     | 455685   | 5A5.0B5.4-SK   | 12.0  | A1    | 1.31 | 0.42 |          |  |
| 5.95     | 455686   | 5A5.2B5.6-SK   | 12.0  | A1    | 1.31 | 0.42 |          |  |
| 6.15     | 455687   | 5A5.4B5.8-SK   | 13.0  | A1    | 1.31 | 0.42 |          |  |
| 6.35     | 455688   | 5A5.6B6.0-SK   | 14.0  | A1    | 1.31 | 0.42 |          |  |
| 6.55     | 455689   | 5A5.8B6.2-SK   | 13.0  | A1    | 1.31 | 0.42 |          |  |
| 6.75     | 455690   | 5A6.0B6.4-SK   | 16.0  | A1    | 1.31 | 0.42 |          |  |
| 6.95     | 455691   | 5A6.2B6.6-SK   | 15.0  | A1    | 1.31 | 0.42 |          |  |
| 7.15     | 455692   | 5A6.4B6.8-SK   | 17.0  | A1    | 1.31 | 0.42 |          |  |
| 7.35     | 455693   | 5A6.6B7.0-SF   | 16.0  | A1    | 1.31 | 0.37 |          |  |
| 7.75     | 455694   | 5A7.0B7.4-SF   | 20.0  | A1    | 1.31 | 0.37 |          |  |
| 8.35     | 455695   | 5A7.6B8.0-SF   | 17.0  | A1    | 1.31 | 0.37 |          |  |
| 8.95     | 455696   | 5A8.2B8.6-SF   | 24.0  | A1    | 1.31 | 0.37 |          |  |
| 9.75     | 455697   | 5A9.0B9.4-SF   | 24.0  | A1    | 1.31 | 0.37 |          |  |
| 11.35    | 455698   | 5A10.6B11.0-SF | 29.0  | A2    | 1.31 | 0.37 |          |  |
| 12.75    | 455699   | 5A12.0B12.4-SF | 34.0  | A3    | 1.06 | 0.12 |          |  |
| 13.95    | 455700   | 5A13.2B13.6-SF | 33.0  | A3    | 1.31 | 0.37 |          |  |
| 15.75    | 455701   | 5A15.0B15.4-SF | 46.0  | A3    | 1.31 | 0.37 |          |  |
| 16.35    | 455702   | 5A15.6B16.0-SF | 38.0  | A2    | 1.25 | 0.31 |          |  |
| 18.75    | 455703   | 5A18.0B18.4-SF | 55.0  | A3    | 1.31 | 0.37 |          |  |
| 20.35    | 455704   | 5B20.0-E       | 58.0  | A3    | 1.25 | 0.05 |          |  |
| 25.35    | 455705   | 5B25.0-E       | 76.0  | A3    | 1.25 | 0.05 |          |  |
| 30.35    | 455706   | 5B30.0-E       | 97.0  | A3    | 1.25 | 0.05 |          |  |
| 38.35    | 455707   | 5B38.0-E       | 135.0 | A3    | 1.25 | 0.05 |          |  |

| 6-Groove |          |                |       |       |      |      | F = 4.75 |  |
|----------|----------|----------------|-------|-------|------|------|----------|--|
| O.D.Δ    | Part No. | Description    | Wt.   | Type‡ | M    | K    |          |  |
| 3.75     | 455708   | 6A3.0B3.4-SD   | 6.7   | E1    | 0.38 | 0.70 |          |  |
| 3.95     | 455709   | 6A3.2B3.6-SD   | 7.4   | E1    | 0.38 | 0.70 |          |  |
| 4.15     | 455710   | 6A3.4B3.8-SD   | 8.0   | E1    | 0.38 | 0.70 |          |  |
| 4.35     | 455711   | 6A3.6B4.0-SD   | 8.4   | E1    | 0.00 | 0.70 |          |  |
| 4.55     | 455712   | 6A3.8B4.2-SD   | 9.0   | E1    | 0.00 | 0.70 |          |  |
| 4.75     | 455713   | 6A4.0B4.4-SD   | 10.0  | E1    | 0.00 | 0.70 |          |  |
| 4.95     | 455714   | 6A4.2B4.6-SD   | 10.0  | A1    | 1.31 | 0.62 |          |  |
| 5.15     | 455715   | 6A4.4B4.8-SD   | 10.0  | A1    | 1.31 | 0.62 |          |  |
| 5.35     | 455716   | 6A4.6B5.0-SD   | 12.0  | A1    | 1.31 | 0.62 |          |  |
| 5.55     | 455717   | 6A4.8B5.2-SD   | 13.0  | A1    | 1.31 | 0.62 |          |  |
| 5.75     | 455718   | 6A5.0B5.4-SK   | 13.0  | A1    | 1.31 | 0.42 |          |  |
| 5.95     | 455719   | 6A5.2B5.6-SK   | 14.0  | A1    | 1.31 | 0.42 |          |  |
| 6.15     | 455720   | 6A5.4B5.8-SK   | 12.0  | A1    | 1.31 | 0.42 |          |  |
| 6.35     | 455721   | 6A5.6B6.0-SK   | 15.0  | A1    | 1.31 | 0.42 |          |  |
| 6.55     | 455722   | 6A5.8B6.2-SK   | 15.0  | A1    | 1.31 | 0.42 |          |  |
| 6.75     | 455723   | 6A6.0B6.4-SK   | 17.0  | A1    | 1.31 | 0.42 |          |  |
| 6.95     | 455724   | 6A6.2B6.6-SK   | 17.0  | A1    | 1.31 | 0.42 |          |  |
| 7.15     | 455725   | 6A6.4B6.8-SK   | 19.0  | A1    | 1.31 | 0.42 |          |  |
| 7.35     | 455726   | 6A6.6B7.0-SF   | 18.0  | A1    | 1.69 | 0.75 |          |  |
| 7.75     | 455727   | 6A7.0B7.4-SF   | 22.0  | A1    | 1.69 | 0.75 |          |  |
| 8.35     | 455728   | 6A7.6B8.0-SF   | 23.0  | A1    | 1.69 | 0.75 |          |  |
| 8.95     | 455729   | 6A8.2B8.6-SF   | 26.0  | A1    | 1.69 | 0.75 |          |  |
| 9.75     | 455730   | 6A9.0B9.4-SF   | 27.0  | A1    | 1.69 | 0.75 |          |  |
| 11.35    | 455731   | 6A10.6B11.0-SF | 32.0  | A2    | 1.69 | 0.75 |          |  |
| 12.75    | 455732   | 6A12.0B12.4-SF | 39.0  | A3    | 1.50 | 0.56 |          |  |
| 13.95    | 455733   | 6A13.2B13.6-SF | 38.0  | A3    | 1.69 | 0.75 |          |  |
| 15.75    | 455734   | 6A15.0B15.4-SF | 50.0  | A2    | 1.81 | 0.87 |          |  |
| 16.35    | 455735   | 6A15.6B16.0-SF | 44.0  | A2    | 1.81 | 0.87 |          |  |
| 18.75    | 455736   | 6A18.0B18.4-SF | 62.0  | A3    | 1.75 | 0.81 |          |  |
| 20.35    | 455737   | 6B20.0-E       | 65.0  | A3    | 1.38 | 0.18 |          |  |
| 25.35    | 455738   | 6B25.0-E       | 87.0  | A3    | 1.38 | 0.18 |          |  |
| 30.35    | 455739   | 6B30.0-E       | 111.0 | A3    | 1.38 | 0.18 |          |  |
| 38.35    | 455740   | 6B38.0-E       | 155.0 | A3    | 1.38 | 0.18 |          |  |

| 8-Groove |          |             |       |       |      |      | F = 6.25 |  |
|----------|----------|-------------|-------|-------|------|------|----------|--|
| O.D.Δ    | Part No. | Description | Wt.   | Type‡ | M    | K    |          |  |
| 5.8      | 455741   | 8B5.4-SK    | 15.0  | A1    | 1.88 | 0.98 |          |  |
| 6.0      | 455742   | 8B5.6-SK    | 16.0  | A1    | 1.88 | 0.98 |          |  |
| 6.4      | 455743   | 8B6.0-SF    | 21.0  | A1    | 1.81 | 0.87 |          |  |
| 6.8      | 455744   | 8B6.4-SF    | 23.0  | A1    | 1.81 | 0.87 |          |  |
| 7.2      | 455745   | 8B6.8-SF    | 25.0  | A1    | 1.25 | 0.31 |          |  |
| 7.8      | 455746   | 8B7.4-SF    | 28.0  | A1    | 1.25 | 1.18 |          |  |
| 9.0      | 455747   | 8B8.6-E     | 40.0  | A1    | 2.38 | 1.18 |          |  |
| 9.8      | 455748   | 8B9.4-E     | 43.0  | A1    | 2.38 | 1.18 |          |  |
| 11.4     | 455749   | 8B11.0-E    | 49.0  | A1    | 2.38 | 1.18 |          |  |
| 12.8     | 455750   | 8B12.4-E    | 56.0  | A2    | 2.38 | 1.18 |          |  |
| 15.8     | 455751   | 8B15.4-E    | 69.0  | A2    | 2.38 | 1.18 |          |  |
| 18.8     | 455752   | 8B18.4-F    | 91.0  | D3    | 1.31 | 0.11 |          |  |
| 20.4     | 455753   | 8B20.0-F    | 84.0  | D3    | 1.31 | 0.11 |          |  |
| 25.4     | 455754   | 8B25.0-F    | 111.0 | D3    | 1.31 | 0.11 |          |  |
| 30.4     | 455755   | 8B30.0-F    | 142.0 | D3    | 1.31 | 0.11 |          |  |
| 38.4     | 455756   | 8B38.0-F    | 200.0 | D3    | 1.31 | 0.11 |          |  |

| 10-Groove |          |             |       |       |      |      | F = 7.75 |  |
|-----------|----------|-------------|-------|-------|------|------|----------|--|
| O.D.Δ     | Part No. | Description | Wt.   | Type‡ | M    | K    |          |  |
| 5.8       | 455757   | 10B5.4-SK   | 18.0  | A1    | 3.25 | 2.36 |          |  |
| 6.0       | 455758   | 10B5.6-SK   | 19.0  | A1    | 3.50 | 2.61 |          |  |
| 6.4       | 455759   | 10B6.0-SF   | 24.0  | A1    | 3.25 | 2.31 |          |  |
| 6.8       | 455760   | 10B6.4-SF   | 26.0  | A1    | 3.50 | 2.56 |          |  |
| 7.2       | 455761   | 10B6.8-SF   | 28.0  | A1    | 3.00 | 2.06 |          |  |
| 7.8       | 455762   | 10B7.4-SF   | 32.0  | A1    | 2.56 | 1.62 |          |  |
| 9.0       | 455763   | 10B8.6-E    | 47.0  | A1    | 3.13 | 1.93 |          |  |
| 9.8       | 455764   | 10B9.4-E    | 48.0  | A1    | 3.13 | 1.93 |          |  |
| 11.4      | 455765   | 10B11.0-E   | 56.0  | A1    | 3.13 | 1.93 |          |  |
| 12.8      | 455766   | 10B12.4-F   | 64.0  | A1    | 3.13 | 1.70 |          |  |
| 15.8      | 455767   | 10B15.4-F   | 88.0  | A2    | 2.06 | 0.64 |          |  |
| 18.8      | 455768   | 10B18.4-F   | 103.0 | A3    | 2.06 | 0.64 |          |  |
| 20.4      | 455769   | 10B20.0-F   | 99.0  | A3    | 2.06 | 0.64 |          |  |
| 25.4      | 455770   | 10B25.0-F   | 132.0 | A3    | 2.06 | 0.64 |          |  |
| 30.4      | 455771   | 10B30.0-F   | 169.0 | A3    | 2.06 | 0.64 |          |  |
| 38.4      | 455772   | 10B38.0-J   | 257.0 | D3    | 1.44 | 0.16 |          |  |

Δ P.D. for "A" Belts = O.D. - .37"  
P.D. for "B" Belts = O.D. + .01"

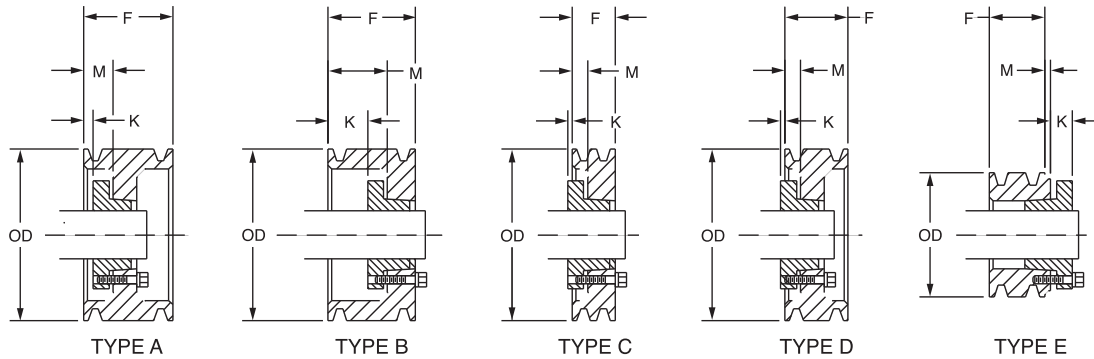
‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-2.

V-Drives  
FHP Drives  
Drive Component Accessories  
DYNA-SYNC  
HT200/HTD Synchronous Drives  
HT500 Synchronous Drives  
Roller Chain Sprockets

# SELECTION/DIMENSIONS



## C QD SHEAVES - Heavy Duty



| 1-Groove |          |             |      |       |      |      | F = 1.38 |  |
|----------|----------|-------------|------|-------|------|------|----------|--|
| O.D.Δ    | Part No. | Description | Wt.  | Type‡ | M    | K    |          |  |
| 7.4      | 455773   | 1C7.0-SF    | 9.0  | C1    | 0.13 | 0.82 |          |  |
| 7.9      | 455774   | 1C7.5-SF    | 11.0 | C1    | 0.13 | 0.82 |          |  |
| 8.4      | 455775   | 1C8.0-SF    | 11.0 | C1    | 0.13 | 0.82 |          |  |
| 8.9      | 455776   | 1C8.5-SF    | 12.0 | C1    | 0.13 | 0.82 |          |  |
| 9.4      | 455777   | 1C9.0-SF    | 12.0 | C1    | 0.13 | 0.82 |          |  |
| 9.9      | 455778   | 1C9.5-SF    | 13.0 | C1    | 0.13 | 0.82 |          |  |
| 10.4     | 455779   | 1C10.0-SF   | 14.0 | C2    | 0.13 | 0.82 |          |  |
| 10.9     | 455780   | 1C10.5-SF   | 14.0 | C2    | 0.13 | 0.82 |          |  |
| 11.4     | 455781   | 1C11.0-SF   | 16.0 | C2    | 0.13 | 0.82 |          |  |
| 12.4     | 455782   | 1C12.0-SF   | 17.0 | C2    | 0.13 | 0.82 |          |  |
| 13.4     | 455783   | 1C13.0-SF   | 19.0 | C3    | 0.13 | 0.82 |          |  |
| 14.4     | 455784   | 1C14.0-SF   | 21.0 | C3    | 0.13 | 0.82 |          |  |
| 16.4     | 455785   | 1C16.0-SF   | 24.0 | C3    | 0.13 | 0.82 |          |  |
| 18.4     | 455786   | 1C18.0-SF   | 27.0 | C3    | 0.13 | 0.82 |          |  |
| 20.4     | 455787   | 1C20.0-SF   | 31.0 | C3    | 0.13 | 0.82 |          |  |
| 24.4     | 455788   | 1C24.0-SF   | 38.0 | C3    | 0.13 | 0.82 |          |  |

| 2-Groove |          |             |      |       |      |      | F = 2.37 |  |
|----------|----------|-------------|------|-------|------|------|----------|--|
| O.D.Δ    | Part No. | Description | Wt.  | Type‡ | M    | K    |          |  |
| 7.4      | 455789   | 2C7.0-SF    | 18.0 | D1    | 0.81 | 0.13 |          |  |
| 7.9      | 455790   | 2C7.5-SF    | 20.0 | D1    | 0.81 | 0.13 |          |  |
| 8.4      | 455791   | 2C8.0-SF    | 19.0 | D1    | 0.81 | 0.13 |          |  |
| 8.9      | 455792   | 2C8.5-SF    | 20.0 | D1    | 0.81 | 0.13 |          |  |
| 9.4      | 455793   | 2C9.0-SF    | 21.0 | D1    | 0.81 | 0.13 |          |  |
| 9.9      | 455794   | 2C9.5-SF    | 22.0 | D1    | 0.81 | 0.13 |          |  |
| 10.4     | 455795   | 2C10.0-SF   | 23.0 | D2    | 0.81 | 0.13 |          |  |
| 10.9     | 455796   | 2C10.5-SF   | 23.0 | D2    | 0.81 | 0.13 |          |  |
| 11.4     | 455797   | 2C11.0-SF   | 25.0 | D2    | 0.81 | 0.13 |          |  |
| 12.4     | 455798   | 2C12.0-SF   | 27.0 | D2    | 0.56 | 0.38 |          |  |
| 13.4     | 455799   | 2C13.0-SF   | 29.0 | D3    | 0.56 | 0.68 |          |  |
| 14.4     | 455800   | 2C14.0-SF   | 34.0 | D3    | 0.56 | 0.38 |          |  |
| 16.4     | 455801   | 2C16.0-SF   | 39.0 | D3    | 0.63 | 0.32 |          |  |
| 18.4     | 455802   | 2C18.0-SF   | 39.0 | D2    | 0.63 | 0.32 |          |  |
| 20.4     | 455803   | 2C20.0-SF   | 43.0 | D3    | 0.56 | 0.38 |          |  |
| 24.4     | 455804   | 2C24.0-SF   | 55.0 | D3    | 0.56 | 0.38 |          |  |
| 27.4     | 456012   | 2C27.0-F    | 72.0 | C3    | 0.56 | 0.86 |          |  |
| 30.4     | 456805   | 2C30.0-F    | 82.0 | C3    | 0.56 | 0.86 |          |  |

| 3-Groove |          |             |       |       |      |      | F = 3.38 |  |
|----------|----------|-------------|-------|-------|------|------|----------|--|
| O.D.Δ    | Part No. | Description | Wt.   | Type‡ | M    | K    |          |  |
| 5.4      | 455806   | +3C5.0-SD   | 9.0   | A1    | 1.31 | 0.62 |          |  |
| 5.9      | 455807   | +3C5.5-SD   | 10.0  | A1    | 1.31 | 0.62 |          |  |
| 6.4      | 455808   | +3C6.0-SF   | 10.0  | A1    | 1.31 | 0.37 |          |  |
| 7.4      | 455809   | 3C7.0-SF    | 20.0  | A1    | 1.13 | 0.18 |          |  |
| 7.9      | 455810   | 3C7.5-SF    | 23.0  | A1    | 1.31 | 0.37 |          |  |
| 8.4      | 455811   | 3C8.0-E     | 33.0  | B1    | 1.75 | 0.55 |          |  |
| 8.9      | 455812   | 3C8.5-E     | 35.0  | B1    | 1.75 | 0.55 |          |  |
| 9.4      | 455813   | 3C9.0-E     | 36.0  | B1    | 1.75 | 0.55 |          |  |
| 9.9      | 455814   | 3C9.5-E     | 37.0  | B1    | 1.75 | 0.55 |          |  |
| 10.4     | 455815   | 3C10.0-E    | 39.0  | B1    | 1.75 | 0.55 |          |  |
| 10.9     | 455816   | 3C10.5-E    | 39.0  | B1    | 1.75 | 0.55 |          |  |
| 11.4     | 455817   | 3C11.0-E    | 40.0  | B1    | 1.75 | 0.55 |          |  |
| 12.4     | 455818   | 3C12.0-E    | 43.0  | B2    | 1.75 | 0.55 |          |  |
| 13.4     | 455819   | 3C13.0-E    | 45.0  | B3    | 1.75 | 0.55 |          |  |
| 14.4     | 455820   | 3C14.0-E    | 51.0  | B3    | 1.75 | 0.55 |          |  |
| 16.4     | 455821   | 3C16.0-E    | 59.0  | A3    | 1.31 | 0.12 |          |  |
| 18.4     | 455822   | 3C18.0-E    | 55.0  | D3    | 0.81 | 0.38 |          |  |
| 20.4     | 455823   | 3C20.0-E    | 60.0  | D3    | 1.00 | 0.20 |          |  |
| 24.4     | 455824   | 3C24.0-E    | 75.0  | D3    | 1.00 | 0.20 |          |  |
| 27.4     | 456013   | 3C27.0-F    | 91.0  | D3    | 0.81 | 0.61 |          |  |
| 30.4     | 455825   | 3C30.0-F    | 104.0 | D3    | 0.81 | 0.61 |          |  |
| 36.4     | 455826   | 3C36.0-F    | 133.0 | D3    | 0.81 | 0.61 |          |  |
| 44.4     | 455827   | 3C44.0-F    | 176.0 | D3    | 0.81 | 0.61 |          |  |
| 50.4     | 455828   | 3C50.0-F    | 211.0 | D3    | 0.81 | 0.61 |          |  |

| 4-Groove |          |             |       |       |      |      | F = 4.37 |  |
|----------|----------|-------------|-------|-------|------|------|----------|--|
| O.D.Δ    | Part No. | Description | Wt.   | Type‡ | M    | K    |          |  |
| 5.4      | 455829   | +4C5.0-SD   | 11.0  | A1    | 1.56 | 0.87 |          |  |
| 5.9      | 455830   | +4C5.5-SD   | 12.0  | A1    | 1.56 | 0.87 |          |  |
| 6.4      | 455831   | +4C6.0-SF   | 11.0  | A1    | 1.56 | 0.62 |          |  |
| 7.4      | 455832   | 4C7.0-SF    | 23.0  | A1    | 1.56 | 0.62 |          |  |
| 7.9      | 455833   | 4C7.5-SF    | 25.0  | A1    | 1.50 | 0.56 |          |  |
| 8.4      | 455834   | 4C8.0-E     | 36.0  | A1    | 2.00 | 0.80 |          |  |
| 8.9      | 455835   | 4C8.5-E     | 39.0  | A1    | 2.00 | 0.80 |          |  |
| 9.4      | 455836   | 4C9.0-E     | 39.0  | A1    | 2.13 | 0.93 |          |  |
| 9.9      | 455837   | 4C9.5-E     | 41.0  | A1    | 2.00 | 0.80 |          |  |
| 10.4     | 455838   | 4C10.0-E    | 43.0  | A1    | 2.13 | 0.93 |          |  |
| 10.9     | 455839   | 4C10.5-E    | 44.0  | A1    | 2.13 | 0.93 |          |  |
| 11.4     | 455840   | 4C11.0-E    | 46.0  | A1    | 2.13 | 0.93 |          |  |
| 12.4     | 455841   | 4C12.0-E    | 50.0  | A2    | 2.13 | 0.93 |          |  |
| 13.4     | 455842   | 4C13.0-E    | 53.0  | A3    | 2.00 | 0.80 |          |  |
| 14.4     | 455843   | 4C14.0-E    | 59.0  | A2    | 1.81 | 0.62 |          |  |
| 16.4     | 455844   | 4C16.0-E    | 69.0  | A3    | 1.94 | 0.74 |          |  |
| 18.4     | 455845   | 4C18.0-E    | 66.0  | A3    | 1.88 | 0.68 |          |  |
| 20.4     | 455846   | 4C20.0-E    | 72.0  | A3    | 1.50 | 0.30 |          |  |
| 24.4     | 455847   | 4C24.0-F    | 95.0  | D3    | 1.31 | 0.11 |          |  |
| 27.4     | 456014   | 4C27.0-F    | 110.0 | D3    | 1.31 | 0.11 |          |  |
| 30.4     | 455848   | 4C30.0-F    | 126.0 | D3    | 1.31 | 0.11 |          |  |
| 36.4     | 455849   | 4C36.0-F    | 162.0 | D3    | 1.31 | 0.11 |          |  |
| 44.4     | 455850   | 4C44.0-F    | 236.0 | D3    | 1.19 | 0.41 |          |  |
| 50.4     | 455851   | 4C50.0-J    | 279.0 | D3    | 1.56 | 0.04 |          |  |

Δ Pitch Diameter = O.D.

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-2.

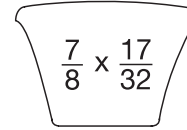
+ Recommended CX Belt only





## SELECTION/DIMENSIONS

### C QD SHEAVES - Heavy Duty



| 5-Groove |          |             |       |       |      |      | F = 5.37 |
|----------|----------|-------------|-------|-------|------|------|----------|
| O.D.Δ    | Part No. | Description | Wt.   | Type‡ | M    | K    |          |
| 6.4      | 455852   | +5C6.0-SF   | 13.0  | A1    | 1.94 | 1.00 |          |
| 7.4      | 455853   | 5C7.0-SF    | 26.0  | A1    | 1.25 | 0.31 |          |
| 7.9      | 455854   | 5C7.5-SF    | 28.0  | A1    | 1.88 | 0.93 |          |
| 8.4      | 455855   | 5C8.0-E     | 39.0  | A1    | 1.50 | 0.30 |          |
| 8.9      | 455856   | 5C8.5-E     | 42.0  | A1    | 1.63 | 0.43 |          |
| 9.4      | 455857   | 5C9.0-E     | 43.0  | A1    | 1.63 | 0.43 |          |
| 9.9      | 455858   | 5C9.5-E     | 45.0  | A1    | 1.50 | 0.30 |          |
| 10.4     | 455859   | 5C10.0-E    | 48.0  | A1    | 1.50 | 0.30 |          |
| 10.9     | 455860   | 5C10.5-E    | 50.0  | A1    | 1.50 | 0.30 |          |
| 11.4     | 455861   | 5C11.0-E    | 52.0  | A1    | 2.25 | 1.05 |          |
| 12.4     | 455862   | 5C12.0-E    | 57.0  | A1    | 2.22 | 1.02 |          |
| 13.4     | 455863   | 5C13.0-E    | 61.0  | A2    | 2.00 | 0.80 |          |
| 14.4     | 455864   | 5C14.0-E    | 69.0  | A2    | 2.00 | 0.80 |          |
| 16.4     | 455865   | 5C16.0-E    | 79.0  | A3    | 2.00 | 0.80 |          |
| 18.4     | 455866   | 5C18.0-E    | 74.0  | A3    | 2.38 | 1.18 |          |
| 20.4     | 455867   | 5C20.0-F    | 88.0  | D3    | 1.31 | 0.11 |          |
| 24.4     | 455868   | 5C24.0-F    | 110.0 | D3    | 1.31 | 0.11 |          |
| 27.4     | 456083   | 5C27.0-F    | 128.0 | D3    | 1.31 | 0.11 |          |
| 30.4     | 455869   | 5C30.0-F    | 148.0 | D3    | 1.31 | 0.11 |          |
| 36.4     | 455870   | 5C36.0-J    | 212.0 | D3    | 1.31 | 0.29 |          |
| 44.4     | 455871   | 5C44.0-J    | 274.0 | D3    | 1.31 | 0.29 |          |
| 50.0     | 455872   | 5C50.0-J    | 325.0 | D3    | 1.56 | 0.04 |          |

| 8-Groove |          |             |       |       |      |      | F = 8.37 |
|----------|----------|-------------|-------|-------|------|------|----------|
| O.D.Δ    | Part No. | Description | Wt.   | Type‡ | M    | K    |          |
| 7.4      | 455894   | 8C7.0-SF    | 32.0  | A1    | 4.00 | 3.06 |          |
| 8.4      | 455895   | 8C8.0-E     | 49.0  | A1    | 3.25 | 2.05 |          |
| 8.9      | 455896   | 8C8.5-E     | 53.0  | A1    | 3.25 | 2.05 |          |
| 9.4      | 455897   | 8C9.0-F     | 68.0  | A1    | 2.50 | 1.08 |          |
| 9.9      | 455898   | 8C9.5-F     | 74.0  | A1    | 2.50 | 1.08 |          |
| 10.4     | 455899   | 8C10.0-F    | 73.0  | A1    | 2.50 | 1.08 |          |
| 10.9     | 455900   | 8C10.5-F    | 74.0  | A1    | 2.50 | 1.08 |          |
| 11.4     | 455901   | 8C11.0-F    | 78.0  | A1    | 3.38 | 1.95 |          |
| 12.4     | 455902   | 8C12.0-F    | 86.0  | A1    | 3.38 | 1.95 |          |
| 13.4     | 455903   | 8C13.0-F    | 93.0  | A1    | 3.38 | 1.95 |          |
| 14.4     | 455904   | 8C14.0-F    | 102.0 | A1    | 3.38 | 1.95 |          |
| 16.4     | 455905   | 8C16.0-F    | 116.0 | A3    | 3.38 | 1.95 |          |
| 18.4     | 455906   | 8C18.0-F    | 133.0 | A3    | 3.63 | 2.20 |          |
| 20.4     | 455907   | 8C20.0-J    | 147.0 | D3    | 1.56 | 0.04 |          |
| 24.4     | 455908   | 8C24.0-J    | 179.0 | D3    | 1.56 | 0.04 |          |
| 27.4     | 456085   | 8C27.0-J    | 205.0 | D3    | 1.56 | 0.04 |          |
| 30.4     | 455909   | 8C30.0-J    | 233.0 | D3    | 1.56 | 0.04 |          |
| 36.4     | 455910   | 8C36.0-M    | 339.0 | A3    | 1.94 | 0.20 |          |
| 44.4     | 455911   | 8C44.0-M    | 428.0 | A3    | 1.94 | 0.20 |          |
| 50.4     | 455912   | 8C50.0-M    | 502.0 | A3    | 1.94 | 0.20 |          |

| 12-Groove |          |              |       |       |      |      | F = 12.37 |
|-----------|----------|--------------|-------|-------|------|------|-----------|
| O.D.Δ     | Part No. | Description  | Wt.   | Type‡ | M    | K    |           |
| 9.4       | 455930   | 12C9.0-J     | 92.0  | A1    | 4.06 | 2.46 |           |
| 9.9       | 455931   | 12C9.5-J     | 100.0 | A1    | 4.06 | 2.46 |           |
| 10.4      | 455932   | 33'12C10.0-J | 108.0 | A1    | 4.06 | 2.46 |           |
| 10.9      | 455933   | 12C10.5-J    | 115.0 | A1    | 4.06 | 2.46 |           |
| 11.4      | 455934   | 12C11.0-J    | 125.0 | A1    | 4.06 | 2.46 |           |
| 12.4      | 455935   | 12C12.0-J    | 127.0 | A1    | 4.06 | 2.46 |           |
| 13.4      | 455936   | 12C13.0-J    | 135.0 | A1    | 4.06 | 2.46 |           |
| 14.4      | 455937   | 12C14.0-J    | 145.0 | A1    | 4.06 | 2.46 |           |
| 16.4      | 455938   | 12C16.0-J    | 165.0 | A2    | 4.06 | 2.46 |           |
| 18.4      | 455939   | 12C18.0-J    | 198.0 | A3    | 4.06 | 2.46 |           |
| 20.4      | 455940   | 12C20.0-M    | 277.0 | A3    | 1.94 | 0.20 |           |
| 24.4      | 455941   | 12C24.0-M    | 287.0 | A3    | 1.94 | 0.20 |           |
| 30.4      | 455942   | 12C30.0-M    | 362.0 | A3    | 1.94 | 0.20 |           |
| 36.4      | 455943   | 12C36.0-M    | 446.0 | A3    | 1.94 | 0.20 |           |
| 44.4      | 455944   | 12C44.0-M    | 572.0 | A3    | 1.94 | 0.20 |           |
| 50.4      | 455945   | 12C50.0-M    | 676.0 | A3    | 1.94 | 0.20 |           |

| 6-Groove |          |             |       |       |      |      | F = 6.37 |
|----------|----------|-------------|-------|-------|------|------|----------|
| O.D.Δ    | Part No. | Description | Wt.   | Type‡ | M    | K    |          |
| 6.4      | 455873   | +6C6.0-SF   | 15.0  | A1    | 1.94 | 1.00 |          |
| 7.4      | 455874   | 6C7.0-SF    | 29.0  | A1    | 1.94 | 1.00 |          |
| 7.9      | 455875   | 6C7.5-SF    | 31.0  | A1    | 1.94 | 1.18 |          |
| 8.4      | 455876   | 6C8.0-E     | 42.0  | A1    | 2.38 | 1.18 |          |
| 8.9      | 455877   | 6C8.5-E     | 46.0  | A1    | 2.38 | 1.02 |          |
| 9.4      | 455878   | 6C9.0-F     | 60.0  | A1    | 2.44 | 1.02 |          |
| 9.9      | 455879   | 6C9.5-F     | 66.0  | A1    | 2.44 | 1.02 |          |
| 10.4     | 455880   | 6C10.0-F    | 64.0  | A1    | 2.44 | 1.02 |          |
| 10.9     | 455881   | 6C10.5-F    | 65.0  | A1    | 2.44 | 1.02 |          |
| 11.4     | 455882   | 6C11.0-F    | 68.0  | A1    | 2.44 | 1.02 |          |
| 12.4     | 455883   | 6C12.0-F    | 73.0  | A1    | 2.44 | 1.02 |          |
| 13.4     | 455884   | 6C13.0-F    | 76.0  | A2    | 2.50 | 1.08 |          |
| 14.4     | 455885   | 6C14.0-F    | 85.0  | A2    | 2.44 | 1.02 |          |
| 16.4     | 455886   | 6C16.0-F    | 96.0  | A3    | 2.44 | 1.02 |          |
| 18.4     | 455887   | 6C18.0-F    | 90.0  | A3    | 2.63 | 1.20 |          |
| 20.4     | 455888   | 6C20.0-F    | 100.0 | A3    | 1.94 | 0.52 |          |
| 24.4     | 455889   | 6C24.0-F    | 126.0 | A3    | 1.94 | 0.52 |          |
| 27.4     | 456084   | 6C27.0-J    | 169.0 | D3    | 0.56 | 0.04 |          |
| 30.4     | 455890   | 6C30.0-J    | 191.0 | D3    | 1.56 | 0.04 |          |
| 36.4     | 455891   | 6C36.0-J    | 239.0 | D3    | 1.56 | 0.04 |          |
| 44.4     | 455892   | 6C44.0-J    | 310.0 | D3    | 1.56 | 0.04 |          |
| 50.4     | 455893   | 6C50.0-J    | 415.0 | B3    | 1.94 | 0.34 |          |

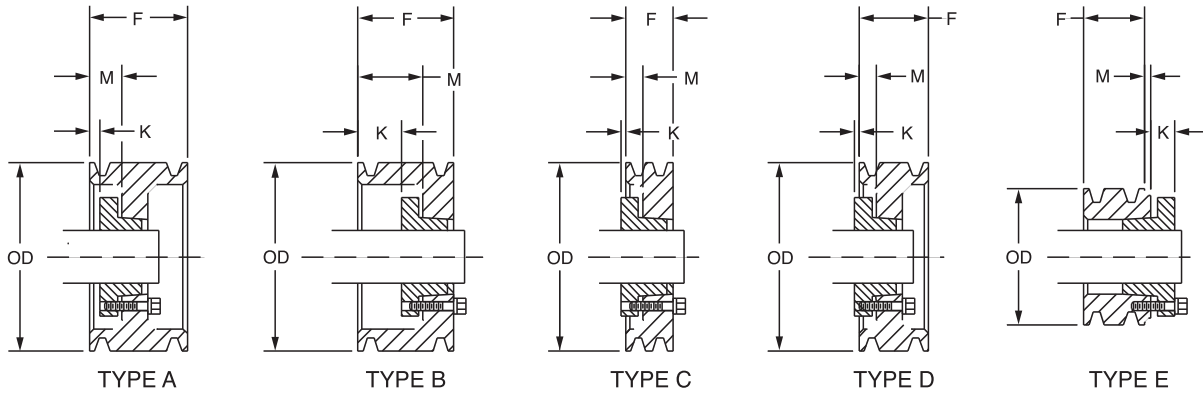
| 10-Groove |          |             |       |       |      |      | F = 10.37 |
|-----------|----------|-------------|-------|-------|------|------|-----------|
| O.D.Δ     | Part No. | Description | Wt.   | Type‡ | M    | K    |           |
| 8.4       | 455913   | 10C8.0-E    | 76.0  | A1    | 3.25 | 2.05 |           |
| 8.9       | 455914   | 10C8.5-E    | 80.0  | A1    | 3.25 | 2.05 |           |
| 9.4       | 455915   | 10C9.0-J    | 84.0  | A1    | 3.56 | 1.96 |           |
| 9.9       | 455916   | 10C9.5-J    | 91.0  | A1    | 3.56 | 1.96 |           |
| 10.4      | 455917   | 10C10.0-J   | 99.0  | A1    | 3.56 | 1.96 |           |
| 10.9      | 455918   | 10C10.5-J   | 106.0 | A1    | 3.56 | 1.96 |           |
| 11.4      | 455919   | 10C11.0-J   | 115.0 | A1    | 3.56 | 1.96 |           |
| 12.4      | 455920   | 10C12.0-J   | 114.0 | A1    | 3.56 | 1.96 |           |
| 13.4      | 456061   | 10C13.0-J   | 119.0 | A1    | 3.56 | 1.96 |           |
| 14.4      | 455921   | 10C14.0-J   | 128.0 | A1    | 3.63 | 2.02 |           |
| 16.4      | 455922   | 10C16.0-J   | 147.0 | A1    | 3.56 | 1.96 |           |
| 18.4      | 455923   | 10C18.0-J   | 156.0 | A3    | 3.56 | 1.96 |           |
| 20.4      | 455924   | 10C20.0-J   | 171.0 | A3    | 3.56 | 1.96 |           |
| 24.4      | 455925   | 10C24.0-M   | 257.0 | A3    | 1.94 | 0.20 |           |
| 30.4      | 455926   | 10C30.0-M   | 321.0 | A3    | 1.94 | 0.20 |           |
| 36.4      | 455927   | 10C36.0-M   | 393.0 | A3    | 1.94 | 0.20 |           |
| 44.4      | 455928   | 10C44.0-M   | 500.0 | A3    | 1.94 | 0.20 |           |
| 50.4      | 455929   | 10C50.0-M   | 589.0 | A3    | 1.94 | 0.20 |           |

Δ Pitch Diameter = O.D.  
 ‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-2.  
 + Recommended CX Belt only

# SELECTION/DIMENSIONS



## D QD SHEAVES - Heavy Duty



| 3-Groove F = 4.62 |          |             |       |       |      |      |
|-------------------|----------|-------------|-------|-------|------|------|
| O.D.Δ             | Part No. | Description | Wt.   | Type‡ | M    | K    |
| 12.6              | 455946   | 3D 12.0-F   | 83.0  | A1    | 1.50 | 0.08 |
| 13.6              | 455947   | 3D 13.0-F   | 88.0  | A1    | 1.50 | 0.08 |
| 14.1              | 455948   | 3D 13.5-F   | 88.0  | A1    | 1.50 | 0.08 |
| 14.6              | 455949   | 3D 14.0-F   | 111.0 | A1    | 1.50 | 0.08 |
| 15.1              | 455950   | 3D 14.5-F   | 111.0 | A1    | 1.50 | 0.08 |
| 15.6              | 455951   | 3D 15.0-F   | 105.0 | A2    | 1.50 | 0.08 |
| 16.1              | 455952   | 3D 15.5-F   | 105.0 | A2    | 1.50 | 0.08 |
| 16.6              | 455953   | 3D 16.0-F   | 150.0 | A2    | 1.50 | 0.08 |
| 18.6              | 455954   | 3D 18.0-J   | 146.0 | D2    | 1.19 | 0.41 |
| 20.6              | 455955   | 3D 20.0-J   | 117.0 | D2    | 1.19 | 0.41 |
| 22.6              | 455956   | 3D 22.0-J   | 128.0 | D2    | 1.19 | 0.41 |
| 27.6              | 455957   | 3D 27.0-J   | 129.0 | D3    | 1.19 | 0.41 |
| 33.6              | 455958   | 3D 33.0-J   | 200.0 | D3    | 1.19 | 0.41 |

| 4-Groove F = 6.06 |          |             |       |       |      |      |
|-------------------|----------|-------------|-------|-------|------|------|
| O.D.Δ             | Part No. | Description | Wt.   | Type‡ | M    | K    |
| 12.6              | 455960   | 4D 12.0-F   | 85.0  | A1    | 2.31 | 0.89 |
| 13.6              | 455961   | 4D 13.0-F   | 76.0  | A1    | 2.31 | 0.89 |
| 14.1              | 455962   | 4D 13.5-F   | 107.0 | A1    | 2.31 | 0.89 |
| 14.6              | 455983   | 4D 14.0-F   | 106.0 | A2    | 2.31 | 0.89 |
| 15.1              | 455964   | 4D 14.5-F   | 106.0 | A2    | 2.31 | 0.89 |
| 15.6              | 455965   | 4D 15.0-F   | 110.0 | A2    | 2.31 | 0.89 |
| 16.1              | 455966   | 4D 15.5-F   | 110.0 | A2    | 2.31 | 0.89 |
| 16.6              | 455967   | 4D 16.0-F   | 150.0 | A2    | 2.31 | 0.89 |
| 18.6              | 455968   | 4D 18.0-J   | 146.0 | D2    | 1.56 | 0.04 |
| 20.6              | 455969   | 4D 20.0-J   | 137.0 | D2    | 1.56 | 0.04 |
| 22.6              | 455970   | 4D 22.0-J   | 151.0 | D2    | 1.56 | 0.04 |
| 27.6              | 455971   | 4D 27.0-J   | 190.0 | D3    | 1.56 | 0.04 |
| 33.6              | 455972   | 4D 33.0-M   | 288.0 | C3    | 1.06 | 0.68 |
| 40.6              | 455973   | 4D 40.0-M   | 354.0 | C3    | 1.06 | 0.68 |
| 48.6              | 455974   | 4D 48.0-M   | 439.0 | C3    | 1.06 | 0.68 |

| 5-Groove F = 7.50 |          |             |       |       |      |      |
|-------------------|----------|-------------|-------|-------|------|------|
| O.D.Δ             | Part No. | Description | Wt.   | Type‡ | M    | K    |
| 12.6              | 455976   | 5D 12.0-F   | 98.0  | A1    | 3.06 | 1.64 |
| 13.6              | 455977   | 5D 13.0-F   | 114.0 | A1    | 3.06 | 1.64 |
| 14.1              | 455978   | 5D 13.5-F   | 134.0 | A1    | 3.06 | 1.64 |
| 14.6              | 455979   | 5D 14.0-F   | 140.0 | A1    | 3.06 | 1.64 |
| 15.1              | 455980   | 5D 14.5-F   | 140.0 | A1    | 3.06 | 1.64 |
| 15.6              | 455981   | 5D 15.0-F   | 146.0 | A2    | 3.06 | 1.64 |
| 16.1              | 455982   | 5D 15.5-F   | 146.0 | A2    | 3.06 | 1.64 |
| 16.6              | 455983   | 5D 16.0-F   | 143.0 | A2    | 3.06 | 1.64 |
| 18.6              | 455984   | 5D 18.0-J   | 164.0 | D2    | 1.56 | 0.04 |
| 20.6              | 455985   | 5D 20.0-J   | 157.0 | D2    | 0.69 | 0.91 |
| 22.6              | 455986   | 5D 22.0-J   | 174.0 | D3    | 1.56 | 0.04 |
| 27.6              | 455987   | 5D 27.0-M   | 268.0 | A3    | 1.94 | 0.20 |
| 33.6              | 455988   | 5D 33.0-M   | 329.0 | A3    | 1.94 | 0.20 |
| 40.6              | 455989   | 5D 40.0-M   | 408.0 | A3    | 1.94 | 0.20 |
| 48.6              | 455990   | 5D 48.0-M   | 510.0 | A3    | 1.94 | 0.20 |

| 6-Groove F = 8.93 |          |             |       |       |      |      |
|-------------------|----------|-------------|-------|-------|------|------|
| O.D.Δ             | Part No. | Description | Wt.   | Type‡ | M    | K    |
| 12.6              | 455992   | 6D 12.0-J   | 126.0 | A1    | 3.31 | 1.71 |
| 13.6              | 455993   | 6D 13.0-J   | 140.0 | A1    | 3.31 | 1.71 |
| 14.1              | 455994   | 6D 13.5-J   | 140.0 | A1    | 3.31 | 1.71 |
| 14.6              | 455995   | 6D 14.0-J   | 159.0 | A1    | 3.31 | 1.71 |
| 15.1              | 455996   | 6D 14.5-J   | 162.0 | A1    | 3.31 | 1.71 |
| 15.6              | 455997   | 6D 15.0-J   | 162.0 | A2    | 3.31 | 1.71 |
| 16.1              | 455998   | 6D 15.5-J   | 162.0 | A2    | 3.31 | 1.71 |
| 16.6              | 456000   | 6D 16.0-J   | 199.0 | A1    | 3.88 | 2.27 |
| 18.6              | 456001   | 6D 18.0-J   | 223.0 | A2    | 3.88 | 2.27 |
| 20.6              | 456002   | 6D 20.0-J   | 178.0 | A2    | 3.88 | 2.27 |
| 22.6              | 456003   | 6D 22.0-M   | 246.0 | A2    | 3.16 | 1.42 |
| 27.6              | 456004   | 6D 27.0-M   | 298.0 | A3    | 1.94 | 0.20 |
| 33.6              | 456005   | 6D 33.0-M   | 369.0 | A3    | 1.94 | 0.20 |
| 40.6              | 456006   | 6D 40.0-M   | 462.0 | A3    | 1.94 | 0.20 |
| 48.6              | 456007   | 6D 48.0-M   | 581.0 | A3    | 1.94 | 0.20 |
| 58.6              | 456008   | 6D 58.0-N   | 764.0 | D3    | 1.34 | 0.71 |

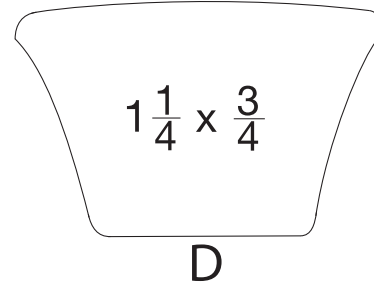
Δ Pitch Diameter = O.D.

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-2.



## SELECTION/DIMENSIONS

### D QD SHEAVES - Heavy Duty



| 8-Groove |          |             | F = 11.81 |       |      |      |
|----------|----------|-------------|-----------|-------|------|------|
| O.D.Δ    | Part No. | Description | Wt.       | Type‡ | M    | K    |
| 12.6     | 456009   | 8D 12.0-J   | 151.0     | A1    | 3.56 | 1.96 |
| 13.6     | 456010   | 8D 13.0-J   | 168.0     | A1    | 3.56 | 1.96 |
| 14.1     | 456011   | 8D 13.5-J   | 168.0     | A1    | 3.56 | 1.96 |
| 14.6     | 456015   | 8D 14.0-J   | 181.0     | A1    | 3.56 | 1.96 |
| 15.1     | 456016   | 8D 14.5-J   | 181.0     | A1    | 3.56 | 1.96 |
| 15.6     | 456017   | 8D 15.0-J   | 216.0     | A1    | 3.56 | 1.96 |
| 16.1     | 456018   | 8D 15.5-J   | 216.0     | A1    | 3.56 | 1.96 |
| 16.6     | 456019   | 8D 16.0-J   | 237.0     | A1    | 3.56 | 1.96 |
| 18.6     | 456020   | 8D 18.0-M   | 249.0     | A2    | 4.19 | 2.45 |
| 20.6     | 456021   | 8D 20.0-M   | 299.0     | A2    | 4.38 | 2.64 |
| 22.6     | 456022   | 8D 22.0-M   | 292.0     | A2    | 2.34 | 0.60 |
| 27.6     | 456023   | 8D 27.0-M   | 360.0     | A3    | 2.19 | 0.45 |
| 33.6     | 456024   | 8D 33.0-M   | 451.0     | A3    | 1.94 | 0.20 |
| 40.6     | 456025   | 8D 40.0-N   | 588.0     | A3    | 2.25 | 0.20 |
| 48.6     | 456026   | 8D 48.0-N   | 739.0     | A3    | 2.25 | 0.20 |
| 58.6     | 456027   | 8D 58.0-N   | 950.0     | D3    | 2.78 | 0.73 |

| 10-Groove |          |             | F = 14.68 |       |      |      |
|-----------|----------|-------------|-----------|-------|------|------|
| O.D.Δ     | Part No. | Description | Wt.       | Type‡ | M    | K    |
| 12.6      | 456028   | 10D 12.0-M  | 153.0     | A1    | 3.94 | 2.20 |
| 13.6      | 456029   | 10D 13.0-M  | 180.0     | A1    | 3.81 | 2.07 |
| 14.1      | 456030   | 10D 13.5-M  | 186.0     | A1    | 3.94 | 2.20 |
| 14.6      | 456031   | 10D 14.0-M  | 221.0     | A1    | 3.81 | 2.07 |
| 15.1      | 456032   | 10D 14.5-M  | 221.0     | A1    | 3.81 | 2.07 |
| 15.6      | 456033   | 10D 15.0-M  | 247.0     | A1    | 3.94 | 2.20 |
| 16.1      | 456034   | 10D 15.5-M  | 270.0     | A1    | 3.94 | 2.20 |
| 16.6      | 456035   | 10D 16.0-M  | 267.0     | A1    | 1.88 | 0.14 |
| 18.6      | 456036   | 10D 18.0-M  | 274.0     | A1    | 3.88 | 2.14 |
| 20.6      | 456037   | 10D 20.0-M  | 341.0     | A2    | 3.50 | 1.76 |
| 22.6      | 456038   | 10D 22.0-M  | 339.0     | A2    | 2.94 | 1.20 |
| 27.6      | 456039   | 10D 27.0-M  | 422.0     | A3    | 2.94 | 1.20 |
| 33.6      | 456040   | 10D 33.0-N  | 552.0     | A3    | 3.25 | 1.20 |
| 40.6      | 456041   | 10D 40.0-N  | 696.0     | A3    | 3.38 | 1.33 |
| 48.6      | 456042   | 10D 48.0-P  | 926.0     | A3    | 2.63 | 0.32 |
| 58.6      | 456043   | 10D 58-P    | 1179.0    | D3    | 3.72 | 1.42 |

Δ Pitch Diameter = O.D.

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-2.

**WARNING:** The sheaves listed in this catalog must not be used with the high modulus belts unless approved by factory. Do not use with belt speeds exceeding 6500 fpm. May cause sheaves to fragment resulting in personal injury or property damage.

| 12-Groove |          |             | F = 17.56 |       |      |      |
|-----------|----------|-------------|-----------|-------|------|------|
| O.D.Δ     | Part No. | Description | Wt.       | Type‡ | M    | K    |
| 12.6      | 456044   | 12D12.0--M  | 180.0     | A-1   | 7.31 | 4.94 |
| 12.6      | 456045   | 12D13.0--M  | 230.0     | A-1   | 7.31 | 4.94 |
| 14.6      | 456047   | 12D14.0--M  | 256.0     | A-1   | 7.31 | 4.94 |
| 15.1      | 456048   | 12D14.5-M   | 270.0     | A-1   | 7.31 | 4.94 |
| 15.6      | 456049   | 12D15.0--M  | 285.0     | A-1   | 7.31 | 4.94 |
| 16.1      | 456050   | 12D15.5--M  | 285.0     | A-1   | 7.31 | 4.94 |
| 16.6      | 456051   | 12D16.0--M  | 300.0     | A-2   | 7.31 | 4.94 |
| 18.6      | 456052   | 12D18.0-M   | 320.0     | A-2   | 7.31 | 4.94 |
| 22.6      | 456054   | 12D22.0--M  | 376.0     | A-3   | 8.31 | 3.94 |
| 27.6      | 456055   | 12D27.0--N  | 500.0     | A-3   | 6.94 | 4.25 |
| 33.6      | 456056   | 12D33.0--N  | 662.0     | A-3   | 6.94 | 4.25 |
| 40.6      | 456057   | 12D40.0-P   | 850.0     | A-3   | 7.56 | 2.63 |
| 48.6      | 456059   | 12D48.0-P   | 1100.0    | A-3   | 7.56 | 2.63 |
| 58.6      | 456060   | 12D58.0-P   | 1158.0    | A-3   | 7.56 | 2.63 |

Pitch Diameter = O.D.

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-2

# SELECTION/DIMENSIONS



## 3V QD SHEAVES - Standard Duty

| 1-Groove |                 | F = .69 up to and including 10.60 O.D. Balance .81 |      |       |      |      |
|----------|-----------------|--|------|-------|------|------|
| O.D.Δ    | Part No.        | Description  | Wt.  | Type‡ | M    | K    |
| # 2.20   | <b>D1-3V22</b>  | 1/3V2.2-JA   | 0.8  | E1    | 0.00 | 1.02 |
| # 2.35   | <b>D1-3V235</b> | 1/3V2.35-JA  | 0.85 | E1    | 0.00 | 1.02 |
| # 2.50   | <b>D1-3V25</b>  | 1/3V2.5-JA   | 0.92 | E1    | 0.00 | 1.02 |
| 2.65     | <b>D1-3V265</b> | 1/3V2.65-JA  | 0.5  | D1    | 0.06 | 0.45 |
| 2.80     | <b>D1-3V28</b>  | 1/3V2.8-JA   | 0.7  | D1    | 0.06 | 0.45 |
| 3.00     | <b>D1-3V30</b>  | 1/3V3.0-JA   | 0.7  | D1    | 0.06 | 0.45 |
| 3.15     | <b>D1-3V315</b> | 1/3V3.15-JA  | 0.7  | D1    | 0.06 | 0.45 |
| 3.35     | <b>D1-3V335</b> | 1/3V3.35-JA  | 1.1  | D1    | 0.06 | 0.45 |
| 3.65     | <b>D1-3V365</b> | 1/3V3.65-SH  | 1.3  | E1    | 0.00 | 0.63 |
| 4.12     | <b>D1-3V412</b> | 1/3V4.12-SH  | 1.8  | E1    | 0.00 | 0.63 |
| 4.50     | <b>D1-3V45</b>  | 1/3V4.5-SH   | 2.2  | E1    | 0.00 | 0.63 |
| 4.75     | <b>D1-3V475</b> | 1/3V4.75-SH  | 2.2  | E1    | 0.00 | 0.63 |
| 5.00     | <b>D1-3V50</b>  | 1/3V5.0-SH   | 2.9  | E1    | 0.00 | 0.63 |
| 5.30     | <b>D1-3V53</b>  | 1/3V5.3-SH   | 3.3  | E1    | 0.00 | 0.63 |
| 5.60     | <b>D1-3V56</b>  | 1/3V5.6-SH   | 3.7  | E1    | 0.00 | 0.63 |
| 6.00     | <b>D1-3V60</b>  | 1/3V6.0-SH   | 3.9  | E2    | 0.00 | 0.63 |
| 6.50     | <b>D1-3V65</b>  | 1/3V6.5-SH   | 4.9  | E2    | 0.00 | 0.63 |
| 6.90     | <b>D1-3V69</b>  | 1/3V6.9-SH   | 5.5  | E2    | 0.00 | 0.63 |
| 8.00     | <b>D1-3V80</b>  | 1/3V8.0-SDS  | 5.1  | E3    | 0.00 | 0.69 |
| 10.60    | <b>D1-3V106</b> | 1/3V10.6-SDS                                       | 8.6  | E3    | 0.00 | 0.69 |
| 14.00    | <b>D1-3V140</b> | 1/3V14.0-SK  | 15.3 | C3    | 0.00 | 0.81 |
| 19.00    | <b>D1-3V190</b> | 1/3V19.0-SK  | 18.3 | C3    | 0.00 | 0.91 |

| 2-Groove |                 | F = 1.09    |      |       |      |      |
|----------|-----------------|-------------|------|-------|------|------|
| O.D.Δ    | Part No.        | Description | Wt.  | Type‡ | M    | K    |
| # 2.20   | <b>D2-3V22</b>  | 2/3V2.2-JA  | 0.9  | E1    | 0.00 | 1.02 |
| # 2.35   | <b>D2-3V235</b> | 2/3V2.35-JA | 1.0  | E1    | 0.00 | 1.02 |
| # 2.50   | <b>D2-3V25</b>  | 2/3V2.5-JA  | 1.1  | E1    | 0.00 | 1.02 |
| ## 2.65  | <b>D2-3V265</b> | 2/3V2.65-JA | 0.8  | D1    | 0.13 | 0.39 |
| ## 2.80  | <b>D2-3V28</b>  | 2/3V2.8-JA  | 1.0  | D1    | 0.13 | 0.39 |
| ## 3.00  | <b>D2-3V30</b>  | 2/3V3.0-JA  | 1.2  | D1    | 0.13 | 0.39 |
| ## 3.15  | <b>D2-3V315</b> | 2/3V3.15-JA | 1.4  | D1    | 0.13 | 0.39 |
| ## 3.35  | <b>D2-3V335</b> | 2/3V3.35-SH | 1.2  | D1    | 0.13 | 0.50 |
| ## 3.65  | <b>D2-3V365</b> | 2/3V3.65-SH | 1.6  | D1    | 0.13 | 0.50 |
| 4.12     | <b>D2-3V412</b> | 2/3V4.12-SH | 2.2  | D1    | 0.34 | 0.28 |
| 4.50     | <b>D2-3V45</b>  | 2/3V4.5-SH  | 2.7  | D1    | 0.34 | 0.28 |
| 4.75     | <b>D2-3V475</b> | 2/3V4.75-SH | 3.2  | D1    | 0.34 | 0.28 |
| 5.00     | <b>D2-3V50</b>  | 2/3V5.0-SH  | 3.7  | D1    | 0.34 | 0.28 |
| 5.30     | <b>D2-3V53</b>  | 2/3V5.3-SH  | 4.2  | D1    | 0.34 | 0.28 |
| 5.60     | <b>D2-3V56</b>  | 2/3V5.6-SH  | 4.6  | D1    | 0.34 | 0.28 |
| 6.00     | <b>D2-3V60</b>  | 2/3V6.0-SH  | 5.0  | D2    | 0.34 | 0.28 |
| 6.50     | <b>D2-3V65</b>  | 2/3V6.5-SDS | 5.8  | D2    | 0.31 | 0.38 |
| 6.90     | <b>D2-3V69</b>  | 2/3V6.9-SDS | 6.4  | D2    | 0.31 | 0.38 |
| 8.00     | <b>D2-3V80</b>  | 2/3V8.0-SDS | 6.6  | D3    | 0.31 | 0.38 |
| 10.60    | <b>D2-3V106</b> | 2/3V10.6-SK | 11.7 | C3    | 0.19 | 0.63 |
| 14.00    | <b>D2-3V140</b> | 2/3V14.0-SK | 17.9 | C3    | 0.19 | 0.63 |
| 19.00    | <b>D2-3V190</b> | 2/3V19.0-SK | 26.6 | E3    | 0.00 | 0.81 |
| 25.00    | <b>D2-3V250</b> | 2/3V25.0-SF | 33.4 | C3    | 0.00 | 0.81 |

| 3-Groove |                  | F = 1.50     |      |       |      |      |
|----------|------------------|--------------|------|-------|------|------|
| O.D.Δ    | Part No.         | Description  | Wt.  | Type‡ | M    | K    |
| ## 2.65  | <b>D3-3V265</b>  | 3/3V2.65-JA  | 1.1  | D1    | 0.13 | 0.39 |
| ## 2.80  | <b>D3-3V28</b>   | 3-3V2.8-JA   | 1.3  | D1    | 0.13 | 0.39 |
| * 3.00   | <b>D3-3V30</b>   | 3/3V3.0-SH   | 1.6  | E1    | 0.00 | 1.03 |
| * 3.15   | <b>D3-3V315</b>  | 3/3V3.15-SH  | 2.0  | E1    | 0.00 | 1.00 |
| ## 3.35  | <b>D3-3V3.35</b> | 3/3V3.35-SH  | 1.8  | D1    | 0.06 | 0.56 |
| ## 3.65  | <b>D3-3V365</b>  | 3/3V3.65-SH  | 2.4  | D1    | 0.06 | 0.56 |
| 4.12     | <b>D3-3V412</b>  | 3/3V4.12-SH  | 2.7  | D1    | 0.63 | 0.00 |
| 4.50     | <b>D3-3V450</b>  | 3/3V4.50-SDS | 3.0  | D1    | 0.69 | 0.00 |
| 4.75     | <b>D3-3V475</b>  | 3/3V4.75-SDS | 3.7  | D1    | 0.69 | 0.00 |
| 5.00     | <b>D3-3V50</b>   | 3/3V5.0-SDS  | 4.2  | D1    | 0.69 | 0.00 |
| 5.30     | <b>D3-3V53</b>   | 3/3V5.3-SDS  | 4.7  | D1    | 0.69 | 0.00 |
| 5.60     | <b>D3-3V56</b>   | 3/3V5.6-SDS  | 5.2  | D1    | 0.69 | 0.00 |
| 6.00     | <b>D3-3V60</b>   | 3/3V6.0-SDS  | 6.2  | D1    | 0.69 | 0.00 |
| 6.50     | <b>D3-3V65</b>   | 3/3V6.5-SDS  | 6.7  | D2    | 0.69 | 0.00 |
| 6.90     | <b>D3-3V69</b>   | 3/3V6.9-SDS  | 7.5  | D2    | 0.69 | 0.00 |
| 8.00     | <b>D3-3V80</b>   | 3/3V8.0-SK   | 9.8  | D3    | 0.19 | 0.63 |
| 10.60    | <b>D3-3V106</b>  | 3/3V10.6-SK  | 14.0 | D3    | 0.19 | 0.63 |
| 14.00    | <b>D3-3V140</b>  | 3/3V14.0-SK  | 19.4 | D3    | 0.19 | 0.63 |
| 19.00    | <b>D3-3V190</b>  | 3/3V19.0-SF  | 32.1 | E3    | 0.00 | 0.81 |
| 25.00    | <b>D3-3V250</b>  | 3/3V25.0-SF  | 38.5 | E3    | 0.00 | 0.81 |
| 33.50    | <b>D3-3V335</b>  | 3/3V33.5-SF  | 79.3 | D3    | 0.10 | 0.72 |

| 4-Groove |                  | F = 1.90     |      |       |      |      |
|----------|------------------|--------------|------|-------|------|------|
| O.D.Δ    | Part No.         | Description  | Wt.  | Type‡ | M    | K    |
| ## 2.65  | <b>D4-3V2.65</b> | 4/3V2.65-JA  | 1.4  | D1    | 0.13 | 0.39 |
| ## 2.80  | <b>D4-3V28</b>   | 4/3V2.8-JA   | 1.6  | D1    | 0.13 | 0.39 |
| # 3.00   | <b>D4-3V30</b>   | 4/3V3.0-SH   | 2.3  | E1    | 0.00 | 1.03 |
| # 3.15   | <b>D4-3V315</b>  | 4/3V3.15-SH  | 2.7  | E1    | 0.00 | 1.00 |
| ## 3.35  | <b>D4-3V3.35</b> | 4/3V3.35-SH  | 2.3  | D1    | 0.13 | 0.50 |
| ## 3.65  | <b>D4-3V365</b>  | 4/3V3.65-SH  | 3.1  | D1    | 0.13 | 0.50 |
| 4.12     | <b>D4-3V412</b>  | 4/3V4.12-SH  | 3.2  | A1    | 0.81 | 0.19 |
| 4.50     | <b>D4-3V45</b>   | 4/3V4.5-SDS  | 3.4  | A1    | 0.88 | 0.19 |
| 4.75     | <b>D4-3V475</b>  | 4/3V4.75-SDS | 4.4  | A1    | 0.81 | 0.13 |
| 5.00     | <b>D4-3V50</b>   | 4/3V5.0-SDS  | 5.0  | A1    | 0.81 | 0.13 |
| 5.30     | <b>D4-3V53</b>   | 4/3V5.3-SDS  | 6.0  | A1    | 0.75 | 0.13 |
| 5.60     | <b>D4-3V56</b>   | 4/3V5.6-SDS  | 6.2  | A1    | 0.81 | 0.13 |
| 6.00     | <b>D4-3V60</b>   | 4/3V6.0-SK   | 7.8  | D1    | 0.56 | 0.25 |
| 6.50     | <b>D4-3V65</b>   | 4/3V6.5-SK   | 9.5  | D1    | 0.56 | 0.25 |
| 6.90     | <b>D4-3V69</b>   | 4/3V6.9-SK   | 11.1 | D1    | 0.56 | 0.25 |
| 8.00     | <b>D4-3V80</b>   | 4/3V8.0-SK   | 11.2 | D3    | 0.56 | 0.25 |
| 10.60    | <b>D4-3V106</b>  | 4/3V10.6-SK  | 16.0 | D3    | 0.56 | 0.25 |
| 14.00    | <b>D4-3V140</b>  | 4/3V14.0-SK  | 25.0 | D3    | 0.56 | 0.25 |
| 19.00    | <b>D4-3V190</b>  | 4/3V19.0-SF  | 39.8 | C3    | 0.75 | 0.06 |
| 25.00    | <b>D4-3V250</b>  | 4/3V25.0-SF  | 51.1 | D3    | 0.38 | 0.44 |
| 33.50    | <b>D4-3V335</b>  | 4/3V33.5-E   | 94.1 | D3    | 0.28 | 0.78 |

\* For 3-3V3.00; F=1.912", For 3-3V3.15; F=1 7/8

P.D. for "3V" Belts = O.D.

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-2

# Reverse Mount Only

## This sheave can only be reverse mounted with standard bushing bolts. Special bolts required for conventional mounting.



# SELECTION/DIMENSIONS

## 5V QD SHEAVES - Standard Duty

| 5-Groove |          |              | F = 2.31 |       |      |      |
|----------|----------|--------------|----------|-------|------|------|
| O.D.Δ    | Part No. | Description  | Wt.      | Type‡ | M    | K    |
| 4.75     | D5-3V475 | 5/3V4.75-SDS | 4.7      | A1    | 0.81 | 0.13 |
| 5.00     | D5-3V50  | 5/3V5.0-SDS  | 6        | A1    | 0.81 | 0.13 |
| 5.30     | D5-3V53  | 5/3V5.3-SK   | 6.2      | A1    | 0.88 | 0.06 |
| 5.60     | D5-3V56  | 5/3V5.6-SK   | 7.4      | A1    | 0.84 | 0.03 |
| 6.00     | D5-3V60  | 5/3V6.0-SK   | 8.8      | A1    | 0.88 | 0.06 |
| 6.50     | D5-3V65  | 5/3V6.5-SK   | 9.9      | A1    | 0.88 | 0.06 |
| 6.90     | D5-3V69  | 5/3V6.9-SK   | 11.5     | A1    | 0.84 | 0.03 |
| 8.00     | D5-3V80  | 5/3V8.0-SK   | 14.5     | A2    | 0.88 | 0.06 |
| 10.60    | D5-3V106 | 5/3V10.6-SK  | 19.3     | A3    | 0.97 | 0.16 |
| 14.00    | D5-3V140 | 5/3V14.0-SF  | 26.5     | D3    | 0.72 | 0.09 |
| 19.00    | D5-3V190 | 5/3V19.0-SF  | 33.9     | A3    | 0.91 | 0.09 |
| 25.00    | D5-3V250 | 5/3V25.0-E   | 60.7     | D3    | 0.63 | 0.44 |
| 33.50    | D5-3V335 | 5/3V33.5-E   | 107      | D3    | 0.69 | 0.38 |

| 6-Groove |          |             | F = 2.72 |       |      |      |
|----------|----------|-------------|----------|-------|------|------|
| O.D.Δ    | Part No. | Description | Wt.      | Type‡ | M    | K    |
| # 4.75   | D6-3V475 | 6/3V4.75-SK | 5.8      | E1    | 0.00 | 0.81 |
| # 5.00   | D6-3V50  | 6/3V5.0-SK  | 7.1      | E1    | 0.00 | 0.81 |
| 5.30     | D6-3V53  | 6/3V5.3-SK  | 6.8      | A1    | 1.28 | 0.47 |
| 5.60     | D6-3V56  | 6/3V5.6-SK  | 8.2      | A1    | 1.25 | 0.44 |
| 6.00     | D6-3V60  | 6/3V6.0-SK  | 9.7      | A1    | 1.25 | 0.44 |
| 6.50     | D6-3V65  | 6/3V6.5-SK  | 10.8     | A1    | 0.88 | 0.06 |
| 6.90     | D6-3V69  | 6/3V6.9-SK  | 12.2     | A1    | 1.25 | 0.44 |
| 8.00     | D6-3V80  | 6/3V8.0-SK  | 16       | A2    | 0.88 | 0.06 |
| 10.60    | D6-3V106 | 6/3V10.6-SF | 18.7     | A3    | 0.97 | 0.16 |
| 14.00    | D6-3V140 | 6-3V14.0-SF | 30.5     | A3    | 0.90 | 0.09 |
| 19.00    | D6-3V190 | 6/3V19.0-E  | 47.6     | D3    | 1.03 | 0.03 |
| 25.00    | D6-3V250 | 6/3V25.0-E  | 66.9     | D3    | 1.03 | 0.03 |
| 33.50    | D6-3V335 | 6/3V33.5-E  | 121.6    | A3    | 1.09 | 0.03 |

| 8-Groove |          |             | F = 3.53 |       |      |      |
|----------|----------|-------------|----------|-------|------|------|
| O.D.Δ    | Part No. | Description | Wt.      | Type‡ | M    | K    |
| # 4.75   | D8-3V475 | 8/3V4.75-SK | 7.2      | E1    | 0.00 | 0.81 |
| # 5.00   | D8-3V50  | 8/3V5.0-SK  | 8.9      | E1    | 0.00 | 0.81 |
| 5.30     | D8-3V53  | 8/3V5.3-SK  | 8.3      | A1    | 1.25 | 0.44 |
| 5.60     | D8-3V56  | 8/3V5.6-SK  | 9.5      | A1    | 1.25 | 0.44 |
| 6.00     | D8-3V60  | 8/3V6.0-SK  | 11.7     | A1    | 1.25 | 0.44 |
| 6.50     | D8-3V65  | 8/3V6.5-SK  | 13.6     | A1    | 1.25 | 0.44 |
| 6.90     | D8-3V69  | 8/3V6.9-SK  | 15.4     | A1    | 1.25 | 0.44 |
| 8.00     | D8-3V80  | 8/3V8.0-SF  | 19.2     | A2    | 1.13 | 0.31 |
| 10.60    | D8-3V106 | 8/3V10.6-SF | 22.5     | A3    | 0.97 | 0.16 |
| 14.00    | D8-3V140 | 8/3V14.0-E  | 42.9     | D3    | 0.94 | 0.13 |
| 19.00    | D8-3V190 | 8/3V19.0-E  | 66.6     | D3    | 0.94 | 0.13 |
| 25.00    | D8-3V250 | 8/3V25.0-E  | 92.2     | D3    | 0.88 | 0.19 |
| 33.50    | D8-3V335 | 8/3V33.5-F  | 153      | D3    | 0.75 | 0.47 |

| 10-Groove |           |              | F = 4.34 |       |      |      |
|-----------|-----------|--------------|----------|-------|------|------|
| O.D.Δ     | Part No.  | Description  | Wt.      | Type‡ | M    | K    |
| # 4.75    | D10-3V475 | 10/3V4.75-SK | 8.6      | E1    | 0.00 | 0.81 |
| # 5.00    | D10-3V50  | 10/3V5.0-SK  | 10.7     | E1    | 0.00 | 0.81 |
| 5.30      | D10-3V53  | 10/3V5.3-SK  | 9.6      | A1    | 1.38 | 0.56 |
| 5.60      | D10-3V56  | 10-3V5.6-SK  | 11.9     | A1    | 1.38 | 0.56 |
| 6.00      | D10-3V60  | 10/3V6.0-SK  | 13.45    | A1    | 1.38 | 0.56 |
| 6.50      | D10-3V65  | 10/3V6.5-SK  | 14.1     | A1    | 1.38 | 0.56 |
| 6.90      | D10-3V69  | 10/3V6.9-SK  | 17.5     | A1    | 1.38 | 0.56 |
| 8.00      | D10-3V80  | 10/3V8.0-SF  | 21.55    | A2    | 1.50 | 0.69 |
| 10.60     | D10-3V106 | 10/3V10.6-E  | 31.6     | D2    | 1.06 | 0.00 |
| 14.00     | D10-3V140 | 10/3V14.0-E  | 41.6     | D3    | 1.06 | 0.00 |
| 19.00     | D10-3V190 | 10/3V19.0-E  | 74       | D3    | 1.06 | 0.00 |
| 25.00     | D10-3V250 | 10/3V25.0--F | 105      | D3    | 1.16 | 0.06 |
| 33.50     | D10-3V335 | 10/3V33.5-F  | 180      | D3    | 1.16 | 0.06 |

# Reverse Mount Only

P.D. for "3V" Belts = O.D.

‡ Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT7-2

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets

# SELECTION/DIMENSIONS



## 5V QD SHEAVES - Standard Duty

| 2-Groove  |                 | F = 1.69     |      |       |      |      |
|-----------|-----------------|--------------|------|-------|------|------|
| O.D.Δ     | Part No.        | Description  | Wt.  | Type‡ | M    | K    |
| # + 4.40  | <b>D2-5V44</b>  | 2/5V4.4-SH   | 3.4  | D1    | 0.16 | 0.47 |
| ## + 4.65 | <b>D2-5V465</b> | 2/5V4.65-SDS | 3.6  | E1    | 0.00 | 0.69 |
| + 4.90    | <b>D2-5V49</b>  | 2/5V4.9-SDS  | 3.9  | D1    | 0.69 | 0.22 |
| + 5.20    | <b>D2-5V52</b>  | 2/5V5.2-SDS  | 4.8  | D1    | 0.47 | 0.22 |
| + 5.50    | <b>D2-5V55</b>  | 2/5V5.5-SDS  | 5.5  | D1    | 0.47 | 0.22 |
| + 5.90    | <b>D2-5V59</b>  | 2/5V5.9-SDS  | 6.5  | D1    | 0.47 | 0.22 |
| + 6.30    | <b>D2-5V63</b>  | 2/5V6.3-SK   | 9.6  | D1    | 0.38 | 0.44 |
| + 6.70    | <b>D2-5V67</b>  | 2/5V6.7-SK   | 9.3  | D1    | 0.38 | 0.44 |
| 7.10      | <b>D2-5V71</b>  | 2/5V7.1-SK   | 10.6 | D1    | 0.44 | 0.38 |
| 7.50      | <b>D2-5V75</b>  | 2/5V7.5-SK   | 12.1 | D1    | 0.44 | 0.38 |
| 8.00      | <b>D2-5V80</b>  | 2/5V8.0-SK   | 14.3 | D1    | 0.44 | 0.38 |
| 8.50      | <b>D2-5V85</b>  | 2/5V8.5-SK   | 16.2 | D1    | 0.44 | 0.38 |
| 9.00      | <b>D2-5V90</b>  | 2/5V9.0-SK   | 18.5 | D1    | 0.44 | 0.38 |
| 9.25      | <b>D2-5V925</b> | 2/5V9.25-SK  | 17   | D2    | 0.44 | 0.38 |
| 9.75      | <b>D2-5V975</b> | 2/5V9.75-SK  | 18.2 | D2    | 0.44 | 0.38 |
| 10.30     | <b>D2-5V103</b> | 2/5V10.3-SK  | 18   | D2    | 0.44 | 0.38 |
| 10.90     | <b>D2-5V109</b> | 2/5V10.9-SK  | 20.8 | D2    | 0.44 | 0.38 |
| 11.30     | <b>D2-5V113</b> | 2/5V11.3-SK  | 16.9 | D3    | 0.44 | 0.38 |
| 11.80     | <b>D2-5V118</b> | 2/5V11.8-SK  | 18.6 | D3    | 0.44 | 0.38 |
| 12.50     | <b>D2-5V125</b> | 2/5V12.5-SF  | 20.8 | D3    | 0.44 | 0.38 |
| 13.20     | <b>D2-5V132</b> | 2/5V13.2-SF  | 22   | D3    | 0.44 | 0.38 |
| 14.00     | <b>D2-5V140</b> | 2/5V14.0-SF  | 24.8 | D3    | 0.44 | 0.38 |
| 15.00     | <b>D2-5V150</b> | 2/5V15.0-SF  | 26.6 | D3    | 0.44 | 0.38 |
| 16.00     | <b>D2-5V160</b> | 2/5V16.0-SF  | 34.9 | D3    | 0.44 | 0.38 |
| 18.70     | <b>D2-5V187</b> | 2/5V18.7-SF  | 43.8 | D3    | 0.44 | 0.38 |
| 21.20     | <b>D2-5V212</b> | 2/5V21.2--SF | 43.8 | D3    | 0.44 | 0.38 |
| 23.60     | <b>D2-5V236</b> | 2/5V23.6--E  | 61.7 | C3    | 0.75 | 0.31 |
| 28.00     | <b>D2-5V280</b> | 2/5V28.0-E   | 73   | C3    | 0.75 | 0.31 |
| 31.50     | ---             | ---          | ---  | ---   | ---  | ---  |
| 37.50     | ---             | ---          | ---  | ---   | ---  | ---  |
| 50.00     | ---             | ---          | ---  | ---   | ---  | ---  |

| 3-Groove |                 | F = 2.38     |      |       |      |      |
|----------|-----------------|--------------|------|-------|------|------|
| O.D.Δ    | Part No.        | Description  | Wt.  | Type‡ | M    | K    |
| # + 4.40 | <b>D3-5V44</b>  | 3/5V4.4-SDS  | 4.3  | E1    | 0.00 | 0.69 |
| # + 4.65 | <b>D3-5V465</b> | 3/5V4.65-SDS | 5.2  | E1    | 0.00 | 0.69 |
| + 4.90   | <b>D3-5V49</b>  | 3/5V4.9-SDS  | 4.9  | A1    | 1.06 | 0.38 |
| + 5.20   | <b>D3-5V52</b>  | 3/5V5.2-SDS  | 6.1  | A1    | 1.06 | 0.38 |
| + 5.50   | <b>D3-5V55</b>  | 3/5V5.5-SDS  | 6.4  | A1    | 1.00 | 0.31 |
| + 5.90   | <b>D3-5V59</b>  | 3/5V5.9-SDS  | 8.2  | A1    | 1.00 | 0.31 |
| + 6.30   | <b>D3-5V63</b>  | 3/5V6.3-SK   | 9    | A1    | 1.25 | 0.25 |
| + 6.70   | <b>D3-5V67</b>  | 3/5V6.7-SK   | 12.7 | A1    | 1.06 | 0.25 |
| 7.10     | <b>D3-5V71</b>  | 3/5V7.1-SF   | 12.3 | D1    | 0.75 | 0.06 |
| 7.50     | <b>D3-5V75</b>  | 3/5V7.5-SF   | 13.8 | D1    | 0.75 | 0.06 |
| 8.00     | <b>D3-5V80</b>  | 3/5V8.0-SF   | 16.2 | D1    | 0.75 | 0.06 |
| 8.50     | <b>D3-5V85</b>  | 3/5V8.5-SF   | 18.3 | D1    | 0.75 | 0.06 |
| 9.00     | <b>D3-5V90</b>  | 3/5V9.0-SF   | 20.6 | D1    | 0.75 | 0.06 |
| 9.25     | <b>D3-5V925</b> | 3/5V9.25-SF  | 20.2 | D2    | 0.75 | 0.06 |
| 9.75     | <b>D3-5V975</b> | 3/5V9.75-SF  | 20.8 | D2    | 0.75 | 0.06 |
| 10.30    | <b>D3-5V103</b> | 3/5V10.3-SF  | 20.5 | D2    | 1.00 | 0.06 |
| 10.90    | <b>D3-5V109</b> | 3/5V10.9-SF  | 23.4 | D2    | 0.75 | 0.06 |
| 11.30    | <b>D3-5V113</b> | 3/5V11.3-SF  | 22.7 | D3    | 0.75 | 0.06 |
| 11.80    | <b>D3-5V118</b> | 3/5V11.8-SF  | 24.4 | D3    | 0.75 | 0.06 |
| 12.50    | <b>D3-5V125</b> | 3/5V12.5-E   | 31.1 | D3    | 0.38 | 0.69 |
| 13.20    | <b>D3-5V132</b> | 3/5V13.2-E   | 32.2 | D3    | 0.38 | 0.69 |
| 14.00    | <b>D3-5V140</b> | 3/5V14.0-E   | 35.5 | D3    | 0.75 | 0.69 |
| 15.00    | <b>D3-5V150</b> | 3/5V15.0-E   | 38.3 | D3    | 0.38 | 0.69 |
| 16.00    | <b>D3-5V160</b> | 3/5V16.0-E   | 40.1 | D3    | 0.38 | 0.69 |
| 18.70    | <b>D3-5V187</b> | 3/5V18.7-E   | 46.6 | D3    | 0.75 | 0.31 |
| 21.20    | <b>D3-5V212</b> | 3/5V21.2-E   | 57.2 | D3    | 0.38 | 0.69 |
| 23.60    | <b>D3-5V236</b> | 3/5V23.6-E   | 73   | D3    | 0.72 | 0.34 |
| 28.00    | <b>D3-5V280</b> | 3/5V28.0-E   | 97   | D3    | 0.75 | 0.31 |
| 31.50    | <b>D3-5V315</b> | 3/5V31.5--F  | 128  | C3    | 0.25 | 0.97 |
| 37.50    | <b>D3-5V375</b> | 3/5V37.5--F  | 158  | C3    | 0.25 | 0.97 |
| 50.00    | <b>D3-5V500</b> | 3/5V50.0-F   | 218  | C3    | 0.25 | 0.97 |

+ 5VX Belts only on these sizes.

# Reverse Mount Only

## This sheave can only be reverse mounted with standard bushing bolts. Special bolts required for conventional mounting.

P.D. for "5V" Belts = O.D.

‡ Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT7-2.





# SELECTION/DIMENSIONS

## 5V QD SHEAVES - Standard Duty

| 4-Groove |                 |             |      |       |      |      | 5-Groove |                 |             |      |       |      |      |
|----------|-----------------|-------------|------|-------|------|------|----------|-----------------|-------------|------|-------|------|------|
| F = 3.06 |                 |             |      |       |      |      | F = 3.75 |                 |             |      |       |      |      |
| O.D.Δ    | Part No.        | Description | Wt.  | Type‡ | M    | K    | O.D.Δ    | Part No.        | Description | Wt.  | Type‡ | M    | K    |
| # + 4.40 | <b>D4-5V44</b>  | 4/5V4.4-SD  | 5.4  | E1    | 0.00 | 0.69 | # + 4.40 | <b>D5-5V44</b>  | 5/5V4.4-SD  | 6.3  | E1    | 0.00 | 0.69 |
| # + 4.65 | <b>D4-5V465</b> | 4/5V4.65-SD | 6.1  | E1    | 0.00 | 0.69 | # + 4.65 | <b>D5-5V465</b> | 5-5V4.65-SD | 7    | E1    | 0.00 | 0.69 |
| + 4.90   | <b>D4-5V49</b>  | 4/5V4.9-SD  | 6.5  | A1    | 1.31 | 0.63 | + 4.90   | <b>D5-5V49</b>  | 5/5V4.9-SD  | 7.9  | A1    | 1.31 | 0.63 |
| + 5.20   | <b>D4-5V52</b>  | 4/5V5.2-SD  | 8.2  | A1    | 1.31 | 0.63 | + 5.20   | <b>D5-5V52</b>  | 5/5V5.2-SD  | 9.7  | A1    | 1.31 | 0.63 |
| + 5.50   | <b>D4-5V55</b>  | 4/5V5.5-SD  | 9.4  | A1    | 1.31 | 0.63 | + 5.50   | <b>D5-5V55</b>  | 5/5V5.5-SD  | 10.9 | A1    | 1.31 | 0.63 |
| + 5.90   | <b>D4-5V59</b>  | 4/5V5.9-SD  | 10   | A1    | 1.31 | 0.63 | + 5.90   | <b>D5-5V59</b>  | 5/5V5.9-SK  | 11.2 | A1    | 1.31 | 0.50 |
| + 6.30   | <b>D4-5V63</b>  | 4/5V6.3-SK  | 11.7 | A1    | 1.31 | 0.50 | + 6.30   | <b>D5-5V63</b>  | 5/5V6.3-SK  | 12.2 | A1    | 1.31 | 0.50 |
| + 6.70   | <b>D4-5V67</b>  | 4/5V6.7-SK  | 13.4 | A1    | 1.31 | 0.50 | + 6.70   | <b>D5-5V67</b>  | 5/5V6.7-SF  | 13.2 | A1    | 1.31 | 0.50 |
| 7.10     | <b>D4-5V71</b>  | 4/5V7.1-SF  | 14.5 | D1    | 0.81 | 0.00 | 7.10     | <b>D5-5V71</b>  | 5/5V7.1-SF  | 16.7 | A1    | 1.13 | 0.31 |
| 7.50     | <b>D4-5V75</b>  | 4/5V7.5-SF  | 16.3 | D1    | 0.81 | 0.00 | 7.50     | <b>D5-5V75</b>  | 5/5V7.5-SF  | 18.5 | A1    | 1.13 | 0.31 |
| 8.00     | <b>D4-5V80</b>  | 4/5V8.0-E   | 17.9 | D1    | 1.06 | 0.00 | 8.00     | <b>D5-5V80</b>  | 5/5V8.0-E   | 20   | A1    | 1.38 | 0.31 |
| 8.50     | <b>D4-5V85</b>  | 4/5V8.5-E   | 21.7 | D1    | 1.06 | 0.00 | 8.50     | <b>D5-5V85</b>  | 5/5V8.5-E   | 24.4 | A1    | 1.38 | 0.31 |
| 9.00     | <b>D4-5V90</b>  | 4/5V9.0-E   | 24.4 | D1    | 1.06 | 0.00 | 9.00     | <b>D5-5V90</b>  | 5/5V9.0-E   | 27.4 | A1    | 1.38 | 0.31 |
| 9.25     | <b>D4-5V925</b> | 4/5V9.25-E  | 26.2 | D1    | 1.06 | 0.00 | 9.25     | <b>D5-5V925</b> | 5/5V9.25-E  | 29.2 | A1    | 1.38 | 0.31 |
| 9.75     | <b>D4-5V975</b> | 4/5V9.75-E  | 29.4 | A1    | 1.44 | 0.38 | 9.75     | <b>D5-5V975</b> | 5/5V9.75-E  | 32.8 | A1    | 1.38 | 0.31 |
| 10.30    | <b>D4-5V103</b> | 4/5V10.3-E  | 28.6 | D2    | 1.06 | 0.00 | 10.30    | <b>D5-5V103</b> | 5/5V10.3-E  | 31.1 | A2    | 1.38 | 0.31 |
| 10.90    | <b>D4-5V109</b> | 4/5V10.9-E  | 30.3 | D2    | 1.06 | 0.00 | 10.90    | <b>D5-5V109</b> | 5/5V10.9-E  | 33   | A2    | 1.38 | 0.31 |
| 11.30    | <b>D4-5V113</b> | 4/5V11.3-E  | 30.9 | A2    | 1.44 | 0.38 | 11.30    | <b>D5-5V113</b> | 5/5V11.3-E  | 35   | A2    | 1.38 | 0.31 |
| 11.80    | <b>D4-5V118</b> | 4/5V11.8-E  | 32.5 | D2    | 1.06 | 0.00 | 11.80    | <b>D5-5V118</b> | 5/5V11.8-E  | 37.3 | A2    | 1.38 | 0.31 |
| 12.50    | <b>D4-5V125</b> | 4/5V12.5-E  | 35   | A3    | 1.44 | 0.38 | 12.50    | <b>D5-5V125</b> | 5/5V12.5-E  | 38.9 | A2    | 1.38 | 0.31 |
| 13.20    | <b>D4-5V132</b> | 4/5V13.2-E  | 37.4 | D3    | 1.06 | 0.00 | 13.20    | <b>D5-5V132</b> | 5/5V13.2-E  | 41.8 | A2    | 1.38 | 0.31 |
| 14.00    | <b>D4-5V140</b> | 4/5V14.0-E  | 41.1 | D3    | 1.06 | 0.00 | 14.00    | <b>D5-5V140</b> | 5/5V14.0-E  | 45.3 | A3    | 1.38 | 0.31 |
| 15.00    | <b>D4-5V150</b> | 4/5V15.0-E  | 43.7 | D3    | 1.06 | 0.00 | 15.00    | <b>D5-5V150</b> | 5/5V15.0-E  | 49.1 | A3    | 1.38 | 0.31 |
| 16.00    | <b>D4-5V160</b> | 4/5V16.0-E  | 46.9 | D3    | 1.06 | 0.00 | 16.00    | <b>D5-5V160</b> | 5/5V16.0-E  | 51.9 | A3    | 1.38 | 0.31 |
| 18.70    | <b>D4-5V187</b> | 4/5V18.7-E  | 58.5 | A3    | 1.25 | 0.19 | 18.70    | <b>D5-5V187</b> | 5/5V18.7-F  | 86   | D3    | 0.94 | 0.28 |
| 21.20    | <b>D4-5V212</b> | 4/5V21.2-E  | 77   | A3    | 1.25 | 0.19 | 21.20    | <b>D5-5V212</b> | 5/5V21.2-F  | 84.7 | D3    | 1.00 | 0.22 |
| 23.60    | <b>D4-5V236</b> | 4/5V23.6-F  | 98   | D3    | 0.56 | 0.66 | 23.60    | <b>D5-5V236</b> | 5/5V23.6-F  | 111  | D3    | 1.00 | 0.22 |
| 28.00    | <b>D4-5V280</b> | 4/5V28.0--F | 118  | D3    | 0.56 | 0.66 | 28.00    | <b>D5-5V280</b> | 5/5V28.0-F  | 128  | D3    | 1.00 | 0.22 |
| 31.50    | <b>D4-5V315</b> | 4/5V31.5-F  | 141  | C3    | 0.88 | 0.34 | 31.50    | <b>D5-5V315</b> | 5/5V31.5--J | 174  | D3    | 0.27 | 0.30 |
| 37.50    | <b>D4-5V375</b> | 4/5V37.5-F  | 178  | D3    | 0.56 | 0.66 | 37.50    | <b>D5-5V375</b> | 5/5V37.5-J  | 199  | D3    | 0.53 | 0.88 |
| 50.00    | <b>D4-5V500</b> | 4/5V50.0-J  | 269  | C3    | 0.69 | 0.94 | 50.00    | <b>D5-5V500</b> | 5/5V50.0-J  | 319  | D3    | 0.53 | 0.88 |

+ 5VX Belts only on these sizes.

# Reverse Mount Only

## This sheave can only be reverse mounted with standard bushing bolts. Special bolts required for conventional mounting.

P.D. for "5V" Belts = O.D.

‡ Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT7-2.

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets



# SELECTION/DIMENSIONS



## 5V QD SHEAVES - Standard Duty

| 8-Groove |          |              |      |       |      |      | F = 5.81 |
|----------|----------|--------------|------|-------|------|------|----------|
| O.D.Δ    | Part No. | Description  | Wt.  | Type‡ | M    | K    |          |
| 7.10     | D8-5V71  | 8/5V7.1-SF   | 23   | A1    | 1.88 | 1.06 |          |
| 7.50     | D8-5V75  | 8/5V7.5-SF   | 25.4 | A1    | 1.88 | 1.06 |          |
| 8.00     | D8-5V80  | 8/5V8.0-E    | 26   | A1    | 2.13 | 1.06 |          |
| 8.50     | D8-5V85  | 8/5V8.5-E    | 33   | A1    | 2.13 | 1.06 |          |
| 9.00     | D8-5V90  | 8/5V9.0-E    | 36   | A1    | 2.13 | 1.06 |          |
| 9.25     | D8-5V925 | 8/5V9.25-F   | 42   | A1    | 2.25 | 1.03 |          |
| 9.75     | D8-5V975 | 8/5V9.75-F   | 47   | A1    | 2.25 | 1.03 |          |
| 10.30    | D8-5V103 | 8/5V10.3-F   | 54   | A1    | 2.25 | 1.03 |          |
| 10.90    | D8-5V109 | 8/5V10.9-F   | 61   | A1    | 2.25 | 1.03 |          |
| 11.30    | D8-5V113 | 8/5V11.3-F   | 57   | A2    | 2.25 | 1.03 |          |
| 11.80    | D8-5V118 | 8/5V11.8-F   | 59   | A2    | 2.25 | 1.03 |          |
| 12.50    | D8-5V125 | 8/5V12.5-F   | 63   | A2    | 2.25 | 1.03 |          |
| 13.20    | D8-5V132 | 8/5V13.2-F   | 67   | A2    | 2.25 | 1.03 |          |
| 14.00    | D8-5V140 | 8/5V14.0-F   | 77   | A2    | 2.25 | 1.03 |          |
| 15.00    | D8-5V150 | 8/5V15.0-F   | 79   | A3    | 2.25 | 1.03 |          |
| 16.00    | D8-5V160 | 8/5V16.0-F   | 85   | A3    | 2.25 | 1.03 |          |
| 18.70    | D8-5V187 | 8/5V18.7-J   | 112  | A3    | 1.56 | 0.16 |          |
| 21.20    | D8-5V212 | 8/5V21.2-J   | 119  | D3    | 1.19 | 0.22 |          |
| 23.60    | D8-5V236 | 8/5V23.6--J  | 154  | A3    | 1.56 | 0.16 |          |
| 28.00    | D8-5V280 | 8/5V28.0-J   | 179  | D3    | 1.19 | 0.22 |          |
| 31.50    | D8-5V315 | 8/5V31.5-M** | 295  | B3    | 1.88 | 0.22 |          |
| 37.50    | D8-5V375 | 8/5V37.5-M** | 326  | C3    | 1.38 | 0.28 |          |
| 50.00    | D8-5V500 | 8/5V50.0-M** | 466  | C3    | 1.44 | 0.22 |          |

| 6-Groove |          |              |      |       |      |      | F = 4.44 |
|----------|----------|--------------|------|-------|------|------|----------|
| O.D.Δ    | Part No. | Description  | Wt.  | Type‡ | M    | K    |          |
| # ++4.40 | D6-5V44  | 6/5V4.4-SD   | 8.4  | E1    | 0.00 | 0.69 |          |
| # ++4.65 | D6-5V465 | 6/5V4.65-SD  | 9.3  | E1    | 0.00 | 0.69 |          |
| ++4.90   | D6-5V49  | 6/5V4.9-SD   | 8.9  | A1    | 1.31 | 0.63 |          |
| ++5.20   | D6-5V52  | 6/5V5.2-SD   | 10.9 | A1    | 1.31 | 0.63 |          |
| ++5.50   | D6-5V55  | 6/5V5.5-SD   | 13.4 | A1    | 1.31 | 0.63 |          |
| ++5.90   | D6-5V59  | 6/5V5.9-SK   | 12.8 | A1    | 1.31 | 0.50 |          |
| ++6.30   | D6-5V63  | 6/5V6.3-SK   | 15.3 | A1    | 1.31 | 0.50 |          |
| ++6.70   | D6-5V67  | 6/5V6.7-SF   | 16.1 | A1    | 1.63 | 0.81 |          |
| 7.10     | D6-5V71  | 6/5V7.1-SF   | 18.8 | A1    | 1.38 | 0.56 |          |
| 7.50     | D6-5V75  | 6/5V7.5-SF   | 20.8 | A1    | 1.38 | 0.56 |          |
| 8.00     | D6-5V80  | 6/5V8.0-E    | 22.3 | A1    | 1.63 | 0.56 |          |
| 8.50     | D6-5V85  | 6/5V8.5-E    | 27.1 | A1    | 1.63 | 0.56 |          |
| 9.00     | D6-5V90  | 6/5V9.0-E    | 30.5 | A1    | 1.63 | 0.56 |          |
| 9.25     | D6-5V925 | 6/5V9.25-E   | 32.2 | A1    | 1.63 | 0.56 |          |
| 9.75     | D6-5V975 | 6/5V9.75-E   | 36.2 | A1    | 1.63 | 0.56 |          |
| 10.30    | D6-5V103 | 6/5V10.3-E   | 34.4 | A2    | 1.63 | 0.56 |          |
| 10.90    | D6-5V109 | 6/5V10.9-E   | 36.4 | A2    | 1.63 | 0.56 |          |
| 11.30    | D6-5V113 | 6/5V11.3-E   | 39.3 | A2    | 1.63 | 0.56 |          |
| 11.80    | D6-5V118 | 6/5V11.8-E   | 40.2 | A2    | 1.63 | 0.56 |          |
| 12.50    | D6-5V125 | 6/5V12.5-F   | 54.2 | A2    | 1.75 | 0.53 |          |
| 13.20    | D6-5V132 | 6/5V13.2-F   | 58   | A2    | 1.75 | 0.53 |          |
| 14.00    | D6-5V140 | 6/5V14.0-F   | 59.9 | A2    | 1.75 | 0.53 |          |
| 15.00    | D6-5V150 | 6/5V15.0-F   | 60   | A3    | 1.75 | 0.53 |          |
| 16.00    | D6-5V160 | 6/5V16.0-F   | 64.7 | A3    | 1.75 | 0.53 |          |
| 18.70    | D6-5V187 | 6/5V18.7-F   | 80.5 | A3    | 1.31 | 0.09 |          |
| 21.20    | D6-5V212 | 6/5V21.2-F   | 96.3 | D3    | 1.00 | 0.22 |          |
| 23.60    | D6-5V236 | 6/5V23.6--J  | 133  | D3    | 0.94 | 0.47 |          |
| 28.00    | D6-5V280 | 6/5V28.0-J   | 179  | D3    | 0.94 | 0.47 |          |
| 31.50    | D6-5V315 | 6/5V31.5--J  | 198  | D3    | 0.94 | 0.47 |          |
| 37.50    | D6-5V375 | 6/5V37.5-J   | 239  | D3    | 0.94 | 0.47 |          |
| 50.00    | D6-5V500 | 6/5V50.0-M** | 386  | C3    | 0.25 | 1.41 |          |

+ 5VX Belts only on these sizes.

# Reverse Mount Only

| 10-Groove |           |               |     |       |      |      | F = 7.19 |
|-----------|-----------|---------------|-----|-------|------|------|----------|
| O.D.Δ     | Part No.  | Description   | Wt. | Type‡ | M    | K    |          |
| 8.00      | D10-5V80  | 10/5V8.0-E    | 32  | A1    | 2.88 | 1.81 |          |
| 8.50      | D10-5V85  | 10/5V8.5-E    | 38  | A1    | 2.88 | 1.81 |          |
| 9.00      | D10-5V90  | 10/5V9.0-F    | 46  | A1    | 2.94 | 1.72 |          |
| 9.25      | D10-5V925 | 10/5V9.25-F   | 48  | A1    | 2.94 | 1.72 |          |
| 9.75      | D10-5V975 | 10/5V9.75-F   | 54  | A1    | 2.94 | 1.72 |          |
| 10.30     | D10-5V103 | 10/5V10.3-F   | 61  | A1    | 2.94 | 1.72 |          |
| 10.90     | D10-5V109 | 10/5V10.9-F   | 69  | A1    | 2.94 | 1.72 |          |
| 11.30     | D10-5V113 | 10/5V11.3-F   | 73  | A1    | 2.94 | 1.72 |          |
| 11.80     | D10-5V118 | 10/5V11.8-F   | 77  | A2    | 2.94 | 1.72 |          |
| 12.50     | D10-5V125 | 10/5V12.5-J   | 93  | A2    | 3.19 | 1.78 |          |
| 13.20     | D10-5V132 | 10/5V13.2-J   | 100 | A2    | 3.19 | 1.78 |          |
| 14.00     | D10-5V140 | 10/5V14.0-J   | 90  | A2    | 3.56 | 2.16 |          |
| 15.00     | D10-5V150 | 10/5V15.0-J   | 98  | A2    | 3.56 | 2.16 |          |
| 16.00     | D10-5V160 | 10/5V16.0-J   | 99  | A3    | 3.56 | 2.16 |          |
| 18.70     | D10-5V187 | 10/5V18.7-J   | 123 | A3    | 3.56 | 2.16 |          |
| 21.20     | D10-5V212 | 10/5V21.2-J   | 139 | A3    | 2.56 | 1.16 |          |
| 23.60     | D10-5V236 | 10/5V23.6-M** | 245 | A3    | 1.88 | 0.22 |          |
| 28.00     | D10-5V280 | 10/5V28.0-M** | 256 | A3    | 1.88 | 0.22 |          |
| 31.50     | D10-5V315 | 10/5V31.5-M** | 329 | A3    | 1.88 | 0.22 |          |
| 37.50     | D10-5V375 | 10/5V37.5-M** | 356 | A3    | 1.88 | 0.22 |          |
| 50.00     | D10-5V500 | 10/5V50.0-M** | 556 | A3    | 1.94 | 0.28 |          |

P.D. for "5V" Belts = O.D.

\*\* M-N-P-W are standard mounting only for these parts

‡ Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT7-2

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets



# SELECTION/DIMENSIONS

## 8V QD SHEAVES - Standard Duty

| 4-Groove |          |              |     |       |      |      | F = 4.88 |
|----------|----------|--------------|-----|-------|------|------|----------|
| O.D.Δ    | Part No. | Description  | Wt. | Type‡ | M    | K    |          |
| 12.5     | D4-8V125 | 4/8V12.5--F  | 56  | D2    | 1.19 | 0.03 |          |
| 13.2     | D4-8V132 | 4/8V13.2--F  | 63  | D2    | 1.19 | 0.03 |          |
| 14.0     | D4-8V140 | 4/8V14.0--F  | 65  | D2    | 1.19 | 0.03 |          |
| 15.0     | D4-8V150 | 4/8V15.0--F  | 72  | D2    | 1.69 | 0.03 |          |
| 16.0     | D4-8V160 | 4-8V16.0-F   | 80  | D3    | 1.19 | 0.03 |          |
| 17.0     | D4-8V170 | 4/8V17.0--F  | 93  | A3    | 1.25 | 0.03 |          |
| 18.0     | D4-8V180 | 4/8V18.0-F   | 105 | A3    | 1.25 | 0.03 |          |
| 19.0     | D4-8V190 | 4/8V19.0--F  | 113 | D3    | 1.19 | 0.03 |          |
| 20.0     | D4-8V200 | 4/8V20.0--J  | 125 | A3    | 1.50 | 0.09 |          |
| 21.2     | D4-8V212 | 4/8V21.2--J  | 131 | A3    | 1.50 | 0.09 |          |
| 22.4     | D4-8V224 | 4/8V22.4--J  | 150 | A3    | 1.50 | 0.09 |          |
| 24.8     | D4-8V248 | 4/8V24.8-M** | 247 | C3    | 0.81 | 0.84 |          |
| 30.0     | D4-8V300 | 4/8V30.0-M** | 230 | C3    | 0.81 | 0.84 |          |
| 35.5     | D4-8V355 | 4/8V35.5-M** | 329 | C3    | 0.81 | 0.84 |          |
| 40.0     | D4-8V400 | 4/8V40.0-M** | 325 | C3    | 0.81 | 0.84 |          |
| 44.5     | D4-8V445 | 4/8V44.5-M** | 434 | C3    | 0.81 | 0.84 |          |
| 53.0     | D4-8V530 | 4/8V53.0-M** | 425 | C3    | 0.81 | 0.84 |          |

| 5-Groove |          |              |     |       |      |      | F = 6.00 |
|----------|----------|--------------|-----|-------|------|------|----------|
| O.D.Δ    | Part No. | Description  | Wt. | Type‡ | M    | K    |          |
| 12.5     | D5-8V125 | 5/8V12.5-F   | 64  | A2    | 2.28 | 1.06 |          |
| 13.2     | D5-8V132 | 5/8V13.2-F   | 75  | A2    | 2.28 | 1.06 |          |
| 14.0     | D5-8V140 | 5/8V14.0-F   | 77  | A2    | 2.28 | 1.06 |          |
| 15.0     | D5-8V150 | 5/8V15.0-F   | 87  | A2    | 2.31 | 1.09 |          |
| 16.0     | D5-8V160 | 5/8V16.0-F   | 93  | A3    | 2.31 | 1.09 |          |
| 17.0     | D5-8V170 | 5/8V17.0-J   | 105 | A3    | 2.00 | 0.59 |          |
| 18.0     | D5-8V180 | 5/8V18.0--J  | 117 | A3    | 2.00 | 0.59 |          |
| 19.0     | D5-8V190 | 5/8V19.0-J   | 126 | A3    | 2.00 | 0.59 |          |
| 20.0     | D5-8V200 | 5/8V20.0-J   | 135 | A3    | 2.00 | 0.59 |          |
| 21.2     | D5-8V212 | 5/8V21.2-J   | 160 | A3    | 2.00 | 0.59 |          |
| 22.4     | D5-8V224 | 5/8V22.4-M** | 188 | B3    | 1.94 | 0.28 |          |
| 24.8     | D5-8V248 | 5/8V24.8-M** | 266 | B3    | 1.97 | 0.31 |          |
| 30.0     | D5-8V300 | 5/8V30.0-M** | 255 | B3    | 1.97 | 0.31 |          |
| 35.5     | D5-8V355 | 5/8V35.5-M** | 391 | B3    | 1.97 | 0.31 |          |
| 40.0     | D5-8V400 | 5/8V40.0-M** | 355 | B3    | 1.97 | 0.31 |          |
| 44.5     | D5-8V445 | 5/8V44.5-N** | 538 | C3    | 0.75 | 1.31 |          |
| 53.0     | D5-8V530 | 5/8V53.0-N** | 500 | C3    | 0.75 | 1.31 |          |

| 6-Groove |          |              |      |       |      |      | F = 7.13 |
|----------|----------|--------------|------|-------|------|------|----------|
| O.D.Δ    | Part No. | Description  | Wt.  | Type‡ | M    | K    |          |
| 12.5     | D6-8V125 | 6/8V12.5-F   | 79   | A1    | 3.31 | 2.09 |          |
| 13.2     | D6-8V132 | 6/8V13.2-F   | 86   | A2    | 2.28 | 1.06 |          |
| 14.0     | D6-8V140 | 6/8V14.0-F   | 92   | A2    | 2.28 | 1.06 |          |
| 15.0     | D6-8V150 | 6/8V15.0--J  | 99   | A2    | 2.56 | 1.16 |          |
| 16.0     | D6-8V160 | 6/8V16.0-J   | 119  | A2    | 2.56 | 1.16 |          |
| 17.0     | D6-8V170 | 6/8V17.0-J   | 125  | A3    | 2.56 | 1.16 |          |
| 18.0     | D6-8V180 | 6/8V18.0-J   | 131  | A3    | 2.56 | 1.16 |          |
| 19.0     | D6-8V190 | 6/8V19.0-J   | 146  | A3    | 2.56 | 1.16 |          |
| 20.0     | D6-8V200 | 6/8V20.0-M** | 153  | B3    | 2.94 | 1.28 |          |
| 21.2     | D6-8V212 | 6/8V21.2-M** | 170  | B2    | 2.94 | 1.28 |          |
| 22.4     | D6-8V224 | 6/8V22.4-M** | 205  | B3    | 2.94 | 1.28 |          |
| 24.8     | D6-8V248 | 6/8V24.8-M** | 285  | A3    | 1.94 | 0.28 |          |
| 30.0     | D6-8V300 | 6/8V30.0-M** | 291  | A3    | 1.94 | 0.28 |          |
| 35.5     | D6-8V355 | 6/8V35.5-N** | 467  | C3    | 1.88 | 0.19 |          |
| 40.0     | D6-8V400 | 6/8V40.0-N** | 401  | B3    | 1.13 | 0.19 |          |
| 44.5     | D6-8V445 | 6/8V44.5-N** | 573  | C3    | 1.88 | 0.19 |          |
| 53.0     | D6-8V530 | 6/8V53.0-N** | 520  | C3    | 1.88 | 0.19 |          |
| 63.0     | D6-8V630 | 6/8V63.0-P** | 890  | C3    | 1.63 | 0.75 |          |
| 71.0     | D6-8V710 | 6/8V71.0-P** | 1131 | C3    | 1.63 | 0.75 |          |

| 8-Groove |          |              |      |       |      |      | F = 9.38 |
|----------|----------|--------------|------|-------|------|------|----------|
| O.D.Δ    | Part No. | Description  | Wt.  | Type‡ | M    | K    |          |
| 12.5     | D8-8V125 | 8/8V12.5--J  | 100  | A1    | 3.44 | 2.03 |          |
| 13.2     | D8-8V132 | 8/8V13.2--J  | 126  | A1    | 3.44 | 2.03 |          |
| 14.0     | D8-8V140 | 8/8V14.0--J  | 124  | A2    | 3.44 | 2.03 |          |
| 15.0     | D8-8V150 | 8/8V15.0-J   | 134  | A2    | 3.44 | 2.03 |          |
| 16.0     | D8-8V160 | 8/8V16.0--J  | 145  | A2    | 3.56 | 2.16 |          |
| 17.0     | D8-8V170 | 8/8V17.0-M** | 213  | A2    | 3.94 | 2.28 |          |
| 18.0     | D8-8V180 | 8/8V18.0-M** | 213  | A2    | 3.94 | 2.28 |          |
| 19.0     | D8-8V190 | 8/8V19.0-M** | 221  | A2    | 3.94 | 2.28 |          |
| 20.0     | D8-8V200 | 8/8V20.0-M** | 217  | A2    | 3.94 | 2.28 |          |
| 21.2     | D8-8V212 | 8/8V21.2-M** | 239  | A2    | 3.94 | 2.28 |          |
| 22.4     | D8-8V224 | 8/8V22.4-M** | 260  | A3    | 3.94 | 2.28 |          |
| 24.8     | D8-8V248 | 8/8V24.8-N** | 417  | A3    | 2.25 | 0.19 |          |
| 30.0     | D8-8V300 | 8/8V30.0-N** | 352  | A3    | 2.25 | 0.19 |          |
| 35.5     | D8-8V355 | 8/8V35.5-N** | 575  | A3    | 2.25 | 0.19 |          |
| 40.0     | D8-8V400 | 8/8V40.0-N** | 496  | A3    | 2.25 | 0.19 |          |
| 44.5     | D8-8V445 | 8/8V44.5-P** | 783  | B3    | 2.63 | 0.25 |          |
| 53.0     | D8-8V530 | 8/8V53.0-P** | 760  | B3    | 2.63 | 0.25 |          |
| 63.0     | D8-8V630 | 8/8V63.0-P** | 1116 | B3    | 2.63 | 0.25 |          |
| 71.0     | D8-8V710 | 8/8V71.0-W** | 1632 | C3    | 2.63 | 0    |          |

P.D. for "8V" Belts = O.D.

\*\* M-N-P-W are standard mounting only for these parts

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-2

V-Drives

FHP Drives

Drive Component  
Accessories

DYNA-SYNC

HT200/HTD  
Synchronous Drives

HT500  
Synchronous Drives

Roller Chain Sprockets

# SELECTION/DIMENSIONS



## 8V QD SHEAVES - Standard Duty

| 10-Groove |                  |                |      |       |      | F = 11.63 |  |
|-----------|------------------|----------------|------|-------|------|-----------|--|
| O.D.Δ     | Part No.         | Description    | Wt.  | Type‡ | M    | K         |  |
| 12.5      | <b>D10-8V125</b> | 10/8V12.5-J    | 148  | A1    | 3.56 | 2.16      |  |
| 13.2      | <b>D10-8V132</b> | 10/8V13.2-J    | 148  | A1    | 3.56 | 2.16      |  |
| 14.0      | <b>D10-8V140</b> | 10/8V14.0-J    | 160  | A1    | 3.56 | 2.16      |  |
| 15.0      | <b>D10-8V150</b> | 10/8V15.0-M**  | 259  | A1    | 3.94 | 2.28      |  |
| 16.0      | <b>D10-8V160</b> | 10/8V16.0-M**  | 296  | A1    | 3.94 | 2.28      |  |
| 17.0      | <b>D10-8V170</b> | 10/8V17.0-M**  | 269  | A2    | 3.94 | 2.28      |  |
| 18.0      | <b>D10-8V180</b> | 10/8V18.0-M**  | 282  | A2    | 3.94 | 2.28      |  |
| 19.0      | <b>D10-8V190</b> | 10/8V19.0-M**  | 300  | A2    | 3.94 | 2.28      |  |
| 20.0      | <b>D10-8V200</b> | 10/8V20.0-M**  | 318  | A2    | 3.94 | 2.28      |  |
| 21.2      | <b>D10-8V212</b> | 10/8V21.2-M**  | 340  | A2    | 3.94 | 2.28      |  |
| 22.4      | <b>D10-8V224</b> | 10/8V22.4-N**  | 410  | A3    | 2.25 | 0.19      |  |
| 24.8      | <b>D10-8V248</b> | 10/8V24.8-N**  | 463  | A3    | 2.25 | 0.19      |  |
| 30.0      | <b>D10-8V300</b> | 10/8V30.0--N** | 557  | A3    | 2.25 | 0.19      |  |
| 35.5      | <b>D10-8V355</b> | 10/8V35.5-P**  | 706  | A3    | 2.63 | 0.25      |  |
| 40.0      | <b>D10-8V400</b> | 10/8V40.0-P**  | 817  | A3    | 2.63 | 0.25      |  |
| 44.5      | <b>D10-8V445</b> | 10/8V44.5-P**  | 854  | A3    | 2.63 | 0.25      |  |
| 53.0      | <b>D10-8V530</b> | 10/8V53.0-P**  | 1198 | A3    | 2.63 | 0.25      |  |
| 58.0      | <b>D10-8V580</b> | 10/8V58.0-W**  | 1300 | B3    | 3.00 | 0.38      |  |
| 63.0      | <b>D10-8V630</b> | 10/8V63.0-W**  | 1412 | B3    | 3.00 | 0.38      |  |
| 71.0      | <b>D10-8V710</b> | 10/8V71.0-W**  | 1771 | B3    | 3.00 | 0.38      |  |

| 12-Groove |                  |                |      |       |      | F = 13.88 |  |
|-----------|------------------|----------------|------|-------|------|-----------|--|
| O.D.Δ     | Part No.         | Description    | Wt.  | Type‡ | M    | K         |  |
| 12.5      | <b>D12-8V125</b> | 12/8V12.5-M**  | 197  | A1    | 3.94 | 2.28      |  |
| 13.2      | <b>D12-8V132</b> | 12/8V13.2-M**  | 219  | A1    | 3.94 | 2.28      |  |
| 14.0      | <b>D12-8V140</b> | 12/8V14.0-M**  | 245  | A1    | 3.94 | 2.28      |  |
| 15.0      | <b>D12-8V150</b> | 12/8V15.0-M**  | 280  | A1    | 3.94 | 2.28      |  |
| 16.0      | <b>D12-8V160</b> | 12/8V16.0-M**  | 319  | A1    | 3.94 | 2.28      |  |
| 17.0      | <b>D12-8V170</b> | 12/8V17.0-M**  | 321  | A1    | 3.94 | 2.28      |  |
| 18.0      | <b>D12-8V180</b> | 12/8V18.0-M**  | 337  | A1    | 3.94 | 2.28      |  |
| 19.0      | <b>D12-8V190</b> | 12/8V19.0-N**  | 380  | A1    | 2.25 | 0.19      |  |
| 20.0      | <b>D12-8V200</b> | 12/8V20.0-N**  | 402  | A2    | 2.25 | 0.19      |  |
| 21.2      | <b>D12-8V212</b> | 12/8V21.2-N**  | 420  | A2    | 2.25 | 0.19      |  |
| 22.4      | <b>D12-8V224</b> | 12/8V22.4-N**  | 458  | A3    | 2.25 | 0.19      |  |
| 24.8      | <b>D12-8V248</b> | 12/8V24.8--N** | 516  | A3    | 2.25 | 0.19      |  |
| 30.0      | <b>D12-8V300</b> | 12/8V30.0-P**  | 671  | A3    | 2.63 | 0.25      |  |
| 35.5      | <b>D12-8V355</b> | 12/8V35.5-P**  | 798  | A3    | 2.63 | 0.25      |  |
| 40.0      | <b>D12-8V400</b> | 12/8V40.0-P**  | 909  | A3    | 2.63 | 0.25      |  |
| 44.5      | <b>D12-8V445</b> | 12/8V44.5-P**  | 982  | A3    | 2.63 | 0.25      |  |
| 53.0      | <b>D12-8V530</b> | 12/8V53.0-W**  | 1456 | A3    | 3.25 | 0.63      |  |
| 58.0      | <b>D12-8V580</b> | 12/8V58.0-W**  | 1500 | A3    | 3.25 | 0.63      |  |
| 63.0      | <b>D12-8V630</b> | 12/8V63.0-W**  | 1540 | A3    | 3.25 | 0.63      |  |
| 71.0      | <b>D12-8V710</b> | 12/8V71.0-W**  | 1912 | A3    | 3.25 | 0.63      |  |

P.D. for "8V" Belts = O.D.

\*\* M-N-P-W are standard mounting only for these parts

‡ Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT7-2

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets



# SELECTION/DIMENSIONS

## A/B QD SHEAVES - Standard Duty

| 1-Groove                    |               |                 |     |       |      |      |
|-----------------------------|---------------|-----------------|-----|-------|------|------|
| F = .88 A3.0 thru A6.4 B6.8 |               |                 |     |       |      |      |
| Balance F = 1               |               |                 |     |       |      |      |
| O.D.Δ                       | Part No.      | Description     | Wt. | Type‡ | M    | K    |
| # 3.75                      | <b>D1B34</b>  | 1A3.0B3.4-SH    | 1   | E1    | 0.13 | 0.63 |
| 3.95                        | <b>D1B36</b>  | 1A3.2B3.6-SH    | 1   | D1    | 0.13 | 0.50 |
| 4.15                        | <b>D1B38</b>  | 1A3.4B3.8-SH    | 2   | D1    | 0.13 | 0.50 |
| 4.35                        | <b>D1B40</b>  | 1A3.6B4.0-SH    | 2   | D1    | 0.13 | 0.50 |
| 4.55                        | <b>D1B42</b>  | 1A3.8B4.2-SH    | 2   | D1    | 0.13 | 0.50 |
| 4.75                        | <b>D1B44</b>  | 1A4.0B4.4-SH    | 2   | D1    | 0.13 | 0.50 |
| 4.95                        | <b>D1B46</b>  | 1A4.2B4.6-SDS   | 2   | C1    | 0.25 | 0.44 |
| 5.15                        | <b>D1B48</b>  | 1A4.4B4.8-SDS   | 3   | C1    | 0.25 | 0.44 |
| 5.35                        | <b>D1B50</b>  | 1A4.6B5.0-SDS   | 3   | C1    | 0.25 | 0.44 |
| 5.55                        | <b>D1B52</b>  | 1A4.8B5.2-SDS   | 3   | C1    | 0.25 | 0.44 |
| 5.75                        | <b>D1B54</b>  | 1A5.0B5.4-SDS   | 4   | C1    | 0.25 | 0.44 |
| 5.95                        | <b>D1B56</b>  | 1A5.2B5.6-SDS   | 4   | C1    | 0.25 | 0.44 |
| 6.15                        | <b>D1B58</b>  | 1A5.4B5.8-SDS   | 4   | C1    | 0.25 | 0.44 |
| 6.35                        | <b>D1B60</b>  | 1A5.6B6.0-SDS   | 5   | C1    | 0.25 | 0.44 |
| 6.55                        | <b>D1B62</b>  | 1A5.8B6.2-SDS   | 5   | C1    | 0.25 | 0.44 |
| 6.75                        | <b>D1B64</b>  | 1A6.0B6.4-SDS   | 6   | C1    | 0.25 | 0.44 |
| 6.95                        | <b>D1B66</b>  | 1A6.2B6.6-SDS   | 6   | C1    | 0.25 | 0.44 |
| 7.15                        | <b>D1B68</b>  | 1A6.4B6.8-SDS   | 6   | C1    | 0.25 | 0.44 |
| 7.35                        | <b>D1B70</b>  | 1A6.6B7.0-SDS   | 6   | D3    | 0.13 | 0.56 |
| 7.75                        | <b>D1B74</b>  | 1A7.0B7.4-SDS   | 6   | D3    | 0.13 | 0.56 |
| 8.35                        | <b>D1B80</b>  | 1A7.6B8.0-SDS   | 7   | D3    | 0.13 | 0.56 |
| 8.95                        | <b>D1B86</b>  | 1A8.2B8.6-SDS   | 8   | D3    | 0.13 | 0.56 |
| 9.35                        | <b>D1B90</b>  | 1A8.6B9.0-SDS   | 9   | D3    | 0.13 | 0.56 |
| 9.75                        | <b>D1B94</b>  | 1A9.0B9.4-SDS   | 9   | D3    | 0.13 | 0.56 |
| 11.35                       | <b>D1B110</b> | 1A10.6B11.0-SDS | 11  | D3    | 0.13 | 0.56 |
| 12.75                       | <b>D1B124</b> | 1A12.0B12.4-SDS | 12  | D3    | 0.13 | 0.56 |
| 13.95                       | <b>D1B136</b> | 1A13.2B13.6-SDS | 13  | D3    | 0.13 | 0.56 |
| 15.75                       | <b>D1B154</b> | 1A15.0B15.4-SK  | 20  | C3    | 0.11 | 0.69 |
| 16.35                       | <b>D1B160</b> | 1A15.6B16.0--SK | 22  | C3    | 0.09 | 0.88 |
| 18.75                       | <b>D1B184</b> | 1A18.0B18.4-SK  | 28  | E3    | 0.12 | 0.94 |
| 20.35                       | <b>D1B200</b> | 1B20.0--SK      | 30  | C3    | 0.00 | 0.81 |
| 25.35                       | <b>D1B250</b> | 1B25.0--SK      | 40  | E3    | 0.12 | 0.94 |

| 2-Groove |               |                |      |       |      |      |
|----------|---------------|----------------|------|-------|------|------|
| F = 1.75 |               |                |      |       |      |      |
| O.D.Δ    | Part No.      | Description    | Wt.  | Type‡ | M    | K    |
| # 3.75   | <b>D2B34</b>  | 2A3.0B3.4-SH   | 2    | E1    | 0.00 | 0.63 |
| ## 3.95  | <b>D2B36</b>  | 2A3.2B3.6-SH   | 3    | D1    | 0.16 | 0.47 |
| ## 4.15  | <b>D2B38</b>  | 2A3.4B3.8-SH   | 3    | D1    | 0.16 | 0.47 |
| ## 4.35  | <b>D2B40</b>  | 2A3.6B4.0-SH   | 3    | D1    | 0.16 | 0.47 |
| 4.55     | <b>D2B42</b>  | 2A3.8B4.2-SH   | 3    | A1    | 0.69 | 0.06 |
| 4.75     | <b>D2B44</b>  | 2A4.0B4.4-SH   | 4    | A1    | 0.69 | 0.06 |
| 4.95     | <b>D2B46</b>  | 2A4.2B4.6-SDS  | 4    | D1    | 0.69 | 0.00 |
| 5.15     | <b>D2B48</b>  | 2A4.4B4.8-SDS  | 4    | D1    | 0.69 | 0.00 |
| 5.35     | <b>D2B50</b>  | 2A4.6B5.0-SDS  | 5    | D1    | 0.69 | 0.00 |
| 5.55     | <b>D2B52</b>  | 2A4.8B5.2-SDS  | 5    | D1    | 0.69 | 0.00 |
| 5.75     | <b>D2B54</b>  | 2A5.0B5.4-SDS  | 6    | D1    | 0.69 | 0.00 |
| 5.95     | <b>D2B56</b>  | 2A5.2B5.6-SDS  | 6    | D1    | 0.69 | 0.00 |
| 6.15     | <b>D2B58</b>  | 2A5.4B5.8-SDS  | 6    | D2    | 0.69 | 0.00 |
| 6.35     | <b>D2B60</b>  | 2A5.6B6.0-SDS  | 6    | D2    | 0.69 | 0.00 |
| 6.55     | <b>D2B62</b>  | 2A5.8B6.2-SDS  | 7    | D2    | 0.69 | 0.00 |
| 6.75     | <b>D2B64</b>  | 2A6.0B6.4-SDS  | 7    | D2    | 0.69 | 0.00 |
| 6.95     | <b>D2B66</b>  | 2A6.2B6.6-SDS  | 8    | D2    | 0.69 | 0.00 |
| 7.15     | <b>D2B68</b>  | 2A6.4B6.8-SDS  | 8    | D2    | 0.69 | 0.00 |
| 7.35     | <b>D2B70</b>  | 2A6.6B7.0-SK   | 9    | D2    | 0.44 | 0.38 |
| 7.75     | <b>D2B74</b>  | 2A7.0B7.4-SK   | 10   | D2    | 0.44 | 0.38 |
| 8.35     | <b>D2B80</b>  | 2A7.6B8.0-SK   | 11   | D2    | 0.44 | 0.38 |
| 8.95     | <b>D2B86</b>  | 2A8.2B8.6-SK   | 12   | D3    | 0.44 | 0.38 |
| 9.35     | <b>D2B90</b>  | 2A8.6B8.6-SK   | 12   | D3    | 0.44 | 0.38 |
| 9.75     | <b>D2B94</b>  | 2A9.0B9.4-SK   | 13   | D3    | 0.44 | 0.38 |
| 11.35    | <b>D2B110</b> | 2A10.6B11.0-SK | 15   | D3    | 0.44 | 0.38 |
| 12.75    | <b>D2B124</b> | 2A12.0B12.4-SK | 18   | D3    | 0.25 | 0.56 |
| 13.95    | <b>D2B136</b> | 2A13.2B13.6-SK | 24   | D3    | 0.44 | 0.38 |
| 15.75    | <b>D2B154</b> | 2A15.0B15.4-SK | 25   | D3    | 0.44 | 0.38 |
| 16.35    | <b>D2B160</b> | 2A15.6B16.0-SK | 27.4 | D3    | 0.44 | 0.38 |
| 18.75    | <b>D2B184</b> | 2A18.0B18.4-SK | 38   | D3    | 0.44 | 0.38 |
| 20.35    | <b>D2B200</b> | 2B20.0--SF     | 47   | D3    | 0.13 | 0.69 |
| 25.35    | <b>D2B250</b> | 2B25.0-SF      | 60   | D3    | 0.44 | 0.38 |
| 30.35    | <b>D2B300</b> | 2B30.0--SF     | 75   | D3    | 0.38 | 0.44 |
| 38.35    | <b>D2B380</b> | 2B38.0--SF     | 100  | D3    | 0.47 | 0.34 |

P.D. for "A" (4L) Belts = Datum Dia. + 0.35" = O.D. - 0.40

P.D. for "B" (5L) Belts = O.D.

‡ Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT7-2

# Reverse Mount Only

## This sheave can only be reverse mounted with standard bushing bolts. Special bolts required for conventional mounting.

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets

# SELECTION/DIMENSIONS



## A/B QD SHEAVES - Standard Duty

| 3-Groove |               |                |      |       |      |      | F = 2.50 |               | 4-Groove       |     |       |      |      |  |  | F = 3.25 |  |
|----------|---------------|----------------|------|-------|------|------|----------|---------------|----------------|-----|-------|------|------|--|--|----------|--|
| O.D.Δ    | Part No.      | Description    | Wt.  | Type‡ | M    | K    | O.D.Δ    | Part No.      | Description    | Wt. | Type‡ | M    | K    |  |  |          |  |
| # 3.75   | <b>D3B34</b>  | 3A3.0B3.4-SH   | 3    | E1    | 0.00 | 0.63 | # 3.75   | <b>D4B34</b>  | 4A3.0B3.4-SD   | 4   | E1    | 0.00 | 1.00 |  |  |          |  |
| # 3.95   | <b>D3B36</b>  | 3A3.2B3.6-SH   | 4    | D1    | 0.13 | 0.50 | # 3.95   | <b>D4B36</b>  | 4A3.2B3.6-SD   | 5   | E1    | 0.00 | 1.00 |  |  |          |  |
| # 4.15   | <b>D3B38</b>  | 3A3.4B3.8-SH   | 4    | D1    | 0.13 | 0.50 | # 4.15   | <b>D4B38</b>  | 4A3.4B3.8-SD   | 6   | E1    | 0.00 | 1.00 |  |  |          |  |
| # 4.35   | <b>D3B40</b>  | 3A3.6B4.0-SH   | 4    | E1    | 0.00 | 0.63 | # 4.35   | <b>D4B40</b>  | 4A3.6B4.0-SD   | 5   | E1    | 0.00 | 0.69 |  |  |          |  |
| 4.55     | <b>D3B42</b>  | 3A3.8B4.2-SH   | 4    | A1    | 1.06 | 0.44 | # 4.55   | <b>D4B42</b>  | 4A3.8B4.2-SD   | 6   | E1    | 0.00 | 0.69 |  |  |          |  |
| 4.75     | <b>D3B44</b>  | 3A4.0B4.4-SH   | 5    | A1    | 1.06 | 0.44 | 4.75     | <b>D4B44</b>  | 4A4.0B4.4-SD   | 6   | E1    | 0.00 | 0.69 |  |  |          |  |
| 4.95     | <b>D3B46</b>  | 3A4.2B4.6-SD   | 5    | A1    | 1.06 | 0.38 | 4.95     | <b>D4B46</b>  | 4A4.2B4.6-SD   | 7   | A1    | 1.31 | 0.63 |  |  |          |  |
| 5.15     | <b>D3B48</b>  | 3A4.4B4.8-SD   | 6    | A1    | 1.06 | 0.38 | 5.15     | <b>D4B48</b>  | 4A4.4B4.8-SD   | 8   | A1    | 1.31 | 0.63 |  |  |          |  |
| 5.35     | <b>D3B50</b>  | 3A4.6B5.0-SD   | 7    | A1    | 1.06 | 0.38 | 5.35     | <b>D4B50</b>  | 4A4.6B5.0-SD   | 8   | A1    | 1.31 | 0.63 |  |  |          |  |
| 5.55     | <b>D3B52</b>  | 3A4.8B5.2-SD   | 7    | A1    | 1.06 | 0.38 | 5.55     | <b>D4B52</b>  | 4A4.8B5.2-SD   | 9   | A1    | 1.31 | 0.63 |  |  |          |  |
| 5.75     | <b>D3B54</b>  | 3A5.0B5.4-SD   | 8    | A1    | 1.06 | 0.38 | 5.75     | <b>D4B54</b>  | 4A5.0B5.4-SD   | 10  | A1    | 1.31 | 0.63 |  |  |          |  |
| 5.95     | <b>D3B56</b>  | 3A5.2B5.6-SD   | 9    | A1    | 1.06 | 0.38 | 5.95     | <b>D4B56</b>  | 4A5.2B5.6-SD   | 10  | A1    | 1.31 | 0.63 |  |  |          |  |
| 6.15     | <b>D3B58</b>  | 3A5.4B5.8-SD   | 9    | A2    | 1.06 | 0.38 | 6.15     | <b>D4B58</b>  | 4A5.4B5.8-SD   | 11  | A2    | 1.31 | 0.63 |  |  |          |  |
| 6.35     | <b>D3B60</b>  | 3A5.6B6.0-SD   | 10   | A2    | 1.06 | 0.38 | 6.35     | <b>D4B60</b>  | 4A5.6B6.0-SD   | 11  | A2    | 1.31 | 0.63 |  |  |          |  |
| 6.55     | <b>D3B62</b>  | 3A5.8B6.2-SD   | 10   | A2    | 1.06 | 0.38 | 6.55     | <b>D4B62</b>  | 4A5.8B6.2-SD   | 12  | A2    | 1.31 | 0.63 |  |  |          |  |
| 6.75     | <b>D3B64</b>  | 3A6.0B6.4-SD   | 10   | A2    | 1.06 | 0.38 | 6.75     | <b>D4B64</b>  | 4A6.0B6.4-SD   | 11  | A2    | 1.31 | 0.63 |  |  |          |  |
| 6.95     | <b>D3B66</b>  | 3A6.2B6.6-SD   | 10   | A2    | 1.06 | 0.38 | 6.95     | <b>D4B66</b>  | 4A6.2B6.6-SD   | 11  | A2    | 1.31 | 0.63 |  |  |          |  |
| 7.15     | <b>D3B68</b>  | 3A6.4B6.8-SD   | 11   | A2    | 1.06 | 0.38 | 7.15     | <b>D4B68</b>  | 4A6.4B6.8-SD   | 12  | A2    | 1.31 | 0.63 |  |  |          |  |
| 7.35     | <b>D3B70</b>  | 3A6.6B7.0-SK   | 12   | D2    | 0.69 | 0.13 | 7.35     | <b>D4B70</b>  | 4A6.6B7.0-SK   | 13  | A2    | 1.00 | 0.19 |  |  |          |  |
| 7.75     | <b>D3B74</b>  | 3A7.0B7.4-SK   | 12   | D2    | 0.69 | 0.13 | 7.75     | <b>D4B74</b>  | 4A7.0B7.4-SK   | 15  | A2    | 1.00 | 0.19 |  |  |          |  |
| 8.35     | <b>D3B80</b>  | 3A7.6B8.0-SK   | 13   | D2    | 0.69 | 0.13 | 8.35     | <b>D4B80</b>  | 4A7.6B8.0-SK   | 15  | A2    | 1.00 | 0.19 |  |  |          |  |
| 8.95     | <b>D3B86</b>  | 3A8.2B8.6-SK   | 14   | D3    | 0.69 | 0.13 | 8.95     | <b>D4B86</b>  | 4A8.2B8.6-SK   | 17  | A3    | 1.00 | 0.19 |  |  |          |  |
| 9.35     | <b>D3B90</b>  | 3A8.6B9.0-SK   | 15   | D3    | 0.69 | 0.13 | 9.35     | <b>D4B90</b>  | 4A8.6B9.0-SK   | 17  | A3    | 1.00 | 0.19 |  |  |          |  |
| 9.75     | <b>D3B94</b>  | 3A9.0B9.4-SK   | 17   | D3    | 0.69 | 0.13 | 9.75     | <b>D4B94</b>  | 4A9.0B9.4-SK   | 19  | A3    | 1.00 | 0.19 |  |  |          |  |
| 11.35    | <b>D3B110</b> | 3A10.6B11.0-SK | 21   | D3    | 0.69 | 0.13 | 11.35    | <b>D4B110</b> | 4A10.6B11.0-SK | 25  | A3    | 1.00 | 0.19 |  |  |          |  |
| 12.75    | <b>D3B124</b> | 3A12.0B12.4-SK | 25   | D3    | 0.69 | 0.13 | 12.75    | <b>D4B124</b> | 4A12.0B12.4-SK | 28  | A3    | 1.00 | 0.19 |  |  |          |  |
| 13.95    | <b>D3B136</b> | 3A13.2B13.6-SK | 28   | D3    | 0.69 | 0.13 | 13.95    | <b>D4B136</b> | 4A13.2B13.6-SK | 32  | A3    | 1.00 | 0.19 |  |  |          |  |
| 15.75    | <b>D3B154</b> | 3A15.0B15.4-SK | 30   | D3    | 0.69 | 0.13 | 15.75    | <b>D4B154</b> | 4A15.0B15.4-SF | 38  | A3    | 1.00 | 0.19 |  |  |          |  |
| 16.35    | <b>D3B160</b> | 3A15.6B16.0-SK | 32   | D3    | 0.69 | 0.13 | 16.35    | <b>D4B160</b> | 4A15.6B16.0-SF | 41  | A3    | 1.00 | 0.19 |  |  |          |  |
| 18.75    | <b>D3B184</b> | 3A18.0B18.4-SK | 41   | D3    | 0.69 | 0.13 | 18.75    | <b>D4B184</b> | 4A18.0B18.4-SF | 48  | A3    | 1.00 | 0.19 |  |  |          |  |
| 20.35    | <b>D3B200</b> | 3B20.0-SF      | 55.6 | D3    | 0.63 | 0.19 | 20.35    | <b>D4B200</b> | 4B20.0-SF      | 60  | A3    | 1.00 | 0.19 |  |  |          |  |
| 25.35    | <b>D3B250</b> | 3B25.0--SF     | 76.1 | D3    | 0.63 | 0.19 | 25.35    | <b>D4B250</b> | 4B25.0-E       | 93  | D3    | 1.00 | 0.06 |  |  |          |  |
| 30.35    | <b>D3B300</b> | 3B30.0--SF     | 96   | D3    | 0.63 | 0.19 | 30.35    | <b>D4B300</b> | 4B30.0--E      | 120 | D3    | 1.00 | 0.06 |  |  |          |  |
| 38.35    | <b>D3B380</b> | 3B38.0-E       | 145  | D3    | 0.69 | 0.38 | 38.35    | <b>D4B380</b> | 4B38.0--E      | 162 | D3    | 1.00 | 0.00 |  |  |          |  |

P.D. for "A" (4L) Belts = Daturm Dia. + 0.35" = O.D. - 0.40

P.D. for "B" (5L) Belts = O.D.

# Reverse Mount Only

‡ Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT7-2

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets



# SELECTION/DIMENSIONS

## A/B QD SHEAVES - Standard Duty

| 5-Groove |               |                |      |       |      |      | F = 4.00 |  |
|----------|---------------|----------------|------|-------|------|------|----------|--|
| O.D.Δ    | Part No.      | Description    | Wt.  | Type‡ | M    | K    |          |  |
| # 3.75   | <b>D5B34</b>  | 5A3.0B3.4-SD   | 5    | E1    | 0.00 | 1.00 |          |  |
| # 3.95   | <b>D5B36</b>  | 5A3.2B3.6-SD   | 6    | E1    | 0.00 | 1.00 |          |  |
| # 4.15   | <b>D5B38</b>  | 5A3.4B3.8-SD   | 6    | E1    | 0.00 | 1.00 |          |  |
| # 4.35   | <b>D5B40</b>  | 5A3.6B4.0-SD   | 6    | E1    | 0.00 | 0.69 |          |  |
| # 4.55   | <b>D5B42</b>  | 5A3.8B4.2-SD   | 7    | E1    | 0.00 | 0.69 |          |  |
| # 4.75   | <b>D5B44</b>  | 5A4.0B4.4-SD   | 7    | E1    | 0.00 | 0.69 |          |  |
| 4.95     | <b>D5B46</b>  | 5A4.2B4.6-SD   | 7    | A1    | 1.31 | 0.63 |          |  |
| 5.15     | <b>D5B48</b>  | 5A4.4B4.8-SD   | 9    | A1    | 1.31 | 0.63 |          |  |
| 5.35     | <b>D5B50</b>  | 5A4.6B5.0-SD   | 10   | A1    | 1.31 | 0.63 |          |  |
| 5.55     | <b>D5B52</b>  | 5A4.8B5.2-SD   | 10   | A1    | 1.31 | 0.63 |          |  |
| 5.75     | <b>D5B54</b>  | 5A5.0B5.4-SK   | 10   | A1    | 1.31 | 0.50 |          |  |
| 5.95     | <b>D5B56</b>  | 5A5.2B5.6-SK   | 11   | A1    | 1.31 | 0.50 |          |  |
| 6.15     | <b>D5B58</b>  | 5A5.4B5.8-SK   | 12   | A1    | 1.31 | 0.50 |          |  |
| 6.35     | <b>D5B60</b>  | 5A5.6B6.0-SK   | 12   | A1    | 1.31 | 0.50 |          |  |
| 6.55     | <b>D5B62</b>  | 5A5.8B6.2-SK   | 14   | A1    | 1.31 | 0.50 |          |  |
| 6.75     | <b>D5B64</b>  | 5A6.0B6.4-SK   | 14   | A1    | 1.31 | 0.50 |          |  |
| 6.95     | <b>D5B66</b>  | 5A6.2B6.6-SK   | 15   | A1    | 1.31 | 0.50 |          |  |
| 7.15     | <b>D5B68</b>  | 5A6.4B6.8-SK   | 16   | A1    | 1.31 | 0.50 |          |  |
| 7.35     | <b>D5B70</b>  | 5A6.6B7.0-SF   | 16   | A1    | 1.31 | 0.50 |          |  |
| 7.75     | <b>D5B74</b>  | 5A7.0B7.4-SF   | 18   | A1    | 1.31 | 0.50 |          |  |
| 8.35     | <b>D5B80</b>  | 5A7.6B8.0-SF   | 19   | A2    | 1.31 | 0.50 |          |  |
| 8.95     | <b>D5B86</b>  | 5A8.2B8.6-SF   | 21   | A2    | 1.31 | 0.50 |          |  |
| 9.35     | <b>D5B90</b>  | 5A8.6B9.0-SF   | 21   | A3    | 1.31 | 0.50 |          |  |
| 9.75     | <b>D5B94</b>  | 5A9.0B9.4-SF   | 22   | A3    | 1.31 | 0.50 |          |  |
| 11.35    | <b>D5B110</b> | 5A10.6B11.0-SF | 29   | A3    | 1.31 | 0.50 |          |  |
| 12.75    | <b>D5B124</b> | 5A12.0B12.4-SF | 33   | A3    | 1.31 | 0.50 |          |  |
| 13.95    | <b>D5B136</b> | 5A13.2B13.6-SF | 39   | A3    | 1.31 | 0.50 |          |  |
| 15.75    | <b>D5B154</b> | 5A15.0B15.4-SF | 43   | A3    | 1.31 | 0.50 |          |  |
| 16.35    | <b>D5B160</b> | 5A15.6B16.0-SF | 46   | A3    | 1.31 | 0.50 |          |  |
| 18.75    | <b>D5B184</b> | 5A18.0B18.4-SF | 54   | A3    | 1.31 | 0.50 |          |  |
| 20.35    | <b>D5B200</b> | 5B20.0-E       | 77.5 | A3    | 1.25 | 0.19 |          |  |
| 25.35    | <b>D5B250</b> | 5B25.0-E       | 108  | A3    | 1.25 | 0.19 |          |  |
| 30.35    | <b>D5B300</b> | 5B30.0-E       | 131  | A3    | 1.25 | 0.19 |          |  |
| 38.35    | <b>D5B380</b> | 5B38.0-E       | 169  | A3    | 1.25 | 0.19 |          |  |

| 6-Groove |               |                |      |       |      |      | F = 4.75 |  |
|----------|---------------|----------------|------|-------|------|------|----------|--|
| O.D.Δ    | Part No.      | Description    | Wt.  | Type‡ | M    | K    |          |  |
| # 3.75   | <b>D6B34</b>  | 6A3.0B3.4-SD   | 6    | E1    | 0.00 | 1.09 |          |  |
| # 3.95   | <b>D6B36</b>  | 6A3.2B3.6-SD   | 7    | E1    | 0.00 | 1.09 |          |  |
| # 4.15   | <b>D6B38</b>  | 6A3.4B3.8-SD   | 7    | E1    | 0.00 | 1.09 |          |  |
| # 4.35   | <b>D6B40</b>  | 6A3.6B4.0-SD   | 7    | E1    | 0.00 | 0.69 |          |  |
| # 4.55   | <b>D6B42</b>  | 6A3.8B4.2-SD   | 8    | E1    | 0.00 | 0.69 |          |  |
| # 4.75   | <b>D6B44</b>  | 6A4.0B4.4-SD   | 9    | E1    | 0.00 | 0.69 |          |  |
| 4.95     | <b>D6B46</b>  | 6A4.2B4.6-SD   | 9    | A1    | 1.31 | 0.63 |          |  |
| 5.15     | <b>D6B48</b>  | 6A4.4B4.8-SD   | 10   | A1    | 1.31 | 0.63 |          |  |
| 5.35     | <b>D6B50</b>  | 6A4.6B5.0-SD   | 11   | A1    | 1.31 | 0.63 |          |  |
| 5.55     | <b>D6B52</b>  | 6A4.8B5.2-SD   | 11   | A1    | 1.31 | 0.63 |          |  |
| 5.75     | <b>D6B54</b>  | 6A5.0B5.4-SK   | 11   | A1    | 1.31 | 0.50 |          |  |
| 5.95     | <b>D6B56</b>  | 6A5.2B5.6-SK   | 13.4 | A1    | 1.31 | 0.50 |          |  |
| 6.15     | <b>D6B58</b>  | 6A5.4B5.8-SK   | 15.5 | A1    | 1.31 | 0.50 |          |  |
| 6.35     | <b>D6B60</b>  | 6A5.6B6.0-SK   | 15   | A1    | 1.31 | 0.50 |          |  |
| 6.55     | <b>D6B62</b>  | 6A5.8B6.2-SK   | 15   | A1    | 1.31 | 0.50 |          |  |
| 6.75     | <b>D6B64</b>  | 6A6.0B6.4-SK   | 16   | A1    | 1.31 | 0.50 |          |  |
| 6.95     | <b>D6B66</b>  | 6A6.2B6.6-SK   | 17   | A1    | 1.31 | 0.50 |          |  |
| 7.15     | <b>D6B68</b>  | 6A6.4B6.8-SK   | 18   | A1    | 1.31 | 0.50 |          |  |
| 7.35     | <b>D6B70</b>  | 6A6.6B7.0-SF   | 19   | A1    | 1.69 | 0.88 |          |  |
| 7.75     | <b>D6B74</b>  | 6A7.0B7.4-SF   | 20   | A1    | 1.69 | 0.88 |          |  |
| 8.35     | <b>D6B80</b>  | 6A7.6B8.0-SF   | 24   | A2    | 1.69 | 0.88 |          |  |
| 8.95     | <b>D6B86</b>  | 6A8.2B8.6-SF   | 26   | A2    | 1.69 | 0.88 |          |  |
| 9.75     | <b>D6B94</b>  | 6A9.0B9.4-SF   | 30   | A2    | 1.69 | 0.88 |          |  |
| 11.35    | <b>D6B110</b> | 6A10.6B11.0-SF | 30   | A3    | 1.69 | 0.88 |          |  |
| 12.75    | <b>D6B124</b> | 6A12.0B12.4-SF | 37   | A3    | 1.67 | 0.88 |          |  |
| 13.95    | <b>D6B136</b> | 6A13.2B13.6-SF | 39   | A3    | 1.91 | 1.09 |          |  |
| 15.75    | <b>D6B154</b> | 6A15.0B15.4-SF | 51.4 | A3    | 1.91 | 1.09 |          |  |
| 16.35    | <b>D6B160</b> | 6A15.6B16.0-SF | 54.6 | A3    | 1.69 | 0.88 |          |  |
| 18.75    | <b>D6B184</b> | 6A18.0B18.4-SF | 59   | A3    | 1.91 | 1.09 |          |  |
| 20.35    | <b>D6B200</b> | 6B20.0-E       | 96.9 | A3    | 1.25 | 0.19 |          |  |
| 25.35    | <b>D6B250</b> | 6B25.0-E       | 120  | A3    | 1.38 | 0.31 |          |  |
| 30.35    | <b>D6B300</b> | 6B30.0-E       | 151  | A3    | 1.38 | 0.31 |          |  |
| 38.35    | <b>D6B380</b> | 6B38.0-E       | 157  | A3    | 1.38 | 0.31 |          |  |

P.D. for "A" (4L) Belts = Datum Dia. + 0.35" = O.D. - 0.40

P.D. for "B" (5L) Belts = O.D.

# Reverse Mount Only

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-2

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets

# SELECTION/DIMENSIONS



## A/B QD SHEAVES - Standard Duty

| 8-Groove |               |             |     |       |       |      | 10-Groove |                |             |      |       |      |      |
|----------|---------------|-------------|-----|-------|-------|------|-----------|----------------|-------------|------|-------|------|------|
| F = 6.25 |               |             |     |       |       |      | F = 7.75  |                |             |      |       |      |      |
| O.D.Δ    | Part No.      | Description | Wt. | Type‡ | M     | K    | O.D.Δ     | Part No.       | Description | Wt.  | Type‡ | M    | K    |
| 5.75     | <b>D8B54</b>  | 8B5.4-SK    | 15  | A1    | 1.81  | 1.00 | 5.75      | <b>D10B54</b>  | 10B5.4-SK   | 16   | A1    | 2.56 | 1.75 |
| 5.95     | <b>D8B56</b>  | 8B5.6-SK    | 17  | A1    | 1.81  | 1.00 | 5.95      | <b>D10B56</b>  | 10B5.6-SK   | 17   | A1    | 2.56 | 1.75 |
| 6.15     | <b>D8B58</b>  | 8B5.8-SK    | 16  | A1    | 1.81  | 1.00 | 6.15      | <b>D10B58</b>  | 10B5.8-SK   | 18   | A1    | 2.56 | 1.75 |
| 6.35     | <b>D8B60</b>  | 8B6.0-SF    | 16  | A1    | 1.81  | 1.00 | 6.35      | <b>D10B60</b>  | 10B6.0-SF   | 19   | A1    | 2.56 | 1.75 |
| 6.55     | <b>D8B62</b>  | 8B6.2-SF    | 18  | A1    | 1.81  | 1.00 | 6.55      | <b>D10B62</b>  | 10B6.2-SF   | 20   | A1    | 2.56 | 1.75 |
| 6.75     | <b>D8B64</b>  | 8B6.4-SF    | 19  | A1    | 1.81  | 1.00 | 6.75      | <b>D10B64</b>  | 10B6.4-SF   | 21   | A1    | 2.56 | 1.75 |
| 6.95     | <b>D8B66</b>  | 8B6.6-SF    | 20  | A1    | 1.81  | 1.00 | 6.95      | <b>D10B66</b>  | 10B6.6-SF   | 21   | A1    | 2.56 | 1.75 |
| 7.15     | <b>D8B68</b>  | 8B6.8-SF    | 21  | A1    | 1.81  | 1.00 | 7.15      | <b>D10B68</b>  | 10B6.8-SF   | 22   | A1    | 2.56 | 1.75 |
| 7.35     | <b>D8B70</b>  | 8B7.0-SF    | 22  | A1    | 1.81  | 1.00 | 7.35      | <b>D10B70</b>  | 10B7.0-SF   | 23   | A1    | 2.56 | 1.75 |
| 7.75     | <b>D8B74</b>  | 8B7.4-SF    | 25  | A1    | 1.81  | 1.00 | 7.75      | <b>D10B74</b>  | 10B7.4-SF   | 24   | A1    | 2.56 | 1.75 |
| 8.35     | <b>D8B80</b>  | 8B8.0-E     | 29  | A1    | 2.38  | 1.31 | -         | -              | -           | -    | -     | -    | -    |
| 8.95     | <b>D8B86</b>  | 8B8.6-E     | 33  | A1    | 2.38  | 1.31 | 8.95      | <b>D10B86</b>  | 10B8.6-E    | 39.6 | A1    | 3.13 | 2.06 |
| 9.75     | <b>D8B94</b>  | 8B9.4-E     | 36  | A1    | 2.38  | 1.31 | 9.75      | <b>D10B94</b>  | 10B9.4-E    | 40   | A1    | 3.13 | 2.06 |
| 11.35    | <b>D8B110</b> | 8B11.0-E    | 46  | A1    | 2.38  | 1.31 | 11.35     | <b>D10B110</b> | 10B11.0-E   | 52   | A1    | 3.13 | 2.06 |
| 12.75    | <b>D8B124</b> | 8B12.4-E    | 53  | A2    | 2.38  | 1.31 | 12.75     | <b>D10B124</b> | 10B12.4-E   | 58   | A2    | 3.13 | 2.06 |
| 13.95    | <b>D8B136</b> | 8B13.6-E    | 59  | A3    | 2.44  | 1.38 | 13.95     | <b>D10B136</b> | 10B13.6-F   | 73   | A3    | 2.06 | 0.84 |
| 15.75    | <b>D8B154</b> | 8B15.4-E    | 69  | A3    | 2.44  | 1.38 | 15.75     | <b>D10B154</b> | 10B15.4-F   | 87   | A3    | 2.06 | 0.84 |
| 16.35    | <b>D8B160</b> | 8B16.0-E    | 71  | A3    | #N/A! | 1.31 | 16.35     | <b>D10B160</b> | 10B16.0-F   | 100  | A3    | 2.06 | 0.84 |
| 18.75    | <b>D8B184</b> | 8B18.4--F   | 108 | A3    | 1.31  | 0.09 | 18.75     | <b>D10B184</b> | 10B18.4--F  | 110  | A3    | 2.06 | 0.84 |
| 20.35    | <b>D8B200</b> | 8B20.0--F   | 114 | A3    | 1.31  | 0.09 | 20.35     | <b>D10B200</b> | 10B20.0--F  | 120  | A3    | 2.06 | 0.84 |
| 25.35    | <b>D8B250</b> | 8B25.0-F    | 152 | A3    | 1.31  | 0.09 | 25.35     | <b>D10B250</b> | 10B25.0--F  | 148  | A3    | 2.06 | 0.84 |
| 30.35    | <b>D8B300</b> | 8B30.0--F   | 186 | A3    | 1.31  | 0.09 | 30.35     | <b>D10B300</b> | 10B30.0--F  | 190  | A3    | 2.06 | 0.84 |
| 38.35    | <b>D8B380</b> | 8B38.0-F    | 220 | A3    | 1.31  | 0.09 | 38.35     | <b>D10B380</b> | 10B38.0-J   | 260  | A3    | 1.63 | 0.22 |

P.D. for "A" (4L) Belts = Datum Dia. + 0.35" = O.D. - 0.40

P.D. for "B" (5L) Belts = O.D.

# Reverse Mount Only

‡ Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT7-2

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets





# SELECTION/DIMENSIONS

## C QD SHEAVES - Standard Duty

| 1-Groove |               |             |      |       |      |      | F = 1.38 |  |
|----------|---------------|-------------|------|-------|------|------|----------|--|
| O.D.Δ    | Part No.      | Description | Wt.  | Type‡ | M    | K    |          |  |
| 7.4      | <b>D1C70</b>  | 1C7.0-SF    | 10   | C1    | 0.25 | 0.56 |          |  |
| 7.9      | <b>D1C75</b>  | 1C7.5-SF    | 11   | C1    | 0.25 | 0.56 |          |  |
| 8.4      | <b>D1C80</b>  | 1C8.0-SF    | 13.2 | C1    | 0.25 | 0.56 |          |  |
| 8.9      | <b>D1C85</b>  | 1C8.5-SF    | 15.6 | C1    | 0.25 | 0.56 |          |  |
| 9.4      | <b>D1C90</b>  | 1C9.0-SF    | 13   | C2    | 0.22 | 0.59 |          |  |
| 9.9      | <b>D1C95</b>  | 1C9.5-SF    | 18   | C2    | 0.22 | 0.59 |          |  |
| 10.4     | <b>D1C100</b> | 1C10.0-SF   | 14   | D2    | 0.13 | 0.69 |          |  |
| 10.9     | <b>D1C105</b> | 1C10.5-SF   | 20   | D2    | 0.13 | 0.69 |          |  |
| 11.4     | <b>D1C110</b> | 1C11.0-SF   | 15   | C2    | 0.13 | 0.53 |          |  |
| 12.4     | <b>D1C120</b> | 1C12.0-SF   | 16   | D2    | 0.13 | 0.69 |          |  |
| 13.4     | <b>D1C130</b> | 1C13.0-SF   | 18   | D3    | 0.13 | 0.69 |          |  |
| 14.4     | <b>D1C140</b> | 1C14.0-SF   | 20   | D3    | 0.13 | 0.69 |          |  |
| 16.4     | <b>D1C160</b> | 1C16.0-SF   | 24   | D3    | 0.13 | 0.69 |          |  |
| 18.4     | <b>D1C180</b> | 1C18.0-SF   | 32   | D3    | 0.13 | 0.69 |          |  |
| 20.4     | <b>D1C200</b> | 1C20.0--SF  | 35   | D3    | 0.13 | 0.69 |          |  |
| 24.4     | <b>D1C240</b> | 1C24.0--SF  | 46.9 | D3    | 0.13 | 0.69 |          |  |

| 3-Groove |                |             |       |       |       |      | F = 3.38 |  |
|----------|----------------|-------------|-------|-------|-------|------|----------|--|
| O.D.Δ    | Part No.       | Description | Wt.   | Type‡ | M     | K    |          |  |
| + 5.4    | <b>D3C50</b>   | 3C5.0-SD    | 9     | A1    | 1.00  | 0.31 |          |  |
| # + 5.4  | <b>D3C50SK</b> | 3C5.0-SK    | 10.5  | E1    | #N/A! | 0.83 |          |  |
| + 6.0    | <b>D3C56</b>   | 3C5.6-SF    | 10    | A1    | 0.00  | 0.63 |          |  |
| + 6.4    | <b>D3C60</b>   | 3C6.0-SF    | 11.3  | A1    | 0.75  | 0.06 |          |  |
| 7.4      | <b>D3C70</b>   | 3C7.0-SF    | 16    | A1    | 1.31  | 0.50 |          |  |
| 7.9      | <b>D3C75</b>   | 3C7.5-SF    | 18    | A1    | 1.31  | 0.50 |          |  |
| 8.4      | <b>D3C80</b>   | 3C8.0-E     | 21    | A1    | 1.75  | 0.69 |          |  |
| 8.9      | <b>D3C85</b>   | 3C8.5-E     | 24    | A1    | 1.75  | 0.69 |          |  |
| 9.4      | <b>D3C90</b>   | 3C9.0-E     | 26    | A1    | 1.75  | 0.69 |          |  |
| 9.9      | <b>D3C95</b>   | 3C9.5-E     | 29.8  | A2    | 1.75  | 0.69 |          |  |
| 10.4     | <b>D3C100</b>  | 3C10.0-E    | 34    | A2    | 1.75  | 0.69 |          |  |
| 10.9     | <b>D3C105</b>  | 3C10.5-E    | 37    | A2    | 1.75  | 0.69 |          |  |
| 11.4     | <b>D3C110</b>  | 3C11.0-E    | 39    | A2    | 1.75  | 0.69 |          |  |
| 12.4     | <b>D3C120</b>  | 3C12.0-E    | 43.4  | A2    | 1.75  | 0.69 |          |  |
| 13.4     | <b>D3C130</b>  | 3C13.0-E    | 45    | A3    | 1.75  | 0.69 |          |  |
| 14.4     | <b>D3C140</b>  | 3C14.0-E    | 50    | A3    | 1.75  | 0.69 |          |  |
| 16.4     | <b>D3C160</b>  | 3C16.0-E    | 60    | A3    | 1.75  | 0.69 |          |  |
| 18.4     | <b>D3C180</b>  | 3C18.0-E    | 63    | A3    | 1.75  | 0.69 |          |  |
| 20.4     | <b>D3C200</b>  | 3C20.0--E   | 81    | D3    | 1.00  | 0.06 |          |  |
| 24.4     | <b>D3C240</b>  | 3C24.0-E    | 94.7  | D3    | 1.00  | 0.06 |          |  |
| 27.4     | <b>D3C270</b>  | 3C27.0--F   | 116   | D3    | 0.81  | 0.41 |          |  |
| 30.4     | <b>D3C300</b>  | 3C30.0--F   | 134.4 | D3    | 0.81  | 0.41 |          |  |
| 36.4     | <b>D3C360</b>  | 3C36.0--F   | 159   | D3    | 0.81  | 0.41 |          |  |
| 44.4     | <b>D3C440</b>  | 3C44.0-F    | 190   | D3    | 0.81  | 0.41 |          |  |
| 50.4     | <b>D3C500</b>  | 3C50.0--F   | 250   | D3    | 0.81  | 0.41 |          |  |

P.D. for "C" Belts = O.D.

# Reverse Mount Only

‡ Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT7-2

+ Recommended CX Belt only

| 2-Groove |               |             |      |       |       |      | F = 2.38 |  |
|----------|---------------|-------------|------|-------|-------|------|----------|--|
| O.D.Δ    | Part No.      | Description | Wt.  | Type‡ | M     | K    |          |  |
| 7.4      | <b>D2C70</b>  | 2C7.0-SF    | 13   | A1    | 0.81  | 0.00 |          |  |
| 7.9      | <b>D2C75</b>  | 2C7.5-SF    | 15   | A1    | 0.81  | 0.00 |          |  |
| 8.4      | <b>D2C80</b>  | 2C8.0-SF    | 17   | A1    | 0.81  | 0.00 |          |  |
| 8.9      | <b>D2C85</b>  | 2C8.5-SF    | 19   | A1    | 0.81  | 0.00 |          |  |
| 9.4      | <b>D2C90</b>  | 2C9.0-SF    | 21   | A2    | 0.81  | 0.00 |          |  |
| 9.9      | <b>D2C95</b>  | 2C9.5-SF    | 22   | A2    | 0.81  | 0.00 |          |  |
| 10.4     | <b>D2C100</b> | 2C10.0-SF   | 21.8 | A2    | 0.81  | 0.00 |          |  |
| 10.9     | <b>D2C105</b> | 2C10.5-SF   | 23   | A2    | 0.81  | 0.00 |          |  |
| 11.4     | <b>D2C110</b> | 2C11.0-SF   | 26   | A2    | 0.81  | 0.00 |          |  |
| 12.4     | <b>D2C120</b> | 2C12.0-SF   | 37   | D2    | 0.56  | 0.25 |          |  |
| 13.4     | <b>D2C130</b> | 2C13.0-SF   | 35   | D3    | 0.56  | 0.25 |          |  |
| 14.4     | <b>D2C140</b> | 2C14.0-SF   | 40   | D3    | 0.56  | 0.25 |          |  |
| 16.4     | <b>D2C160</b> | 2C16.0-SF   | 40   | D3    | 0.56  | 0.25 |          |  |
| 18.4     | <b>D2C180</b> | 2C18.0-SF   | 50   | D3    | 0.56  | 0.25 |          |  |
| 20.4     | <b>D2C200</b> | 2C20.0--SF  | 55   | D3    | 0.56  | 0.25 |          |  |
| 24.4     | <b>D2C240</b> | 2C24.0--SF  | 73.1 | D3    | 0.56  | 0.25 |          |  |
| 27.4     | <b>D2C270</b> | 2C27.0--F   | 94   | C3    | #N/A! | 0.91 |          |  |
| 30.4     | <b>D2C300</b> | 2C30.0--F   | 104  | C3    | #N/A! | 0.91 |          |  |

| 4-Groove |                |             |       |       |       |      | F = 4.38 |  |
|----------|----------------|-------------|-------|-------|-------|------|----------|--|
| O.D.Δ    | Part No.       | Description | Wt.   | Type‡ | M     | K    |          |  |
| + 5.4    | <b>D4C50</b>   | 4C5.0-SD    | 10.2  | A1    | 1.31  | 0.63 |          |  |
| # + 5.4  | <b>D4C50SK</b> | 4C5.0-SK    | 12.0  | E1    | #N/A! | 0.81 |          |  |
| + 6.0    | <b>D4C56</b>   | 4C5.6-SF    | 13.0  | A1    | 0.00  | 0.88 |          |  |
| + 6.4    | <b>D4C60</b>   | 4C6.0-SF    | 15.0  | A1    | 0.88  | 0.06 |          |  |
| 7.4      | <b>D4C70</b>   | 4C7.0-SF    | 19.0  | A1    | 1.56  | 0.75 |          |  |
| 7.9      | <b>D4C75</b>   | 4C7.5-SF    | 22.0  | A1    | 1.56  | 0.75 |          |  |
| 8.4      | <b>D4C80</b>   | 4C8.0-E     | 24.0  | A1    | 2.00  | 0.94 |          |  |
| 8.9      | <b>D4C85</b>   | 4C8.5-E     | 28.0  | A1    | 2.00  | 0.94 |          |  |
| 9.4      | <b>D4C90</b>   | 4C9.0-E     | 31.0  | A1    | 2.00  | 0.94 |          |  |
| 9.9      | <b>D4C95</b>   | 4C9.5-E     | 34.8  | A1    | 2.00  | 0.94 |          |  |
| 10.4     | <b>D4C100</b>  | 4C10.0-E    | 40.0  | A1    | 2.00  | 0.94 |          |  |
| 10.9     | <b>D4C105</b>  | 4C10.5-E    | 43.0  | A2    | 2.00  | 0.94 |          |  |
| 11.4     | <b>D4C110</b>  | 4C11.0-E    | 44.0  | A2    | 2.00  | 0.94 |          |  |
| 12.4     | <b>D4C120</b>  | 4C12.0-E    | 50.0  | A2    | 2.00  | 0.94 |          |  |
| 13.4     | <b>D4C130</b>  | 4C13.0-E    | 52.0  | A3    | 2.00  | 0.94 |          |  |
| 14.4     | <b>D4C140</b>  | 4C14.0-E    | 57.0  | A3    | 2.00  | 0.94 |          |  |
| 16.4     | <b>D4C160</b>  | 4C16.0--E   | 67.0  | A3    | 2.00  | 0.94 |          |  |
| 18.4     | <b>D4C180</b>  | 4C18.0-E    | 72.0  | A3    | 2.00  | 0.94 |          |  |
| 20.4     | <b>D4C200</b>  | 4C20.0--E   | 86.0  | A3    | 1.50  | 0.44 |          |  |
| 24.4     | <b>D4C240</b>  | 4C24.0-F    | 113.0 | A3    | 1.31  | 0.09 |          |  |
| 27.4     | <b>D4C270</b>  | 4C27.0--F   | 140.0 | A3    | 1.31  | 0.09 |          |  |
| 30.4     | <b>D4C300</b>  | 4C30.0--F   | 149.0 | A3    | 1.31  | 0.09 |          |  |
| 36.4     | <b>D4C360</b>  | 4C36.0--F   | 185.0 | A3    | 1.38  | 0.16 |          |  |
| 44.4     | <b>D4C440</b>  | 4C44.0-J    | 225.0 | B3    | 1.63  | 0.22 |          |  |
| 50.4     | <b>D4C500</b>  | 4C50.0-J    | 275.0 | B3    | 1.63  | 0.22 |          |  |

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets

# SELECTION/DIMENSIONS



## C QD SHEAVES - Standard Duty

| 5-Groove |               |             |     |       |      |      | F = 5.38 |
|----------|---------------|-------------|-----|-------|------|------|----------|
| O.D.Δ    | Part No.      | Description | Wt. | Type‡ | M    | K    |          |
| + 6.4    | <b>D5C60</b>  | 5C6.0-SF    | 16  | A1    | 0.88 | 0.06 |          |
| 7.4      | <b>D5C70</b>  | 5C7.0-SF    | 23  | A1    | 1.94 | 1.13 |          |
| 7.9      | <b>D5C75</b>  | 5C7.5-SF    | 25  | A1    | 1.94 | 1.13 |          |
| 8.4      | <b>D5C80</b>  | 5C8.0-E     | 28  | A1    | 2.38 | 1.31 |          |
| 8.9      | <b>D5C85</b>  | 5C8.5-E     | 32  | A1    | 2.38 | 1.31 |          |
| 9.4      | <b>D5C90</b>  | 5C9.0-E     | 36  | A1    | 2.38 | 1.31 |          |
| 9.9      | <b>D5C95</b>  | 5C9.5-E     | 40  | A1    | 2.38 | 1.31 |          |
| 10.4     | <b>D5C100</b> | 5C10.0-E    | 41  | A2    | 2.38 | 1.31 |          |
| 10.9     | <b>D5C105</b> | 5C10.5-E    | 44  | A2    | 2.38 | 1.31 |          |
| 11.4     | <b>D5C110</b> | 5C11.0-E    | 47  | A2    | 2.38 | 1.31 |          |
| 12.4     | <b>D5C120</b> | 5C12.0-E    | 55  | A2    | 2.38 | 1.31 |          |
| 13.4     | <b>D5C130</b> | 5C13.0-E    | 55  | A3    | 2.38 | 1.31 |          |
| 14.4     | <b>D5C140</b> | 5C14.0-E    | 62  | A3    | 2.38 | 1.31 |          |
| 16.4     | <b>D5C160</b> | 5C16.0-E    | 73  | A3    | 2.38 | 1.31 |          |
| 18.4     | <b>D5C180</b> | 5C18.0-E    | 83  | A3    | 2.38 | 1.31 |          |
| 20.4     | <b>D5C200</b> | 5C20.0-F    | 109 | A3    | 2.38 | 0.09 |          |
| 24.4     | <b>D5C240</b> | 5C24.0-F    | 129 | A3    | 1.31 | 0.09 |          |
| 27.4     | <b>D5C270</b> | 5C27.0--F   | 149 | A3    | 1.31 | 0.09 |          |
| 30.4     | <b>D5C300</b> | 5C30.0--F   | 172 | A3    | 1.31 | 0.09 |          |
| 36.4     | <b>D5C360</b> | 5C36.0-J    | 205 | A3    | 1.63 | 0.22 |          |
| 44.4     | <b>D5C440</b> | 5C44.0-J    | 285 | A3    | 1.63 | 0.22 |          |
| 50.4     | <b>D5C500</b> | 5C50.0-J    | 325 | A3    | 1.63 | 0.22 |          |

| 8-Groove |               |             |      |       |      |      | F = 8.38 |
|----------|---------------|-------------|------|-------|------|------|----------|
| O.D.Δ    | Part No.      | Description | Wt.  | Type‡ | M    | K    |          |
| 7.4      | <b>D8C70</b>  | 8C7.0-SF    | 34   | A1    | 3.22 | 2.41 |          |
| 8.4      | <b>D8C80</b>  | 8C8.0-E     | 38.7 | A1    | 3.25 | 2.19 |          |
| 8.9      | <b>D8C85</b>  | 8C8.5-E     | 44   | A1    | 3.25 | 2.19 |          |
| 9.4      | <b>D8C90</b>  | 8C9.0-F     | 52.7 | A1    | 3.31 | 2.09 |          |
| 9.9      | <b>D8C95</b>  | 8C9.5-F     | 56   | A1    | 3.31 | 2.09 |          |
| 10.4     | <b>D8C100</b> | 8C10.0-F    | 62   | A1    | 3.31 | 2.09 |          |
| 10.9     | <b>D8C105</b> | 8C10.5-F    | 72   | A1    | 3.31 | 2.09 |          |
| 11.4     | <b>D8C110</b> | 8C11.0-F    | 80   | A1    | 3.31 | 2.09 |          |
| 12.4     | <b>D8C120</b> | 8C12.0-F    | 94   | A1    | 3.31 | 2.09 |          |
| 13.4     | <b>D8C130</b> | 8C13.0-F    | 97   | A2    | 3.31 | 2.09 |          |
| 14.4     | <b>D8C140</b> | 8C14.0-F    | 96   | A3    | 3.31 | 2.09 |          |
| 16.4     | <b>D8C160</b> | 8C16.00-F   | 111  | A3    | 3.94 | 2.09 |          |
| 18.4     | <b>D8C180</b> | 8C18.0--F   | 129  | A3    | 3.94 | 2.09 |          |
| 20.4     | <b>D8C200</b> | 8C20.0-J    | 158  | A3    | 1.56 | 0.16 |          |
| 24.4     | <b>D8C240</b> | 8C24.0--J   | 173  | A3    | 1.56 | 0.16 |          |
| 30.4     | <b>D8C300</b> | 8C30.0--J   | 272  | A3    | 1.56 | 0.16 |          |
| 36.4     | <b>D8C360</b> | 8C36.0--M** | 370  | A3    | 1.94 | 0.28 |          |
| 44.4     | <b>D8C440</b> | 8C44.0--M** | 479  | A3    | 1.94 | 0.28 |          |
| 50.4     | <b>D8C500</b> | 8C50.0--M** | 570  | A3    | 1.94 | 0.28 |          |

| 12-Groove |                |              |       |       |      |      | F = 12.38 |
|-----------|----------------|--------------|-------|-------|------|------|-----------|
| O.D.Δ     | Part No.       | Description  | Wt.   | Type‡ | M    | K    |           |
| 9.4       | <b>D12C90</b>  | 12C9.0--J    | 68    | A1    | 4.06 | 2.66 |           |
| 9.9       | <b>D12C95</b>  | 12C9.5--J    | 75    | A1    | 4.06 | 2.66 |           |
| 10.4      | <b>D12C100</b> | 12C10.0--J   | 86    | A1    | 4.06 | 2.66 |           |
| 10.9      | <b>D12C105</b> | 12C10.5--J   | 96    | A1    | 4.06 | 2.66 |           |
| 11.4      | <b>D12C110</b> | 12C11.0--J   | 104   | A1    | 4.06 | 2.66 |           |
| 12.4      | <b>D12C120</b> | 12C12.0--J   | 118.7 | A1    | 4.06 | 2.66 |           |
| 13.4      | <b>D12C130</b> | 12C13.0--J   | 138   | A2    | 4.06 | 2.66 |           |
| 14.4      | <b>D12C140</b> | 12C14.0--J   | 153   | A2    | 4.06 | 2.66 |           |
| 16.4      | <b>D12C160</b> | 12C16.0--J   | 175   | A3    | 4.06 | 2.66 |           |
| 18.4      | <b>D12C180</b> | 12C18.0--J   | 198   | A3    | 4.06 | 2.66 |           |
| 20.4      | <b>D12C200</b> | 12C20.0--M** | 237   | A3    | 1.94 | 0.28 |           |
| 24.4      | <b>D12C240</b> | 12C24.0--M** | 277   | A3    | 1.94 | 0.28 |           |
| 30.4      | <b>D12C300</b> | 12C30.0--M** | 357   | A3    | 1.94 | 0.28 |           |
| 36.4      | <b>D12C360</b> | 12C36.0--M** | 430   | A3    | 1.94 | 0.28 |           |
| 44.4      | <b>D12C440</b> | 12C44.0--M** | 520   | A3    | 1.94 | 0.28 |           |
| 50.4      | <b>D12C500</b> | 12C50.0--M** | 595   | A3    | 1.94 | 0.28 |           |

| 6-Groove |               |             |     |       |       |      | F = 6.38 |
|----------|---------------|-------------|-----|-------|-------|------|----------|
| O.D.Δ    | Part No.      | Description | Wt. | Type‡ | M     | K    |          |
| + 6.4    | <b>D6C60</b>  | 6C6.0-SF    | 24  | A1    | 1.88  | 1.06 |          |
| 7.4      | <b>D6C70</b>  | 6C7.0-SF    | 26  | A1    | 1.94  | 1.13 |          |
| 7.9      | <b>D6C75</b>  | 6C7.5-SF    | 29  | A1    | 1.94  | 1.13 |          |
| 8.4      | <b>D6C80</b>  | 6C8.0-E     | 31  | A1    | 2.38  | 1.31 |          |
| 8.9      | <b>D6C85</b>  | 6C8.5-E     | 35  | A1    | 2.38  | 1.31 |          |
| 9.4      | <b>D6C90</b>  | 6C9.0-F     | 44  | A1    | 2.44  | 1.22 |          |
| 9.9      | <b>D6C95</b>  | 6C9.5-F     | 49  | A1    | 2.44  | 1.22 |          |
| 10.4     | <b>D6C100</b> | 6C10.0-F    | 56  | A1    | 2.44  | 1.22 |          |
| 10.9     | <b>D6C105</b> | 6C10.5-F    | 56  | A1    | 2.44  | 1.22 |          |
| 11.4     | <b>D6C110</b> | 6C11.0-F    | 59  | A2    | 2.44  | 1.22 |          |
| 12.4     | <b>D6C120</b> | 6C12.0-F    | 66  | A2    | 2.44  | 1.22 |          |
| 13.4     | <b>D6C130</b> | 6C13.0-F    | 66  | A3    | 2.44  | 1.22 |          |
| 14.4     | <b>D6C140</b> | 6C14.0-F    | 75  | A3    | 2.44  | 1.22 |          |
| 16.4     | <b>D6C160</b> | 6C16.0--F   | 86  | A3    | 2.44  | 1.22 |          |
| 18.4     | <b>D6C180</b> | 6C18.0--F   | 100 | A3    | 2.44  | 1.22 |          |
| 20.4     | <b>D6C200</b> | 6C20.0--F   | 119 | A3    | 1.94  | 0.72 |          |
| 24.4     | <b>D6C240</b> | 6C24.0--F   | 141 | A3    | 1.94  | 0.72 |          |
| 27.4     | <b>D6C270</b> | 6C27.0--J   | 173 | A3    | #N/A! | 0.16 |          |
| 30.4     | <b>D6C300</b> | 6C30.0--J   | 189 | A3    | 1.56  | 0.16 |          |
| 36.4     | <b>D6C360</b> | 6C36.0-J    | 240 | A3    | 1.63  | 0.22 |          |
| 44.4     | <b>D6C440</b> | 6C44.0-J    | 290 | A3    | 1.63  | 0.22 |          |
| 50.4     | <b>D6C500</b> | 6C50.0-M**  | 430 | B3    | 2.00  | 0.34 |          |

| 10-Groove |                |              |       |       |       |      | F = 10.38 |
|-----------|----------------|--------------|-------|-------|-------|------|-----------|
| O.D.Δ     | Part No.       | Description  | Wt.   | Type‡ | M     | K    |           |
| 8.9       | <b>D10C85</b>  | 10C8.5--E    | 52    | A1    | 3.25  | 2.19 |           |
| 9.4       | <b>D10C90</b>  | 10C9.0--J    | 54    | A1    | 3.56  | 2.16 |           |
| 9.9       | <b>D10C95</b>  | 10C9.5-J     | 67.4  | A1    | 3.56  | 2.16 |           |
| 10.4      | <b>D10C100</b> | 10C10.0--J   | 77    | A1    | 3.56  | 2.16 |           |
| 10.9      | <b>D10C105</b> | 10C10.5--J   | 85.7  | A1    | 3.56  | 2.16 |           |
| 11.4      | <b>D10C110</b> | 10C11.0--J   | 93.5  | A1    | 3.56  | 2.16 |           |
| 12.4      | <b>D10C120</b> | 10C12.0--J   | 111.8 | A1    | 3.56  | 2.16 |           |
| 13.4      | <b>D10C130</b> | 10C13.0-J    | 105   | A2    | #N/A! | 2.16 |           |
| 14.4      | <b>D10C140</b> | 10C14.0-J    | 114   | A2    | 3.56  | 2.16 |           |
| 16.4      | <b>D10C160</b> | 10C16.0--J   | 140   | A3    | 3.56  | 2.16 |           |
| 18.4      | <b>D10C180</b> | 10C18.0--J   | 160   | A3    | 3.56  | 2.16 |           |
| 20.4      | <b>D10C200</b> | 10C20.0--J   | 165   | A3    | 3.56  | 2.16 |           |
| 24.4      | <b>D10C240</b> | 10C24.0-M**  | 225   | A3    | 1.94  | 0.28 |           |
| 30.4      | <b>D10C300</b> | 10C30.0-M**  | 275   | A3    | 1.94  | 0.28 |           |
| 36.4      | <b>D10C360</b> | 10C36.0-M**  | 340   | A3    | 1.94  | 0.28 |           |
| 44.4      | <b>D10C440</b> | 10C44.0--M** | 460   | A3    | 1.94  | 0.28 |           |
| 50.4      | <b>D10C500</b> | 10C50.0-M**  | 550   | A3    | 1.94  | 0.28 |           |

P.D. for "C" Belts = O.D.

‡ Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT7-2

+ Recommended CX Belt only

\*\* M-N-P-W are standard mounting only for these parts



# SELECTION/DIMENSIONS

## D QD SHEAVES - Standard Duty

| 3-Groove |          |             |     |       |      |      | F = 4.62 |  |
|----------|----------|-------------|-----|-------|------|------|----------|--|
| O.D.Δ    | Part No. | Description | Wt. | Type‡ | M    | K    |          |  |
| 12.6     | D3D120   | 3D12.0-F    | 64  | A2    | 1.50 | 0.28 |          |  |
| 13.6     | D3D130   | 3D13.0-F    | 72  | A2    | 1.50 | 0.28 |          |  |
| 14.1     | D3D135   | 3D13.5--F   | 76  | A2    | 1.50 | 0.28 |          |  |
| 14.6     | D3D140   | 3D14.0--F   | 79  | A2    | 1.50 | 0.28 |          |  |
| 15.1     | D3D145   | 3D14.5-F    | 84  | A2    | 1.50 | 0.28 |          |  |
| 15.6     | D3D150   | 3D15.0-F    | 89  | A2    | 1.50 | 0.28 |          |  |
| 16.1     | D3D155   | 3D15.5-F    | 94  | A2    | 1.50 | 0.28 |          |  |
| 16.6     | D3D160   | 3D16.0--F   | 95  | A3    | 1.50 | 0.28 |          |  |
| 18.6     | D3D180   | 3D18.0--J   | 115 | D3    | 1.19 | 0.22 |          |  |
| 22.6     | D3D220   | 3D22.0--J   | 135 | D3    | 1.19 | 0.22 |          |  |
| 27.6     | D3D270   | 3D27.0--J   | 170 | D3    | 1.19 | 0.22 |          |  |
| 33.6     | D3D330   | 3D33.0--J   | 215 | D3    | 1.19 | 0.22 |          |  |
| 40.6     | D3D400   | 3D40.0--J   | 275 | D3    | 1.19 | 0.22 |          |  |

| 5-Groove |          |             |     |       |      |      | F = 7.50 |  |
|----------|----------|-------------|-----|-------|------|------|----------|--|
| O.D.Δ    | Part No. | Description | Wt. | Type‡ | M    | K    |          |  |
| 12.6     | D5D120   | 5D12.0-F    | 89  | A2    | 3.06 | 1.84 |          |  |
| 13.6     | D5D130   | 5D13.0-F    | 100 | A2    | 3.06 | 1.84 |          |  |
| 14.1     | D5D135   | 5D13.5--F   | 105 | A2    | 3.06 | 1.84 |          |  |
| 14.6     | D5D140   | 5D14.0-F    | 111 | A2    | 3.06 | 1.84 |          |  |
| 15.1     | D5D145   | 5D14.5-F    | 118 | A2    | 3.06 | 1.84 |          |  |
| 15.6     | D5D150   | 5D15.0-F    | 125 | A2    | 3.06 | 1.84 |          |  |
| 16.1     | D5D155   | 5D15.5-F    | 131 | A2    | 3.06 | 1.84 |          |  |
| 16.6     | D5D160   | 5D16.0-F    | 110 | A3    | 3.06 | 1.84 |          |  |
| 17.6     | D5D170   | 5D17.0-J    | 148 | A3    | 1.56 | 1.91 |          |  |
| 18.6     | D5D180   | 5D18.0-J    | 131 | A3    | 1.56 | 1.91 |          |  |
| 20.6     | D5D200   | 5D20.0-J    | 148 | A3    | 1.56 | 0.16 |          |  |
| 22.6     | D5D220   | 5D22.0-J    | 152 | A3    | 0.16 | 0.16 |          |  |
| 27.6     | D5D270   | 5D27.0-M**  | 250 | A3    | 1.94 | 0.28 |          |  |
| 33.6     | D5D330   | 5D33.0-M**  | 321 | A3    | 1.94 | 0.28 |          |  |
| 40.6     | D5D400   | 5D40.0--M** | 424 | A3    | 1.94 | 0.28 |          |  |
| 48.6     | D5D480   | 5D48.0-M**  | 550 | A3    | 1.94 | 0.28 |          |  |
| 58.6     | D5D580   | 5D58.0--M** | 600 | A3    | 1.94 | 0.28 |          |  |

| 4-Groove |          |             |     |       |      |      | F = 6.06 |  |
|----------|----------|-------------|-----|-------|------|------|----------|--|
| O.D.Δ    | Part No. | Description | Wt. | Type‡ | M    | K    |          |  |
| 12.6     | D4D120   | 4D12.0--F   | 77  | A2    | 2.31 | 1.09 |          |  |
| 13.6     | D4D130   | 4D13.0--F   | 85  | A2    | 2.31 | 1.09 |          |  |
| 14.1     | D4D135   | 4D13.5-F    | 90  | A2    | 2.31 | 1.09 |          |  |
| 14.6     | D4D140   | 4D14.0--F   | 95  | A2    | 2.31 | 1.09 |          |  |
| 15.1     | D4D145   | 4D14.5-F    | 100 | A2    | 2.31 | 1.09 |          |  |
| 15.6     | D4D150   | 4D15.0--F   | 107 | A2    | 2.31 | 1.09 |          |  |
| 16.1     | D4D155   | 4D15.5--F   | 112 | A2    | 2.31 | 1.09 |          |  |
| 16.6     | D4D160   | 4D16.0-F    | 110 | A3    | 2.31 | 1.09 |          |  |
| 17.6     | D4D170   | 4D17.0-J    | 127 | A3    | 2.56 | 1.16 |          |  |
| 18.6     | D4D180   | 4D18.0-J    | 131 | A3    | 2.56 | 1.16 |          |  |
| 20.6     | D4D200   | 4D20.0-J    | 145 | A3    | 2.56 | 1.16 |          |  |
| 22.6     | D4D220   | 4D22.0--J   | 160 | A3    | 1.56 | 0.16 |          |  |
| 27.6     | D4D270   | 4D27.0--J   | 200 | A3    | 1.56 | 0.16 |          |  |
| 33.6     | D4D330   | 4D33.0-M**  | 285 | B3    | 1.94 | 0.28 |          |  |
| 40.6     | D4D400   | 4D40.0-M**  | 375 | B3    | 1.94 | 0.28 |          |  |

| 6-Groove |          |             |     |       |      |      | F = 8.94 |  |
|----------|----------|-------------|-----|-------|------|------|----------|--|
| O.D.Δ    | Part No. | Description | Wt. | Type‡ | M    | K    |          |  |
| 12.6     | D6D120   | 6D12.0-J    | 116 | A1    | 3.31 | 1.91 |          |  |
| 13.6     | D6D130   | 6D13.0-J    | 137 | A1    | 3.31 | 1.91 |          |  |
| 14.1     | D6D135   | 6D13.5-J    | 147 | A1    | 3.31 | 1.91 |          |  |
| 14.6     | D6D140   | 6D14.0--J   | 158 | A1    | 3.31 | 1.91 |          |  |
| 15.1     | D6D145   | 6D14.5-J    | 170 | A1    | 3.31 | 1.91 |          |  |
| 15.6     | D6D150   | 6D15.0-J    | 147 | A2    | 3.31 | 1.91 |          |  |
| 16.1     | D6D155   | 6D15.5-J    | 153 | A2    | 3.31 | 1.91 |          |  |
| 16.6     | D6D160   | 6D16.0-J    | 137 | A3    | 3.31 | 1.91 |          |  |
| 17.6     | D6D170   | 6D17.0-J    | 175 | A3    | 3.31 | 1.91 |          |  |
| 18.6     | D6D180   | 6D18.0--J   | 159 | A3    | 3.31 | 1.91 |          |  |
| 20.6     | D6D200   | 6D20.0-J    | 185 | A3    | 3.31 | 1.91 |          |  |
| 22.6     | D6D220   | 6D22.0-M**  | 225 | A3    | 1.94 | 0.28 |          |  |
| 27.6     | D6D270   | 6D27.0-M**  | 300 | A3    | 1.94 | 0.28 |          |  |
| 33.6     | D6D330   | 6D33.0-M**  | 350 | A3    | 1.94 | 0.28 |          |  |
| 40.6     | D6D400   | 6D40.0--M** | 460 | A3    | 1.94 | 0.28 |          |  |
| 48.6     | D6D480   | 6D48.0-M**  | 600 | A3    | 1.94 | 0.28 |          |  |
| 58.6     | D6D580   | 6D58.0--N** | 760 | A3    | 1.94 | 0.19 |          |  |

P.D. for "D" Belts = O.D.

‡ Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT7-2

\*\* M-N-P-W are standard mounting only for these parts

V-Drives  
 FHP Drives  
 Drive Component Accessories  
 DYNA-SYNC  
 HT200/HTD Synchronous Drives  
 HT500 Synchronous Drives  
 Roller Chain Sprockets

# SELECTION/DIMENSIONS



## D QD SHEAVES - Standard Duty

| 8-Groove |               |             |      |       |      |      | F = 11.81 |
|----------|---------------|-------------|------|-------|------|------|-----------|
| O.D.Δ    | Part No.      | Description | Wt.  | Type‡ | M    | K    |           |
| 12.6     | <b>D8D120</b> | 8D12.0-J    | 141  | A1    | 3.56 | 2.16 |           |
| 13.6     | <b>D8D130</b> | 8D13.0-J    | 163  | A1    | 3.56 | 2.16 |           |
| 14.1     | <b>D8D135</b> | 8D13.5-J    | 175  | A1    | 3.56 | 2.16 |           |
| 14.6     | <b>D8D140</b> | 8D14.0-J    | 187  | A1    | 3.56 | 2.16 |           |
| 15.1     | <b>D8D145</b> | 8D14.5-J    | 200  | A1    | 3.56 | 2.16 |           |
| 15.6     | <b>D8D150</b> | 8D15.0-J    | 183  | A2    | 3.56 | 2.16 |           |
| 16.1     | <b>D8D155</b> | 8D15.5-J    | 189  | A2    | 3.56 | 2.16 |           |
| 16.6     | <b>D8D160</b> | 8D16.0-J    | 197  | A2    | 3.56 | 2.16 |           |
| 17.6     | <b>D8D170</b> | 8D17.0-J    | 213  | A2    | 3.56 | 2.16 |           |
| 18.6     | <b>D8D180</b> | 8D18.0-M**  | 255  | A2    | 3.94 | 2.28 |           |
| 20.6     | <b>D8D200</b> | 8D20.0-M**  | 258  | A2    | 3.94 | 2.28 |           |
| 22.6     | <b>D8D220</b> | 8D22.0-M**  | 266  | A3    | 1.94 | 0.28 |           |
| 27.6     | <b>D8D270</b> | 8D27.0-M**  | 320  | A3    | 1.94 | 0.28 |           |
| 33.6     | <b>D8D330</b> | 8D33.0-M**  | 420  | A3    | 1.94 | 0.28 |           |
| 40.6     | <b>D8D400</b> | 8D40.0-N**  | 600  | A3    | 2.19 | 0.13 |           |
| 48.6     | <b>D8D480</b> | 8D48.0-N**  | 750  | A3    | 2.19 | 0.13 |           |
| 58.6     | <b>D8D580</b> | 8D58.0-N**  | 1000 | A3    | 2.19 | 0.13 |           |

| 10-Groove |                |             |      |       |      |      | F = 14.69 |
|-----------|----------------|-------------|------|-------|------|------|-----------|
| O.D.Δ     | Part No.       | Description | Wt.  | Type‡ | M    | K    |           |
| 12.6      | <b>D10D120</b> | 10D12.0-M** | 166  | A1    | 3.94 | 2.28 |           |
| 13.6      | <b>D10D130</b> | 10D13.0-M** | 207  | A1    | 3.94 | 2.28 |           |
| 14.1      | <b>D10D135</b> | 10D13.5-M** | 224  | A1    | 3.94 | 2.28 |           |
| 14.6      | <b>D10D140</b> | 10D14.0-M** | 242  | A1    | 3.94 | 2.28 |           |
| 15.1      | <b>D10D145</b> | 10D14.5-M** | 260  | A1    | 3.94 | 2.28 |           |
| 15.6      | <b>D10D150</b> | 10D15.0-M** | 279  | A1    | 3.94 | 2.28 |           |
| 16.1      | <b>D10D155</b> | 10D15.5-M** | 298  | A1    | 3.94 | 2.28 |           |
| 16.6      | <b>D10D160</b> | 10D16.0-M** | 318  | A1    | 3.94 | 2.28 |           |
| 17.6      | <b>D10D170</b> | 10D17.0-M** | 307  | A2    | 3.94 | 2.28 |           |
| 18.6      | <b>D10D180</b> | 10D18.0-M** | 293  | A2    | 3.94 | 2.28 |           |
| 20.6      | <b>D10D200</b> | 10D20.0-M** | 351  | A2    | 3.94 | 2.28 |           |
| 22.6      | <b>D10D220</b> | 10D22.0-M** | 342  | A3    | 2.94 | 1.28 |           |
| 27.6      | <b>D10D270</b> | 10D27.0-M** | 415  | A3    | 2.94 | 1.28 |           |
| 33.6      | <b>D10D330</b> | 10D33.0-N** | 575  | A3    | 3.40 | 1.34 |           |
| 40.6      | <b>D10D400</b> | 10D40.0-N** | 680  | A3    | 3.40 | 1.34 |           |
| 48.6      | <b>D10D480</b> | 10D48.0-P** | 975  | A3    | 2.57 | 0.19 |           |
| 58.6      | <b>D10D580</b> | 10D58.0-P** | 1250 | A3    | 2.57 | 0.19 |           |

| 12-Groove |                |             |      |       |       |      | F = 17.56 |
|-----------|----------------|-------------|------|-------|-------|------|-----------|
| O.D.Δ     | Part No.       | Description | Wt.  | Type‡ | M     | K    |           |
| 12.6      | <b>D12D120</b> | 12D12.0-M** | 187  | A1    | #N/A! | 3.28 |           |
| 13.6      | <b>D12D130</b> | 12D13.0-M** | 234  | A1    | #N/A! | 3.28 |           |
| 14.1      | <b>D12D135</b> | 12D13.5-M** | 252  | A1    | #N/A! | 3.28 |           |
| 14.6      | <b>D12D140</b> | 12D14.0-M** | 271  | A1    | #N/A! | 3.28 |           |
| 15.1      | <b>D12D145</b> | 12D14.5-M** | 290  | A1    | #N/A! | 3.28 |           |
| 15.6      | <b>D12D150</b> | 12D15.0-M** | 310  | A1    | #N/A! | 3.28 |           |
| 16.1      | <b>D12D155</b> | 12D15.5-M** | 330  | A1    | #N/A! | 3.28 |           |
| 16.6      | <b>D12D160</b> | 12D16.0-M** | 352  | A1    | #N/A! | 3.28 |           |
| 17.6      | <b>D12D170</b> | 12D17.0-M** | 365  | A2    | #N/A! | 3.47 |           |
| 18.6      | <b>D12D180</b> | 12D18.0-M** | 391  | A2    | #N/A! | 3.47 |           |
| 20.6      | <b>D12D200</b> | 12D20.0-M** | 401  | A2    | #N/A! | 2.28 |           |
| 22.6      | <b>D12D220</b> | 12D22.0-M** | 365  | A3    | #N/A! | 2.28 |           |
| 27.6      | <b>D12D270</b> | 12D27.0-N** | 505  | A3    | #N/A! | 2.13 |           |
| 33.6      | <b>D12D330</b> | 12D33.0-N** | 590  | A3    | #N/A! | 2.13 |           |
| 40.6      | <b>D12D400</b> | 12D40.0-P** | 925  | A3    | #N/A! | 0.19 |           |
| 48.6      | <b>D12D480</b> | 12D48.0-P** | 1150 | A3    | #N/A! | 0.19 |           |
| 58.6      | <b>D12D580</b> | 12D58.0-P** | 1500 | A3    | #N/A! | 0.19 |           |

P.D. for "D" Belts = O.D.

‡ Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT7-2

\*\* M-N-P-W are standard mounting only for these parts

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets



## SELECTION

### Custom-Made Sheaves & Sprockets

#### V-Belt Sheaves & Synchronous Sprockets

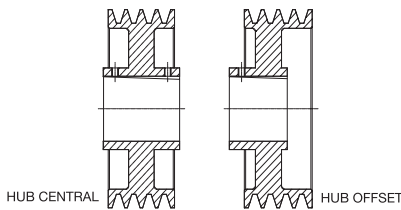
Standard stock products offer the best value for most power transmission operations. But, for requirements that cannot be served with stock products, DODGE manufactures custom-made sheaves and synchronous belt sprockets.

#### Custom Construction Options

- Non-stock pitch diameter
- Non-stock number of teeth
- Alternate hub location
- Special material: ductile, steel, aluminum, stainless steel etc.
- Alternate bushing or bore configuration for mounting product onto shaft
- Other non-standard requirements

#### Hub Locations

- Hub central
- Typical for larger diameter products
- Hub offset
- This location is preferred for wider face widths. It is positioned to accommodate the shaft and provides centralized sheave support
- Hub projection
- Required for access to setscrews on smaller bored-to-size products
- Special coating and plating



#### Materials

Stock sheaves, as well as synchronous sprockets, are manufactured typically from high quality gray iron. Frequently specified alternate materials are shown below.

#### Alternate Materials

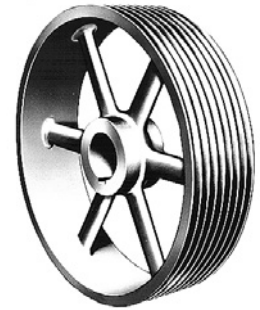
| Material   | Grade    | Max. Rim Speed (Fpm) |
|------------|----------|----------------------|
| GRAY IRON: | -        | 6,500                |
| DUCTILE    | 65-45-12 | 8,000                |
| IRON:      | 80-55-06 | 10,000               |
| STEEL:     | -        | 10,000               |

Dynamic (two-plane) balance normally required for rim speeds above 6,500 feet per minute (FPM).

Drives that exceed 8,000 FPM should be reviewed by DODGE Engineering.



Synchronous Sprockets



V-Belt Sheaves

#### Mounting Styles

##### Bored-to-size

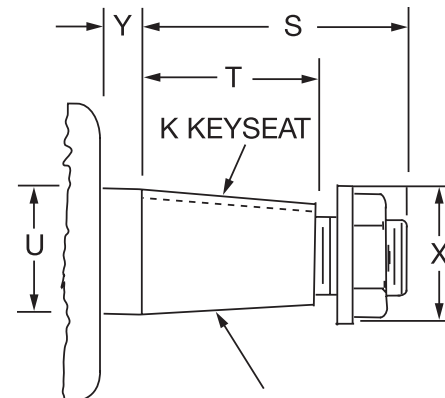
Required when rim diameter cannot accommodate the bushing that is required for the bore size. One keyseat, as well as one or two setscrews are usually specified.

##### Taper bushed

Specify TAPER-LOCK or QD bushing for required bore size. Verify that hub diameter accommodates bushing. Taper bushed mounting is preferred because this mounting compensates for variations in shaft diameter; provides tight, secure fit; and removes easily for servicing.

##### Taper bore

For use on taper shafts (sketch below). If hub is not central with face, specify which hub end takes large end of bore. Hub at small end will extend 1/8" beyond the "T" dimension. Keyways are standard size, as well as parallel with the taper, unless specified otherwise.



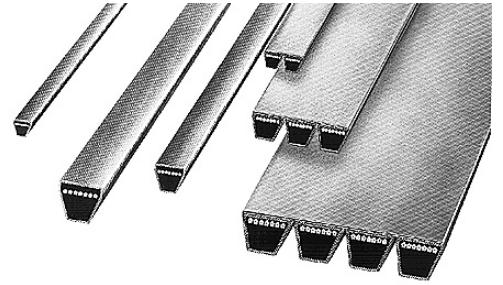




## V-Belts

V-drives have been the mainstay of industrial power transmission for over 60 years. During this time, DODGE has been a major influence, designing and developing innovative concepts in V-belt sheaves and supplying the highest quality belts.

Today's V-drives offer quiet, efficient mechanical power transmission. They provide many thousands of hours of performance, even under conditions of shock load and normal drive misalignment. All of these benefits come at an economic value that is unsurpassed.



V-Drives

FHP Drives

Drive Component Accessories

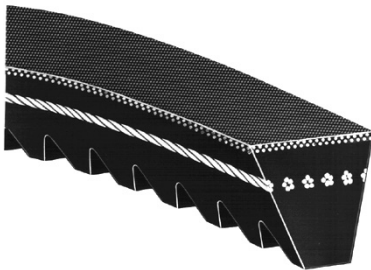
DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

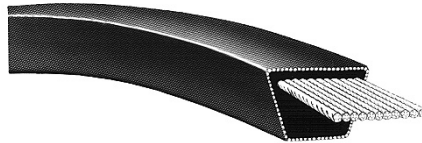
Roller Chain Sprockets

### D-V WEDGE BELTS 3VX-5VX-8V



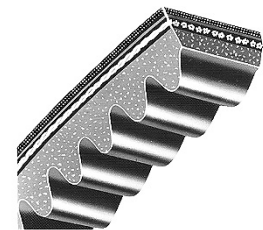
- Oil resistant and static conducting
- Permits compact, lighter weight drives flexibility
- High-strength tension member delivers maximum power with minimum stretch
- Built for long-term dimensional stability
- Molded cog construction under 200-inch belt length is reduced

### S-L CLASSIC V-BELTS A-B-C-D-E



- Cable cord envelope construction
- Cool running and flexible
- Strong tensile cords minimize stretch
- Static conducting and heat and oil resistant
- More tolerant of shock loads

### CLASSIC COG V-BELTS AX-BX-CX-DX



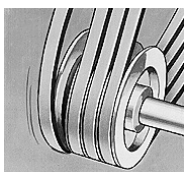
Deliver more horsepower and last longer than conventional belts...

- Fully notched cogs for maximum
- High coefficient rubber edge
- Oil resistant and static conducting
- Proven energy-saving design
- Outlasts conventional belts
- Fewer belts required - drive weight

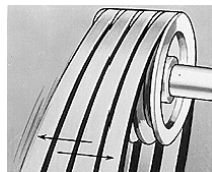
### POLYBAND CLASSIC POLYBAND WEDGE V-BELTS



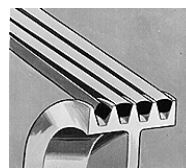
POLYBAND banded V-belts are engineered to handle those problem drives where vibration, sudden shock loads or misalignment causes belts to turn over, whip or jump off sheave. Two or more belts are inseparable joined together as one single unit. POLYBAND belts may be used without changing sheaves or altering the drive.



• NO JUMP OFF

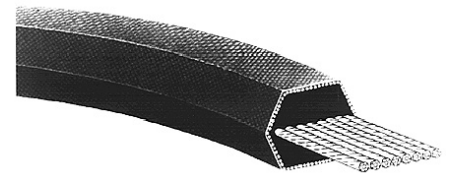


• NO WHIP



• NO TURN OVER

### DOUBLE-V SEALED-LIFE (HEX)



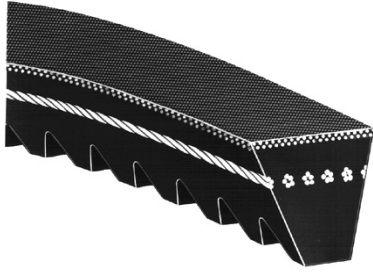
For serpentine drives

- Transmits power from both sides of belt
- Standard AA, BB, CC cross sections
- Runs in standard classical sheaves
- Oil resistant and static conducting



## SELECTION

### D-V Wedge Narrow Belts



Raw-Edge Molded Cog Construction

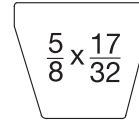


Wrapped Construction

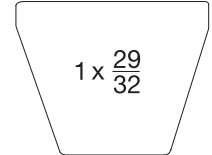
- Oil Resistant and Static Conducting
- Permits Compact, Lighter Weight Drives
- Hi-Strength Tension Member Delivers Maximum Power with Minimum Stretch
- Built for Long-Term Dimensional Stability.
- Matched to MPTA/RMA Standards. No additional matching or Matching Codes required.



3V  
3VX



5V  
5VX



8V  
8VX

| 3VX      |          |      |         | 5VX, 5V  |          |      |         |          |          |      |         | 8VX, 8V  |          |       |         |
|----------|----------|------|---------|----------|----------|------|---------|----------|----------|------|---------|----------|----------|-------|---------|
| Belt No. | Part No. | Wt.  | Lgth. Δ | Belt No. | Part No. | Wt.  | Lgth. Δ | Belt No. | Part No. | Wt.  | Lgth. Δ | Belt No. | Part No. | Wt.   | Lgth. Δ |
| 3VX250   | 107150   | 0.11 | 25      | 5VX450   |          | 0.51 | 45      | 5VX900   | 107180   | 1.04 | 90      | 8VX1000  | 107200   | 2.97  | 100     |
| 3VX265   | 107220   | 0.11 | 27      | 5VX470   |          | 0.54 | 47      | 5VX930   |          | 1.07 | 93      | 8VX1060  | 107219   | 3.50  | 106     |
| 3VX280   | 107151   | 0.12 | 28      | 5VX490   |          | 0.56 | 49      | 5VX950   | 107195   | 1.10 | 95      | 8VX1120  | 107201   | 3.35  | 112     |
| 3VX300   | 107229   | 0.12 | 30      | 5VX500   | 107175   | 0.57 | 50      | 5VX960   |          | 1.11 | 96      | 8VX1180  | 107240   | 3.65  | 118     |
| 3VX315   | 107152   | 0.14 | 31.5    | 5VX510   |          | 0.59 | 51      | 5VX1000  | 107181   | 1.16 | 100     | 8VX1250  | 107202   | 3.98  | 125     |
| 3VX335   | 107230   | 0.14 | 33.5    | 5VX530   | 107233   | 0.61 | 53      | 5VX1030  |          | 1.18 | 103     | 8VX1320  | 107241   | 4.05  | 132     |
| 3VX355   | 107153   | 0.16 | 35.5    | 5VX540   |          | 0.63 | 54      | 5VX1060  | 107196   | 1.23 | 106     | 8VX1400  | 107203   | 4.16  | 140     |
| 3VX375   | 107166   | 0.16 | 37.5    | 5VX550   |          | 0.63 | 55      | 5VX1080  |          | 1.24 | 108     | 8VX1500  | 107242   | 4.69  | 150     |
| 3VX400   | 107154   | 0.16 | 40      | 5VX560   | 107176   | 0.64 | 56      | 5VX1120  | 107182   | 1.30 | 112     | 8VX1600  | 107204   | 5.30  | 160     |
| 3VX425   | 107167   | 0.17 | 42.5    | 5VX570   |          | 0.66 | 57      | 5VX1150  |          | 1.33 | 115     | 8VX1700  | 107243   | 5.27  | 170     |
| 3VX450   | 107155   | 0.54 | 45      | 5VX580   |          | 0.67 | 58      | 5VX1160  |          | 1.34 | 116     | 8VX1800  | 107205   | 5.73  | 180     |
| 3VX475   | 107221   | 0.20 | 47.5    | 5VX590   |          | 0.68 | 59      | 5VX1180  | 107197   | 1.37 | 118     | 8VX1900  | 107244   | 5.81  | 190     |
| 3VX500   | 107156   | 0.22 | 50      | 5VX600   | 107234   | 0.69 | 60      | 5VX1230  |          | 1.42 | 123     | 8VX2000  | 107206   | 6.05  | 200     |
| 3VX530   | 107222   | 0.21 | 53      | 5VX610   |          | 0.70 | 61      | 5VX1250  | 107183   | 1.45 | 125     | 8V2120   | 107245   | 6.80  | 212     |
| 3VX560   | 107157   | 0.22 | 56      | 5VX630   | 107177   | 0.73 | 63      | 5VX1320  | 107224   | 1.53 | 132     | 8V2240   | 107207   | 7.25  | 224     |
| 3VX600   | 107168   | 0.24 | 60      | 5VX650   |          | 0.75 | 65      | 5VX1400  | 107184   | 1.62 | 140     | 8V2360   | 107215   | 7.65  | 236     |
| 3VX630   | 107158   | 0.27 | 63      | 5VX660   |          | 0.75 | 66      | 5VX1500  | 107225   | 1.74 | 150     | 8V2500   | 107208   | 7.97  | 250     |
| 3VX670   | 107169   | 0.29 | 67      | 5VX670   | 107235   | 0.77 | 67      | 5VX1600  | 107185   | 1.86 | 160     | 8V2650   | 107246   | 8.52  | 265     |
| 3VX710   | 107159   | 0.31 | 71      | 5VX680   |          | 0.78 | 68      | 5VX1700  | 107226   | 1.97 | 170     | 8V2800   | 107209   | 8.95  | 280     |
| 3VX750   | 107170   | 0.30 | 75      | 5VX690   |          | 0.80 | 69      | 5VX1800  | 107186   | 2.10 | 180     | 8V3000   | 107216   | 10.05 | 300     |
| 3VX800   | 107160   | 0.33 | 80      | 5VX710   | 107178   | 0.82 | 71      | 5VX1900  | 107227   | 2.20 | 190     | 8V3150   | 107210   | 10.50 | 315     |
| 3VX850   | 107171   | 0.39 | 85      | 5VX730   |          | 0.84 | 73      | 5VX2000  | 107187   | 2.30 | 200     | 8V3350   | 107247   | 11.20 | 335     |
| 3VX900   | 107161   | 0.38 | 90      | 5VX740   |          | 0.85 | 74      | 5V2120   | 107228   | 2.50 | 212     | 8V3550   | 107211   | 11.90 | 355     |
| 3VX950   | 107172   | 0.40 | 95      | 5VX750   | 107193   | 0.87 | 75      | 5V2240   | 107188   | 2.60 | 224     | 8V3750   | 107218   | 12.60 | 375     |
| 3VX1000  | 107162   | 0.44 | 100     | 5VX780   |          | 0.90 | 78      | 5V2360   | 107236   | 2.74 | 236     | 8V4000   | 107212   | 13.40 | 400     |
| 3VX1060  | 107223   | 0.44 | 106     | 5VX800   | 107179   | 0.92 | 80      | 5V2500   | 107189   | 2.84 | 250     | 8V4250   | 107248   | 14.20 | 425     |
| 3VX1120  | 107163   | 0.46 | 112     | 5VX810   |          | 0.93 | 81      | 5V2650   | 107237   | 2.99 | 265     | 8V4500   | 107213   | 15.10 | 425     |
| 3VX1180  | 107231   | 0.50 | 118     | 5VX830   |          | 0.96 | 83      | 5V2800   | 107190   | 3.10 | 280     | 8V4750   | 107217   | 15.50 | 475     |
| 3VX1250  | 107164   | 0.54 | 125     | 5VX840   |          | 0.97 | 84      | 5V3000   | 107238   | 3.60 | 300     | 8V5000   | 107214   | 16.00 | 500     |
| 3VX1320  | 107232   | 0.57 | 132     | 5VX850   | 107194   | 0.98 | 85      | 5V3150   | 107191   | 3.80 | 315     | ----     | ----     | ----  | ----    |
| 3VX1400  | 107165   | 0.62 | 140     | 5VX860   |          | 0.99 | 86      | 5V3350   | 107239   | 4.00 | 335     | ----     | ----     | ----  | ----    |
| 3VX1500  | 107173   | 0.56 | 150     | 5VX880   |          | 1.02 | 88      | 5V3550   | 107192   | 4.30 | 355     | ----     | ----     | ----  | ----    |

Δ Outside circumference in inches





## D-V Wedge Banded Belts



### 3VX POLYBAND Narrow Belts (2, 3, 4, 5, and 6 Bands)

| Lgth.<br>Δ | Belt No.   | Wgt. Per<br>Band | 2-BAND<br>P/N | 3-BAND<br>P/N | 4-BAND<br>P/N | 5-BAND<br>P/N | 6-BAND<br>P/N |
|------------|------------|------------------|---------------|---------------|---------------|---------------|---------------|
| 25         | R3VX250 Δ  | 0.10             |               |               |               |               |               |
| 26.5       | R3VX265 Δ  | 0.10             |               |               |               |               |               |
| 28         | R3VX280 Δ  | 0.10             | 108208        | 108209        | 108210        | 108211        |               |
| 30         | R3VX300 Δ  | 0.15             | 108212        | 108213        | 108214        | 108215        |               |
| 31.5       | R3VX315 Δ  | 0.15             | 108216        | 108217        | 108218        | 108219        |               |
| 33.5       | R3VX335 Δ  | 0.15             | 108220        | 108221        | 108222        | 108228        |               |
| 35.5       | R3VX355 Δ  | 0.15             | 108224        | 108225        | 108226        | 108227        |               |
| 37.5       | R3VX375 Δ  | 0.15             | 108228        | 108229        | 108230        | 108231        |               |
| 40         | R3VX400 Δ  | 0.20             | 108232        | 108233        | 108234        | 108235        |               |
| 42.5       | R3VX425 Δ  | 0.20             | 108236        | 108237        | 108238        | 108239        |               |
| 45         | R3VX450 Δ  | 0.20             | 108240        | 108241        | 108242        | 108243        |               |
| 47.5       | R3VX475 Δ  | 0.20             | 108244        | 108245        | 108246        | 108247        |               |
| 50         | R3VX500 Δ  | 0.20             | 108248        | 108249        | 108250        | 108251        |               |
| 53         | R3VX530 Δ  | 2.50             | 108252        | 108253        | 108254        | 108255        |               |
| 56         | R3VX560 Δ  | 2.50             | 108256        | 108257        | 108258        | 108259        |               |
| 60         | R3VX600 Δ  | 2.50             | 108260        | 108261        | 108262        | 108263        |               |
| 63         | R3VX630 Δ  | 0.30             | 108264        | 108265        | 108266        | 108267        |               |
| 67         | R3VX670 Δ  | 0.30             | 108268        | 108269        | 108270        | 108271        |               |
| 71         | R3VX710 Δ  | 0.30             | 108272        | 108273        | 108274        | 108275        |               |
| 75         | R3VX750 Δ  | 0.35             | 108276        | 108277        | 108278        | 108279        |               |
| 80         | R3VX800 Δ  | 0.35             | 108280        | 108281        | 108282        | 108283        |               |
| 85         | R3VX850 Δ  | 0.40             | 108284        | 108285        | 108286        | 108287        |               |
| 90         | R3VX900 Δ  | 0.40             | 108288        | 108289        | 108290        | 108291        |               |
| 95         | R3VX950 Δ  | 0.45             | 108292        | 108293        | 108294        | 108295        |               |
| 100        | R3VX1000 Δ | 0.45             | 108296        | 108297        | 108298        | 108299        |               |
| 106        | R3VX1060 Δ | 0.50             | 108300        | 108301        | 108302        | 108303        |               |
| 112        | R3VX1120 Δ | 0.50             | 108304        | 108305        | 108306        | 108307        |               |
| 118        | R3VX1180 Δ | 0.55             | 108308        | 108309        | 108310        | 108311        |               |
| 125        | R3VX1250 Δ | 0.55             | 108312        | 108313        | 108314        | 108315        |               |
| 132        | R3VX1320 Δ | 0.60             | 108316        | 108317        | 108318        | 108319        |               |
| 140        | R3VX1400 Δ | 0.65             | 108320        | 108321        | 108322        | 108323        |               |

Δ Outside circumference in inches

V-Drives

FHP Drives

Drive Component  
Accessories

DYNA-SYNC

HT200/HTD  
Synchronous Drives

HT500  
Synchronous Drives

Roller Chain Sprockets



# SELECTION

## 5VX, 5V POLYBAND Narrow Belts (2, 3, 4, 5, and 6 Bands)

| Lgth.<br>Δ | Belt No.   | Wgt. Per<br>Band | 2-BAND<br>P/N | 3-BAND<br>P/N | 4-BAND<br>P/N | 5-BAND<br>P/N | 6-BAND<br>P/N |
|------------|------------|------------------|---------------|---------------|---------------|---------------|---------------|
| 50         | R5VX500 Δ  | 0.65             | 108330        |               |               |               |               |
| 53         | R5VX530 Δ  | 0.65             |               |               |               |               |               |
| 56         | R5VX560 Δ  | 0.70             | 108338        | 108339        | 108340        | 108341        |               |
| 60         | R5VX600 Δ  | 0.75             | 108342        | 108343        | 108344        | 108345        |               |
| 63         | R5VX630 Δ  | 0.80             | 108346        | 108347        | 108348        | 108349        |               |
| 67         | R5VX670 Δ  | 0.85             | 108350        | 108351        | 108352        | 108353        |               |
| 71         | R5VX710 Δ  | 0.90             | 108354        | 108355        | 108356        | 108357        |               |
| 75         | R5VX750 Δ  | 0.95             | 108358        | 108359        | 108360        | 108361        |               |
| 80         | R5VX800 Δ  | 1.00             | 108362        | 108363        | 108364        | 108365        |               |
| 85         | R5VX850 Δ  | 1.10             | 108366        | 108367        | 108368        | 108369        |               |
| 90         | R5VX900 Δ  | 1.15             | 108370        | 108371        | 108372        | 108373        |               |
| 95         | R5VX950 Δ  | 1.20             | 108374        | 108375        | 108376        | 108377        |               |
| 100        | R5VX1000 Δ | 1.30             | 108378        | 108379        | 108380        | 108381        |               |
| 106        | R5VX1060 Δ | 1.35             | 108382        | 108383        | 108384        | 108385        |               |
| 112        | R5VX1120 Δ | 1.45             | 108386        | 108387        | 108388        | 108389        |               |
| 118        | R5VX1180 Δ | 1.50             | 108390        | 108391        | 108392        | 108393        |               |
| 125        | R5VX1250 Δ | 1.60             | 108394        | 108395        | 108396        | 108397        |               |
| 132        | R5VX1320 Δ | 1.70             | 108398        | 108399        | 108400        | 108401        |               |
| 140        | R5VX1400 Δ | 1.80             | 108402        | 108403        | 108404        | 108405        | 108329        |
| 150        | R5VX1500 Δ | 1.90             | 108406        | 108407        | 108408        | 108409        |               |
| 160        | R5VX1600 Δ | 2.05             | 108410        | 108411        | 108412        | 108413        |               |
| 170        | R5VX1700 Δ | 2.20             | 108414        | 108415        | 108416        | 108417        |               |
| 180        | R5VX1800 Δ | 2.30             | 108418        | 108419        | 108420        | 108421        |               |
| 190        | R5VX1900 Δ | 2.45             | 108422        | 108423        | 108424        | 108425        |               |
| 200        | R5VX2000 Δ | 2.55             | 108426        | 108427        | 108428        | 108429        |               |
| 212        | R5V2120 Δ  | 2.75             | 108430        | 108431        | 108432        | 108433        |               |
| 224        | R5V2240 Δ  | 2.90             | 108434        | 108435        | 108436        | 108437        |               |
| 236        | R5V2360 Δ  | 3.00             | 108438        | 108439        | 108440        | 108441        |               |
| 250        | R5V2500 Δ  | 3.20             | 108442        | 108443        | 108444        | 108445        |               |
| 265        | R5V2650 Δ  | 3.40             | 108446        | 108447        | 108448        | 108449        |               |
| 280        | R5V2800 Δ  | 3.60             | 108450        | 108451        | 108452        | 108453        |               |
| 300        | R5V3000 Δ  | 3.85             | 108454        | 108455        | 108456        | 108457        |               |
| 315        | R5V3150 Δ  | 4.05             | 108458        | 108459        | 108460        | 108461        |               |
| 335        | R5V3350 Δ  | 4.35             | 108462        | 108463        | 108464        | 108465        |               |
| 355        | R5V3550 Δ  | 4.70             | 108466        | 108467        | 108468        | 108469        |               |

FOR 8V BELTS SEE NEXT PAGE

Δ Outside circumference in inches

# SELECTION



## 8V POLYBAND Narrow Belts (2, 3, 4, 5, and 6 Bands)

| Lgth.<br>Δ | Belt No.  | Wgt. Per<br>Band | 2-BAND<br>P/N | 3-BAND<br>P/N | 4-BAND<br>P/N | 5-BAND<br>P/N | 6-BAND<br>P/N |
|------------|-----------|------------------|---------------|---------------|---------------|---------------|---------------|
| 100        | R8V1000 Δ | 3.3              |               |               |               |               |               |
| 106        | R8V1060 Δ | 3.50             | 108486        |               |               |               |               |
| 112        | R8V1120 Δ | 3.70             | 108489        | 108490        | 108491        | 108492        |               |
| 118        | R8V1180 Δ | 3.80             | 108493        | 108494        | 108495        | 108496        |               |
| 125        | R8V1250 Δ | 4.15             | 108498        | 108499        | 108500        | 108501        |               |
| 132        | R8V1320 Δ | 4.35             | 108502        | 108503        | 108504        | 108505        |               |
| 140        | R8V1400 Δ | 4.65             | 108507        | 108508        | 108509        | 108510        |               |
| 150        | R8V1500 Δ | 5.00             | 108511        | 108512        | 108513        | 108514        |               |
| 160        | R8V1600 Δ | 5.35             | 108515        | 108516        | 108517        | 108518        |               |
| 170        | R8V1700 Δ | 5.70             | 108519        | 108520        | 108521        | 108522        |               |
| 180        | R8V1800 Δ | 6.00             | 108524        | 108525        | 108526        | 108527        |               |
| 190        | R8V1900 Δ | 6.35             | 108528        | 108529        | 108530        | 108531        |               |
| 200        | R8V2000 Δ | 6.70             | 108533        | 108534        | 108535        | 108536        |               |
| 212        | R8V2120 Δ | 7.10             | 108537        | 108538        | 108539        | 108540        | 108326        |
| 224        | R8V2240 Δ | 7.50             | 108542        | 108543        | 108544        | 108545        |               |
| 236        | R8V2360 Δ | 7.90             | 108546        | 108547        | 108548        | 108549        |               |
| 250        | R8V2500 Δ | 8.40             | 108550        | 108551        | 108552        | 108553        |               |
| 265        | R8V2650 Δ | 8.90             | 108554        | 108555        | 108556        | 108557        |               |
| 280        | R8V2800 Δ | 9.14             | 108559        | 108560        | 108561        | 108562        |               |
| 300        | R8V3000 Δ | 10.10            | 108563        | 108564        | 108565        | 108566        | 108558        |
| 315        | R8V3150 Δ | 10.60            | 108567        | 108568        | 108569        | 108570        |               |
| 335        | R8V3350 Δ | 11.30            | 108571        | 108572        | 108573        | 108574        |               |
| 355        | R8V3550 Δ | 12.00            | 108576        | 108577        | 108578        | 108579        |               |
| 375        | R8V3750 Δ | 12.65            | 108580        | 108581        | 108582        | 108583        |               |
| 400        | R8V4000 Δ | 13.50            | 108585        | 108586        | 108587        | 108588        |               |
| 425        | R8V4250 Δ | 14.35            | 108589        | 108590        | 108591        | 108592        |               |
| 450        | R8V4500 Δ | 15.20            | 108594        | 108595        | 108596        | 108597        |               |
| 475        | R8V4750 Δ | 16.05            | 108470        | 108471        | 108472        | 108473        |               |
| 500        | R8V5000 Δ | 16.90            | 108474        | 108475        | 108476        | 108477        |               |
| 560        | R8V5600 Δ | 18.90            | 108478        | 108479        | 108484        | 108488        |               |
| 600        | R8V6000 Δ | 20.25            |               |               |               |               |               |

Δ Outside circumference in inches

V-Drives

FHP Drives

Drive Component  
Accessories

DYNA-SYNC

HT200/HTD  
Synchronous Drives

HT500  
Synchronous Drives

Roller Chain Sprockets

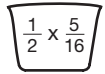


**SELECTION**

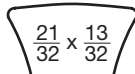
**S-L Classic Belts**



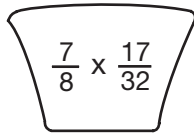
- Premium Performance at Standard Prices.
- Cool Running and Flexible.
- Strong Tensile Cords Remove Excess Stretch.
- Static Conducting and Heat and Oil Resistant.
- Matched to MPTA/RMA Standards - No additional matching or Match Codes required.



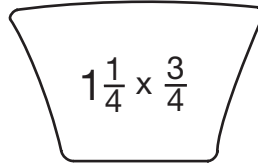
**A**



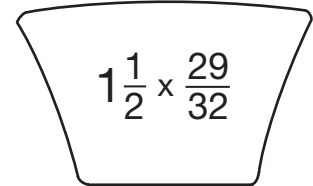
**B**



**C**



**D**



**E**

| Belt No. | Part No.      | Wt.  | Datum Lgth. Δ | Belt No. | Part No.      | Wt.  | Datum Lgth. Δ | Belt No. | Part No.      | Wt.  | Datum Lgth. Δ | Belt No. | Part No.      | Wt.  | Datum Lgth. Δ |
|----------|---------------|------|---------------|----------|---------------|------|---------------|----------|---------------|------|---------------|----------|---------------|------|---------------|
| AP21     |               | 0.14 | 22.3          | AP44     | <b>107324</b> | 0.30 | 45.3          | AP67     | <b>107388</b> | 0.44 | 68.3          | AP89     | <b>107922</b> | 0.57 | 90.3          |
| AP22     | <b>107908</b> | 0.15 | 23.3          | AP45     | <b>107329</b> | 0.32 | 46.3          | AP68     | <b>107016</b> | 0.80 | 69.3          | AP90     | <b>107022</b> | 0.57 | 91.3          |
| AP23     |               | 0.16 | 24.3          | AP46     | <b>107007</b> | 0.31 | 47.3          | AP69     | <b>107913</b> | 0.44 | 70.3          | AP91     | <b>107923</b> | 0.57 | 92.3          |
| AP24     | <b>107910</b> | 0.17 | 25.3          | AP47     | <b>107330</b> | 0.34 | 48.3          | AP70     | <b>107252</b> | 0.46 | 71.3          | AP92     | <b>107277</b> | 0.58 | 93.3          |
| AP25     |               | 0.18 | 26.3          | AP48     | <b>107008</b> | 0.34 | 49.3          | AP71     | <b>107017</b> | 0.46 | 72.3          | AP93     | <b>107430</b> | 0.58 | 94.3          |
| AP26     | <b>107001</b> | 0.20 | 27.9          | AP49     | <b>107272</b> | 0.34 | 50.3          | AP72     | <b>107914</b> | 0.48 | 73.3          | AP94     | <b>107924</b> | 0.60 | 95.3          |
| AP27     | <b>107417</b> | 0.19 | 28.3          | AP50     | <b>107331</b> | 0.35 | 51.3          | AP73     | <b>107915</b> | 0.48 | 74.3          | AP95     | <b>107925</b> | 0.62 | 96.3          |
| AP28     | <b>107320</b> | 0.21 | 29.3          | AP51     | <b>107009</b> | 0.36 | 52.3          | AP74     | <b>107343</b> | 0.48 | 75.3          | AP96     | <b>107023</b> | 0.65 | 97.3          |
| AP29     | <b>107418</b> | 0.21 | 30.3          | AP52     | <b>107332</b> | 0.38 | 53.3          | AP75     | <b>107018</b> | 0.48 | 76.3          | AP97     | <b>107926</b> | 0.65 | 98.3          |
| AP30     | <b>107321</b> | 0.23 | 31.3          | AP53     | <b>107010</b> | 0.37 | 54.3          | AP76     | <b>107420</b> | 0.47 | 77.3          | AP98     | <b>107431</b> | 0.70 | 99.3          |
| AP31     | <b>107002</b> | 0.24 | 32.3          | AP54     | <b>107250</b> | 0.38 | 55.3          | AP77     | <b>107916</b> | 0.50 | 78.3          | AP100    | <b>107346</b> | 0.67 | 101.3         |
| AP32     | <b>107322</b> | 0.24 | 33.3          | AP55     | <b>107011</b> | 0.38 | 56.3          | AP78     | <b>107019</b> | 0.51 | 79.3          | AP103    |               | 0.68 | 104.3         |
| AP33     | <b>107003</b> | 0.25 | 34.3          | AP56     | <b>107251</b> | 0.37 | 57.3          | AP79     | <b>107917</b> | 0.52 | 80.3          | AP105    | <b>107024</b> | 0.68 | 106.3         |
| AP34     | <b>107278</b> | 0.26 | 35.3          | AP57     | <b>107273</b> | 0.40 | 58.3          | AP80     | <b>107020</b> | 0.51 | 81.3          | AP110    | <b>107253</b> | 0.70 | 111.3         |
| AP35     | <b>107004</b> | 0.26 | 36.3          | AP58     | <b>107274</b> | 0.40 | 59.3          | AP81     | <b>107276</b> | 0.52 | 82.3          | AP112    | <b>107025</b> | 0.74 | 113.3         |
| AP36     | <b>107270</b> | 0.27 | 37.3          | AP59     | <b>107912</b> | 0.40 | 60.3          | AP82     | <b>107918</b> | 0.55 | 83.3          | AP120    | <b>107026</b> | 0.75 | 121.3         |
| AP37     | <b>107129</b> | 0.27 | 38.3          | AP60     | <b>107012</b> | 0.41 | 61.3          | AP83     | <b>107344</b> | 0.50 | 84.3          | AP128    | <b>107027</b> | 0.85 | 129.3         |
| AP38     | <b>107005</b> | 0.26 | 39.3          | AP61     | <b>107333</b> | 0.41 | 62.3          | AP84     | <b>107919</b> | 0.53 | 85.3          | AP136    | <b>107028</b> | 0.84 | 137.3         |
| AP39     | <b>107323</b> | 0.29 | 40.3          | AP62     | <b>107013</b> | 0.66 | 63.3          | AP85     | <b>107021</b> | 0.55 | 86.3          | AP144    | <b>107029</b> | 1.00 | 145.3         |
| AP40     | <b>107271</b> | 0.29 | 41.3          | AP63     | <b>107387</b> | 0.40 | 64.3          | AP86     | <b>107920</b> | 0.56 | 87.3          | AP158    | <b>107254</b> | 1.10 | 159.3         |
| AP41     | <b>107419</b> | 0.29 | 42.3          | AP64     | <b>107014</b> | 0.41 | 65.3          | AP87     | <b>107921</b> | 0.58 | 88.3          | AP173    | <b>107255</b> | 1.20 | 174.3         |
| AP42     | <b>107006</b> | 0.27 | 43.3          | AP65     | <b>107122</b> | 0.42 | 66.3          | AP88     | <b>107345</b> | 0.60 | 89.3          | AP180    | <b>107256</b> | 1.20 | 181.3         |
| AP43     | <b>107249</b> | 0.31 | 44.3          | AP66     | <b>107015</b> | 0.43 | 67.3          |          |               |      |               |          |               |      |               |

Δ Datum Length in inches

# SELECTION



## S-L Classic Belts B, C, D, E S-L Classic Belts

| Belt No.       | Part No.      | Wt.  | Datum Lgth. Δ | Belt No.               | Part No.      | Wt.  | Datum Lgth. Δ | Belt No.               | Part No.      | Wt.  | Datum Lgth. Δ | Belt No.                 | Part No.      | Wt.   | Datum Lgth. Δ |
|----------------|---------------|------|---------------|------------------------|---------------|------|---------------|------------------------|---------------|------|---------------|--------------------------|---------------|-------|---------------|
| <b>B-Belts</b> |               |      |               | <b>B-Belts (Con't)</b> |               |      |               | <b>B-Belts (Con't)</b> |               |      |               | <b>C-Belts (Con't)</b>   |               |       |               |
| BP25           |               | 0.28 | 26.8          | BP78                   | <b>107046</b> | 0.74 | 79.8          | BP205                  | <b>107353</b> | 2.00 | 206.8         | CP330                    | <b>107096</b> | 6.00  | 330.9         |
| BP26           |               | 0.29 | 27.8          | BP79                   | <b>107257</b> | 0.80 | 80.8          | BP210                  | <b>107065</b> | 2.07 | 211.8         | CP345                    | <b>107097</b> | 6.30  | 345.9         |
| BP28           | <b>107932</b> | 0.30 | 29.8          | BP80                   | <b>107047</b> | 0.85 | 81.8          | BP225                  | <b>107262</b> | 2.21 | 225.3         | CP360                    | <b>107098</b> | 7.40  | 360.9         |
| BP29           | <b>107933</b> | 0.29 | 30.8          | BP81                   | <b>107048</b> | 0.82 | 82.8          | BP240                  | <b>107066</b> | 2.39 | 240.3         | CP390                    | <b>107099</b> | 7.10  | 390.9         |
| BP30           |               | 0.30 | 31.8          | BP82                   | <b>107258</b> | 0.84 | 83.8          | BP255                  | <b>107263</b> | 2.56 | 255.3         | CP420                    | <b>107269</b> | 8.03  | 420.9         |
| BP31           |               | 0.32 | 32.8          | BP83                   | <b>107049</b> | 0.79 | 84.8          | BP270                  | <b>107067</b> | 2.75 | 270.3         | <b>D-BELTS</b>           |               |       |               |
| BP32           | <b>107389</b> | 0.36 | 33.8          | BP84                   | <b>107411</b> | 0.81 | 85.8          | BP285                  | <b>107264</b> | 2.70 | 285.3         | DP120                    | <b>107100</b> | 4.30  | 123.3         |
| BP33           |               | 0.34 | 34.8          | BP85                   | <b>107050</b> | 0.87 | 86.8          | BP300                  | <b>107068</b> | 3.40 | 300.3         | DP128                    | <b>107101</b> | 4.60  | 131.3         |
| BP34           | <b>107390</b> | 0.34 | 35.8          | BP86                   | <b>107434</b> | 0.84 | 87.8          | BP315                  | <b>107265</b> | 3.20 | 315.3         | DP144                    | <b>107102</b> | 5.10  | 147.3         |
| BP35           | <b>107030</b> | 0.39 | 36.8          | BP87                   | <b>107296</b> | 0.87 | 88.8          | <b>C-BELTS</b>         |               |      |               | DP158                    | <b>107103</b> | 5.58  | 161.3         |
| BP36           | <b>107391</b> | 0.39 | 37.8          | BP88                   | <b>107297</b> | 0.87 | 89.8          | CP51                   | <b>107072</b> | 0.99 | 53.9          | DP162                    | <b>107104</b> | 5.65  | 165.3         |
| BP37           | <b>107936</b> | 0.41 | 38.8          | BP89                   | <b>107938</b> | 0.90 | 90.8          | CP55                   | <b>107354</b> | 1.07 | 57.9          | DP173                    | <b>107105</b> | 11.00 | 176.3         |
| BP38           | <b>107031</b> | 0.44 | 39.8          | BP90                   | <b>107051</b> | 0.94 | 91.8          | CP60                   | <b>107073</b> | 1.15 | 62.9          | DP180                    | <b>107106</b> | 6.35  | 183.3         |
| BP39           | <b>107937</b> | 0.43 | 40.8          | BP91                   | <b>107939</b> | 0.87 | 92.8          | CP68                   | <b>107074</b> | 1.30 | 70.9          | DP195                    | <b>107107</b> | 6.90  | 198.3         |
| BP40           | <b>107279</b> | 0.44 | 41.8          | BP92                   | <b>107940</b> | 0.90 | 93.8          | CP71                   |               | 1.34 | 73.9          | DP210                    | <b>107108</b> | 7.40  | 213.3         |
| BP41           | <b>107280</b> | 0.45 | 42.8          | BP93                   | <b>107052</b> | 0.91 | 94.8          | CP72                   | <b>107699</b> | 1.36 | 74.9          | DP225                    | <b>107146</b> | 7.90  | 225.8         |
| BP42           | <b>107032</b> | 0.44 | 43.8          | BP94                   | <b>107941</b> | 0.93 | 95.8          | CP75                   | <b>107075</b> | 1.42 | 77.9          | DP240                    | <b>107109</b> | 8.49  | 240.8         |
| BP43           | <b>107349</b> | 0.46 | 44.8          | BP95                   | <b>107259</b> | 0.95 | 96.8          | CP78                   | <b>107124</b> | 1.49 | 80.9          | DP255                    | <b>107148</b> | 8.90  | 255.8         |
| BP44           | <b>107281</b> | 0.50 | 45.8          | BP96                   | <b>107260</b> | 0.96 | 97.8          | CP81                   | <b>107076</b> | 1.50 | 83.9          | DP270                    | <b>107110</b> | 8.90  | 270.8         |
| BP45           | <b>107433</b> | 0.48 | 46.8          | BP97                   | <b>107053</b> | 0.95 | 98.8          | CP85                   | <b>107077</b> | 1.65 | 87.9          | DP285                    | <b>107149</b> | 9.90  | 285.8         |
| BP46           | <b>107033</b> | 0.49 | 47.8          | BP98                   |               | 0.96 | 99.8          | CP90                   | <b>107078</b> | 1.64 | 92.9          | DP300                    | <b>107111</b> | 10.30 | 300.8         |
| BP47           | <b>107408</b> | 0.52 | 48.8          | BP99                   | <b>107128</b> | 0.99 | 100.8         | CP96                   | <b>107079</b> | 1.82 | 98.9          | DP315                    | <b>107112</b> | 11.00 | 315.8         |
| BP48           | <b>107034</b> | 0.51 | 49.8          | BP100                  | <b>107069</b> | 1.02 | 101.8         | CP97                   | <b>107356</b> | 1.83 | 99.9          | DP330                    | <b>107113</b> | 11.50 | 330.8         |
| BP49           | <b>107350</b> | 0.53 | 50.8          | BP101                  |               | 1.06 | 102.8         | CP99                   | <b>107361</b> | 1.86 | 101.9         | DP345                    | <b>107114</b> | 12.00 | 345.8         |
| BP50           | <b>107282</b> | 0.54 | 51.8          | BP103                  | <b>107054</b> | 1.07 | 104.8         | CP100                  | <b>107126</b> | 1.88 | 102.9         | DP360                    | <b>107115</b> | 12.76 | 360.8         |
| BP51           | <b>107035</b> | 0.51 | 52.8          | BP105                  | <b>107055</b> | 1.07 | 106.8         | CP101                  |               | 1.89 | 103.9         | DP390                    | <b>107116</b> | 13.60 | 390.8         |
| BP52           | <b>107283</b> | 0.55 | 53.8          | BP106                  |               | 1.08 | 107.8         | CP105                  | <b>107080</b> | 1.90 | 107.9         | DP420                    | <b>107117</b> | 14.70 | 420.8         |
| BP53           | <b>107036</b> | 0.57 | 54.8          | BP108                  | <b>107298</b> | 1.08 | 109.8         | CP108                  | <b>107363</b> | 1.90 | 110.9         | DP450                    | <b>107373</b> | 15.70 | 450.8         |
| BP54           | <b>107284</b> | 0.59 | 55.8          | BP111                  |               | 1.15 | 112.8         | CP109                  | <b>107123</b> | 2.02 | 111.9         | DP480                    | <b>107118</b> | 16.80 | 480.8         |
| BP55           | <b>107037</b> | 0.59 | 56.8          | BP112                  | <b>107056</b> | 1.14 | 113.8         | CP111                  | <b>107365</b> | 2.10 | 113.9         | DP540                    | <b>107119</b> | 18.90 | 540.8         |
| BP56           | <b>107285</b> | 0.59 | 57.8          | BP116                  | <b>107412</b> | 1.18 | 117.8         | CP112                  | <b>107081</b> | 2.13 | 114.9         | DP600                    | <b>107120</b> | 20.90 | 600.8         |
| BP57           | <b>107286</b> | 0.59 | 58.8          | BP118                  |               | 1.18 | 119.8         | CP115                  | <b>107364</b> | 2.26 | 117.9         | DP660                    | <b>107070</b> | 23.00 | 660.8         |
| BP58           | <b>107287</b> | 0.61 | 59.8          | BP120                  | <b>107057</b> | 1.18 | 121.8         | CP120                  | <b>107082</b> | 2.22 | 122.9         | <b>E-BELTS</b>           |               |       |               |
| BP59           | <b>107288</b> | 0.59 | 60.8          | BP123                  |               | 1.25 | 124.8         | CP124                  | <b>107127</b> | 2.42 | 126.9         | EP144                    |               | 8.00  | 148.5         |
| BP60           | <b>107038</b> | 0.60 | 61.8          | BP124                  | <b>107299</b> | 1.26 | 125.8         | CP128                  | <b>107083</b> | 2.35 | 130.9         | EP180                    | <b>107131</b> | 9.40  | 184.5         |
| BP61           | <b>107289</b> | 0.61 | 62.8          | BP126                  |               | 1.25 | 127.8         | CP136                  | <b>107084</b> | 2.56 | 138.9         | EP195                    | <b>107132</b> | 10.10 | 199.5         |
| BP62           | <b>107039</b> | 0.62 | 63.8          | BP128                  | <b>107058</b> | 1.28 | 129.8         | CP144                  | <b>107085</b> | 2.64 | 146.9         | EP210                    | <b>107133</b> | 10.90 | 214.5         |
| BP63           | <b>107290</b> | 0.63 | 64.8          | BP130                  |               | 1.35 | 131.8         | CP148                  |               | 2.80 | 150.9         | EP225                    |               | 12.10 | 229.5         |
| BP64           | <b>107040</b> | 0.64 | 65.8          | BP133                  | <b>107261</b> | 1.38 | 134.8         | CP150                  | <b>107957</b> | 2.82 | 152.9         | EP240                    | <b>107135</b> | 12.20 | 241.5         |
| BP65           | <b>107041</b> | 0.65 | 66.8          | BP136                  | <b>107059</b> | 1.34 | 137.8         | CP158                  | <b>107086</b> | 3.01 | 160.9         | EP270                    |               | 14.50 | 271.5         |
| BP66           | <b>107042</b> | 0.66 | 67.8          | BP140                  |               | 1.43 | 141.8         | CP162                  | <b>107087</b> | 3.09 | 164.9         | EP300                    | <b>107137</b> | 15.30 | 301.0         |
| BP67           | <b>107291</b> | 0.69 | 68.8          | BP144                  | <b>107060</b> | 1.45 | 145.8         | CP173                  | <b>107088</b> | 3.39 | 175.9         | EP330                    | <b>107138</b> | 16.80 | 331.0         |
| BP68           | <b>107043</b> | 0.67 | 69.8          | BP148                  | <b>107351</b> | 1.39 | 149.8         | CP180                  | <b>107089</b> | 3.47 | 182.9         | EP360                    | <b>107139</b> | 18.30 | 361.0         |
| BP69           | <b>107409</b> | 0.70 | 70.8          | BP150                  | <b>107000</b> | 1.49 | 151.8         | CP195                  | <b>107090</b> | 3.65 | 197.9         | EP390                    | <b>107140</b> | 19.80 | 391.0         |
| BP70           | <b>107275</b> | 0.72 | 71.8          | BP154                  |               | 1.54 | 155.8         | CP210                  | <b>107091</b> | 8.03 | 212.9         | EP420                    | <b>107141</b> | 21.40 | 421.0         |
| BP71           | <b>107044</b> | 0.69 | 72.8          | BP158                  | <b>107061</b> | 1.55 | 159.8         | CP225                  | <b>107266</b> | 4.16 | 225.9         | EP480                    | <b>107142</b> | 27.00 | 481.0         |
| BP72           | <b>107292</b> | 0.73 | 73.8          | BP162                  | <b>107125</b> | 1.58 | 163.8         | CP240                  | <b>107092</b> | 4.31 | 240.9         | EP540                    | <b>107143</b> | 30.00 | 541.0         |
| BP73           | <b>107293</b> | 0.73 | 74.8          | BP173                  | <b>107062</b> | 1.69 | 174.8         | CP255                  | <b>107267</b> | 4.70 | 255.9         | EP600                    | <b>107144</b> | 34.00 | 601.0         |
| BP74           | <b>107294</b> | 0.73 | 75.8          | BP180                  | <b>107063</b> | 1.72 | 181.8         | CP270                  | <b>107093</b> | 5.03 | 270.9         | EP660                    | <b>107174</b> | 36.00 | 661.0         |
| BP75           | <b>107045</b> | 0.78 | 76.8          | BP190                  | <b>107352</b> | 1.85 | 191.8         | CP285                  | <b>107268</b> | 5.20 | 285.9         | Δ Datum Length in inches |               |       |               |
| BP76           | <b>107410</b> | 0.76 | 77.8          | BP191                  |               | 1.95 | 192.8         | CP300                  | <b>107094</b> | 5.50 | 300.9         |                          |               |       |               |
| BP77           | <b>107295</b> | 0.76 | 78.8          | BP195                  | <b>107064</b> | 2.00 | 196.8         | CP315                  | <b>107095</b> | 5.80 | 315.9         |                          |               |       |               |

◇ E-BELTS: Recommended for Replacement Only - Not for New Drives (Use 8V Belts)

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets



# SELECTION

## S-L Classic Banded Belts B POLYBAND Classic Belts (2, 3, 4 and 5 Bands)

| Datum Lgth. Δ | Belt. No. | Wgt. per Band | 2-Band P/N | 3-Band P/N | 4-Band P/N | 5-Band P/N |
|---------------|-----------|---------------|------------|------------|------------|------------|
| 36.8          | RBP35 Δ   | 0.50          |            |            |            |            |
| 39.8          | RBP38 Δ   | 0.55          |            |            |            |            |
| 41.8          | RBP40 Δ   | 0.55          |            |            |            |            |
| 42.8          | RBP41 Δ   | 0.55          |            |            |            |            |
| 43.8          | RBP42 Δ   | 0.60          | 107308     | 107309     | 107310     | 107311     |
| 44.8          | RBP43 Δ   | 0.60          | 107421     | 107451     | 107452     | 107453     |
| 45.8          | RBP44 Δ   | 0.60          |            |            |            |            |
| 47.8          | RBP46 Δ   | 0.65          | 107312     | 107313     | 107314     | 107315     |
| 49.8          | RBP48 Δ   | 0.65          | 107316     | 107317     | 107318     | 107319     |
| 50.8          | RBP49 Δ   | 0.70          |            |            |            |            |
| 51.8          | RBP50 Δ   | 0.70          | 107454     | 107455     | 107464     | 107465     |
| 52.8          | RBP51 Δ   | 0.70          | 107325     | 107326     | 107327     | 107328     |
| 53.8          | RBP52 Δ   | 0.70          | 107466     | 107467     | 107468     | 107481     |
| 54.8          | RBP53 Δ   | 0.75          | 107334     | 107335     | 107336     | 107337     |
| 55.8          | RBP54 Δ   | 0.75          | 107482     | 107483     | 107484     | 107485     |
| 56.8          | RBP55 Δ   | 0.75          | 107338     | 107339     | 107340     | 107341     |
| 57.8          | RBP56 Δ   | 0.75          | 107494     | 107495     | 107496     | 107497     |
| 58.8          | RBP57 Δ   | 0.80          | 107498     | 107503     | 107504     | 107505     |
| 59.8          | RBP58 Δ   | 0.80          | 107506     | 107507     | 107520     | 107521     |
| 60.8          | RBP59 Δ   | 0.80          | 107522     | 107523     | 107524     | 107541     |
| 61.8          | RBP60 Δ   | 0.85          | 107357     | 107358     | 107359     | 107360     |
| 62.8          | RBP61 Δ   | 0.85          | 107542     | 107543     | 107544     | 107545     |
| 63.8          | RBP62 Δ   | 0.85          | 107366     | 107367     | 107368     | 107369     |
| 64.8          | RBP63 Δ   | 0.85          | 107550     | 107551     | 107552     | 107553     |
| 65.8          | RBP64 Δ   | 0.90          | 107375     | 107376     | 107377     | 107378     |
| 66.8          | RBP65 Δ   | 0.90          | 107379     | 107380     | 107381     | 107382     |
| 67.8          | RBP66 Δ   | 0.90          | 107383     | 107384     | 107385     | 107386     |
| 68.8          | RBP67 Δ   | 0.90          | 107554     | 107563     | 107564     | 107565     |
| 69.8          | RBP68 Δ   | 0.90          | 107392     | 107393     | 107394     | 107395     |
| 71.8          | RBP70 Δ   | 0.95          | 107396     | 107397     | 107398     | 107399     |
| 72.8          | RBP71 Δ   | 0.95          | 107400     | 107401     | 107402     | 107403     |
| 73.8          | RBP72 Δ   | 1.00          | 107566     | 107567     | 107568     | 107569     |
| 74.8          | RBP73 Δ   | 1.00          | 107660     | 107651     | 107652     | 107653     |
| 75.8          | RBP74 Δ   | 1.00          | 107654     | 107659     | 107660     | 107661     |
| 75.8          | RBP75 Δ   | 1.00          | 107404     | 107405     | 107406     | 107407     |
| 78.8          | RBP77 Δ   | 1.05          | 107662     | 107663     | 107668     | 107669     |
| 79.8          | RBP78 Δ   | 1.05          | 107413     | 107414     | 107415     | 107416     |
| 80.8          | RBP79 Δ   | 1.10          | 107670     | 107671     | 107672     | 107677     |
| 81.8          | RBP80 Δ   | 1.10          | 107422     | 107423     | 107424     | 107425     |
| 82.8          | RBP81 Δ   | 1.10          | 107426     | 107427     | 107428     | 107429     |
| 83.8          | RBP82 Δ   | 1.10          | 107678     | 107894     | 107895     | 107896     |
| 84.8          | RBP83 Δ   | 1.15          | 107435     | 107436     | 107437     | 107438     |
| 86.8          | RBP85 Δ   | 1.15          | 107439     | 107440     | 107441     | 107442     |
| 88.8          | RBP87 Δ   | 1.20          | 107897     | 107898     | 107899     | 107942     |
| 89.8          | RBP88 Δ   | 1.20          | 107943     | 107944     | 107948     | 107949     |
| 91.8          | RBP90 Δ   | 1.20          | 107443     | 107444     | 107445     | 107446     |
| 94.8          | RBP93 Δ   | 1.25          | 107447     | 107448     | 107449     | 107450     |
| 96.8          | RBP95 Δ   | 1.30          | 107950     | 107951     | 107952     | 107953     |
| 97.8          | RBP96 Δ   | 1.30          | 107456     | 107457     | 107458     | 107459     |
| 98.8          | RBP97 Δ   | 1.30          | 107460     | 107461     | 107462     | 107463     |

Δ Datum Length in inches

# SELECTION



## S-L Classic Banded Belts B POLYBAND Classic Belts (2, 3, 4 and 5 Bands) (Cont'd)

| Datum Lgth. Δ | Belt. No. | Wgt. per Band | 2-Band P/N | 3-Band P/N | 4-Band P/N | 5-Band P/N |
|---------------|-----------|---------------|------------|------------|------------|------------|
| 100.8         | RBP99 Δ   | 1.35          | 107954     | 107955     | 107956     | 107979     |
| 101.8         | RBP100 Δ  | 1.35          | 107469     | 107470     | 107471     | 107472     |
| 104.8         | RBP103 Δ  | 1.40          | 107473     | 107474     | 107475     | 107476     |
| 106.8         | RBP105 Δ  | 1.45          | 107477     | 107478     | 107479     | 107480     |
| 109.8         | RBP108 Δ  | 1.45          | 107980     | 107981     | 107982     | 107983     |
| 113.8         | RBP112 Δ  | 1.50          | 107486     | 107487     | 107488     | 107489     |
| 121.8         | RBP120 Δ  | 1.65          | 107490     | 107491     | 107492     | 107493     |
| 125.8         | RBP124 Δ  | 1.70          | 107984     | 107985     | 107986     | 107987     |
| 129.8         | RBP128 Δ  | 1.75          | 107499     | 107500     | 107501     | 107502     |
| 134.8         | RBP133 Δ  | 1.80          | 107988     | 107989     | 107990     | 107991     |
| 137.8         | RBP136 Δ  | 1.85          | 107508     | 107509     | 107510     | 107511     |
| 145.8         | RBP144 Δ  | 1.95          | 107512     | 107513     | 107514     | 107515     |
| 149.8         | RBP148 Δ  | 2.00          | 107992     | 107993     | 107994     | 107995     |
| 159.8         | RBP158 Δ  | 2.15          | 107516     | 107517     | 107518     | 107519     |
| 163.8         | RBP162 Δ  | 2.20          | 107996     | 107997     | 107998     | 108765     |
| 174.8         | RBP173 Δ  | 2.35          | 107525     | 107526     | 107527     | 107528     |
| 181.8         | RBP180 Δ  | 2.45          | 107529     | 107530     | 107531     | 107532     |
| 196.8         | RBP195 Δ  | 2.65          | 107533     | 107534     | 107535     | 107536     |
| 211.8         | RBP210 Δ  | 2.85          | 107537     | 107538     | 107539     | 107540     |
| 225.3         | RBP225 Δ  | 3.00          | 108766     | 108767     | 108768     | 108769     |
| 240.3         | RBP240 Δ  | 3.20          | 107546     | 107547     | 107548     | 107549     |
| 255.3         | RBP255 Δ  | 3.40          | 108770     | 108771     | 108772     | 108773     |
| 270.3         | RBP270 Δ  | 3.60          | 107555     | 107556     | 107557     | 107558     |
| 285.3         | RBP285 Δ  | 3.80          |            |            |            |            |
| 300.3         | RBP300 Δ  | 4.00          | 107559     | 107560     | 107561     | 107562     |
| 315.3         | RBP315 Δ  | 4.20          | 108774     | 108775     | 108776     | 108777     |

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets





# SELECTION

## S-L Classic Banded Belts C POLYBAND Classic Belts (2, 3, 4 and 5 Bands)

| Datum Lgth. Δ | Belt. No. | Wgt. per Band | 2-Band P/N | 3-Band P/N | 4-Band P/N | 5-Band P/N |
|---------------|-----------|---------------|------------|------------|------------|------------|
| 53.9          | RCP51 Δ   | 1.20          |            |            |            |            |
| 57.9          | RCP55 Δ   | 1.30          |            |            |            |            |
| 62.9          | RCP60 Δ   | 1.40          | 107574     | 107575     | 107576     | 107577     |
| 70.9          | RCP68 Δ   | 1.55          | 107578     | 107579     | 107580     | 107581     |
| 73.9          | RCP71 Δ   | 1.65          |            |            |            |            |
| 77.9          | RCP75 Δ   | 1.70          | 107582     | 107583     | 107584     | 107585     |
| 83.9          | RCP81 Δ   | 1.85          | 107586     | 107587     | 107588     | 107589     |
| 87.9          | RCP85 Δ   | 1.95          | 107590     | 107591     | 107592     | 107593     |
| 92.9          | RCP90 Δ   | 2.05          | 107594     | 107595     | 107596     | 107597     |
| 98.9          | RCP96 Δ   | 2.20          | 107598     | 107599     | 107600     | 107601     |
| 99.9          | RCP97 Δ   | 2.20          |            |            |            |            |
| 101.9         | RCP99 Δ   | 2.25          | 108778     | 108779     | 108780     | 108781     |
| 102.9         | RCP100 Δ  | 2.30          |            |            |            |            |
| 107.9         | RCP105 Δ  | 2.40          | 107602     | 107603     | 107604     | 107605     |
| 110.9         | RCP108 Δ  | 2.45          | 108782     | 108783     | 108784     | 108785     |
| 111.9         | RCP109 Δ  | 2.50          | 108786     | 108787     | 108788     | 108789     |
| 114.9         | RCP112 Δ  | 2.55          | 107606     | 107607     | 107608     | 107609     |
| 122.9         | RCP120 Δ  | 2.70          | 107610     | 107611     | 107612     | 107613     |
| 126.9         | RCP124 Δ  | 2.80          | 108790     | 108791     | 108792     | 108793     |
| 130.9         | RCP128 Δ  | 2.80          | 107614     | 107615     | 107616     | 107617     |
| 138.9         | RCP136 Δ  | 3.05          | 107618     | 107619     | 107620     | 107621     |
| 146.9         | RCP144 Δ  | 3.25          | 107622     | 107623     | 107624     | 107625     |
| 160.9         | RCP158 Δ  | 3.55          | 107626     | 107627     | 107628     | 107629     |
| 164.9         | RCP162 Δ  | 3.65          | 107630     | 107631     | 107632     | 107633     |
| 175.9         | RCP173 Δ  | 3.90          | 107634     | 107635     | 107636     | 107637     |
| 182.9         | RCP180 Δ  | 4.05          | 107638     | 107639     | 107640     | 107641     |
| 197.9         | RCP195 Δ  | 4.40          | 107642     | 107643     | 107644     | 107645     |
| 212.9         | RCP210 Δ  | 4.70          | 107646     | 107647     | 107648     | 107649     |
| 225.9         | RCP225 Δ  | 5.00          | 107679     | 107680     | 107681     | 107682     |
| 240.9         | RCP240 Δ  | 5.35          | 107655     | 107656     | 107657     | 107658     |
| 255.9         | RCP255 Δ  | 5.65          | 107684     | 107685     | 107686     | 107687     |
| 270.9         | RCP270 Δ  | 6.00          | 107664     | 107665     | 107666     | 107667     |
| 285.9         | RCP285 Δ  | 6.35          | 107689     | 107690     | 107691     | 107692     |
| 300.9         | RCP300 Δ  | 6.65          | 107673     | 107674     | 107675     | 107676     |
| 315.9         | RCP315 Δ  | 7.00          | 108794     | 108795     | 108796     | 108797     |
| 330.9         | RCP330 Δ  | 7.35          | 108798     | 108799     | 108876     | 108877     |
| 345.9         | RCP345 Δ  | 7.65          | 108878     | 108879     | 108880     | 108881     |
| 360.9         | RCP360 Δ  | 8.00          | 108882     | 108883     | 108884     | 108885     |
| 390.9         | RCP390 Δ  | 8.65          | 108886     | 108887     | 108888     | 108889     |
| 420.9         | RCP420 Δ  | 9.35          | 108890     | 108891     | 108892     | 108893     |

Δ Datum Length in inches

# SELECTION



## S-L Classic Banded Belts D POLYBAND Classic Belts (2, 3, 4 and 5 Bands)

| Datum Lgth. Δ | Belt. No. | Wgt. per Band | 2-Band P/N | 3-Band P/N | 4-Band P/N | 5-Band P/N |
|---------------|-----------|---------------|------------|------------|------------|------------|
| 123.3         | RDP120 Δ  | 5.05          | 107700     | 107701     | 107702     | 107703     |
| 131.3         | RDP128 Δ  | 5.40          |            |            |            |            |
| 147.3         | RDP144 Δ  | 6.05          | 107708     | 107709     | 107710     | 107711     |
| 161.3         | RDP158 Δ  | 6.65          | 107712     | 107713     | 107714     | 107715     |
| 165.3         | RDP162 Δ  | 6.80          | 107716     | 107717     | 107718     | 107719     |
| 176.3         | RDP173 Δ  | 7.25          | 107720     | 107721     | 107722     | 107723     |
| 183.3         | RDP180 Δ  | 7.50          | 107724     | 107725     | 107726     | 107727     |
| 198.3         | RDP195 Δ  | 8.15          | 107728     | 107729     | 107730     | 107731     |
| 213.3         | RDP210 Δ  | 8.75          | 107732     | 107733     | 107734     | 107735     |
| 225.8         | RDP225 Δ  | 9.30          | 107736     | 107737     | 107738     | 107739     |
| 240.8         | RDP240 Δ  | 9.90          | 107741     | 107742     | 107743     | 107744     |
| 255.8         | RDP255 Δ  | 10.50         | 107745     | 107746     | 107747     | 107748     |
| 270.8         | RDP270 Δ  | 11.15         | 107750     | 107751     | 107752     | 107753     |
| 285.8         | RDP285 Δ  | 11.75         | 107754     | 107755     | 107756     | 107757     |
| 300.8         | RDP300 Δ  | 12.35         | 107759     | 107760     | 107761     | 107762     |
| 315.8         | RDP315 Δ  | 13.00         | 107777     | 107778     | 107779     | 107780     |
| 330.8         | RDP330 Δ  | 13.60         | 107781     | 107782     | 107783     | 107784     |
| 345.8         | RDP345 Δ  | 14.20         | 107695     | 107696     | 107697     | 107698     |
| 360.8         | RDP360 Δ  | 14.85         | 107960     | 107961     | 107962     | 107963     |
| 390.8         | RDP390 Δ  | 16.10         | 107764     | 107765     | 107766     | 107767     |
| 420.8         | RDP420 Δ  | 17.30         | 107769     | 107770     | 107771     | 107772     |
| 450.8         | RDP450 Δ  | 18.55         | 107964     | 107965     | 107966     | 107967     |
| 480.8         | RDP480 Δ  | 19.80         | 107773     | 107774     | 107775     | 107776     |
| 540.8         | RDP540 Δ  | 22.25         |            | 107968     | 107969     | 107970     |
| 600.8         | RDP600 Δ  | 24.70         | 107971     | 107972     | 107973     | 107974     |
| 660.8         | RDP660 Δ  | 27.15         | 107975     | 107976     | 107977     | 107978     |

Δ Datum Length in inches

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

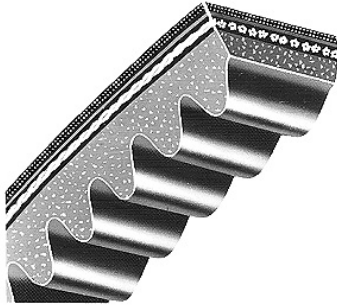
HT500 Synchronous Drives

Roller Chain Sprockets



## SELECTION

### Classic Cog Belts



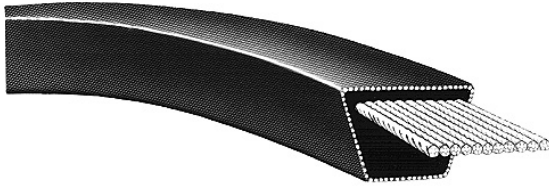
Deliver more horsepower and last longer than conventional belts

- Fully notched cogs for maximum flexibility.
- High coefficient, energy-efficient rubber edge.
- Proven energy-saving design.
- Outlast conventional belts.
- Fewer belts required - drive weight is reduced.
- Matched to MPTA/RMA Standards - No Additional matching or Match Codes Required

| Belt No.        | Part No. | Wt. | Datum Lgth. | Belt No.                | Part No. | Wt. | Datum Lgth. | Belt No.                | Part No. | Wt.  | Datum Lgth. | Belt No.                | Part No. | Wt.  | Datum Lgth. |
|-----------------|----------|-----|-------------|-------------------------|----------|-----|-------------|-------------------------|----------|------|-------------|-------------------------|----------|------|-------------|
| <b>AX BELTS</b> |          |     |             | <b>AX BELTS (CON'T)</b> |          |     |             | <b>BX-BELTS (CON'T)</b> |          |      |             | <b>BX BELTS (CON'T)</b> |          |      |             |
| AX25            | 108867   | .17 | 26.3        | AX105                   | 108670   | .68 | 106.3       | BX78                    | 108702   | .86  | 79.8        | BX270                   | 108735   | 2.65 | 270.3       |
| AX26            | 108640   | .18 | 27.3        | AX110                   | 108671   | .71 | 111.3       | BX79                    | 108703   | .87  | 80.8        | BX300                   | 108637   | 3.0  | 300.3       |
| AX27            | 108868   | .19 | 28.3        | AX112                   | 108672   | .73 | 113.3       | BX80                    | 108704   | .88  | 81.8        | <b>CX-BELTS</b>         |          |      |             |
| AX31            | 108641   | .21 | 32.3        | AX120                   | 108673   | .74 | 121.3       | BX81                    | 108705   | .89  | 82.8        | CX51                    | 108736   | 1.07 | 53.9        |
| AX32            | 108869   | .21 | 33.3        | AX128                   | 108674   | .78 | 129.3       | BX82                    | 108706   | .90  | 83.8        | CX60                    | 108737   | 1.24 | 62.9        |
| AX33            | 108642   | .22 | 34.3        | AX136                   | 108675   | .98 | 137.3       | BX83                    | 108707   | .91  | 84.8        | CX68                    | 108738   | 1.39 | 70.9        |
| AX34            | 108643   | .23 | 35.3        | <b>BX-BELTS</b>         |          |     |             | BX85                    | 108708   | .93  | 86.8        | CX75                    | 108739   | 1.53 | 77.9        |
| AX35            | 108644   | .24 | 36.3        | BX35                    | 108676   | .40 | 36.8        | BX90                    | 108709   | .98  | 91.8        | CX81                    | 108740   | 1.64 | 83.9        |
| AX36            | 108645   | .24 | 37.3        | BX38                    | 108677   | .43 | 39.8        | BX93                    | 108710   | 1.01 | 94.8        | CX85                    | 108741   | 1.72 | 87.9        |
| AX37            | 108646   | .25 | 38.3        | BX42                    | 108678   | .48 | 43.8        | BX95                    | 108711   | 1.03 | 96.8        | CX90                    | 108742   | 1.81 | 92.9        |
| AX38            | 108647   | .26 | 39.3        | BX46                    | 108679   | .52 | 47.8        | BX96                    | 108712   | 1.05 | 97.8        | CX96                    | 108743   | 1.93 | 98.9        |
| AX42            | 108648   | .28 | 43.3        | BX48                    | 108680   | .54 | 49.8        | BX97                    | 108713   | 1.06 | 98.8        | CX105                   | 108744   | 2.10 | 107.9       |
| AX43            | 108649   | .29 | 44.3        | BX50                    | 108681   | .56 | 51.8        | BX99                    | 108714   | 1.08 | 100.8       | CX109                   | 108745   | 2.18 | 111.9       |
| AX46            | 108650   | .31 | 47.3        | BX51                    | 108682   | .57 | 52.8        | BX100                   | 108715   | 1.09 | 101.8       | CX112                   | 108746   | 2.24 | 114.9       |
| AX48            | 108651   | .32 | 49.3        | BX52                    | 108683   | .58 | 53.8        | BX103                   | 108716   | 1.12 | 104.8       | CX115                   | 108747   | 2.29 | 117.9       |
| AX51            | 108652   | .34 | 52.3        | BX53                    | 108684   | .59 | 54.8        | BX105                   | 108717   | 1.14 | 106.8       | CX120                   | 108748   | 2.39 | 122.9       |
| AX53            | 108653   | .35 | 54.3        | BX54                    | 108685   | .60 | 55.8        | BX112                   | 108718   | 1.21 | 113.8       | CX128                   | 108749   | 2.42 | 130.9       |
| AX54            | 108654   | .36 | 55.3        | BX55                    | 108686   | .61 | 56.8        | BX113                   | 108719   | 1.22 | 114.8       | CX136                   | 108750   | 2.49 | 138.9       |
| AX55            | 108655   | .36 | 56.3        | BX56                    | 108687   | .62 | 57.8        | BX116                   | 108720   | 1.26 | 117.8       | CX144                   | 108751   | 2.63 | 146.9       |
| AX56            | 108656   | .37 | 57.3        | BX59                    | 108688   | .66 | 60.8        | BX120                   | 108721   | 1.30 | 121.8       | CX150                   | 108752   | 2.74 | 152.9       |
| AX60            | 108657   | .40 | 61.3        | BX60                    | 108689   | .67 | 61.8        | BX124                   | 108722   | 1.26 | 125.8       | CX158                   | 108753   | 2.88 | 160.9       |
| AX62            | 108658   | .41 | 63.3        | BX61                    | 108690   | .68 | 62.8        | BX128                   | 108723   | 1.30 | 129.8       | CX162                   | 108754   | 2.95 | 164.9       |
| AX64            | 108659   | .42 | 65.3        | BX62                    | 108691   | .69 | 63.8        | BX133                   | 108724   | 1.34 | 134.8       | CX173                   | 108755   | 3.15 | 175.9       |
| AX66            | 108660   | .43 | 67.3        | BX63                    | 108692   | .70 | 64.8        | BX136                   | 108725   | 1.37 | 137.8       | CX180                   | 108756   | 3.27 | 182.9       |
| AX68            | 108661   | .45 | 69.3        | BX64                    | 108693   | .71 | 65.8        | BX144                   | 108726   | 1.45 | 145.8       | CX195                   | 108757   | 3.54 | 197.9       |
| AX70            | 108662   | .46 | 71.3        | BX65                    | 108694   | .72 | 66.8        | BX150                   | 108727   | 1.51 | 151.8       | CX210                   | 108758   | 3.77 | 212.9       |
| AX71            | 108663   | .47 | 72.3        | BX66                    | 108695   | .73 | 67.8        | BX158                   | 108728   | 1.59 | 159.8       | CX225                   | 108896   | 4.0  | 227.9       |
| AX75            | 108664   | .49 | 76.3        | BX67                    | 108696   | .74 | 68.8        | BX162                   | 108729   | 1.63 | 163.8       | CX240                   | 108759   | 4.30 | 240.9       |
| AX78            | 108665   | .51 | 79.3        | BX68                    | 108697   | .75 | 69.8        | BX173                   | 108730   | 1.74 | 174.8       | CX270                   | 108760   | 4.83 | 270.9       |
| AX80            | 108666   | .52 | 81.3        | BX70                    | 108698   | .77 | 71.8        | BX180                   | 108731   | 1.81 | 181.8       | CX285                   | 108638   | 4.7  | 285.9       |
| AX85            | 108667   | .55 | 86.3        | BX71                    | 108699   | .78 | 72.8        | BX195                   | 108732   | 1.96 | 196.8       | CX300                   | 108639   | 4.9  | 300.9       |
| AX90            | 108668   | .59 | 91.3        | BX75                    | 108700   | .82 | 76.8        | BX210                   | 108733   | 2.09 | 211.8       | CX330                   | 108762   | 5.3  | 330.9       |
| AX96            | 108669   | .62 | 97.3        | BX77                    | 108701   | .85 | 78.8        | BX240                   | 108734   | 2.36 | 240.3       | CX360                   | 108764   | 5.8  | 360.9       |



## Double-V (Hex) Belts



- For Serpentine Drives
- Static Conducting
- Oil Resistant

### AA, BB, CC, Double-V (Hex) Belts

| Belt No.        | Part No.      | Wt.  | Datum Lgth. | Belt No.                 | Part No.      | Wt.  | Datum Lgth. | Belt No.                 | Part No.      | Wt.  | Datum Lgth. | Belt No.        | Part No.      | Wt.  | Datum Lgth. |
|-----------------|---------------|------|-------------|--------------------------|---------------|------|-------------|--------------------------|---------------|------|-------------|-----------------|---------------|------|-------------|
| <b>AA BELTS</b> |               |      |             | <b>BB BELTS (CON'T.)</b> |               |      |             | <b>BB BELTS (CON'T.)</b> |               |      |             | <b>CC BELTS</b> |               |      |             |
| AA51            | <b>109125</b> | 0.50 | 53.1        | BB73                     | <b>109209</b> | 3.30 | 75.9        | BB140                    | <b>109223</b> | 2.00 | 142.9       | CC75            | <b>109235</b> | 1.72 | 79.2        |
| AA55            | <b>109087</b> | 0.60 | 57.1        | BB74                     | <b>109210</b> | 1.20 | 76.9        | BB144                    | <b>109091</b> | 2.00 | 146.9       | CC81            | <b>109153</b> | 1.80 | 85.2        |
| AA60            | <b>109126</b> | 0.50 | 62.1        | BB75                     | <b>109138</b> | 1.00 | 77.9        | BB155                    | <b>109202</b> | 2.00 | 157.9       | CC85            | <b>109154</b> | 1.90 | 89.5        |
| AA62            |               | 0.50 | 64.1        | BB76                     |               | 1.00 | 78.9        | BB157                    |               | 2.10 | 159.9       | CC90            | <b>109155</b> | 2.00 | 94.2        |
| AA64            | <b>109120</b> | 0.70 | 66.1        | BB77                     |               | 1.10 | 79.9        | BB158                    | <b>109092</b> | 2.10 | 160.9       | CC96            | <b>109156</b> | 2.20 | 100.2       |
| AA66            | <b>109121</b> | 0.70 | 68.1        | BB81                     | <b>109139</b> | 1.10 | 83.9        | BB160                    |               | 2.20 | 162.9       | CC105           | <b>109157</b> | 2.40 | 109.2       |
| AA68            | <b>109127</b> | 0.50 | 70.1        | BB83                     | <b>109211</b> | 1.10 | 85.9        | BB162                    |               | 2.20 | 164.9       | CC112           | <b>109158</b> | 2.50 | 116.2       |
| AA70            | <b>109122</b> | 0.70 | 72.1        | BB85                     | <b>109140</b> | 1.20 | 87.9        | BB168                    |               | 2.30 | 170.9       | CC119           |               | 2.60 | 123.2       |
| AA75            | <b>109128</b> | 0.60 | 77.1        | BB89                     |               | 1.20 | 91.9        | BB169                    |               | 2.30 | 171.9       | CC120           | <b>109159</b> | 2.70 | 124.2       |
| AA78            | <b>109123</b> | 0.90 | 80.1        | BB90                     | <b>109141</b> | 1.20 | 92.9        | BB170                    |               | 2.30 | 172.9       | CC128           | <b>109160</b> | 2.90 | 132.2       |
| AA80            | <b>109129</b> | 0.60 | 82.1        | BB92                     | <b>109197</b> | 1.20 | 94.9        | BB173                    | <b>109093</b> | 2.30 | 175.9       | CC136           | <b>109236</b> | 3.26 | 140.2       |
| AA85            | <b>109130</b> | 0.71 | 87.1        | BB93                     | <b>109198</b> | 1.20 | 95.9        | BB180                    | <b>109094</b> | 2.40 | 182.9       | CC144           | <b>109161</b> | 3.20 | 148.2       |
| AA90            | <b>109131</b> | 0.80 | 92.1        | BB94                     | <b>109199</b> | 1.20 | 96.9        | BB182                    |               | 2.40 | 184.9       | CC148           | <b>109237</b> | 3.54 | 152.2       |
| AA92            |               | 0.80 | 94.1        | BB96                     |               | 1.30 | 98.9        | BB190                    |               | 2.60 | 192.9       | CC158           | <b>109162</b> | 3.50 | 162.2       |
| AA96            | <b>109132</b> | 0.80 | 98.1        | BB97                     | <b>109142</b> | 1.30 | 99.9        | BB195                    | <b>109148</b> | 2.60 | 197.9       | CC162           | <b>109163</b> | 3.80 | 166.2       |
| AA105           | <b>109133</b> | 0.90 | 107.1       | BB103                    | <b>109213</b> | 1.66 | 105.9       | BB210                    | <b>109149</b> | 2.60 | 212.9       | CC173           | <b>109164</b> | 3.80 | 177.2       |
| AA112           | <b>109134</b> | 0.80 | 114.1       | BB105                    | <b>109143</b> | 1.40 | 107.9       | BB225                    |               | 3.00 | 226.4       | CC180           | <b>109165</b> | 4.00 | 184.2       |
| AA120           | <b>109135</b> | 0.90 | 122.1       | BB107                    | <b>109214</b> | 1.71 | 109.9       | BB226                    | <b>109203</b> | 3.00 | 227.4       | CC195           | <b>109166</b> | 4.30 | 199.2       |
| AA128           | <b>109136</b> | 0.90 | 130.1       | BB108                    | <b>109215</b> | 1.74 | 110.9       | BB228                    | <b>109204</b> | 3.00 | 229.4       | CC210           | <b>109167</b> | 4.70 | 214.2       |
| <b>BB-BELTS</b> |               |      |             | BB111                    | <b>109200</b> | 1.40 | 113.9       | BB230                    | <b>109205</b> | 3.10 | 231.4       | CC225           |               | 5.20 | 229.2       |
| BB42            | <b>109192</b> | 0.60 | 44.9        | BB112                    | <b>109144</b> | 1.60 | 114.9       | BB240                    | <b>109150</b> | 3.20 | 241.4       | CC240           | <b>109168</b> | 5.20 | 242.2       |
| BB43            | <b>109193</b> | 0.60 | 45.9        | BB116                    | <b>109216</b> | 1.60 | 118.9       | BB250                    |               | 3.20 | 251.4       | CC255           |               | 5.90 | 259.2       |
| BB45            | <b>109206</b> | 0.60 | 47.9        | BB117                    |               | 1.60 | 119.9       | BB267                    |               | 3.20 | 268.4       | CC270           | <b>109169</b> | 5.90 | 272.2       |
| BB51            | <b>109088</b> | 0.80 | 53.9        | BB118                    | <b>109218</b> | 1.90 | 120.9       | BB270                    | <b>109151</b> | 3.60 | 271.4       | CC300           | <b>109170</b> | 6.50 | 302.2       |
| BB53            |               | 0.80 | 55.9        | BB120                    | <b>109145</b> | 1.60 | 122.9       | BB273                    |               | 3.60 | 274.4       | CC330           | <b>109171</b> | 7.20 | 332.2       |
| BB54            |               | 0.80 | 56.9        | BB122                    |               | 1.70 | 124.9       | BB277                    |               | 3.60 | 278.4       | CC360           | <b>109172</b> | 7.80 | 362.2       |
| BB55            | <b>109089</b> | 0.80 | 57.9        | BB123                    | <b>109219</b> | 1.70 | 125.9       | BB278                    |               | 3.70 | 279.4       | CC390           | <b>109189</b> | 8.50 | 392.2       |
| BB60            | <b>109090</b> | 0.90 | 62.9        | BB124                    | <b>109220</b> | 1.70 | 126.9       | BB285                    |               | 3.90 | 286.4       | CC420           | <b>109188</b> | 9.10 | 422.2       |
| BB64            |               | 0.90 | 66.9        | BB128                    | <b>109146</b> | 1.80 | 130.9       | BB300                    |               | 4.00 | 301.4       |                 |               |      |             |
| BB68            | <b>109137</b> | 0.90 | 70.9        | BB129                    | <b>109221</b> | 1.80 | 131.9       | BB360                    |               | 4.50 | 361.4       |                 |               |      |             |
| BB71            | <b>109196</b> | 1.00 | 73.9        | BB130                    | <b>109222</b> | 1.80 | 132.9       |                          |               |      |             |                 |               |      |             |
| BB72            | <b>109208</b> | 1.17 | 74.9        | BB136                    | <b>109201</b> | 1.80 | 138.9       |                          |               |      |             |                 |               |      |             |

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

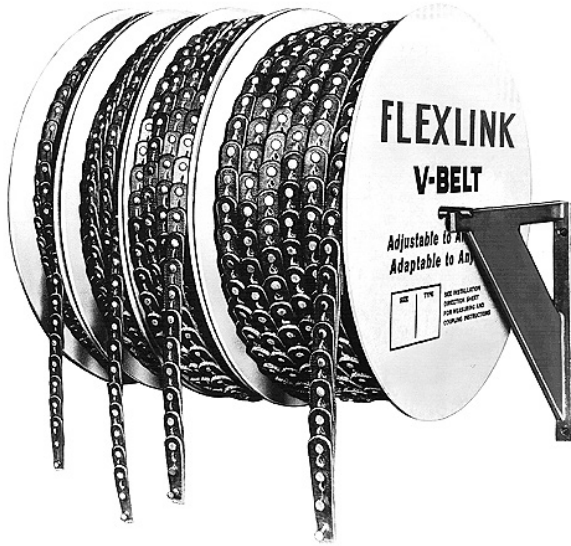
HT500 Synchronous Drives

Roller Chain Sprockets



**SELECTION**

**FLEXLINK Belting**



| Belt Selection | Belt Width | Min. Recommended Sheave Pitch Dia. | Part No. Per Foot* | Wt. Per Ft. |
|----------------|------------|------------------------------------|--------------------|-------------|
| 0/3L           | 3/8        | 2"                                 | 109076             | .14         |
| A/4L           | 1/2        | 2"                                 | 109084             | .15         |
| B/5L           | 21/32      | 4"                                 | 109085             | .19         |
| C              | 7/8        | 6"                                 | 109086             | .35         |

\* 100 Ft reel available

**FLEXLINK BELT APPLICATION GUIDELINES**

1. To obtain link belt length, multiply desired pitch length by .916. This provides correct belt length for initial run-in and seating of belt.
  2. For matched sets of link belts, use the same number of links on each belt.
  3. Do not use link belting above 5000 FPM belt speed.  
Belt speed = .262 x RPM x pitch diameter of sheave.
  4. **Note:** Link belting is not static conducting.  
**Important -**  
For matched sets of link belts use same number of links on each belt.
- Fast installation, installs in a snap
  - Adjustable to any length, adaptable to any drive
  - Reduces vibration
  - Long-lasting construction
  - Reduces inventory - one reel can replace many sizes of standard belting
  - Oil proof construction
  - Order by the foot or by the reel.

V-Drives  
FHP Drives  
Drive Component Accessories  
DYNA-SYNC  
HT200/HTD Synchronous Drives  
HT500 Synchronous Drives  
Roller Chain Sprockets

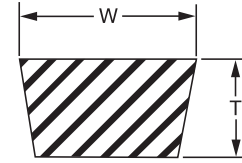
# SELECTION



## FHP Belts



- Oil Resistant
- Static Conducting
- For Fractional HP Single Drive Belts
- Belt Number Indicates Pi8tch Length (eg 4L270 = 27")



| Belt Sect. | W     | T    |
|------------|-------|------|
| 3L         | 3/8   | 7/32 |
| 4L         | 1/2   | 5/16 |
| 5L         | 21/32 | 3/8  |

## 3L, 4L, 5L FHP Belts

| Belt No.        | Part No.      | Wt. | Belt No.                | Part No.      | Wt. | Belt No.                 | Part No.      | Wt. | Belt No.                 | Part No.      | Wt. |
|-----------------|---------------|-----|-------------------------|---------------|-----|--------------------------|---------------|-----|--------------------------|---------------|-----|
| <b>3L BELTS</b> |               |     | <b>3L BELTS (CON'T)</b> |               |     | <b>4L BELTS (CON'T.)</b> |               |     | <b>5L BELTS (CON'T.)</b> |               |     |
| 3L150           | <b>108150</b> | .05 | 3L620                   | <b>108604</b> | .19 | 4L590                    | <b>108043</b> | .32 | 5L400                    | <b>108096</b> | .38 |
| 3L160           | <b>108151</b> | .05 | 3L630                   | <b>108805</b> | .19 | 4L600                    | <b>108044</b> | .33 | 5L410                    | <b>108097</b> | .38 |
| 3L170           | <b>108152</b> | .05 | <b>4L BELTS</b>         |               |     | 4L610                    | <b>108045</b> | .33 | 5L420                    | <b>108098</b> | .40 |
| 3L180           | <b>108153</b> | .06 | 4L170                   | <b>108614</b> | .09 | 4L620                    | <b>108046</b> | .34 | 5L430                    | <b>108099</b> | .41 |
| 3L190           | <b>108154</b> | .06 | 4L180                   | <b>108001</b> | .09 | 4L630                    | <b>108047</b> | .35 | 5L440                    | <b>108100</b> | .42 |
| 3L200           | <b>108155</b> | .06 | 4L188                   | <b>108836</b> | .09 | 4L640                    | <b>108048</b> | .35 | 5L450                    | <b>108101</b> | .43 |
| 3L210           | <b>108156</b> | .06 | 4L190                   | <b>108002</b> | .10 | 4L650                    | <b>108049</b> | .36 | 5L460                    | <b>108102</b> | .44 |
| 3L220           | <b>108157</b> | .07 | 4L200                   | <b>108003</b> | .10 | 4L660                    | <b>108050</b> | .36 | 5L470                    | <b>108103</b> | .45 |
| 3L230           | <b>108158</b> | .07 | 4L210                   | <b>108004</b> | .11 | 4L670                    | <b>108051</b> | .37 | 5L480                    | <b>108104</b> | .46 |
| 3L240           | <b>108159</b> | .07 | 4I220                   | <b>108005</b> | .11 | 4L680                    | <b>108052</b> | .37 | 5L490                    | <b>108105</b> | .47 |
| 3L250           | <b>108160</b> | .08 | 4L230                   | <b>108006</b> | .12 | 4L690                    | <b>108053</b> | .38 | 5L500                    | <b>108106</b> | .48 |
| 3L260           | <b>108161</b> | .08 | 4L240                   | <b>108007</b> | .12 | 4L700                    | <b>108054</b> | .38 | 5L510                    | <b>108107</b> | .49 |
| 3L270           | <b>108162</b> | .08 | 4L250                   | <b>108008</b> | .13 | 4L710                    | <b>108055</b> | .39 | 5L520                    | <b>108108</b> | .50 |
| 3L280           | <b>108163</b> | .09 | 4L260                   | <b>108009</b> | .13 | 4L720                    | <b>108056</b> | .40 | 5L530                    | <b>108109</b> | .51 |
| 3L290           | <b>108164</b> | .09 | 4L270                   | <b>108010</b> | .14 | 4L730                    | <b>108057</b> | .40 | 5L540                    | <b>108110</b> | .52 |
| 3L300           | <b>108165</b> | .09 | 4L275                   | <b>108841</b> | .14 | 4L740                    | <b>108058</b> | .41 | 5L550                    | <b>108111</b> | .53 |
| 3L310           | <b>108166</b> | .10 | 4L280                   | <b>108011</b> | .15 | 4L750                    | <b>108059</b> | .41 | 5L560                    | <b>108112</b> | .54 |
| 3L320           | <b>108167</b> | .10 | 4L290                   | <b>108012</b> | .16 | 4L760                    | <b>108060</b> | .42 | 5L570                    | <b>108113</b> | .55 |
| 3L330           | <b>108168</b> | .10 | 4L300                   | <b>108013</b> | .16 | 4L770                    | <b>108061</b> | .42 | 5L575                    | <b>108873</b> | .55 |
| 3L340           | <b>108169</b> | .10 | 4L310                   | <b>108014</b> | .17 | 4L780                    | <b>108062</b> | .43 | 5L580                    | <b>108114</b> | .56 |
| 3L350           | <b>108170</b> | .11 | 4L320                   | <b>108015</b> | .18 | 4L790                    | <b>108063</b> | .43 | 5L590                    | <b>108115</b> | .57 |
| 3L360           | <b>108171</b> | .11 | 4L330                   | <b>108016</b> | .18 | 4L800                    | <b>108064</b> | .44 | 5L600                    | <b>108116</b> | .58 |
| 3L370           | <b>108172</b> | .11 | 4L340                   | <b>108018</b> | .19 | 4L810                    | <b>108615</b> | .44 | 5L610                    | <b>108117</b> | .59 |
| 3L380           | <b>108173</b> | .12 | 4L350                   | <b>108019</b> | .19 | 4L820                    | <b>108065</b> | .45 | 5L620                    | <b>108118</b> | .60 |
| 3L390           | <b>108174</b> | .12 | 4L360                   | <b>108020</b> | .20 | 4L830                    | <b>108616</b> | .46 | 5L630                    | <b>108119</b> | .61 |
| 3L400           | <b>108175</b> | .12 | 4L370                   | <b>108021</b> | .20 | 4L840                    | <b>108066</b> | .46 | 5L640                    | <b>108120</b> | .61 |
| 3L410           | <b>108176</b> | .13 | 4L380                   | <b>108022</b> | .21 | 4L850                    | <b>108617</b> | .47 | 5L650                    | <b>108121</b> | .62 |
| 3L420           | <b>108177</b> | .13 | 4L390                   | <b>108023</b> | .21 | <b>5L BELTS</b>          |               |     | 5L660                    | <b>108122</b> | .63 |
| 3L430           | <b>108178</b> | .13 | 4L400                   | <b>108024</b> | .22 | 5L230                    | <b>108625</b> | .21 | 5L670                    | <b>108123</b> | .64 |
| 3L440           | <b>108179</b> | .14 | 4L410                   | <b>108025</b> | .23 | 5L240                    | <b>108080</b> | .20 | 5L680                    | <b>108124</b> | .65 |
| 3L450           | <b>108180</b> | .14 | 4L420                   | <b>108026</b> | .23 | 5L250                    | <b>108081</b> | .20 | 5L690                    | <b>108125</b> | .66 |
| 3L460           | <b>108181</b> | .14 | 4L430                   | <b>108027</b> | .24 | 5L260                    | <b>108082</b> | .20 | 5L700                    | <b>108126</b> | .67 |
| 3L470           | <b>108182</b> | .15 | 4L440                   | <b>108028</b> | .24 | 5L265                    | <b>108070</b> | .21 | 5L710                    | <b>108127</b> | .68 |
| 3L480           | <b>108183</b> | .15 | 4L450                   | <b>108029</b> | .25 | 5L270                    | <b>108083</b> | .21 | 5L720                    | <b>108128</b> | .69 |
| 3L490           | <b>108184</b> | .15 | 4L460                   | <b>108030</b> | .25 | 5L280                    | <b>108084</b> | .22 | 5L730                    | <b>108129</b> | .70 |
| 3L500           | <b>108185</b> | .15 | 4L470                   | <b>108031</b> | .26 | 5L290                    | <b>108085</b> | .23 | 5L740                    | <b>108130</b> | .71 |
| 3L510           | <b>108186</b> | .16 | 4L480                   | <b>108032</b> | .26 | 5L300                    | <b>108086</b> | .24 | 5L750                    | <b>108131</b> | .72 |
| 3L520           | <b>108187</b> | .16 | 4L490                   | <b>108033</b> | .27 | 5L310                    | <b>108087</b> | .24 | 5L760                    | <b>108132</b> | .73 |
| 3L530           | <b>108188</b> | .16 | 4L500                   | <b>108034</b> | .27 | 5L320                    | <b>108088</b> | .25 | 5L770                    | <b>108133</b> | .74 |
| 3L540           | <b>108189</b> | .17 | 4L510                   | <b>108035</b> | .28 | 5L330                    | <b>108089</b> | .26 | 5L780                    | <b>108134</b> | .75 |
| 3L550           | <b>108190</b> | .17 | 4L520                   | <b>108036</b> | .29 | 5L340                    | <b>108090</b> | .27 | 5L790                    | <b>108826</b> | .76 |
| 3L560           | <b>108191</b> | .17 | 4L530                   | <b>108037</b> | .29 | 5L350                    | <b>108091</b> | .28 | 5L800                    | <b>108135</b> | .77 |
| 3L570           | <b>108192</b> | .18 | 4L540                   | <b>108038</b> | .30 | 5L360                    | <b>108092</b> | .28 | 5L810                    | <b>108827</b> | .78 |
| 3L580           | <b>108193</b> | .18 | 4L550                   | <b>108039</b> | .30 | 5L365                    | <b>108872</b> | .29 | 5L820                    | <b>108136</b> | .79 |
| 3L590           | <b>108194</b> | .18 | 4L560                   | <b>108040</b> | .31 | 5L370                    | <b>108093</b> | .29 | 5L830                    | <b>108328</b> | .80 |
| 3L600           | <b>108195</b> | .19 | 4L570                   | <b>108041</b> | .31 | 5L380                    | <b>108094</b> | .37 | 5L840                    | <b>108137</b> | .81 |
| 3L610           | <b>108196</b> | .19 | 4L580                   | <b>108042</b> | .32 | 5L390                    | <b>108095</b> | .37 | 5L850                    | <b>108629</b> | .82 |





## SELECTION

### Stock D-V Wedge Drives: Standard Motor Speeds

**Step 1 - Determine Service Factor.** Refer to Typical Service Factors, Table 2. Locate type of Driven and Driver equipment. (If an idler is used, increase the factor by value indicated.) Correct factor is determined by: 1. The extent and frequency of peak loads. 2. Number of operating hours/year (broken down in average hours/day of continuous service). 3. Proper service category (Intermittent, Normal or Continuous). Select the one closest to the application conditions.

**Step 2 - Compute Design HP.** Multiply normal running HP required or nameplate rating by service factor obtained in Step 1.

**Step 3 - Choose Belt Section.** Using Table 1, below, read up from design hp figure obtained in Step 2 and over from the rpm of faster shaft. This intersection indicates belt section.

**Step 4 - Select the Drive.** a). Using belt section from Step 3, refer to Stock Drive Selection Tables beginning on page PT7-48. b). Under appropriate driver speed column find Driven RPM nearest to the desired speed. To the right note HP per Belt. Read left for Driver/Driven Sheave information. (If driver is an electric motor be sure motor sheave diameter is not less than shown in Table 3.) c). Read onto opposite page and find figure nearest the required center distance. Note Arc-Length Correction Factor in the shaded row below the C.D. figure. d). Read to the top of the table for the belt size. e). To determine number of belts, multiply the HP per Belt value by the ArcLength Correction Factor. This is the corrected HP/belt. Divide design HP by corrected HP figure to determine number of belts required.

#### EXAMPLE OF SELECTION

Select a D-V Wedge drive for a positive blower, with a 2-15/16" shaft, to run @ 290 rpm, driven by a 30 hp, 1160 squirrel cage electric motor with a 2-1/8" shaft. Desired center distance is 26". Service is continuous.

**Step 1 -** Service factor from Table 2 is 1.4.

**Step 2 -** Design HP = 1.4x30 = 42 HP.

**Step 3 -** A 5V belt section is shown in Table 1 when reading to the right of 1160 rpm and up from 42 design HP.

**Step 4 -** Turn to 5V Stock Drive Selection Tables. On page PT7-86, under 1160 RPM Driver, read down to find 290 rpm. The nearest appears as 291.

Note HP/belt as 12.8 for all D-V and Polyband belts over 200" and 15.4 for Polyband belts under 200". Also note sheaves listed as 7.1 Driver, 28.0 Driven. Table 3 shows driver is not undersize. Reading toward the right the C.D. figure nearest 26, is 26.4. The correction factor below the C.D. figure is .92. Top of table shows belt size as 5VX 1120.

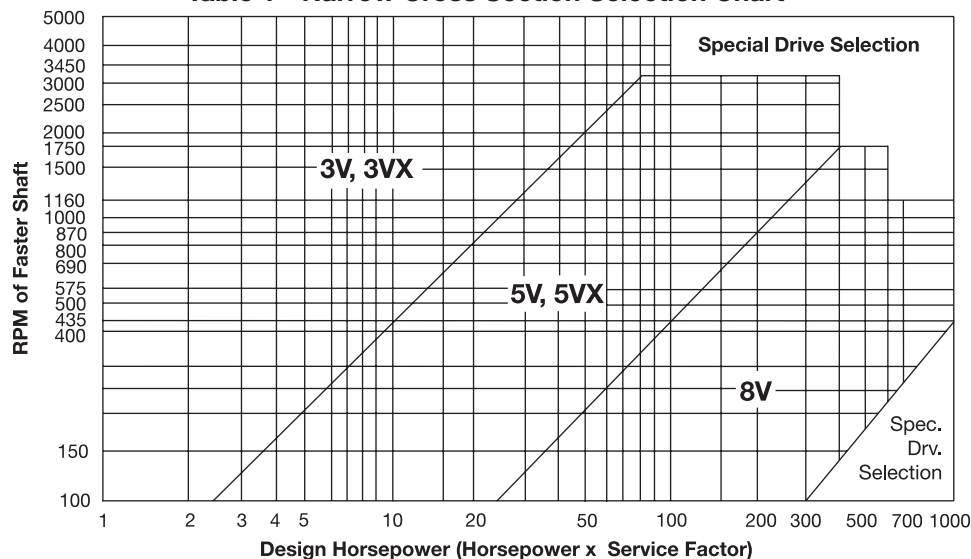
The HP/belt for D-V is 15.4. This value x the .92 factor = 14.2 corrected hp/belt. 42 HP ÷ 14.20 = 2.96. Going to the next whole number, drive requires 3 belts. (Center to center operating distance is 26.4 nominal.)

**Order: 1.** 3-5VX 1120 D-V belts. **2.** 1 - 3/5V7.1-2517

TAPER-LOCK Sheave. **3.** 1 - 2-1/8, bore 2517 bushing.

**4.** 1 - 3/5V28.0-3535 TAPER-LOCK Sheave. **5.** 1 - 2-15/16, bore 3535 bushing.

**Table 1 - Narrow Cross Section Selection Chart**



**NOTE:** Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).





## Service Factor

**Table 2 - Typical Service Factors**

| Driven Machine Types<br>Note: Certain machines may require flywheel sheaves or special construction to withstand heavy shock loads. Consult Mfg'r.  | Driver: Normal Torque<br>NEMA Des. A or B Motors<br>DC Shunt Wound Motors<br>Multi-Cylinder Engines |        |         | Driver: High Torque<br>NEMA Des. C or D Motors<br>DC Series Wound Motors<br>Single Cylinder Engines |        |       |   |
|---|---|--------|---------|---|--------|-------|---|
|   | Service*  |        |         | Service*  |        |       |   |
|   | Intermit.   | Normal | Contin. | Intermit.   | Normal | Cont. |   |
| Agitators for Liquids<br>Blowers and Exhausters<br>Centrif. Pumps, Compressors<br>Fans up to 10HP<br>Light Duty Conveyors   | 1.0   | 1.1    | 1.2     | 1.1   | 1.2    | 1.3   | <b>* Note:</b><br>Intermittent:<br>Up to 6 Hrs./Day<br>Normal:<br>6-16 Hrs./Day<br>Continuous:<br>16-24 Hrs./Day<br>Adder for Idlers:<br>Outside on slack side . . . . . 0.1<br>Inside on tight side . . . . . 0.1<br>Outside on tight side . . . . . 0.2 |
| Belt Conveyors, Bulk Mat'l<br>Dough Mixers<br>Fans over 10 HP<br>Generators<br>Line Shafts<br>Laundry Machinery<br>Machine Tools<br>Punches, Presses, Shears<br>Printing Machinery<br>Positive Displ. Rotary Pumps<br>Revolving & Vibrating Screens | 1.1   | 1.2    | 1.3     | 1.2   | 1.3    | 1.4   |   |
| Brick Machinery<br>Bucket Elevators<br>Exciters<br>Piston Compressors<br>Conveyors: Drag, Pan, Screw<br>Paper Mill Beaters<br>Piston Pumps<br>Pos. Displacement Blowers<br>Pulverizers<br>Saw Mill, Woodworking Mach'y<br>Textile Machinery         | 1.2   | 1.3    | 1.4     | 1.4   | 1.5    | 1.6   |   |
| Crushers: Gyratory, Jaw, Roll<br>Mills: Ball, Rod, Tube<br>Hoists<br>Rubber Calendars, Extruders, Mills<br>Chokable Equipment, Fire Hazard  | 1.3   | 1.4    | 1.5     | 1.6   | 1.7    | 1.8   |   |
|   | 2.0   | 2.0    | 2.0     | 2.0   | 2.0    | 2.0   |   |

**Table 3 - NEMA Min. Sheave Dia. for D-V Wedge Drives**

| Motor |          | Motor Horsepower |     |     |       |     |     |     |       |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |
|-------|----------|------------------|-----|-----|-------|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|
| RPM   | Sheave   | 1/2              | 3/4 | 1   | 1-1/2 | 2   | 3   | 5   | 7-1/2 | 10  | 15  | 20  | 25  | 30  | 40  | 50  | 60   | 75   | 100  | 125  | 150  | 200  | 250  | 300  | 350  | 400  |
| 870   | Min O.D. | 2.2              | 2.4 | 2.4 | 2.4   | 3.0 | 3.0 | 3.8 | 4.4   | 5.2 | 6.0 | 6.8 | 6.8 | 6.8 | 8.2 | 8.4 | 10.0 | 9.5  | 12.0 | 12.5 | 13.2 | 13.2 | 15.0 | ...  | ...  | ...  |
|       | Max F.W. | 2.3              | 2.3 | 2.8 | 2.8   | 3.4 | 3.4 | 4.0 | 4.0   | 4.7 | 4.7 | 5.3 | 5.3 | 5.9 | 5.9 | 7.3 | 7.3  | 8.5  | 8.5  | 8.5  | 11.6 | 11.6 | 11.6 | ...  | ...  | ...  |
| 1160  | Min O.D. | ...              | 2.2 | 2.4 | 2.4   | 2.4 | 3.0 | 3.0 | 3.8   | 4.4 | 4.4 | 5.2 | 6.0 | 6.8 | 6.8 | 8.2 | 9.0  | 10.0 | 10.0 | 12.0 | 13.2 | 13.2 | 13.2 | 15.0 | 14.1 | ...  |
|       | Max F.W. | ...              | 2.3 | 2.3 | 2.8   | 2.8 | 3.4 | 3.4 | 4.0   | 4.0 | 4.7 | 4.7 | 5.3 | 5.3 | 5.9 | 5.9 | 7.3  | 7.3  | 8.5  | 8.5  | 8.5  | 11.6 | 11.6 | 11.6 | 11.6 | ...  |
| 1750  | Min O.D. | ...              | ... | 2.2 | 2.4   | 2.4 | 2.4 | 3.0 | 3.0   | 3.8 | 4.4 | 4.4 | 4.4 | 5.2 | 6.0 | 6.8 | 7.4  | 8.6  | 8.6  | 10.5 | 10.5 | 13.2 | 13.2 | 13.2 | 13.2 | 14.1 |
|       | Max F.W. | ...              | ... | 2.3 | 2.3   | 2.3 | 2.8 | 2.8 | 3.4   | 3.4 | 4.0 | 4.0 | 4.7 | 4.7 | 5.3 | 5.3 | 5.9  | 5.9  | 7.3  | 7.3  | 8.5  | 9.4  | 9.4  | 11.6 | 11.6 | 11.6 |
| 3500  | Min O.D. | ...              | ... | ... | 2.2   | 2.4 | 2.4 | 3.0 | 3.8   | 4.4 | 4.4 | ... | ... | ... | ... | ... | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  |
|       | Max F.W. | ...              | ... | ... | 2.3   | 2.3 | 2.8 | 2.8 | 3.4   | 4.0 | 4.0 | ... | ... | ... | ... | ... | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  |

Data in unshaded area is per NEMA Standard MG1-14.42

Data in shaded area subject to approval of motor manufacturer

F.W. = Face Width of sheave

**NOTE: Selection program VIA-VISA available at [www.ptwizrd.com](http://www.ptwizrd.com).**



# SELECTION

## Stock D-V Wedge Drives: Non-Standard Motor Speeds & Speed-Up Drives.

For Speeds Other Than Standard Motor Speeds:

**Step 1 - Determine Speed Ratio** =  $\left( \frac{\text{Driver RPM}}{\text{Driven RPM}} \right)$

**Step 2 - Compute Design HP.** Multiply normal running HP required or nameplate rating by service factor from Table 2.

**Step 3 - Determine Maximum Diameter** of Driver Sheave

@ 6500 FPM : O.D. =  $\frac{6500 \text{ FPM}}{0.262 * \text{RPM}}$

**Step 4 - Select Belt Cross Section.** Using Table 1, read up from design HP figure obtained in Step 2 and over from the RPM of faster shaft. This intersection indicates belt section.

**Step 5 - Select Drive.** Using the belt section from Step 4, make a tentative sheave selection from **stock drive tables**. (Note that several choices are available in the ratio obtained from Step 1. Other choices close to this ratio may also produce a functional drive.) Read onto opposite page and find figure nearest the required center distance. The Arc-Length correction factor is listed in the shaded row below the C.D. figure. Read to the top of the table for the belt size.

**Step 6 - Size the Drive.** From basic horsepower tables locate HP rating at intersection of RPM of faster shaft row and small sheave column. To this, add the "additional HP" figure based on drive ratio. This becomes the rated HP. Multiply this sum by the arc-length correction factor noted in Step 5. This becomes the corrected HP per belt. To find

Required number of belts :  $\frac{\text{Design HP}}{\text{Correction HP/Belt}}$

### EXAMPLE OF SELECTION

A V-drive is needed for a 30 HP 2200 RPM gasoline engine, with a 2-1/4" dia. shaft, driving a generator, with a 2-7/16" dia. shaft, @ 1800 RPM. It runs 8 hrs. a day. Center distance is 31".

**Step 1 - Speed Ratio** =  $\frac{2200}{1785} = 1.23$

**Step 2 - Service Factor** = 1.2 Design HP = 30 x 1.2 = 36

**Step 3 - Driver Sheave Max. Dia.** =  $\frac{6500}{.262 \times 2200} = 11.3$

**Step 4 - Belt Cross Section** = Table 1 indicates 3VX.

**Step 5 - In 3VX Stock Drive Selection Tables** on pages PT7-66 and PT7-67, find the 1.23 ratio obtained in the Step 1 calculation. At the top of page PT7-64, the most economical drive is shown as 6.5 Driver, 8.0 Driven. The C.D. nearest 31" is 31.1. The correction factor below the C.D. figure is 1.05. Top of the column shows a 3VX850 belt. Refer to Basic HP Tables on page PT7-80 and PT7-81. From the 2200 RPM of faster shaft row and down from the 6.5 smaller sheave heading: 10.2 HP/belt plus an additional hp of .23 in the 1.19 thru 1.26 ratio column. The sum = 10.43 HP/belt x 1.05 arc length correction factor = 10.95 HP/belt.

Number of belts =  $\frac{36}{10.95} = 3.28$  or 4 belts

**Order:** 1- 4 groove 3V 6.5 TAPER-LOCK Sheave, 1-2517 2-1/4" bore bushing, 1-4 groove 8.0 TAPER-LOCK Sheave, 1-2517 2-7/16" bore bushing, 4-3VX850 D-V Wedge Belts.

### Example of a 3V Speed-Up Drive

A 20 HP 1750 RPM AC motor, with a 1-5/8" dia. shaft, is to drive a blower, with a 1-7/16" shaft, @ 2500 RPM. The center distance = 26". Equipment runs 24 hrs./day.

1. Service Factor from Table 2 is 1.2.
2. Design HP=20x1.2=24 HP
3. Speed Ratio =  $\frac{2500}{1750} = 1.43$
4. In Stock Drive Table, under 1.43 ratio, sheaves are listed as 5.6 Driver/8.0 Driven. (In a speed-up drive, the 5.6 sheave becomes the Driven, the 8.0 the Driver.) The opposite page of the table shows the closest center distance as 26.8 with an arc correction factor of 1.03. Belt shown at top of column is 3VX750.
5. From Basic Horsepower Tables a 5.6 sheave @ 2500 RPM = (9.46 + .37) = 9.83. 9.83 X 1.03 arc length correction factor = 10.12 corrected HP/belt.
6. Number of Belts =  $\frac{\text{Design HP}}{\text{Corrected HP}} = \frac{24}{10.12} = 2.37$  or 3 belts.
7. Order: 1-3 groove 3V 8.0 TAPER-LOCK Sheave, 1-15/8" bore 2517 bushing, 1-3 groove 3V 5.6 TAPER-LOCK Sheave, 1-17/16" bore 1610 bushing, 3-3VX750 D-V belts.

**NOTE:** Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

# SELECTION



**Table 4 - Narrow Belt Length Correction Factors**

| Belt Lgth. * | Factor for Belts: |         |         | Belt Lgth. | Factor for Belts: |         |         |
|--------------|-------------------|---------|---------|------------|-------------------|---------|---------|
|              | 3VX               | 5V, 5VX | 8V, 8VX |            | 3VX               | 5V, 5VX | 8V, 8VX |
| 25           | .83               | ...     | ...     | 118        | 1.12              | .99     | .89     |
| 26.5         | .84               | ...     | ...     | 125        | 1.13              | 1.00    | .90     |
| 28           | .85               | ...     | ...     | 132        | 1.14              | 1.01    | .91     |
| 30           | .86               | ...     | ...     | 140        | 1.15              | 1.02    | .92     |
| 31.5         | .87               | ...     | ...     | 150        | 1.16              | 1.03    | .93     |
| 33.5         | .88               | ...     | ...     | 160        | ...               | 1.04    | .94     |
| 35.5         | .89               | ..      | ...     | 170        | ...               | 1.05    | .94     |
| 37.5         | .90               | ..      | ...     | 180        | ...               | 1.06    | .95     |
| 40           | .92               | ...     | ...     | 190        | ...               | 1.07    | .96     |
| 42.5         | .93               | ...     | ...     | 200        | ...               | 1.08    | .97     |
| 45           | .94               | ...     | ...     | 212        | ...               | 1.09    | .98     |
| 47.5         | .95               | ...     | ...     | 224        | ...               | 1.09    | .98     |
| 50           | .96               | .85     | ...     | 236        | ...               | 1.10    | .99     |
| 53           | .97               | .86     | ...     | 250        | ...               | 1.11    | 1.00    |
| 56           | .98               | .87     | ...     | 265        | ...               | 1.12    | 1.01    |
| 60           | .99               | .88     | ...     | 280        | ...               | 1.13    | 1.02    |
| 63           | 1.00              | .89     | ...     | 300        | ...               | 1.14    | 1.03    |
| 67           | 1.01              | .90     | ...     | 315        | ...               | 1.15    | 1.03    |
| 71           | 1.02              | .91     | ...     | 335        | ...               | 1.16    | 1.04    |
| 75           | 1.03              | .92     | ...     | 355        | ...               | 1.17    | 1.05    |
| 80           | 1.04              | .93     | ...     | 375        | ...               | ...     | 1.06    |
| 85           | 1.06              | .94     | ...     | 400        | ...               | ...     | 1.07    |
| 90           | 1.07              | .95     | ...     | 425        | ...               | ...     | 1.08    |
| 95           | 1.08              | .96     | ...     | 450        | ...               | ..      | 1.09    |
| 100          | 1.09              | .96     | .87     | 475        | ...               | ...     | 1.09    |
| 106          | 1.10              | .97     | .88     | 500        | ...               | ...     | 1.10    |
| 112          | 1.11              | .98     | .88     | 560        | ...               | ...     | 1.11    |

\* Outside circumference in inches

**Table 5 - Arc Correction Factors**

| D-d ÷ C | Approx. Arc of Contact on Small Shv. | Factor |
|---------|--------------------------------------|--------|
| .00     | 180°                                 | 1.00   |
| .10     | 174°                                 | .99    |
| .20     | 169°                                 | .97    |
| .30     | 163°                                 | .96    |
| .40     | 157°                                 | .94    |
| .50     | 151°                                 | .93    |
| .60     | 145°                                 | .91    |
| .70     | 139°                                 | .89    |
| .80     | 133°                                 | .87    |
| .90     | 127°                                 | .85    |
| 1.00    | 120°                                 | .82    |
| 1.10    | 113°                                 | .80    |
| 1.20    | 106°                                 | .77    |
| 1.30    | 99°                                  | .73    |
| 1.40    | 91°                                  | .70    |
| 1.50    | 83°                                  | .65    |

‡ D = Dia. of large sheave

d = Dia. of small sheave

C = Center distance

**NOTE:** To determine required belt length when center distance and sheave diameters are known, use the following formula.

$$L = 2C + 1.57 (D + d) + \frac{(D - d)^2}{4c}$$

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets

NOTE: Selection program VIA-VISA available at [www.ptwizrd.com](http://www.ptwizrd.com).



# SELECTION

## 3VX STOCK DRIVE SELECTIONS

| Speed Ratio                           | Stock Sheaves |        | 3500 RPM Driver |         | 1750 RPM Driver |         | 1160 RPM Driver |         | Belt Number and Approx. Center Distance |            |            |            |            |            |            |            |
|---------------------------------------|---------------|--------|-----------------|---------|-----------------|---------|-----------------|---------|---|------------|------------|------------|------------|------------|------------|------------|
|                                       | Diameter      |        | Driven          | HP/Belt | Driven          | HP/Belt | Driven          | HP/Belt | 3VX                                     | 3VX        | 3VX        | 3VX        | 3VX        | 3VX        | 3VX        | 3VX        |
|                                       | Driver        | Driven | RPM             | 3VX     | RPM             | 3VX     | RPM             | 3VX     | 250                                     | 265        | 280        | 300        | 315        | 335        | 355        | 375        |
| 1.00                                  | 2.65          | 2.65   | 3500            | 3.78    | 1750            | 2.15    | 1160            | 1.52    | 8.3                                     | 9.1        | 9.8        | 10.8       | 11.6       | 12.6       | 13.6       | 14.6       |
|                                       | 2.80          | 2.80   | 3500            | 4.25    | 1750            | 2.41    | 1160            | 1.69    | 8.1                                     | 8.9        | 9.6        | 10.6       | 11.4       | 12.4       | 13.4       | 14.4       |
|                                       | 3.00          | 3.00   | 3500            | 4.88    | 1750            | 2.75    | 1160            | 1.93    | 7.8                                     | 8.5        | 9.3        | 10.3       | 11.0       | 12.0       | 13.0       | 14.0       |
|                                       | 3.15          | 3.15   | 3500            | 5.34    | 1750            | 3.01    | 1160            | 2.10    | 7.6                                     | 8.3        | 9.1        | 10.1       | 10.8       | 11.8       | 12.8       | 13.8       |
|                                       | 3.35          | 3.35   | 3500            | 5.96    | 1750            | 3.34    | 1160            | 2.34    | 7.2                                     | 8.0        | 8.7        | 9.7        | 10.5       | 11.5       | 12.5       | 13.5       |
|                                       | 3.65          | 3.65   | 3500            | 6.86    | 1750            | 3.85    | 1160            | 2.68    | 6.8                                     | 7.5        | 8.3        | 9.3        | 10.0       | 11.0       | 12.0       | 13.0       |
|                                       | 4.12          | 4.12   | 3500            | 8.24    | 1750            | 4.63    | 1160            | 3.22    | 6.0                                     | 6.8        | 7.5        | 8.5        | 9.3        | 10.3       | 11.3       | 12.3       |
|                                       | 4.50          | 4.50   | 3500            | 9.32    | 1750            | 5.25    | 1160            | 3.65    | ...                                     | 6.2        | 6.9        | 7.9        | 8.7        | 9.7        | 10.7       | 11.7       |
|                                       | 4.75          | 4.75   | 3500            | 10.01   | 1750            | 5.65    | 1160            | 3.93    | ...                                     | 5.8        | 6.5        | 7.5        | 8.3        | 9.3        | 10.3       | 11.3       |
|                                       | 5.00          | 5.00   | 3500            | 10.68   | 1750            | 6.06    | 1160            | 4.21    | ...                                     | ...        | 6.2        | 7.2        | 7.9        | 8.9        | 9.9        | 10.9       |
|                                       | 5.30          | 5.30   | 3500            | 11.48   | 1750            | 6.53    | 1160            | 4.55    | ...                                     | ...        | ...        | 6.7        | 7.4        | 8.4        | 9.4        | 10.4       |
|                                       | 5.60          | 5.60   | 3500            | 12.25   | 1750            | 7.01    | 1160            | 4.88    | ...                                     | ...        | ...        | ...        | 7.0        | 8.0        | 9.0        | 10.0       |
|                                       | 6.00          | 6.00   | 3500            | 13.24   | 1750            | 7.63    | 1160            | 5.32    | ...                                     | ...        | ...        | ...        | ...        | 7.3        | 8.3        | 9.3        |
|                                       | 6.50          | 6.50   | 3500            | 14.41   | 1750            | 8.40    | 1160            | 5.87    | ...                                     | ...        | ...        | ...        | ...        | ...        | 7.5        | 8.5        |
|                                       | 6.90          | 6.90   | 3500            | 15.30   | 1750            | 9.01    | 1160            | 6.30    | ...                                     | ...        | ...        | ...        | ...        | ...        | ...        | 7.9        |
|                                       | 8.00          | 8.00   | 3500            | 17.48   | 1750            | 10.64   | 1160            | 7.47    | ...                                     | ...        | ...        | ...        | ...        | ...        | ...        | ...        |
| 10.60                                 | 10.60         | 3500   | 20.91           | 1750    | 14.22           | 1160    | 10.13           | ...     | ...                                     | ...        | ...        | ...        | ...        | ...        | ...        |            |
| 1.05                                  | 3.00          | 3.15   | 3331            | 5.00    | 1665            | 2.81    | 1104            | 1.97    | 7.7                                     | 8.4        | 9.2        | 10.2       | 10.9       | 11.9       | 12.9       | 13.9       |
|                                       | 4.75          | 5.00   | 3323            | 10.13   | 1662            | 5.72    | 1101            | 3.97    | ...                                     | ...        | 6.3        | 7.3        | 8.1        | 9.1        | 10.1       | 11.1       |
| 1.06                                  | 2.65          | 2.80   | 3309            | 3.91    | 1655            | 2.22    | 1097            | 1.56    | 8.2                                     | 9.0        | 9.7        | 10.7       | 11.5       | 12.5       | 13.5       | 14.5       |
|                                       | 3.15          | 3.35   | 3288            | 5.49    | 1644            | 3.08    | 1090            | 2.15    | 7.4                                     | 8.1        | 8.9        | 9.9        | 10.6       | 11.6       | 12.6       | 13.6       |
|                                       | 4.50          | 4.75   | 3314            | 9.45    | 1657            | 5.31    | 1098            | 3.70    | ...                                     | 6.0        | 6.7        | 7.7        | 8.5        | 9.5        | 10.5       | 11.5       |
|                                       | 5.00          | 5.30   | 3300            | 10.82   | 1650            | 6.13    | 1094            | 4.26    | ...                                     | ...        | ...        | 6.9        | 7.7        | 8.7        | 9.7        | 10.7       |
|                                       | 5.30          | 5.60   | 3311            | 11.61   | 1655            | 6.60    | 1097            | 4.59    | ...                                     | ...        | ...        | ...        | 7.2        | 8.2        | 9.2        | 10.2       |
|                                       | 6.50          | 6.90   | 3296            | 14.55   | 1648            | 8.48    | 1092            | 5.91    | ...                                     | ...        | ...        | ...        | ...        | ...        | ...        | 8.2        |
| 1.07                                  | 2.80          | 3.00   | 3263            | 4.42    | 1631            | 2.49    | 1081            | 1.75    | 7.9                                     | 8.7        | 9.4        | 10.4       | 11.2       | 12.2       | 13.2       | 14.2       |
|                                       | 5.60          | 6.00   | 3265            | 12.41   | 1632            | 7.09    | 1082            | 4.93    | ...                                     | ...        | ...        | ...        | ...        | 7.6        | 8.6        | 9.6        |
| 1.08                                  | 6.00          | 6.50   | 3229            | 13.42   | 1614            | 7.73    | 1070            | 5.38    | ...                                     | ...        | ...        | ...        | ...        | ...        | 7.9        | 8.9        |
| 1.09                                  | 3.35          | 3.65   | 3208            | 6.15    | 1604            | 3.44    | 1063            | 2.40    | 7.0                                     | 7.8        | 8.5        | 9.5        | 10.3       | 11.3       | 12.3       | 13.3       |
|                                       | 4.12          | 4.50   | 3201            | 8.44    | 1601            | 4.73    | 1061            | 3.29    | 5.7                                     | 6.5        | 7.2        | 8.2        | 9.0        | 10.0       | 11.0       | 12.0       |
| <b>ARC-LENGTH CORRECTION FACTOR →</b> |               |        |                 |         |                 |         |                 |         | <b>.83</b>                              | <b>.84</b> | <b>.85</b> | <b>.86</b> | <b>.87</b> | <b>.88</b> | <b>.89</b> | <b>.90</b> |
| 1.11                                  | 4.50          | 5.00   | 3146            | 9.55    | 1573            | 5.36    | 1043            | 3.73    | ...                                     | 5.8        | 6.5        | 7.5        | 8.3        | 9.3        | 10.3       | 11.3       |
|                                       | 3.00          | 3.35   | 3129            | 5.12    | 1564            | 2.87    | 1037            | 2.01    | 7.5                                     | 8.3        | 9.0        | 10.0       | 10.8       | 11.8       | 12.8       | 13.8       |
|                                       | 4.75          | 5.30   | 3133            | 10.24   | 1567            | 5.77    | 1038            | 4.01    | ...                                     | ...        | 6.1        | 7.1        | 7.9        | 8.9        | 9.9        | 10.9       |
| 1.12                                  | 5.00          | 5.60   | 3122            | 10.93   | 1561            | 6.18    | 1035            | 4.29    | ...                                     | ...        | ...        | 6.7        | 7.4        | 8.4        | 9.4        | 10.4       |
|                                       | 2.65          | 3.00   | 3085            | 4.04    | 1542            | 2.28    | 1022            | 1.60    | 8.1                                     | 8.8        | 9.6        | 10.6       | 11.3       | 12.3       | 13.3       | 14.3       |
|                                       | 2.80          | 3.15   | 3105            | 4.50    | 1552            | 2.53    | 1029            | 1.78    | 7.8                                     | 8.6        | 9.3        | 10.3       | 11.1       | 12.1       | 13.1       | 14.1       |
| 1.13                                  | 3.65          | 4.12   | 3096            | 7.12    | 1548            | 3.98    | 1026            | 2.77    | 6.4                                     | 7.1        | 7.9        | 8.9        | 9.6        | 10.6       | 11.6       | 12.6       |
|                                       | 5.30          | 6.00   | 3088            | 11.74   | 1544            | 6.66    | 1024            | 4.63    | ...                                     | ...        | ...        | 6.9        | 7.9        | 8.9        | 9.9        | ...        |
|                                       | 4.12          | 4.75   | 3031            | 8.53    | 1515            | 4.77    | 1005            | 3.32    | ...                                     | 6.3        | 7.0        | 8.0        | 8.8        | 9.8        | 10.8       | 11.8       |
| 1.15                                  | 6.00          | 6.90   | 3040            | 13.52   | 1520            | 7.78    | 1008            | 5.41    | ...                                     | ...        | ...        | ...        | ...        | ...        | 7.6        | 8.6        |
|                                       | 3.15          | 3.65   | 3014            | 5.64    | 1507            | 3.15    | 999             | 2.20    | 7.2                                     | 7.9        | 8.7        | 9.7        | 10.4       | 11.4       | 12.4       | 13.4       |
| 1.16                                  | 5.60          | 6.50   | 3012            | 12.54   | 1506            | 7.16    | 998             | 4.98    | ...                                     | ...        | ...        | ...        | ...        | 7.2        | 8.2        | 9.2        |
|                                       | 6.90          | 8.00   | 3016            | 15.59   | 1508            | 9.16    | 999             | 6.40    | ...                                     | ...        | ...        | ...        | ...        | ...        | ...        | ...        |
| 1.18                                  | 4.50          | 5.30   | 2967            | 9.63    | 1483            | 5.41    | 983             | 3.76    | ...                                     | ...        | 6.3        | 7.3        | 8.0        | 9.0        | 10.0       | 11.0       |
|                                       | 4.75          | 5.60   | 2964            | 10.33   | 1482            | 5.81    | 982             | 4.04    | ...                                     | ...        | ...        | 6.9        | 7.6        | 8.6        | 9.6        | 10.6       |
| 1.19                                  | 2.65          | 3.15   | 2935            | 4.11    | 1468            | 2.32    | 973             | 1.63    | 7.9                                     | 8.7        | 9.4        | 10.4       | 11.2       | 12.2       | 13.2       | 14.2       |
| 1.20                                  | 2.80          | 3.35   | 2917            | 4.59    | 1458            | 2.58    | 967             | 1.81    | 7.7                                     | 8.4        | 9.2        | 10.2       | 10.9       | 11.9       | 12.9       | 13.9       |
|                                       | 5.00          | 6.00   | 2912            | 11.03   | 1456            | 6.23    | 965             | 4.33    | ...                                     | ...        | ...        | ...        | 7.1        | 8.1        | 9.1        | 10.1       |
| 1.22                                  | 3.00          | 3.65   | 2868            | 5.24    | 1434            | 2.93    | 951             | 2.05    | 7.3                                     | 8.0        | 8.8        | 9.8        | 10.5       | 11.5       | 12.5       | 13.5       |
|                                       | 4.12          | 5.00   | 2878            | 8.59    | 1439            | 4.80    | 954             | 3.34    | ...                                     | 6.1        | 6.8        | 7.8        | 8.6        | 9.6        | 10.6       | 11.6       |

Arc & Length Factors are approximate values  
 Refer to Selection Procedure for more precise values

**NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).**

# SELECTION



## 3VX STOCK DRIVE SELECTIONS

| Speed Ratio | Belt Number and Approx. Center Distance |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |          |          |          |          |          |          |          |          |
|-------------|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|
|             | 3VX 400                                 | 3VX 425 | 3VX 450 | 3VX 475 | 3VX 500 | 3VX 530 | 3VX 560 | 3VX 600 | 3VX 630 | 3VX 670 | 3VX 710 | 3VX 750 | 3VX 800 | 3VX 850 | 3VX 900 | 3VX 950 | 3VX 1000 | 3VX 1060 | 3VX 1120 | 3VX 1180 | 3VX 1250 | 3VX 1320 | 3VX 1400 | 3VX 1500 |
| 1.00        | 15.8                                    | 17.1    | 18.3    | 19.6    | 20.8    | 22.3    | 23.8    | 25.8    | 27.3    | 29.3    | 31.3    | 33.3    | 35.8    | 38.3    | 40.8    | 43.3    | 45.8     | 48.8     | 51.8     | 55       | 58       | 62       | 66       | 71       |
|             | 15.6                                    | 16.9    | 18.1    | 19.4    | 20.6    | 22.1    | 23.6    | 25.6    | 27.1    | 29.1    | 31.1    | 33.1    | 35.6    | 38.1    | 40.6    | 43.1    | 45.6     | 48.6     | 51.6     | 55       | 58       | 62       | 66       | 71       |
|             | 15.3                                    | 16.5    | 17.8    | 19.0    | 20.3    | 21.8    | 23.3    | 25.3    | 26.8    | 28.8    | 30.8    | 32.8    | 35.3    | 37.8    | 40.3    | 42.8    | 45.3     | 48.3     | 51.3     | 54       | 58       | 61       | 65       | 70       |
|             | 15.1                                    | 16.3    | 17.6    | 18.8    | 20.1    | 21.6    | 23.1    | 25.1    | 26.6    | 28.6    | 30.6    | 32.6    | 35.1    | 37.6    | 40.1    | 42.6    | 45.1     | 48.1     | 51.1     | 54       | 58       | 61       | 65       | 70       |
|             | 14.7                                    | 16.0    | 17.2    | 18.5    | 19.7    | 21.2    | 22.7    | 24.7    | 26.2    | 28.2    | 30.2    | 32.2    | 34.7    | 37.2    | 39.7    | 42.2    | 44.7     | 47.7     | 50.7     | 54       | 57       | 61       | 65       | 70       |
|             | 14.3                                    | 15.5    | 16.8    | 18.0    | 19.3    | 20.8    | 22.3    | 24.3    | 25.8    | 27.8    | 29.8    | 31.8    | 34.3    | 36.8    | 39.3    | 41.8    | 44.3     | 47.3     | 50.3     | 53       | 57       | 60       | 64       | 69       |
|             | 13.5                                    | 14.8    | 16.0    | 17.3    | 18.5    | 20.0    | 21.5    | 23.5    | 25.0    | 27.0    | 29.0    | 31.0    | 33.5    | 36.0    | 38.5    | 41.0    | 43.5     | 46.5     | 49.5     | 53       | 56       | 60       | 64       | 69       |
|             | 12.9                                    | 14.2    | 15.4    | 16.7    | 17.9    | 19.4    | 20.9    | 22.9    | 24.4    | 26.4    | 28.4    | 30.4    | 32.9    | 35.4    | 37.9    | 40.4    | 42.9     | 45.9     | 48.9     | 52       | 55       | 59       | 63       | 68       |
|             | 12.5                                    | 13.8    | 15.0    | 16.3    | 17.5    | 19.0    | 20.5    | 22.5    | 24.0    | 26.0    | 28.0    | 30.0    | 32.5    | 35.0    | 37.5    | 40.0    | 42.5     | 45.5     | 48.5     | 52       | 55       | 59       | 63       | 68       |
|             | 12.2                                    | 13.4    | 14.7    | 15.9    | 17.2    | 18.7    | 20.2    | 22.2    | 23.7    | 25.7    | 27.7    | 29.7    | 32.2    | 34.7    | 37.2    | 39.7    | 42.2     | 45.2     | 48.2     | 51       | 55       | 58       | 62       | 67       |
|             | 11.7                                    | 12.9    | 14.2    | 15.4    | 16.7    | 18.2    | 19.7    | 21.7    | 23.2    | 25.2    | 27.2    | 29.2    | 31.7    | 34.2    | 36.7    | 39.2    | 41.7     | 44.7     | 47.7     | 51       | 54       | 58       | 62       | 67       |
|             | 11.2                                    | 12.5    | 13.7    | 15.0    | 16.2    | 17.7    | 19.2    | 21.2    | 22.7    | 24.7    | 26.7    | 28.7    | 31.2    | 33.7    | 36.2    | 38.7    | 41.2     | 44.2     | 47.2     | 50       | 54       | 57       | 61       | 66       |
|             | 10.6                                    | 11.8    | 13.1    | 14.3    | 15.6    | 17.1    | 18.6    | 20.6    | 22.1    | 24.1    | 26.1    | 28.1    | 30.6    | 33.1    | 35.6    | 38.1    | 40.6     | 43.6     | 46.6     | 50       | 53       | 57       | 61       | 66       |
|             | 9.8                                     | 11.0    | 12.3    | 13.5    | 14.8    | 16.3    | 17.8    | 19.8    | 21.3    | 23.3    | 25.3    | 27.3    | 29.8    | 32.3    | 34.8    | 37.3    | 39.8     | 42.8     | 45.8     | 49       | 52       | 56       | 60       | 65       |
| 9.2         | 10.4                                    | 11.7    | 12.9    | 14.2    | 15.7    | 17.2    | 19.2    | 20.7    | 22.7    | 24.7    | 26.7    | 29.2    | 31.7    | 34.2    | 36.7    | 39.2    | 42.2     | 45.2     | 48       | 52       | 55       | 59       | 64       |          |
| ...         | ...                                     | 9.9     | 11.2    | 12.4    | 13.9    | 15.4    | 17.4    | 18.9    | 20.9    | 22.9    | 24.9    | 27.4    | 29.9    | 32.4    | 34.9    | 37.4    | 40.4     | 43.4     | 46       | 50       | 53       | 57       | 62       |          |
| ...         | ...                                     | ...     | ...     | ...     | ...     | ...     | 13.4    | 14.9    | 16.9    | 18.9    | 20.9    | 23.4    | 25.9    | 28.4    | 30.9    | 33.4    | 36.4     | 39.4     | 42       | 46       | 49       | 53       | 58       |          |
| 1.05        | 15.2                                    | 16.4    | 17.7    | 18.9    | 20.2    | 21.7    | 23.2    | 25.2    | 26.7    | 28.7    | 30.7    | 32.7    | 35.2    | 37.7    | 40.2    | 42.7    | 45.2     | 48.2     | 51.2     | 54       | 58       | 61       | 65       | 70       |
|             | 12.3                                    | 13.6    | 14.8    | 16.1    | 17.3    | 18.8    | 20.3    | 22.3    | 23.8    | 25.8    | 27.8    | 29.8    | 32.3    | 34.8    | 37.3    | 39.8    | 42.3     | 45.3     | 48.3     | 51       | 55       | 58       | 62       | 67       |
| 1.06        | 15.7                                    | 17.0    | 18.2    | 19.5    | 20.7    | 22.2    | 23.7    | 25.7    | 27.2    | 29.2    | 31.2    | 33.2    | 35.7    | 38.2    | 40.7    | 43.2    | 45.7     | 48.7     | 51.7     | 55       | 58       | 62       | 66       | 71       |
|             | 14.9                                    | 16.1    | 17.4    | 18.6    | 19.9    | 21.4    | 22.9    | 24.9    | 26.4    | 28.4    | 30.4    | 32.4    | 34.9    | 37.4    | 39.9    | 42.4    | 44.9     | 47.9     | 50.9     | 54       | 57       | 61       | 65       | 70       |
|             | 12.7                                    | 14.0    | 15.2    | 16.5    | 17.7    | 19.2    | 20.7    | 22.7    | 24.2    | 26.2    | 28.2    | 30.2    | 32.7    | 35.2    | 37.7    | 40.2    | 42.7     | 45.7     | 48.7     | 52       | 55       | 59       | 63       | 68       |
|             | 11.9                                    | 13.2    | 14.4    | 15.7    | 16.9    | 18.4    | 19.9    | 21.9    | 23.4    | 25.4    | 27.4    | 29.4    | 31.9    | 34.4    | 36.9    | 39.4    | 41.9     | 44.9     | 47.9     | 51       | 54       | 58       | 62       | 67       |
|             | 11.4                                    | 12.7    | 13.9    | 15.2    | 16.4    | 17.9    | 19.4    | 21.4    | 22.9    | 24.9    | 26.9    | 28.9    | 31.4    | 33.9    | 36.4    | 38.9    | 41.4     | 44.4     | 47.4     | 50       | 54       | 57       | 61       | 66       |
| 9.5         | 10.7                                    | 12.0    | 13.2    | 14.5    | 16.0    | 17.5    | 19.5    | 2.10    | 23.0    | 25.0    | 27.0    | 29.5    | 32.0    | 34.5    | 37.0    | 39.5    | 42.5     | 45.5     | 48       | 52       | 55       | 59       | 64       |          |
| 1.07        | 15.4                                    | 16.7    | 17.9    | 19.2    | 20.4    | 21.9    | 23.4    | 25.4    | 26.9    | 28.9    | 30.9    | 32.9    | 35.4    | 37.9    | 40.4    | 42.9    | 45.5     | 48.4     | 51.4     | 54       | 58       | 61       | 65       | 70       |
|             | 10.9                                    | 12.1    | 13.4    | 14.6    | 15.9    | 17.4    | 18.9    | 20.9    | 22.4    | 24.4    | 26.4    | 28.4    | 30.9    | 33.4    | 35.9    | 38.4    | 40.9     | 43.9     | 46.9     | 50       | 53       | 57       | 61       | 66       |
| 1.08        | 10.2                                    | 11.4    | 12.7    | 13.9    | 15.2    | 16.7    | 18.2    | 20.2    | 21.7    | 23.7    | 25.7    | 27.7    | 30.2    | 32.7    | 35.2    | 37.7    | 40.2     | 43.2     | 46.2     | 49       | 53       | 56       | 60       | 65       |
| 1.09        | 14.5                                    | 15.8    | 17.0    | 18.3    | 19.5    | 21.0    | 22.5    | 24.5    | 26.0    | 28.0    | 30.0    | 32.0    | 34.5    | 37.0    | 39.5    | 42.0    | 44.5     | 47.5     | 50.5     | 54       | 57       | 61       | 65       | 70       |
|             | 13.2                                    | 14.5    | 15.7    | 17.0    | 18.2    | 19.7    | 21.2    | 23.2    | 24.7    | 26.7    | 28.7    | 30.7    | 33.2    | 35.7    | 38.2    | 40.7    | 43.2     | 46.2     | 49.2     | 52       | 56       | 59       | 63       | 68       |
| .92         | .93                                     | .94     | .95     | .96     | .97     | .98     | .99     | 1.00    | 1.01    | 1.02    | 1.03    | 1.04    | 1.05    | 1.06    | 1.07    | 1.08    | 1.09     | 1.10     | 1.11     | 1.12     | 1.13     | 1.14     | 1.16     |          |
| 1.10        | 12.5                                    | 13.8    | 15.0    | 16.3    | 17.5    | 19.0    | 20.5    | 22.5    | 24.0    | 26.0    | 28.0    | 30.0    | 32.5    | 35.0    | 37.5    | 40.0    | 42.5     | 45.5     | 48.5     | 52       | 55       | 59       | 63       | 68       |
| 1.12        | 15.0                                    | 16.3    | 17.5    | 18.8    | 20.0    | 21.5    | 23.0    | 25.0    | 26.5    | 28.5    | 30.5    | 32.5    | 35.0    | 37.5    | 40.0    | 42.5    | 45.0     | 48.0     | 51.0     | 54       | 58       | 61       | 65       | 70       |
|             | 12.1                                    | 13.4    | 14.6    | 15.9    | 17.1    | 18.6    | 20.1    | 22.1    | 23.6    | 25.6    | 27.6    | 29.6    | 32.1    | 34.6    | 37.1    | 39.6    | 42.1     | 45.1     | 48.1     | 51       | 54       | 58       | 62       | 67       |
|             | 11.7                                    | 12.9    | 14.2    | 15.4    | 16.7    | 18.2    | 19.7    | 21.7    | 23.2    | 25.2    | 27.2    | 29.2    | 31.7    | 34.2    | 36.7    | 39.2    | 41.7     | 44.7     | 47.7     | 51       | 55       | 58       | 62       | 67       |
| 1.13        | 15.6                                    | 16.8    | 18.1    | 19.3    | 20.6    | 22.1    | 23.6    | 25.6    | 27.1    | 29.1    | 31.1    | 33.1    | 35.6    | 38.1    | 40.6    | 43.1    | 45.6     | 48.6     | 51.6     | 55       | 58       | 62       | 66       | 71       |
|             | 15.3                                    | 16.6    | 17.8    | 19.1    | 20.3    | 21.8    | 23.3    | 25.3    | 26.8    | 28.8    | 30.8    | 32.8    | 35.3    | 37.8    | 40.3    | 42.8    | 45.3     | 48.3     | 51.3     | 54       | 58       | 61       | 65       | 70       |
|             | 13.9                                    | 15.1    | 16.4    | 17.6    | 18.9    | 20.4    | 21.9    | 23.9    | 25.4    | 27.4    | 29.4    | 31.4    | 33.9    | 36.4    | 38.9    | 41.4    | 43.9     | 46.9     | 49.9     | 53       | 56       | 60       | 64       | 69       |
|             | 11.1                                    | 12.4    | 13.6    | 14.9    | 16.1    | 17.6    | 19.1    | 21.1    | 22.6    | 24.6    | 26.6    | 28.6    | 31.1    | 33.6    | 36.1    | 38.6    | 41.1     | 44.1     | 47.1     | 50       | 54       | 57       | 61       | 66       |
| 1.15        | 13.0                                    | 14.3    | 15.5    | 16.8    | 18.0    | 19.5    | 21.0    | 23.0    | 24.5    | 26.5    | 28.5    | 30.5    | 33.0    | 35.5    | 38.0    | 40.5    | 43.0     | 46.0     | 49.0     | 52       | 56       | 59       | 63       | 68       |
|             | 9.9                                     | 11.1    | 12.4    | 13.6    | 14.9    | 16.4    | 17.9    | 19.9    | 21.4    | 23.4    | 25.4    | 27.4    | 29.9    | 32.4    | 34.9    | 37.4    | 39.9     | 42.9     | 45.9     | 49       | 52       | 56       | 60       | 65       |
| 1.16        | 14.7                                    | 15.9    | 17.2    | 18.4    | 19.7    | 21.2    | 22.7    | 24.7    | 26.2    | 28.2    | 30.2    | 32.2    | 34.7    | 37.2    | 39.7    | 42.2    | 44.7     | 47.7     | 50.7     | 54       | 57       | 61       | 65       | 70       |
|             | 10.5                                    | 11.7    | 13.0    | 14.2    | 15.5    | 17.0    | 18.5    | 20.5    | 22.0    | 24.0    | 26.0    | 28.0    | 30.5    | 33.0    | 35.5    | 38.0    | 40.5     | 43.5     | 46.5     | 49       | 53       | 56       | 60       | 65       |
|             | ...                                     | 9.5     | 10.8    | 12.0    | 13.3    | 14.8    | 16.3    | 18.3    | 19.8    | 21.8    | 23.8    | 25.8    | 28.3    | 30.8    | 33.3    | 35.8    | 38.3     | 41.3     | 44.3     | 47       | 51       | 54       | 58       | 63       |
| 1.18        | 12.3                                    | 13.6    | 14.8    | 16.1    | 17.3    | 18.8    | 20.3    | 22.3    | 23.8    | 25.8    | 27.8    | 29.8    | 32.3    | 34.8    | 37.3    | 39.8    | 42.3     | 45.3     | 48.3     | 51       | 55       | 58       | 62       | 67       |
|             | 11.9                                    | 13.1    | 14.4    | 15.6    | 16.9    | 18.4    | 19.9    | 21.9    | 23.4    | 25.4    | 27.4    | 29.4    | 31.9    | 34.4    | 36.9    | 39.4    | 41.9     | 44.9     | 47.9     | 51       | 54       | 58       | 62       | 67       |
| 1.19        | 15.4                                    | 16.7    | 17.9    | 19.2    | 20.4    | 21.9    | 23.4    | 25.4    | 26.9    | 28.9    | 30.9    | 32.9    | 35.4    | 37.9    | 40.4    | 42.9    | 45.4     | 48.4     | 51.4     | 54       | 58       | 61       | 65       | 70       |
| 1.20        | 15.2                                    | 16.4    | 17.7    | 18.9    | 20.2    | 21.7    | 23.2    | 25.2    | 26.7    | 28.7    | 30.7    | 32.7    | 35.2    | 37.7    | 40.2    | 42.7    | 45.2     | 48.2     | 51.2     | 54       | 58       | 61       | 65       | 70       |
|             | 11.4                                    | 12.6    | 13.9    | 15.1    | 16.4    | 17.9    | 19.4    | 21.4    | 22.9    | 24.9    | 26.9    | 28.9    | 31.4    | 33.9    | 36.4    | 38.9    | 41.4     | 44.4     | 47.4     | 50       | 54       | 58       | 61       | 66       |
| 1.22        | 14.8                                    | 16.0    | 17.3    | 18.5    | 19.8    | 21.3    | 22.8    | 24.8    | 26.3    | 28.3    | 30.3    | 32.3    | 34.8    | 37.3    | 39.8    | 42.3    | 44.8     | 47.8     | 50.8     | 54       | 57       | 61       | 65       | 70       |
|             | 12.8                                    | 14.1    | 15.3    | 16.6    | 17.8    | 19.3    | 20.8    | 22.8    | 24.3    | 26.3    | 28.3    | 30.3    | 32.8    | 35.3    | 37.8    | 40.3    | 42.8     | 45.8     | 48.8     | 52       | 55       | 59       | 63       | 68       |

Arc & Length Factors are approximate values  
Refer to Selection Procedure for more precise values

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).



# SELECTION

## 3VX STOCK DRIVE SELECTIONS

| Speed Ratio                    | Stock Sheaves |        | 3500 RPM Driver |             | 1750 RPM Driver |             | 1160 RPM Driver |             | Belt Number and Approx. Center Distance |         |         |         |         |         |         |         |
|--------------------------------|---------------|--------|-----------------|-------------|-----------------|-------------|-----------------|-------------|---|---------|---------|---------|---------|---------|---------|---------|
|                                | Diameter      |        | Driven RPM      | HP/Belt 3VX | Driven RPM      | HP/Belt 3VX | Driven RPM      | HP/Belt 3VX | 3VX 250                                 | 3VX 265 | 3VX 280 | 3VX 300 | 3VX 315 | 3VX 335 | 3VX 355 | 3VX 375 |
|                                | Driver        | Driven |                 |             |                 |             |                 |             |   |         |         |         |         |         |         |         |
| 1.23                           | 3.35          | 4.12   | 2838            | 6.33        | 1419            | 3.53        | 941             | 2.46        | 6.6                                     | 7.4     | 8.1     | 9.1     | 9.9     | 10.9    | 11.9    | 12.9    |
|                                | 5.30          | 6.5    | 2849            | 11.84       | 1424            | 6.72        | 944             | 4.67        | ...                                     | ...     | ...     | ...     | ...     | 7.5     | 8.5     | 9.5     |
|                                | 5.60          | 6.9    | 2836            | 12.62       | 1418            | 7.19        | 940             | 5.00        | ...                                     | ...     | ...     | ...     | ...     | ...     | 7.9     | 8.9     |
|                                | 6.50          | 8.0    | 2840            | 14.78       | 1420            | 8.59        | 941             | 5.99        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     | ...     |
| 1.24                           | 3.65          | 4.5    | 2831            | 7.23        | 1416            | 4.03        | 938             | 2.81        | 6.1                                     | 6.8     | 7.6     | 8.6     | 9.3     | 10.3    | 11.3    | 12.3    |
| ARC-LENGTH CORRECTION FACTOR → |               |        |                 |             |                 |             |                 |             | .82                                     | .83     | .84     | .86     | .86     | .88     | .89     | .90     |
| 1.25                           | 4.50          | 5.6    | 2806            | 9.70        | 1403            | 5.44        | 930             | 3.78        | ...                                     | ...     | ...     | 7.1     | 7.8     | 8.8     | 9.8     | 10.8    |
|                                | 2.65          | 3.35   | 2758            | 4.18        | 1379            | 2.35        | 914             | 1.65        | 7.8                                     | 8.5     | 9.3     | 10.3    | 11.0    | 12.0    | 13.0    | 14.0    |
| 1.27                           | 4.75          | 6.0    | 2765            | 10.40       | 1382            | 5.85        | 916             | 4.07        | ...                                     | ...     | ...     | 6.5     | 7.3     | 8.3     | 9.3     | 10.3    |
|                                | 4.12          | 5.3    | 2713            | 8.65        | 1357            | 4.83        | 899             | 3.36        | ...                                     | 5.8     | 6.6     | 7.6     | 8.3     | 9.3     | 10.3    | 11.3    |
| 1.30                           | 5.00          | 6.5    | 2686            | 11.11       | 1343            | 6.27        | 890             | 4.35        | ...                                     | ...     | ...     | ...     | ...     | 7.7     | 8.7     | 9.7     |
|                                | 5.30          | 6.9    | 2682            | 11.90       | 1341            | 6.74        | 889             | 4.69        | ...                                     | ...     | ...     | ...     | ...     | 7.1     | 8.1     | 9.1     |
| 1.31                           | 2.80          | 3.65   | 2674            | 4.68        | 1337            | 2.62        | 886             | 1.83        | 7.4                                     | 8.2     | 8.9     | 9.9     | 10.7    | 11.7    | 12.7    | 13.7    |
|                                | 3.15          | 4.12   | 2666            | 5.77        | 1333            | 3.22        | 884             | 2.25        | 6.8                                     | 7.5     | 8.3     | 9.3     | 10.0    | 11.0    | 12.0    | 13.0    |
|                                | 3.65          | 4.75   | 2681            | 7.29        | 1340            | 4.06        | 889             | 2.82        | 5.9                                     | 6.6     | 7.4     | 8.4     | 9.1     | 10.1    | 11.1    | 12.1    |
| 1.32                           | 10.6          | 14.0   | 2647            | 21.34       | 1323            | 14.43       | 877             | 10.27       | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     | ...     |
| 1.33                           | 8.00          | 10.6   | 2637            | 17.92       | 1319            | 10.86       | 874             | 7.61        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     | ...     |
| 1.34                           | 4.50          | 6.0    | 2618            | 9.76        | 1309            | 5.47        | 868             | 3.80        | ...                                     | ...     | ...     | 6.7     | 7.5     | 8.5     | 9.5     | 10.5    |
|                                | 6.00          | 8.0    | 2619            | 13.68       | 1310            | 7.86        | 868             | 5.47        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     | ...     |
| 1.35                           | 3.35          | 4.5    | 2596            | 6.40        | 1298            | 3.57        | 860             | 2.48        | 6.3                                     | 7.1     | 7.8     | 8.8     | 9.6     | 10.6    | 11.6    | 12.6    |
| 1.36                           | 4.12          | 5.6    | 2567            | 8.69        | 1283            | 4.85        | 851             | 3.37        | ...                                     | ...     | 6.3     | 7.3     | 8.1     | 9.1     | 10.1    | 11.1    |
| ARC-LENGTH CORRECTION FACTOR → |               |        |                 |             |                 |             |                 |             | .82                                     | .83     | .84     | .86     | .86     | .88     | .89     | .90     |
| 1.37                           | 3.65          | 5.0    | 2545            | 7.32        | 1273            | 4.08        | 844             | 2.84        | 5.7                                     | 6.4     | 7.2     | 8.2     | 8.9     | 9.9     | 10.9    | 11.9    |
|                                | 4.75          | 6.5    | 2550            | 10.47       | 1275            | 5.88        | 845             | 4.09        | ...                                     | ...     | ...     | ...     | 6.9     | 7.9     | 8.9     | 9.9     |
| 1.38                           | 2.65          | 3.65   | 2528            | 4.24        | 1264            | 2.38        | 838             | 1.67        | 7.5                                     | 8.3     | 9.0     | 10.0    | 10.8    | 11.8    | 12.8    | 13.8    |
|                                | 3.00          | 4.12   | 2537            | 5.34        | 1268            | 2.98        | 841             | 2.08        | 6.9                                     | 7.6     | 8.4     | 9.4     | 10.1    | 11.1    | 12.1    | 13.1    |
|                                | 5.00          | 6.9    | 2529            | 11.15       | 1265            | 6.29        | 838             | 4.37        | ...                                     | ...     | ...     | ...     | ...     | 7.3     | 8.3     | 9.4     |
| 1.42                           | 3.35          | 4.75   | 2457            | 6.44        | 1229            | 3.58        | 814             | 2.50        | 6.1                                     | 6.9     | 7.6     | 8.6     | 9.4     | 10.4    | 11.4    | 12.4    |
| 1.43                           | 5.60          | 8.0    | 2443            | 12.73       | 1222            | 7.25        | 810             | 5.04        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     | ...     |
| 1.44                           | 3.15          | 4.5    | 2438            | 5.83        | 1219            | 3.25        | 808             | 2.26        | 6.5                                     | 7.2     | 8.0     | 9.0     | 9.7     | 10.7    | 11.7    | 12.7    |
| 1.45                           | 4.50          | 6.5    | 2415            | 9.81        | 1207            | 5.49        | 800             | 3.81        | ...                                     | ...     | ...     | ...     | 7.0     | 8.0     | 9.1     | 10.1    |
| 1.46                           | 3.65          | 5.3    | 2400            | 7.35        | 1200            | 4.09        | 795             | 2.85        | ...                                     | 6.2     | 6.9     | 7.9     | 8.7     | 9.7     | 10.7    | 11.7    |
|                                | 4.12          | 6.0    | 2394            | 8.73        | 1197            | 4.87        | 793             | 3.39        | ...                                     | ...     | ...     | 7.0     | 7.7     | 8.8     | 9.8     | 10.8    |
|                                | 4.75          | 6.9    | 2401            | 10.50       | 1201            | 5.90        | 796             | 4.10        | ...                                     | ...     | ...     | ...     | ...     | 7.5     | 8.5     | 9.5     |
| 1.48                           | 2.80          | 4.12   | 2365            | 4.75        | 1182            | 2.66        | 784             | 1.86        | 7.0                                     | 7.8     | 8.5     | 9.5     | 10.3    | 11.3    | 12.3    | 13.3    |
| 1.50                           | 3.35          | 5.0    | 2333            | 6.46        | 1167            | 3.60        | 773             | 2.50        | 5.9                                     | 6.6     | 7.4     | 8.4     | 9.2     | 10.2    | 11.2    | 12.2    |
| 1.51                           | 3.00          | 4.5    | 2320            | 5.39        | 1160            | 3.00        | 769             | 2.10        | 6.6                                     | 7.3     | 8.1     | 9.1     | 9.8     | 10.8    | 11.8    | 12.8    |
|                                | 5.30          | 8.0    | 2311            | 11.99       | 1156            | 6.79        | 766             | 4.72        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     | 8.2     |
| 1.52                           | 3.15          | 4.75   | 2309            | 5.85        | 1154            | 3.26        | 765             | 2.27        | 6.2                                     | 7.0     | 7.8     | 8.8     | 9.5     | 10.5    | 11.5    | 12.5    |
|                                | 3.65          | 5.6    | 2270            | 7.38        | 1135            | 4.11        | 752             | 2.85        | ...                                     | ...     | 6.7     | 7.7     | 8.4     | 9.4     | 10.4    | 11.4    |
|                                | 4.50          | 6.9    | 2274            | 9.83        | 1137            | 5.51        | 754             | 3.82        | ...                                     | ...     | ...     | ...     | ...     | 7.7     | 8.7     | 9.7     |
| 1.54                           | 6.90          | 10.6   | 2273            | 15.81       | 1136            | 9.27        | 753             | 6.47        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     | ...     |
|                                | 2.65          | 4.12   | 2236            | 4.30        | 1118            | 2.41        | 741             | 1.69        | 7.1                                     | 7.9     | 8.7     | 9.7     | 10.4    | 11.4    | 12.4    | 13.4    |
| 1.58                           | 4.12          | 6.5    | 2209            | 8.76        | 1104            | 4.89        | 732             | 3.40        | ...                                     | ...     | ...     | 6.6     | 7.3     | 8.3     | 9.3     | 10.3    |
| 1.59                           | 3.00          | 4.75   | 2197            | 5.41        | 1098            | 3.01        | 728             | 2.10        | 6.4                                     | 7.1     | 7.9     | 8.9     | 9.6     | 10.6    | 11.6    | 12.6    |
|                                | 3.35          | 5.3    | 2200            | 6.48        | 1100            | 3.61        | 729             | 2.51        | 5.6                                     | 6.4     | 7.1     | 8.1     | 8.9     | 9.9     | 10.9    | 11.9    |
| 1.60                           | 3.15          | 5.0    | 2192            | 5.87        | 1096            | 3.27        | 726             | 2.28        | 6.0                                     | 6.8     | 7.5     | 8.6     | 9.3     | 10.3    | 11.3    | 12.3    |
| ARC-LENGTH CORRECTION FACTOR → |               |        |                 |             |                 |             |                 |             | .81                                     | .82     | .83     | .85     | .86     | .87     | .89     | .89     |
| 1.61                           | 5.00          | 8.0    | 2179            | 11.22       | 1090            | 6.32        | 722             | 4.39        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     | 8.4     |
| 1.62                           | 2.80          | 4.5    | 2163            | 4.79        | 1081            | 2.68        | 717             | 1.87        | 6.7                                     | 7.5     | 8.2     | 9.2     | 10.0    | 11.0    | 12.0    | 13.0    |
| 1.64                           | 6.50          | 10.6   | 2140            | 14.95       | 1070            | 8.67        | 709             | 6.04        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     | ...     |
| 1.65                           | 3.65          | 6.0    | 2118            | 7.40        | 1059            | 4.12        | 702             | 2.86        | ...                                     | ...     | 6.3     | 7.3     | 8.1     | 9.1     | 10.1    | 11.1    |
| 1.68                           | 3.00          | 5.0    | 2086            | 5.42        | 1043            | 3.02        | 691             | 2.11        | 6.1                                     | 6.9     | 7.7     | 8.7     | 9.4     | 10.4    | 11.4    | 12.4    |
|                                | 3.35          | 5.6    | 2081            | 6.50        | 1041            | 3.62        | 690             | 2.52        | ...                                     | 6.1     | 6.9     | 7.9     | 8.6     | 9.7     | 10.7    | 11.7    |
|                                | 4.12          | 6.9    | 2080            | 8.78        | 1040            | 4.90        | 689             | 3.40        | ...                                     | ...     | ...     | ...     | 7.0     | 8.0     | 9.0     | 10.0    |
| 1.69                           | 3.15          | 5.3    | 2067            | 5.89        | 1033            | 3.28        | 685             | 2.28        | 5.8                                     | 6.5     | 7.3     | 8.3     | 9.0     | 10.1    | 11.1    | 12.1    |
|                                | 4.75          | 8.0    | 2069            | 10.55       | 1035            | 5.93        | 686             | 4.11        | ...                                     | ...     | ...     | ...     | ...     | ...     | 7.6     | 8.6     |
| 1.71                           | 2.65          | 4.5    | 2045            | 4.33        | 1022            | 2.42        | 678             | 1.70        | 6.8                                     | 7.6     | 8.3     | 9.3     | 10.1    | 11.1    | 12.1    | 13.1    |
| 1.71                           | 2.80          | 4.75   | 2048            | 4.80        | 1024            | 2.68        | 679             | 1.88        | 6.5                                     | 7.3     | 8.0     | 9.0     | 9.8     | 10.8    | 11.8    | 12.8    |
| 1.75                           | 8.00          | 14.0   | 19.95           | 18.04       | 997             | 10.92       | 661             | 7.65        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     | ...     |
| 1.77                           | 6.00          | 10.6   | 1974            | 13.79       | 987             | 7.91        | 654             | 5.51        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     | ...     |
| 1.78                           | 3.00          | 5.3    | 1967            | 5.44        | 983             | 3.03        | 652             | 2.11        | 5.9                                     | 6.6     | 7.4     | 8.4     | 9.2     | 10.2    | 11.2    | 12.2    |
| ARC-LENGTH CORRECTION FACTOR → |               |        |                 |             |                 |             |                 |             | .80                                     | .81     | .82     | .84     | .85     | .86     | .88     | .89     |

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).



# SELECTION



## 3VX STOCK DRIVE SELECTIONS

| Speed Ratio | Belt Number and Approx. Center Distance |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |          |          |          |          |          |          |          |          |
|-------------|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|
|             | 3VX 400                                 | 3VX 425 | 3VX 450 | 3VX 475 | 3VX 500 | 3VX 530 | 3VX 560 | 3VX 600 | 3VX 630 | 3VX 670 | 3VX 710 | 3VX 750 | 3VX 800 | 3VX 850 | 3VX 900 | 3VX 950 | 3VX 1000 | 3VX 1060 | 3VX 1120 | 3VX 1180 | 3VX 1250 | 3VX 1320 | 3VX 1400 | 3VX 1500 |
| 1.23        | 14.1                                    | 15.4    | 16.6    | 17.9    | 19.1    | 20.6    | 22.1    | 24.1    | 25.6    | 27.6    | 29.6    | 31.6    | 34.1    | 36.6    | 39.1    | 41.6    | 44.1     | 47.1     | 50.1     | 53       | 57       | 60       | 64       | 69       |
|             | 10.7                                    | 12.0    | 13.2    | 14.5    | 15.7    | 17.2    | 18.7    | 20.7    | 22.2    | 24.2    | 26.2    | 28.2    | 30.7    | 33.2    | 35.7    | 38.2    | 40.7     | 43.7     | 46.7     | 50       | 53       | 57       | 61       | 66       |
|             | 10.2                                    | 11.4    | 12.7    | 13.9    | 15.2    | 16.7    | 18.2    | 20.2    | 21.7    | 23.7    | 25.7    | 27.7    | 30.2    | 32.7    | 35.2    | 37.7    | 40.2     | 43.2     | 46.2     | 49       | 53       | 56       | 60       | 65       |
|             | 8.6                                     | 9.8     | 11.1    | 12.3    | 13.6    | 15.1    | 16.6    | 18.6    | 20.1    | 22.1    | 24.1    | 26.1    | 28.6    | 31.1    | 33.6    | 36.1    | 38.6     | 41.6     | 44.6     | 48       | 51       | 55       | 59       | 64       |
| 1.24        | 13.6                                    | 14.8    | 16.1    | 17.3    | 18.6    | 20.1    | 21.6    | 23.6    | 25.1    | 27.1    | 29.1    | 31.1    | 33.6    | 36.1    | 38.6    | 41.1    | 43.6     | 46.6     | 49.6     | 53       | 56       | 61       | 64       | 69       |
|             | .91                                     | .92     | .93     | .94     | .95     | .96     | .97     | .99     | 1.00    | 1.01    | 1.02    | 1.03    | 1.04    | 1.05    | 1.06    | 1.07    | 1.08     | 1.09     | 1.10     | 1.11     | 1.12     | 1.13     | 1.14     | 1.15     |
| 1.25        | 12.1                                    | 13.3    | 14.6    | 15.8    | 17.1    | 18.6    | 20.1    | 22.1    | 23.6    | 25.6    | 27.6    | 29.6    | 32.1    | 34.6    | 37.1    | 39.6    | 42.1     | 45.1     | 48.1     | 51       | 55       | 58       | 62       | 67       |
| 1.27        | 15.3                                    | 16.5    | 17.8    | 19.0    | 20.3    | 21.8    | 23.3    | 25.3    | 26.8    | 28.8    | 30.8    | 32.8    | 35.3    | 37.8    | 40.3    | 42.1    | 45.3     | 48.3     | 51.3     | 54       | 58       | 61       | 65       | 70       |
|             | 11.5                                    | 12.8    | 14.0    | 15.3    | 16.5    | 18.1    | 19.6    | 21.6    | 23.1    | 25.1    | 27.1    | 29.1    | 31.6    | 34.1    | 36.6    | 39.1    | 41.6     | 44.6     | 47.6     | 51       | 54       | 58       | 62       | 67       |
| 1.29        | 12.6                                    | 13.8    | 15.1    | 16.3    | 17.6    | 19.1    | 20.6    | 22.6    | 24.1    | 26.1    | 28.1    | 30.1    | 32.6    | 35.1    | 37.6    | 40.1    | 42.6     | 45.6     | 48.6     | 52       | 55       | 59       | 63       | 68       |
| 1.30        | 10.9                                    | 12.2    | 13.5    | 14.7    | 16.0    | 17.5    | 19.0    | 21.0    | 22.5    | 24.5    | 26.5    | 28.5    | 31.0    | 33.5    | 36.0    | 38.5    | 41.0     | 44.0     | 47.0     | 50       | 53       | 57       | 61       | 66       |
|             | 10.4                                    | 11.6    | 12.9    | 14.2    | 15.4    | 16.9    | 18.4    | 20.4    | 21.9    | 23.9    | 25.9    | 27.9    | 30.4    | 32.9    | 35.4    | 37.9    | 40.4     | 43.4     | 46.4     | 49       | 53       | 56       | 60       | 65       |
| 1.31        | 14.9                                    | 16.2    | 17.4    | 18.7    | 19.9    | 21.4    | 22.9    | 24.9    | 26.4    | 28.4    | 30.4    | 32.4    | 34.9    | 37.4    | 39.9    | 42.4    | 44.9     | 47.9     | 50.9     | 54       | 57       | 61       | 65       | 70       |
|             | 14.3                                    | 15.5    | 16.8    | 18.0    | 19.3    | 20.8    | 22.3    | 24.3    | 25.8    | 27.8    | 29.8    | 31.8    | 34.3    | 36.8    | 39.3    | 41.8    | 44.3     | 47.3     | 50.3     | 53       | 57       | 60       | 64       | 69       |
|             | 13.4                                    | 14.6    | 15.9    | 17.1    | 18.4    | 19.9    | 21.4    | 23.4    | 24.9    | 26.9    | 28.9    | 30.9    | 33.4    | 35.9    | 38.4    | 40.9    | 43.4     | 46.4     | 49.4     | 52       | 56       | 59       | 63       | 68       |
| 1.32        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     | ...     | ...     | 14.1    | 16.1    | 18.1    | 20.6    | 23.1    | 25.6    | 28.1    | 30.6     | 33.6     | 36.6     | 40       | 43       | 47       | 51       | 56       |
| 1.33        | ...                                     | ...     | ...     | ...     | ...     | 11.8    | 13.3    | 15.3    | 16.8    | 18.9    | 20.9    | 22.9    | 25.4    | 27.9    | 30.4    | 32.9    | 35.4     | 38.4     | 41.4     | 44       | 48       | 51       | 55       | 60       |
| 1.34        | 11.7                                    | 13.0    | 14.2    | 15.5    | 16.7    | 18.2    | 19.7    | 21.7    | 23.2    | 25.2    | 27.2    | 29.2    | 31.7    | 34.2    | 36.7    | 39.3    | 41.8     | 44.8     | 47.8     | 51       | 54       | 58       | 62       | 67       |
|             | 9.0                                     | 10.2    | 11.5    | 12.7    | 14.0    | 15.5    | 17.0    | 19.0    | 20.5    | 22.5    | 24.5    | 26.5    | 29.0    | 31.5    | 34.0    | 36.5    | 39.0     | 42.0     | 45.0     | 48       | 52       | 55       | 59       | 64       |
| 1.35        | 13.8                                    | 15.1    | 16.3    | 17.6    | 18.8    | 20.3    | 21.8    | 23.8    | 25.3    | 27.3    | 29.3    | 31.3    | 33.8    | 36.3    | 38.8    | 41.3    | 43.8     | 46.8     | 49.8     | 53       | 56       | 60       | 64       | 69       |
| 1.36        | 12.3                                    | 13.6    | 14.9    | 16.1    | 17.4    | 18.9    | 20.4    | 22.4    | 23.9    | 25.9    | 27.9    | 29.9    | 32.4    | 34.9    | 37.4    | 39.9    | 42.4     | 45.4     | 48.4     | 51       | 55       | 58       | 62       | 67       |
|             | .91                                     | .92     | .93     | .94     | .95     | .96     | .97     | .99     | 1.00    | 1.01    | 1.02    | 1.03    | 1.04    | 1.05    | 1.06    | 1.07    | 1.08     | 1.09     | 1.10     | 1.11     | 1.12     | 1.13     | 1.14     | 1.15     |
| 1.37        | 13.2                                    | 14.4    | 15.7    | 16.9    | 18.2    | 19.7    | 21.2    | 23.2    | 24.7    | 26.7    | 28.7    | 30.7    | 33.2    | 35.7    | 38.2    | 40.7    | 43.2     | 46.2     | 49.2     | 52       | 56       | 59       | 63       | 68       |
|             | 11.1                                    | 12.4    | 13.6    | 14.9    | 16.1    | 17.6    | 19.1    | 21.2    | 22.7    | 24.7    | 26.7    | 28.7    | 31.2    | 33.7    | 36.2    | 38.7    | 41.2     | 44.2     | 47.2     | 50       | 54       | 57       | 61       | 66       |
| 1.38        | 15.0                                    | 16.3    | 17.5    | 18.8    | 20.0    | 21.5    | 23.0    | 25.0    | 26.5    | 28.6    | 30.6    | 32.6    | 35.1    | 37.6    | 40.1    | 42.6    | 45.1     | 48.1     | 51.1     | 54       | 58       | 61       | 65       | 70       |
|             | 14.4                                    | 15.7    | 16.9    | 18.2    | 19.4    | 20.9    | 22.4    | 24.4    | 25.9    | 27.9    | 29.9    | 31.9    | 34.4    | 36.9    | 39.4    | 41.9    | 44.4     | 47.4     | 50.4     | 53       | 57       | 60       | 64       | 69       |
|             | 10.6                                    | 11.9    | 13.1    | 14.4    | 15.6    | 17.1    | 18.6    | 20.6    | 22.1    | 24.1    | 26.1    | 28.1    | 30.6    | 33.1    | 35.6    | 38.1    | 40.6     | 43.6     | 46.6     | 50       | 53       | 57       | 61       | 66       |
| 1.42        | 13.6                                    | 14.9    | 16.1    | 17.4    | 18.6    | 20.1    | 21.6    | 23.6    | 25.1    | 27.1    | 29.1    | 31.1    | 33.6    | 36.1    | 38.6    | 41.1    | 43.6     | 46.6     | 49.6     | 53       | 56       | 60       | 64       | 69       |
| 1.43        | 9.2                                     | 10.5    | 11.8    | 13.0    | 14.3    | 15.8    | 17.3    | 19.3    | 20.8    | 22.8    | 24.8    | 26.8    | 29.3    | 31.8    | 34.3    | 36.8    | 39.3     | 42.3     | 45.3     | 48       | 52       | 55       | 59       | 64       |
| 1.44        | 14.0                                    | 15.2    | 16.5    | 17.7    | 19.0    | 20.5    | 22.0    | 24.0    | 25.5    | 27.5    | 29.5    | 31.5    | 34.0    | 36.5    | 39.0    | 41.5    | 44.0     | 47.0     | 50.0     | 53       | 56       | 60       | 64       | 69       |
| 1.45        | 11.3                                    | 12.6    | 13.8    | 15.1    | 16.3    | 17.8    | 19.3    | 21.3    | 22.8    | 24.8    | 26.8    | 28.8    | 31.3    | 33.9    | 36.4    | 38.9    | 41.4     | 44.4     | 47.4     | 50       | 54       | 57       | 61       | 66       |
| 1.46        | 12.9                                    | 14.2    | 15.5    | 16.7    | 18.0    | 19.5    | 21.0    | 23.0    | 24.5    | 26.5    | 28.5    | 30.5    | 33.0    | 35.5    | 38.0    | 40.5    | 43.0     | 46.0     | 49.0     | 52       | 55       | 59       | 63       | 68       |
|             | 12.0                                    | 13.3    | 14.5    | 15.8    | 17.0    | 18.5    | 20.0    | 22.0    | 23.5    | 25.5    | 27.5    | 29.5    | 32.0    | 34.5    | 37.0    | 39.5    | 42.0     | 45.0     | 48.0     | 51       | 55       | 58       | 62       | 67       |
|             | 10.8                                    | 12.1    | 13.3    | 14.6    | 15.8    | 17.3    | 18.8    | 20.8    | 22.3    | 24.3    | 26.3    | 28.3    | 30.8    | 33.3    | 35.8    | 38.3    | 40.8     | 43.8     | 46.8     | 50       | 53       | 57       | 61       | 66       |
| 1.48        | 14.6                                    | 15.8    | 17.1    | 18.3    | 19.6    | 21.1    | 22.6    | 24.6    | 26.1    | 28.1    | 30.1    | 32.1    | 34.6    | 37.1    | 39.6    | 42.1    | 44.6     | 47.6     | 50.6     | 54       | 57       | 61       | 65       | 70       |
| 1.50        | 13.4                                    | 14.7    | 15.9    | 17.2    | 18.4    | 19.9    | 21.4    | 23.4    | 24.9    | 26.9    | 28.9    | 30.9    | 33.4    | 35.9    | 38.4    | 40.9    | 43.4     | 46.4     | 49.4     | 52       | 56       | 59       | 63       | 68       |
| 1.51        | 14.1                                    | 15.3    | 16.6    | 17.8    | 19.1    | 20.6    | 22.1    | 24.1    | 25.6    | 27.6    | 29.6    | 31.6    | 34.1    | 36.6    | 39.1    | 41.6    | 44.1     | 47.1     | 50.1     | 53       | 57       | 60       | 64       | 69       |
|             | 9.5                                     | 10.7    | 12.0    | 13.2    | 14.5    | 16.0    | 17.5    | 19.5    | 21.0    | 23.0    | 25.0    | 27.0    | 29.5    | 32.0    | 34.5    | 37.0    | 39.5     | 42.5     | 45.5     | 49       | 52       | 56       | 60       | 65       |
| 1.52        | 13.8                                    | 15.0    | 16.3    | 17.5    | 18.8    | 20.3    | 21.8    | 23.8    | 25.3    | 27.3    | 29.3    | 31.3    | 33.8    | 36.3    | 38.8    | 41.3    | 43.8     | 46.8     | 49.8     | 53       | 56       | 60       | 64       | 69       |
| 1.54        | 12.7                                    | 14.0    | 15.2    | 16.5    | 17.7    | 19.2    | 20.7    | 22.7    | 24.2    | 26.2    | 28.2    | 30.2    | 32.7    | 35.2    | 37.7    | 40.2    | 42.7     | 45.7     | 48.7     | 52       | 55       | 59       | 63       | 68       |
|             | 11.0                                    | 12.2    | 13.5    | 14.8    | 16.0    | 17.5    | 19.0    | 21.0    | 22.5    | 24.5    | 26.5    | 28.5    | 31.0    | 33.5    | 36.0    | 38.5    | 41.0     | 44.0     | 47.0     | 50       | 54       | 57       | 61       | 66       |
|             | ...                                     | ...     | ...     | ...     | 11.1    | 12.6    | 14.1    | 16.2    | 17.7    | 19.7    | 21.7    | 23.7    | 26.2    | 28.7    | 31.2    | 33.7    | 36.2     | 39.2     | 42.2     | 45       | 49       | 52       | 56       | 61       |
| 1.57        | 14.7                                    | 15.9    | 17.2    | 18.4    | 19.7    | 21.2    | 22.7    | 24.7    | 26.2    | 28.2    | 30.2    | 32.2    | 34.7    | 37.2    | 39.7    | 42.2    | 44.7     | 47.7     | 50.7     | 54       | 57       | 61       | 65       | 70       |
| 1.58        | 11.6                                    | 12.9    | 14.1    | 15.4    | 16.6    | 18.1    | 19.6    | 21.6    | 23.1    | 25.1    | 27.1    | 29.1    | 31.6    | 34.1    | 36.6    | 39.1    | 41.6     | 44.6     | 47.6     | 51       | 54       | 58       | 62       | 67       |
| 1.59        | 13.9                                    | 15.1    | 16.4    | 17.6    | 18.9    | 20.4    | 21.9    | 23.9    | 25.4    | 27.4    | 29.4    | 31.4    | 33.9    | 36.4    | 38.9    | 41.4    | 43.9     | 46.9     | 49.9     | 53       | 56       | 60       | 64       | 69       |
|             | 13.2                                    | 14.4    | 15.7    | 16.9    | 18.2    | 19.7    | 21.2    | 23.2    | 24.7    | 26.7    | 28.7    | 30.7    | 33.2    | 35.7    | 38.2    | 40.7    | 43.2     | 46.2     | 49.2     | 52       | 56       | 59       | 63       | 68       |
| 1.60        | 13.6                                    | 14.8    | 16.1    | 17.3    | 18.6    | 20.1    | 21.6    | 23.6    | 25.1    | 27.1    | 29.1    | 31.1    | 33.6    | 36.1    | 38.6    | 41.1    | 43.6     | 46.6     | 49.6     | 53       | 56       | 60       | 64       | 69       |
|             | .90                                     | .92     | .93     | .94     | .95     | .96     | .97     | .98     | .99     | 1.01    | 1.02    | 1.03    | 1.04    | 1.05    | 1.06    | 1.07    | 1.08     | 1.09     | 1.10     | 1.11     | 1.12     | 1.13     | 1.14     | 1.15     |
| 1.61        | 9.7                                     | 10.9    | 12.2    | 13.5    | 14.7    | 16.2    | 17.7    | 19.7    | 21.2    | 23.2    | 25.3    | 27.3    | 29.8    | 32.3    | 34.8    | 37.3    | 39.8     | 42.8     | 45.8     | 49       | 52       | 56       | 60       | 65       |
| 1.62        | 14.2                                    | 15.5    | 16.7    | 18.0    | 19.3    | 20.8    | 22.3    | 24.3    | 25.8    | 27.8    | 29.8    | 31.8    | 34.3    | 36.8    | 39.3    | 41.8    | 44.3     | 47.3     | 50.3     | 53       | 57       | 60       | 64       | 69       |
| 1.64        | ...                                     | ...     | ...     | 10.1    | 11.4    | 12.9    | 14.4    | 16.4    | 18.0    | 20.0    | 22.0    | 24.0    | 26.5    | 29.0    | 31.5    | 34.0    | 36.5     | 39.5     | 42.5     | 46       | 49       | 53       | 57       | 62       |
| 1.65        | 12.4                                    | 13.6    | 14.9    | 16.1    | 17.4    | 18.9    | 20.4    | 22.4    | 23.9    | 25.9    | 27.9    | 29.9    | 32.4    | 34.9    | 37.4    | 39.9    | 42.4     | 45.4     | 48.4     | 51       | 55       | 58       | 62       | 67       |
| 1.68        | 13.7                                    | 14.9    | 16.2    | 17.4    | 18.7    | 20.2    | 21.7    | 23.7    | 25.2    | 27.2    | 29.2    | 31.2    | 33.7    | 36.2    | 38.7    | 41.2    | 43.7     | 46.7     | 49.7     | 53       | 56       | 60       | 64       | 69       |
|             | 12.9                                    | 14.2    | 15.4    | 16.7    | 17.9    | 19.4    | 20.9    | 22.9    | 24.4    | 26.5    | 28.5    | 30.5    | 33.0    | 35.5    | 38.0    | 40.5    | 43.0     | 46.0     | 49.0     | 52       | 55       | 59       | 63</     |          |





# SELECTION

## 3VX STOCK DRIVE SELECTIONS

| Speed Ratio                    | Stock Sheaves |        | 3500 RPM Driver |             | 1750 RPM Driver |             | 1160 RPM Driver |             | Belt Number and Approx. Center Distance |         |         |         |         |         |         |
|--------------------------------|---------------|--------|-----------------|-------------|-----------------|-------------|-----------------|-------------|---|---------|---------|---------|---------|---------|---------|
|                                | Diameter      |        | Driven RPM      | HP/Belt 3VX | Driven RPM      | HP/Belt 3VX | Driven RPM      | HP/Belt 3VX | 3VX 265                                 | 3VX 280 | 3VX 300 | 3VX 315 | 3VX 335 | 3VX 355 | 3VX 375 |
|                                | Driver        | Driven |                 |             |                 |             |                 |             |   |         |         |         |         |         |         |
| 1.79                           | 3.65          | 6.50   | 1953            | 7.42        | 977             | 4.13        | 647             | 2.87        | ...                                     | ...     | 6.9     | 7.6     | 8.7     | 9.7     | 10.7    |
|                                | 4.50          | 8.00   | 1959            | 9.87        | 980             | 5.53        | 649             | 3.84        | ...                                     | ...     | ...     | ...     | ...     | 7.7     | 8.8     |
| 1.80                           | 2.80          | 5.00   | 1944            | 4.81        | 972             | 2.69        | 644             | 1.88        | 7.0                                     | 7.8     | 8.8     | 9.6     | 10.6    | 11.6    | 12.6    |
|                                | 3.35          | 6.00   | 1941            | 6.52        | 971             | 3.62        | 643             | 2.52        | 5.8                                     | 6.5     | 7.5     | 8.3     | 9.3     | 10.3    | 11.3    |
|                                | 10.60         | 19.00  | 1949            | 21.47       | 974             | 14.50       | 646             | 10.31       | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     |
| 1.81                           | 2.65          | 4.75   | 1936            | 4.34        | 968             | 2.43        | 642             | 1.70        | 7.4                                     | 8.1     | 9.1     | 9.9     | 10.9    | 11.9    | 12.9    |
| 1.88                           | 3.00          | 5.60   | 1860            | 5.45        | 930             | 3.03        | 617             | 2.12        | 6.4                                     | 7.1     | 8.1     | 8.9     | 9.9     | 10.9    | 11.9    |
| 1.90                           | 2.65          | 5.00   | 1838            | 4.35        | 919             | 2.44        | 609             | 1.71        | 7.1                                     | 7.9     | 8.9     | 9.7     | 10.7    | 11.7    | 12.7    |
|                                | 3.65          | 6.90   | 1839            | 7.43        | 920             | 4.13        | 610             | 2.87        | ...                                     | ...     | 6.5     | 7.3     | 8.3     | 9.3     | 10.3    |
|                                | 5.60          | 10.60  | 1841            | 12.81       | 921             | 7.29        | 610             | 5.07        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     |
| 1.91                           | 2.80          | 5.30   | 1833            | 4.82        | 917             | 2.69        | 608             | 1.88        | 6.8                                     | 7.5     | 8.5     | 9.3     | 10.3    | 11.3    | 12.3    |
| 1.92                           | 3.15          | 6.00   | 1824            | 5.91        | 912             | 3.29        | 604             | 2.29        | 5.9                                     | 6.7     | 7.7     | 8.4     | 9.5     | 10.5    | 11.5    |
| 1.95                           | 3.35          | 6.50   | 1791            | 6.53        | 895             | 3.63        | 593             | 2.53        | ...                                     | ...     | 7.1     | 7.9     | 8.9     | 9.9     | 10.9    |
|                                | 4.12          | 8.00   | 1792            | 8.81        | 896             | 4.91        | 594             | 3.41        | ...                                     | ...     | ...     | ...     | ...     | 8.0     | 9.0     |
| 2.01                           | 5.30          | 10.60  | 1742            | 12.05       | 871             | 6.82        | 577             | 4.74        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     |
| 2.02                           | 2.65          | 5.30   | 1733            | 4.36        | 367             | 2.44        | 574             | 1.71        | 6.9                                     | 7.6     | 8.7     | 9.4     | 10.4    | 11.4    | 12.4    |
|                                | 2.80          | 5.60   | 1734            | 4.83        | 867             | 2.70        | 575             | 1.89        | 6.5                                     | 7.3     | 8.3     | 9.0     | 10.1    | 11.1    | 12.1    |
|                                | 3.00          | 6.00   | 1735            | 5.46        | 868             | 3.04        | 575             | 2.12        | 6.0                                     | 6.8     | 7.8     | 8.5     | 9.6     | 10.6    | 11.6    |
| 2.04                           | 6.90          | 14.00  | 1719            | 15.88       | 859             | 9.30        | 570             | 6.49        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     |
| 2.08                           | 3.15          | 6.50   | 1682            | 5.93        | 841             | 3.30        | 558             | 2.30        | ...                                     | 6.2     | 7.2     | 8.0     | 9.0     | 10.0    | 11.0    |
|                                | 3.35          | 6.90   | 1686            | 6.54        | 843             | 3.63        | 559             | 2.53        | ...                                     | ...     | 6.7     | 7.5     | 8.5     | 9.5     | 10.6    |
| ARC-LENGTH CORRECTION FACTOR → |               |        |                 |             |                 |             |                 |             | .81                                     | .82     | .84     | .85     | .86     | .87     | .88     |
| 2.13                           | 2.65          | 5.60   | 1640            | 4.36        | 820             | 2.44        | 543             | 1.71        | 6.6                                     | 7.4     | 8.4     | 9.2     | 10.2    | 11.2    | 12.2    |
|                                | 5.00          | 10.60  | 1642            | 11.27       | 821             | 6.35        | 544             | 4.41        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     |
| 2.16                           | 2.80          | 6.00   | 1618            | 4.84        | 809             | 2.70        | 536             | 1.89        | 6.1                                     | 6.9     | 7.9     | 8.7     | 9.7     | 10.7    | 11.7    |
|                                | 6.50          | 14.00  | 1618            | 14.99       | 809             | 8.70        | 536             | 6.06        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     |
| 2.19                           | 3.00          | 6.50   | 1601            | 5.47        | 800             | 3.04        | 531             | 2.12        | ...                                     | 6.3     | 7.3     | 8.1     | 9.1     | 10.1    | 11.2    |
| 2.21                           | 3.15          | 6.90   | 1584            | 5.93        | 792             | 3.30        | 525             | 2.30        | ...                                     | ...     | 6.9     | 7.6     | 8.7     | 9.7     | 10.7    |
|                                | 3.65          | 8.00   | 1585            | 7.45        | 792             | 4.14        | 525             | 2.88        | ...                                     | ...     | ...     | ...     | 7.3     | 8.3     | 9.3     |
| 2.24                           | 4.75          | 10.60  | 1559            | 10.60       | 780             | 5.95        | 517             | 4.13        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     |
| 2.29                           | 2.65          | 6.00   | 1529            | 4.37        | 765             | 2.45        | 507             | 1.71        | 6.2                                     | 7.0     | 8.0     | 8.8     | 9.8     | 10.8    | 11.8    |
| 2.32                           | 3.00          | 6.90   | 1507            | 5.47        | 754             | 3.05        | 500             | 2.12        | ...                                     | ...     | 7.0     | 7.7     | 8.8     | 9.8     | 10.8    |
| 2.34                           | 6.00          | 14.00  | 1493            | 13.83       | 746             | 7.93        | 495             | 5.52        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     |
| 2.35                           | 2.80          | 6.50   | 1492            | 4.84        | 746             | 2.70        | 495             | 1.89        | ...                                     | 6.4     | 7.5     | 8.2     | 9.3     | 10.3    | 11.3    |
| 2.36                           | 10.6          | 25.00  | 1480            | 21.5        | 740             | 14.51       | 491             | 10.33       | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     |
| 2.37                           | 4.50          | 10.60  | 1476            | 9.91        | 738             | 5.54        | 489             | 3.85        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     |
| 2.38                           | 8.00          | 19.00  | 1468            | 18.07       | 734             | 10.94       | 487             | 7.66        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     |
| 2.41                           | 3.35          | 8.00   | 1453            | 6.55        | 726             | 3.64        | 482             | 2.53        | ...                                     | ...     | ...     | ...     | 7.5     | 8.5     | 9.6     |
| 2.48                           | 2.65          | 6.50   | 1411            | 4.37        | 705             | 2.45        | 468             | 1.71        | 5.7                                     | 6.5     | 7.6     | 8.3     | 9.4     | 10.4    | 11.4    |
| 2.49                           | 2.80          | 6.90   | 1405            | 4.85        | 703             | 2.71        | 466             | 1.89        | ...                                     | 6.0     | 7.1     | 7.9     | 8.9     | 9.9     | 10.9    |
| 2.51                           | 5.60          | 14.00  | 1392            | 12.84       | 696             | 7.31        | 462             | 5.08        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     |
| ARC-LENGTH CORRECTION FACTOR → |               |        |                 |             |                 |             |                 |             | .78                                     | .80     | .82     | .83     | .84     | .86     | .87     |
| 2.56                           | 3.15          | 8.00   | 1365            | 5.94        | 682             | 3.30        | 452             | 2.30        | ...                                     | ...     | ...     | ...     | 7.6     | 8.7     | 9.7     |
| 2.59                           | 4.12          | 10.60  | 1350            | 8.84        | 675             | 4.92        | 448             | 3.42        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     |
| 2.63                           | 2.65          | 6.90   | 1328            | 4.38        | 664             | 2.45        | 440             | 1.72        | ...                                     | 6.1     | 7.2     | 8.0     | 9.0     | 10.0    | 11.0    |
| 2.66                           | 5.30          | 14.00  | 1317            | 12.08       | 659             | 6.83        | 437             | 4.75        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     |
| 2.69                           | 3.00          | 8.00   | 1299            | 5.48        | 649             | 3.05        | 430             | 2.13        | ...                                     | ...     | ...     | 6.6     | 7.7     | 8.8     | 9.8     |
| 2.77                           | 6.90          | 19.00  | 1265            | 15.90       | 633             | 9.31        | 419             | 6.50        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     |
| 2.82                           | 5.00          | 14.00  | 1242            | 11.29       | 621             | 6.36        | 412             | 4.41        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     |
| 2.89                           | 2.80          | 8.00   | 1211            | 4.86        | 605             | 2.71        | 401             | 1.89        | ...                                     | ...     | ...     | 6.8     | 7.8     | 8.9     | 9.9     |
| 2.93                           | 3.65          | 10.60  | 1194            | 7.46        | 597             | 4.15        | 396             | 2.88        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     |
| 2.94                           | 6.50          | 19.00  | 1191            | 15.01       | 596             | 8.71        | 395             | 6.07        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     |
| 2.97                           | 4.75          | 14.00  | 1179            | 10.61       | 590             | 5.95        | 391             | 4.13        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     |
| 3.06                           | 2.65          | 8.00   | 1145            | 4.38        | 572             | 2.45        | 379             | 1.72        | ...                                     | ...     | ...     | 6.9     | 7.9     | 9.0     | 10.0    |
| 3.13                           | 4.50          | 14.00  | 1116            | 9.92        | 558             | 5.55        | 370             | 3.85        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     |
| ARC-LENGTH CORRECTION FACTOR → |               |        |                 |             |                 |             |                 |             | ...                                     | .75     | .78     | .80     | .82     | .84     | .85     |

\* NOTE: Stock belt size 3VX250 not shown

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

# SELECTION



## 3VX STOCK DRIVE SELECTIONS

| Speed Ratio | Belt Number and Approx. Center Distance |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |          |          |          |          |          |          |          |          |
|-------------|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|
|             | 3VX 400                                 | 3VX 425 | 3VX 450 | 3VX 475 | 3VX 500 | 3VX 530 | 3VX 560 | 3VX 600 | 3VX 630 | 3VX 670 | 3VX 710 | 3VX 750 | 3VX 800 | 3VX 850 | 3VX 900 | 3VX 950 | 3VX 1000 | 3VX 1060 | 3VX 1120 | 3VX 1180 | 3VX 1250 | 3VX 1320 | 3VX 1400 | 3VX 1500 |
| 1.79        | 11.9                                    | 13.2    | 15.5    | 15.7    | 17.0    | 18.5    | 20.0    | 22.0    | 23.5    | 25.5    | 27.5    | 29.5    | 32.0    | 34.5    | 37.0    | 39.5    | 42.0     | 45.0     | 48.0     | 51       | 55       | 58       | 62       | 67       |
|             | 10.0                                    | 11.3    | 12.6    | 13.8    | 15.1    | 16.6    | 18.1    | 20.1    | 21.6    | 23.6    | 25.6    | 27.6    | 30.1    | 32.6    | 35.1    | 37.6    | 40.1     | 43.2     | 46.2     | 49       | 53       | 56       | 60       | 65       |
| 1.80        | 13.8                                    | 15.1    | 16.3    | 17.6    | 18.8    | 20.3    | 21.8    | 23.9    | 25.4    | 27.4    | 29.4    | 31.4    | 33.9    | 36.4    | 38.9    | 41.4    | 43.9     | 46.9     | 49.9     | 53       | 56       | 60       | 64       | 69       |
|             | 12.6                                    | 13.8    | 15.1    | 16.4    | 17.6    | 19.1    | 20.6    | 22.6    | 24.1    | 26.1    | 28.1    | 30.1    | 32.6    | 35.1    | 37.6    | 40.1    | 42.6     | 45.6     | 48.6     | 52       | 55       | 59       | 63       | 68       |
| ...         | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     | ...     | ...     | ...     | ...     | ...     | ...     | 18.8    | 21.4    | 23.9    | 26.4     | 29.5     | 32.5     | 36       | 39       | 43       | 47       | 52       |
| 1.81        | 14.2                                    | 15.4    | 16.7    | 17.9    | 19.2    | 20.7    | 22.2    | 24.2    | 25.7    | 27.7    | 29.7    | 31.7    | 34.2    | 36.7    | 39.2    | 41.7    | 44.2     | 47.2     | 50.2     | 53       | 57       | 60       | 64       | 69       |
| 1.88        | 13.2                                    | 14.4    | 15.7    | 16.9    | 18.2    | 19.7    | 21.2    | 23.2    | 24.7    | 26.7    | 28.7    | 30.7    | 33.2    | 35.7    | 38.2    | 40.7    | 43.2     | 46.2     | 49.2     | 52       | 56       | 59       | 63       | 68       |
| 1.90        | 13.9                                    | 15.2    | 16.5    | 17.7    | 19.0    | 20.5    | 22.0    | 24.0    | 25.5    | 27.5    | 29.5    | 31.5    | 34.0    | 36.5    | 39.0    | 41.5    | 44.0     | 47.0     | 50.0     | 53       | 56       | 60       | 64       | 69       |
|             | 11.6                                    | 12.9    | 14.1    | 15.4    | 16.6    | 18.1    | 19.7    | 21.7    | 23.2    | 25.2    | 27.2    | 29.2    | 31.7    | 34.2    | 36.7    | 39.2    | 41.7     | 44.7     | 47.7     | 51       | 54       | 58       | 62       | 67       |
| ...         | ...                                     | 9.5     | 10.7    | 12.0    | 13.6    | 15.1    | 17.1    | 18.6    | 20.6    | 22.6    | 24.7    | 27.2    | 29.7    | 32.2    | 34.7    | 37.2    | 40.2     | 43.2     | 46       | 50       | 53       | 57       | 62       |          |
| 1.91        | 13.6                                    | 14.8    | 16.1    | 17.3    | 18.6    | 20.1    | 21.6    | 23.6    | 25.1    | 27.1    | 29.1    | 31.1    | 33.6    | 36.1    | 38.6    | 41.1    | 43.6     | 46.6     | 49.6     | 53       | 56       | 60       | 64       | 69       |
| 1.92        | 12.7                                    | 14.0    | 15.3    | 16.5    | 17.8    | 19.3    | 20.8    | 22.8    | 24.3    | 26.3    | 28.3    | 30.3    | 32.8    | 35.3    | 37.8    | 40.3    | 42.8     | 45.8     | 48.8     | 52       | 55       | 59       | 63       | 68       |
| 1.95        | 12.2                                    | 13.4    | 14.7    | 15.9    | 17.2    | 18.7    | 20.2    | 22.2    | 23.7    | 25.7    | 27.7    | 29.7    | 32.2    | 34.7    | 37.2    | 39.7    | 42.2     | 45.2     | 48.2     | 51       | 55       | 58       | 62       | 67       |
|             | 10.3                                    | 11.6    | 12.8    | 14.1    | 15.4    | 16.9    | 18.4    | 20.4    | 21.9    | 23.9    | 25.9    | 27.9    | 30.4    | 32.9    | 35.4    | 37.9    | 40.4     | 43.4     | 46.4     | 49       | 53       | 56       | 60       | 65       |
| 2.01        | ...                                     | ...     | 9.7     | 10.9    | 12.2    | 13.8    | 15.3    | 17.3    | 18.8    | 20.9    | 22.9    | 24.9    | 27.4    | 29.9    | 32.4    | 34.9    | 37.4     | 40.4     | 43.4     | 46       | 50       | 53       | 58       | 62       |
| 2.02        | 13.7                                    | 15.0    | 16.2    | 17.5    | 18.7    | 20.2    | 21.7    | 23.7    | 25.2    | 27.2    | 29.2    | 31.2    | 33.7    | 36.2    | 38.7    | 41.2    | 43.7     | 46.7     | 49.7     | 53       | 56       | 60       | 64       | 69       |
|             | 13.3                                    | 14.6    | 15.8    | 17.1    | 18.4    | 19.9    | 21.4    | 23.4    | 24.9    | 26.9    | 28.9    | 30.9    | 33.4    | 35.9    | 38.4    | 40.9    | 43.4     | 46.4     | 49.4     | 52       | 56       | 59       | 63       | 68       |
| ...         | 12.8                                    | 14.1    | 15.4    | 16.6    | 17.9    | 19.4    | 20.9    | 22.9    | 24.4    | 26.4    | 28.4    | 30.4    | 32.9    | 35.4    | 37.9    | 40.4    | 42.9     | 45.9     | 48.9     | 52       | 55       | 59       | 63       | 68       |
| 2.04        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     | 13.1    | 14.7    | 16.7    | 18.8    | 20.8    | 23.3    | 25.8    | 28.4    | 30.9    | 33.4     | 36.4     | 39.4     | 42       | 46       | 49       | 53       | 58       |
| 2.08        | 12.3                                    | 13.6    | 14.8    | 16.1    | 17.3    | 18.9    | 20.4    | 22.4    | 23.9    | 25.9    | 27.9    | 29.9    | 32.4    | 34.9    | 37.4    | 39.9    | 42.4     | 45.4     | 48.4     | 51       | 55       | 58       | 62       | 67       |
|             | 11.8                                    | 13.1    | 14.3    | 15.6    | 16.9    | 18.4    | 19.9    | 21.9    | 23.4    | 25.4    | 27.4    | 29.4    | 31.9    | 34.4    | 36.9    | 39.4    | 41.9     | 44.9     | 47.9     | 51       | 54       | 58       | 64       | 67       |
| ...         | .90                                     | .91     | .92     | .93     | .94     | .95     | .97     | .98     | .99     | 1.00    | 1.01    | 1.02    | 1.03    | 1.05    | 1.06    | 1.07    | 1.08     | 1.09     | 1.10     | 1.11     | 1.12     | 1.13     | 1.14     | 1.15     |
| 2.13        | 13.4                                    | 14.7    | 16.0    | 17.2    | 18.5    | 20.0    | 21.5    | 23.5    | 25.0    | 27.0    | 29.0    | 31.0    | 33.5    | 36.0    | 38.5    | 41.0    | 43.5     | 46.5     | 49.5     | 53       | 56       | 60       | 63       | 69       |
|             | ...                                     | ...     | 9.9     | 11.2    | 12.4    | 14.0    | 15.5    | 17.5    | 19.0    | 21.1    | 23.1    | 25.1    | 27.6    | 30.1    | 32.6    | 35.1    | 37.6     | 40.7     | 43.7     | 47       | 50       | 54       | 58       | 63       |
| 2.16        | 13.0                                    | 14.3    | 15.5    | 16.8    | 18.0    | 19.5    | 21.0    | 23.0    | 24.5    | 26.5    | 28.5    | 30.6    | 33.1    | 35.6    | 38.1    | 40.6    | 43.1     | 46.1     | 49.1     | 52       | 56       | 59       | 63       | 68       |
|             | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     | 13.4    | 14.9    | 17.0    | 19.0    | 21.1    | 23.6    | 26.1    | 28.7    | 31.2    | 33.7     | 36.7     | 39.7     | 43       | 46       | 50       | 54       | 59       |
| 2.19        | 12.4                                    | 13.7    | 14.9    | 16.2    | 17.5    | 19.0    | 20.5    | 22.5    | 24.0    | 26.0    | 28.0    | 30.0    | 32.5    | 35.0    | 37.5    | 40.0    | 42.5     | 45.5     | 48.5     | 52       | 55       | 59       | 63       | 68       |
| 2.21        | 12.0                                    | 13.2    | 14.5    | 15.7    | 17.0    | 18.5    | 20.0    | 22.0    | 23.5    | 25.5    | 27.5    | 29.6    | 32.1    | 34.6    | 37.1    | 39.6    | 42.1     | 45.1     | 48.1     | 50       | 55       | 58       | 61       | 67       |
|             | 10.6                                    | 11.9    | 13.2    | 14.4    | 15.7    | 17.2    | 18.7    | 20.7    | 22.2    | 24.3    | 26.3    | 28.3    | 30.8    | 33.3    | 35.8    | 38.3    | 40.8     | 43.8     | 46.8     | 50       | 53       | 57       | 61       | 66       |
| 2.24        | ...                                     | ...     | 10.0    | 11.3    | 12.6    | 14.1    | 15.7    | 17.7    | 19.2    | 21.2    | 23.3    | 25.3    | 27.8    | 30.3    | 32.8    | 35.3    | 37.8     | 40.8     | 43.9     | 47       | 50       | 54       | 58       | 63       |
| 2.29        | 13.1                                    | 14.4    | 15.6    | 16.9    | 18.1    | 19.6    | 21.1    | 23.1    | 24.7    | 26.7    | 28.7    | 30.7    | 33.2    | 35.7    | 38.2    | 40.7    | 43.2     | 46.2     | 49.2     | 52       | 56       | 59       | 63       | 68       |
| 2.32        | 12.1                                    | 13.3    | 14.6    | 15.9    | 17.1    | 18.6    | 20.1    | 22.1    | 23.6    | 25.7    | 27.7    | 29.7    | 32.2    | 34.7    | 37.2    | 39.7    | 42.2     | 45.2     | 48.2     | 51       | 55       | 58       | 62       | 67       |
| 2.34        | ...                                     | ...     | ...     | ...     | ...     | ...     | 11.6    | 13.7    | 15.3    | 17.3    | 19.4    | 21.4    | 24.0    | 26.5    | 29.0    | 31.5    | 34.1     | 37.1     | 40.1     | 43       | 47       | 50       | 54       | 59       |
| 2.35        | 12.6                                    | 13.8    | 15.1    | 16.3    | 17.6    | 19.1    | 20.6    | 22.6    | 24.1    | 26.1    | 28.1    | 30.1    | 32.6    | 35.2    | 37.7    | 40.2    | 42.7     | 45.7     | 48.7     | 52       | 55       | 59       | 63       | 68       |
| 2.36        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     | ...     | ...     | ...     | ...     | ...     | ...     | ...     | ...     | ...     | 20.8     | 24.0     | 27.1     | 30       | 34       | 37       | 41       | 46       |
| 2.37        | ...                                     | 8.9     | 10.2    | 11.5    | 12.8    | 14.3    | 15.9    | 17.9    | 19.4    | 21.4    | 23.4    | 25.5    | 28.0    | 30.5    | 33.0    | 35.5    | 38.0     | 41.0     | 44.0     | 47       | 51       | 54       | 58       | 63       |
| 2.38        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     | ...     | ...     | ...     | ...     | 15.3    | 18.0    | 20.6    | 23.2    | 25.7    | 28.3     | 31.3     | 34.4     | 37       | 41       | 44       | 48       | 54       |
| 2.41        | 10.8                                    | 12.1    | 13.4    | 14.7    | 15.9    | 17.4    | 18.9    | 21.0    | 22.5    | 24.5    | 26.5    | 28.5    | 31.0    | 33.5    | 36.0    | 38.5    | 41.0     | 44.0     | 47.0     | 50       | 54       | 57       | 61       | 66       |
| 2.48        | 12.7                                    | 13.9    | 15.2    | 16.5    | 17.7    | 19.2    | 20.7    | 22.7    | 24.2    | 26.2    | 28.3    | 30.3    | 32.8    | 35.3    | 37.8    | 40.3    | 42.8     | 45.8     | 48.8     | 52       | 55       | 59       | 63       | 68       |
| 2.49        | 12.2                                    | 13.5    | 14.7    | 16.0    | 17.3    | 18.8    | 20.3    | 22.3    | 23.8    | 25.8    | 27.8    | 29.8    | 32.3    | 34.8    | 37.3    | 39.8    | 42.3     | 45.3     | 48.3     | 51       | 55       | 58       | 62       | 67       |
| 2.51        | ...                                     | ...     | ...     | ...     | ...     | ...     | 11.9    | 14.0    | 15.5    | 17.6    | 19.7    | 21.7    | 24.3    | 26.8    | 29.3    | 31.8    | 34.4     | 37.4     | 40.4     | 43       | 47       | 50       | 54       | 59       |
| ...         | .89                                     | .90     | .91     | .92     | .93     | .95     | .96     | .97     | .98     | .99     | 1.01    | 1.02    | 1.03    | 1.04    | 1.05    | 1.06    | 1.07     | 1.08     | 1.10     | 1.11     | 1.12     | 1.13     | 1.14     | 1.15     |
| 2.56        | 11.0                                    | 12.3    | 13.5    | 14.8    | 16.1    | 17.6    | 19.1    | 21.1    | 22.6    | 24.6    | 26.6    | 28.6    | 31.2    | 33.7    | 36.2    | 38.7    | 41.2     | 44.2     | 47.2     | 50       | 54       | 57       | 61       | 66       |
| 2.59        | ...                                     | 9.1     | 10.4    | 11.7    | 13.0    | 14.6    | 16.1    | 18.2    | 19.7    | 21.7    | 23.7    | 25.7    | 28.3    | 30.8    | 33.3    | 35.8    | 38.3     | 41.3     | 44.3     | 47       | 51       | 54       | 58       | 63       |
| 2.63        | 12.3                                    | 13.6    | 14.9    | 16.1    | 17.4    | 18.9    | 20.4    | 22.4    | 23.9    | 25.9    | 27.9    | 29.9    | 32.4    | 34.9    | 37.4    | 39.9    | 42.5     | 45.5     | 48.5     | 51       | 55       | 58       | 62       | 67       |
| 2.66        | ...                                     | ...     | ...     | ...     | ...     | ...     | 12.1    | 14.2    | 15.7    | 17.8    | 19.9    | 21.9    | 24.5    | 27.0    | 29.5    | 32.1    | 34.6     | 37.6     | 40.6     | 44       | 47       | 51       | 55       | 60       |
| 2.69        | 11.1                                    | 12.4    | 13.6    | 14.9    | 16.2    | 17.7    | 19.2    | 21.2    | 22.7    | 24.7    | 26.7    | 28.8    | 31.3    | 33.8    | 36.3    | 38.8    | 41.3     | 44.3     | 47.3     | 50       | 54       | 57       | 61       | 66       |
| 2.77        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     | ...     | ...     | ...     | ...     | 16.0    | 18.7    | 21.3    | 23.9    | 26.5    | 29.0     | 32.1     | 35.1     | 38       | 42       | 45       | 49       | 54       |
| 2.82        | ...                                     | ...     | ...     | ...     | ...     | ...     | 12.3    | 14.4    | 16.0    | 18.0    | 20.1    | 22.1    | 24.7    | 27.2    | 29.7    | 32.3    | 34.8     | 37.8     | 40.8     | 44       | 47       | 51       | 55       | 60       |
| 2.89        | 11.2                                    | 12.5    | 13.8    | 15.0    | 16.3    | 17.8    | 19.3    | 21.4    | 22.9    | 24.9    | 26.9    | 28.9    | 31.4    | 33.9    | 36.4    | 38.9    | 41.4     | 44.4     | 47.5     | 50       | 54       | 57       | 61       | 66       |
| 2.93        | ...                                     | 9.4     | 10.8    | 12.1    | 13.4    | 14.9    | 16.4    | 18.5    | 20.0    | 22.0    | 24.1    | 26.1    | 28.6    | 31.1    | 33.6    | 36.1    | 38.7     | 41.7     | 44.7     | 48       | 51       | 55       | 59       | 64       |
| 2.94        | ...                                     | ...     | ...     | ...     | ...     | ...     | ...     | ...     | ...     | ...     | ...     | 16.3    | 19.0    | 21.6    | 24.2    | 26.8    | 29.3     | 32.4     | 35.4     | 38       | 42       | 46       | 50       | 55       |
| 2.97        | ...                                     | ...     | ...     | ...     | ...     | ...     | 12.4    | 14.5    | 16.1    | 18.2    | 20.3    | 22.3    | 24.9    | 27.4    | 29.9    | 32.5    | 35.0     | 38.0     | 41.0     | 44       | 48       | 51       | 55       | 60       |
| 3.06        | 11.3                                    | 12.6    | 13.9    | 15.1    | 16.4    | 17.9    | 19.5    | 21.5    | 23.0    | 25.0    | 27.0    | 29.0    | 31.5    | 34.0    | 36.5    | 39.0    | 41.6     | 44.6     | 47.6     | 51       | 54       | 58       | 62       | 67       |
| 3.13        | ...                                     | ...     | ...     | ...     | ...     | 10.9    | 12.6    | 14.7    | 16.3    | 18.4    | 20.4    | 22.5    | 25.0    | 27.6    | 30.1    | 32.6    | 35.2     | 38.2     | 41.2     | 44       | 48       | 51       | 55       | 60       |
| ...         | .87                                     | .89     | .90     | .91     | .92     | .94     | .95     | .96     | .97     | .99     | 1.00    | 1.01    |         |         |         |         |          |          |          |          |          |          |          |          |



# SELECTION

## 3VX STOCK DRIVE SELECTIONS

| Speed Ratio                    | Stock Sheaves |        | 3500 RPM Driver |             | 1750 RPM Driver |             | 1160 RPM Driver |             | Belt Number and Approx. Center Distance |         |         |         |
|--------------------------------|---------------|--------|-----------------|-------------|-----------------|-------------|-----------------|-------------|---|---------|---------|---------|
|                                | Outside Diam. |        | Driven RPM      | HP/Belt 3VX | Driven RPM      | HP/Belt 3VX | Driven RPM      | HP/Belt 3VX | 3VX 425                                 | 3VX 450 | 3VX 475 | 3VX 500 |
|                                | Driver        | Driven |                 |             |                 |             |                 |             |   |         |         |         |
| 3.14                           | 8.00          | 25.00  | 1115            | 18.09       | 558             | 10.94       | 370             | 7.67        | ...                                     | ...     | ...     | ...     |
| 3.17                           | 10.60         | 33.50  | 1104            | 21.52       | 552             | 14.52       | 366             | 10.33       | ...                                     | ...     | ...     | ...     |
| 3.18                           | 6.00          | 19.00  | 1099            | 13.84       | 549             | 7.94        | 364             | 5.52        | ...                                     | ...     | ...     | ...     |
| 3.20                           | 3.35          | 10.60  | 1095            | 6.56        | 547             | 3.65        | 363             | 2.54        | 9.6                                     | 10.9    | 12.3    | 13.6    |
| 3.40                           | 3.15          | 10.60  | 1028            | 5.95        | 514             | 3.31        | 341             | 2.31        | 9.7                                     | 11.1    | 12.4    | 13.7    |
| 3.41                           | 5.60          | 19.00  | 1025            | 12.85       | 513             | 7.31        | 340             | 5.08        | ...                                     | ...     | ...     | ...     |
| 3.43                           | 4.12          | 14.00  | 1021            | 8.85        | 511             | 4.93        | 338             | 3.42        | ...                                     | ...     | ...     | ...     |
| 3.58                           | 3.00          | 10.60  | 979             | 5.49        | 489             | 3.05        | 324             | 2.13        | 9.8                                     | 11.2    | 12.5    | 13.8    |
| 3.61                           | 5.30          | 19.00  | 970             | 12.09       | 485             | 6.84        | 321             | 4.75        | ...                                     | ...     | ...     | ...     |
| 3.64                           | 6.90          | 25.00  | 961             | 15.91       | 480             | 9.32        | 318             | 6.50        | ...                                     | ...     | ...     | ...     |
| 3.83                           | 5.00          | 19.00  | 914             | 11.29       | 457             | 6.36        | 303             | 4.42        | ...                                     | ...     | ...     | ...     |
| 3.84                           | 2.80          | 10.60  | 912             | 4.86        | 456             | 2.71        | 302             | 1.90        | 10.0                                    | 11.3    | 12.6    | 13.9    |
| ARC-LENGTH CORRECTION FACTOR → |               |        |                 |             |                 |             |                 |             | .88                                     | .89     | .91     | .92     |
| 3.87                           | 6.50          | 25.00  | 905             | 15.02       | 452             | 8.71        | 300             | 6.07        | ...                                     | ...     | ...     | ...     |
| 3.88                           | 3.65          | 14.00  | 903             | 7.47        | 452             | 4.15        | 299             | 2.89        | ...                                     | ...     | ...     | ...     |
| 4.03                           | 4.75          | 19.00  | 868             | 10.62       | 434             | 5.96        | 288             | 4.14        | ...                                     | ...     | ...     | ...     |
| 4.06                           | 2.65          | 10.60  | 863             | 4.39        | 431             | 2.46        | 286             | 1.72        | 10.1                                    | 11.4    | 12.7    | 14.0    |
| 4.19                           | 6.00          | 25.00  | 835             | 13.85       | 417             | 7.94        | 277             | 5.52        | ...                                     | ...     | ...     | ...     |
| 4.21                           | 8.00          | 33.50  | 832             | 18.09       | 416             | 10.95       | 276             | 7.67        | ...                                     | ...     | ...     | ...     |
| 4.23                           | 3.35          | 14.00  | 828             | 6.57        | 414             | 3.65        | 274             | 2.54        | ...                                     | ...     | ...     | 10.0    |
| 4.26                           | 4.50          | 19.00  | 822             | 9.93        | 411             | 5.55        | 272             | 3.86        | ...                                     | ...     | ...     | ...     |
| 4.50                           | 3.15          | 14.00  | 778             | 5.96        | 389             | 3.31        | 258             | 2.31        | ...                                     | ...     | ...     | 10.1    |
|                                | 5.60          | 25.00  | 779             | 12.86       | 389             | 7.31        | 258             | 5.08        | ...                                     | ...     | ...     | ...     |
| 4.66                           | 4.12          | 19.00  | 752             | 8.85        | 376             | 4.93        | 249             | 3.42        | ...                                     | ...     | ...     | ...     |
| 4.73                           | 3.00          | 14.00  | 740             | 5.49        | 370             | 3.06        | 245             | 2.13        | ...                                     | ...     | ...     | 10.2    |
| 4.75                           | 5.30          | 25.00  | 736             | 12.09       | 368             | 6.84        | 244             | 4.75        | ...                                     | ...     | ...     | ...     |
| 4.88                           | 6.90          | 33.50  | 717             | 15.91       | 358             | 9.32        | 238             | 6.50        | ...                                     | ...     | ...     | ...     |
| 5.04                           | 5.00          | 25.00  | 694             | 11.30       | 347             | 6.36        | 230             | 4.42        | ...                                     | ...     | ...     | ...     |
| 5.07                           | 2.80          | 14.00  | 690             | 4.87        | 345             | 2.72        | 229             | 1.90        | ...                                     | ...     | ...     | 10.3    |
| 5.19                           | 6.50          | 33.50  | 675             | 15.02       | 337             | 8.71        | 224             | 6.07        | ...                                     | ...     | ...     | ...     |
| 5.26                           | 3.65          | 19.00  | 665             | 7.47        | 332             | 4.15        | 220             | 2.89        | ...                                     | ...     | ...     | ...     |
| 5.31                           | 4.75          | 25.00  | 659             | 10.62       | 330             | 5.96        | 219             | 4.14        | ...                                     | ...     | ...     | ...     |
| 5.37                           | 2.65          | 14.00  | 652             | 4.39        | 326             | 2.46        | 216             | 1.72        | ...                                     | ...     | ...     | 10.4    |
| ARC-LENGTH CORRECTION FACTOR → |               |        |                 |             |                 |             |                 |             | .80                                     | .83     | .85     | .87     |
| 5.61                           | 4.50          | 25.00  | 624             | 9.93        | 312             | 5.55        | 207             | 3.86        | ...                                     | ...     | ...     | ...     |
| 5.62                           | 6.00          | 33.50  | 623             | 13.85       | 311             | 7.94        | 206             | 5.52        | ...                                     | ...     | ...     | ...     |
| 5.74                           | 3.35          | 19.00  | 609             | 6.57        | 305             | 3.65        | 202             | 2.54        | ...                                     | ...     | ...     | ...     |
| 6.03                           | 5.60          | 33.50  | 581             | 12.86       | 290             | 7.32        | 192             | 5.08        | ...                                     | ...     | ...     | ...     |
| 6.11                           | 3.15          | 19.00  | 573             | 4.91        | 286             | 2.84        | 190             | 2.31        | ...                                     | ...     | ...     | ...     |
| 6.13                           | 4.12          | 25.00  | 571             | 8.85        | 285             | 4.93        | 189             | 3.43        | ...                                     | ...     | ...     | ...     |
| 6.37                           | 5.30          | 33.50  | 549             | 12.09       | 275             | 6.84        | 182             | 4.75        | ...                                     | ...     | ...     | ...     |
| 6.42                           | 3.00          | 19.00  | 545             | 5.49        | 272             | 3.06        | 181             | 2.13        | ...                                     | ...     | ...     | ...     |
| 6.76                           | 5.00          | 33.50  | 518             | 11.30       | 259             | 6.36        | 172             | 4.42        | ...                                     | ...     | ...     | ...     |
| 6.89                           | 2.80          | 19.00  | 508             | 4.87        | 254             | 2.72        | 168             | 1.90        | ...                                     | ...     | ...     | ...     |
| 6.93                           | 3.65          | 25.00  | 505             | 7.48        | 253             | 4.15        | 167             | 2.89        | ...                                     | ...     | ...     | ...     |
| 7.12                           | 4.75          | 33.50  | 492             | 10.62       | 246             | 5.96        | 163             | 4.14        | ...                                     | ...     | ...     | ...     |
| 7.29                           | 2.65          | 19.00  | 480             | 4.39        | 240             | 2.46        | 159             | 1.72        | ...                                     | ...     | ...     | ...     |
| 7.52                           | 4.50          | 33.50  | 466             | 9.93        | 233             | 5.56        | 154             | 3.86        | ...                                     | ...     | ...     | ...     |
| 7.56                           | 3.35          | 25.00  | 463             | 6.57        | 231             | 3.65        | 153             | 2.54        | ...                                     | ...     | ...     | ...     |
| 8.05                           | 3.15          | 25.00  | 435             | 5.96        | 217             | 3.31        | 144             | 2.31        | ...                                     | ...     | ...     | ...     |
| 8.22                           | 4.12          | 33.50  | 426             | 8.85        | 213             | 4.93        | 141             | 3.43        | ...                                     | ...     | ...     | ...     |
| 8.46                           | 3.00          | 25.00  | 414             | 5.50        | 207             | 3.06        | 137             | 2.13        | ...                                     | ...     | ...     | ...     |
| 9.07                           | 2.80          | 25.00  | 386             | 4.87        | 193             | 2.72        | 128             | 1.90        | ...                                     | ...     | ...     | ...     |
| 9.29                           | 3.65          | 33.50  | 377             | 7.48        | 188             | 4.15        | 125             | 2.89        | ...                                     | ...     | ...     | ...     |
| ARC-LENGTH CORRECTION FACTOR → |               |        |                 |             |                 |             |                 |             | ...                                     | ...     | ...     | ...     |
| 9.60                           | 2.65          | 25.00  | 365             | 4.39        | 182             | 2.46        | 121             | 1.72        | ...                                     | ...     | ...     | ...     |
| 10.14                          | 3.35          | 33.50  | 345             | 6.57        | 173             | 3.65        | 114             | 2.54        | ...                                     | ...     | ...     | ...     |
| 10.79                          | 3.15          | 33.50  | 324             | 5.96        | 162             | 3.31        | 108             | 2.31        | ...                                     | ...     | ...     | ...     |
| 11.34                          | 3.00          | 33.50  | 309             | 5.50        | 154             | 3.06        | 102             | 2.13        | ...                                     | ...     | ...     | ...     |
| 12.16                          | 2.80          | 33.50  | 288             | 4.87        | 144             | 2.72        | 95              | 1.90        | ...                                     | ...     | ...     | ...     |
| 12.87                          | 2.65          | 33.50  | 272             | 4.39        | 136             | 2.46        | 90              | 1.72        | ...                                     | ...     | ...     | ...     |
| ARC-LENGTH CORRECTION FACTOR → |               |        |                 |             |                 |             |                 |             | ...                                     | ...     | ...     | ...     |

\* Note: Stock belt sizes 3VX250 thru 3VX400 not shown

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

V-Drives

FHP Drives

Drive Component Accessories

DVNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets

# SELECTION



## 3VX STOCK DRIVE SELECTIONS

| Speed Ratio | Belt Number and Approx. Center Distance |            |            |            |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |  |
|-------------|---|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
|             | 3VX 530                                 | 3VX 560    | 3VX 600    | 3VX 630    | 3VX 670     | 3VX 710     | 3VX 750     | 3VX 800     | 3VX 850     | 3VX 900     | 3VX 950     | 3VX 1000    | 3VX 1060    | 3VX 1120    | 3VX 1180    | 3VX 1250    | 3VX 1320    | 3VX 1400    | 3VX 1500    |             |  |
| 3.14        | ...                                     | ...        | ...        | ...        | ...         | ...         | ...         | ...         | ...         | ...         | 19.8        | 22.5        | 25.7        | 28.8        | 32.0        | 35.6        | 39          | 43          | 48          |             |  |
| 3.17        | ...                                     | ...        | ...        | ...        | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 25.3        | 29          | 33          | 39          |  |
| 3.18        | ...                                     | ...        | ...        | ...        | ...         | 14.4        | 16.6        | 19.3        | 21.9        | 24.5        | 27.1        | 29.7        | 32.7        | 35.8        | 38.8        | 42.4        | 46          | 50          | 55          |             |  |
| 3.20        | 15.1                                    | 16.7       | 18.7       | 20.2       | 22.3        | 24.3        | 26.3        | 28.8        | 31.3        | 33.9        | 36.4        | 38.9        | 41.9        | 44.9        | 47.9        | 51.4        | 55          | 59          | 64          |             |  |
| 3.40        | 15.2                                    | 16.8       | 18.8       | 20.4       | 22.4        | 24.4        | 26.4        | 29.0        | 31.5        | 34.0        | 36.5        | 39.0        | 42.0        | 45.1        | 48.1        | 51.6        | 55          | 59          | 64          |             |  |
| 3.41        | ...                                     | ...        | ...        | ...        | ...         | 14.7        | 16.9        | 19.5        | 22.2        | 24.8        | 27.4        | 29.9        | 33.0        | 36.1        | 39.1        | 42.7        | 46          | 50          | 55          |             |  |
| 3.43        | 11.2                                    | 12.8       | 15.0       | 16.5       | 18.6        | 20.7        | 22.7        | 25.3        | 27.8        | 30.4        | 32.9        | 35.4        | 38.5        | 41.5        | 44.5        | 48.0        | 52          | 56          | 61          |             |  |
| 3.58        | 15.3                                    | 16.9       | 18.9       | 20.5       | 22.5        | 24.5        | 26.6        | 29.1        | 31.6        | 34.1        | 36.6        | 39.1        | 42.2        | 45.2        | 48.2        | 51.7        | 55          | 59          | 64          |             |  |
| 3.61        | ...                                     | ...        | ...        | ...        | ...         | 14.8        | 17.0        | 19.7        | 22.4        | 25.0        | 27.6        | 30.1        | 33.2        | 36.3        | 39.3        | 42.9        | 46          | 50          | 56          |             |  |
| 3.64        | ...                                     | ...        | ...        | ...        | ...         | ...         | ...         | ...         | ...         | 17.6        | 20.5        | 23.2        | 26.4        | 29.6        | 32.7        | 36.3        | 40          | 44          | 49          |             |  |
| 3.83        | ...                                     | ...        | ...        | ...        | ...         | 15.0        | 17.2        | 19.9        | 22.6        | 25.2        | 27.8        | 30.4        | 33.4        | 36.5        | 39.5        | 43.1        | 47          | 51          | 56          |             |  |
| 3.84        | 15.5                                    | 17.0       | 19.1       | 20.6       | 22.6        | 24.7        | 26.7        | 29.2        | 31.7        | 34.3        | 36.8        | 39.3        | 42.3        | 45.3        | 48.3        | 51.8        | 55          | 59          | 64          |             |  |
|             | <b>.93</b>                              | <b>.94</b> | <b>.95</b> | <b>.97</b> | <b>.98</b>  | <b>.99</b>  | <b>1.00</b> | <b>1.02</b> | <b>1.03</b> | <b>1.04</b> | <b>1.05</b> | <b>1.06</b> | <b>1.08</b> | <b>1.09</b> | <b>1.10</b> | <b>1.11</b> | <b>1.12</b> | <b>1.13</b> | <b>1.14</b> |             |  |
| 3.87        | ...                                     | ...        | ...        | ...        | ...         | ...         | ...         | ...         | ...         | 17.9        | 20.7        | 23.4        | 26.7        | 29.8        | 33.0        | 36.6        | 40          | 44          | 49          |             |  |
| 3.88        | 11.5                                    | 13.1       | 15.3       | 16.9       | 18.9        | 21.0        | 23.1        | 25.6        | 28.2        | 30.7        | 33.2        | 35.8        | 38.8        | 41.8        | 44.8        | 48.4        | 52          | 56          | 61          |             |  |
| 4.03        | ...                                     | ...        | ...        | ...        | ...         | 15.2        | 17.4        | 20.1        | 22.7        | 25.4        | 27.9        | 30.5        | 33.6        | 36.7        | 39.7        | 43.3        | 47          | 51          | 56          |             |  |
| 4.06        | 15.6                                    | 17.1       | 19.2       | 20.7       | 22.8        | 24.8        | 26.8        | 29.3        | 31.9        | 34.4        | 36.9        | 39.4        | 42.4        | 45.4        | 48.4        | 51.9        | 55          | 59          | 64          |             |  |
| 4.19        | ...                                     | ...        | ...        | ...        | ...         | ...         | ...         | ...         | ...         | 18.2        | 21.0        | 23.8        | 27.0        | 30.2        | 33.3        | 36.9        | 41          | 45          | 50          |             |  |
| 4.21        | ...                                     | ...        | ...        | ...        | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 22.9        | 26.9        | 31          | 35          | 44          |             |  |
| 4.23        | 11.7                                    | 13.3       | 15.5       | 17.0       | 19.1        | 21.2        | 23.3        | 25.8        | 28.4        | 30.9        | 33.5        | 36.0        | 39.0        | 42.0        | 45.1        | 48.6        | 52          | 56          | 61          |             |  |
| 4.26        | ...                                     | ...        | ...        | ...        | ...         | 15.3        | 17.6        | 20.3        | 22.9        | 25.5        | 28.1        | 30.7        | 33.8        | 36.8        | 39.9        | 43.4        | 47          | 51          | 56          |             |  |
| 4.50        | 11.8                                    | 13.4       | 15.6       | 17.2       | 19.3        | 21.3        | 23.4        | 26.0        | 28.5        | 31.1        | 33.6        | 36.1        | 39.2        | 42.2        | 45.2        | 48.7        | 52          | 46          | 61          |             |  |
| 4.66        | ...                                     | ...        | ...        | ...        | 13.3        | 15.6        | 17.8        | 20.5        | 23.2        | 25.8        | 28.4        | 31.0        | 34.0        | 37.1        | 40.2        | 43.7        | 47          | 51          | 56          |             |  |
| 4.73        | ...                                     | 13.5       | 15.7       | 17.3       | 19.4        | 21.4        | 23.5        | 26.1        | 28.6        | 31.2        | 33.7        | 36.2        | 39.3        | 42.3        | 45.3        | 48.8        | 52          | 56          | 61          |             |  |
| 4.75        | ...                                     | ...        | ...        | ...        | ...         | ...         | ...         | ...         | ...         | 18.6        | 21.5        | 24.2        | 27.4        | 30.6        | 33.8        | 37.4        | 41          | 45          | 50          |             |  |
| 4.88        | ...                                     | ...        | ...        | ...        | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 23.5        | 27.6        | 31          | 36          | 41          |             |  |
| 5.04        | ...                                     | ...        | ...        | ...        | ...         | ...         | ...         | ...         | ...         | 18.8        | 21.6        | 24.4        | 27.6        | 30.8        | 34.0        | 37.6        | 41          | 45          | 50          |             |  |
| 5.07        | 12.0                                    | 13.7       | 15.8       | 17.4       | 19.5        | 21.6        | 23.6        | 26.2        | 28.8        | 31.3        | 33.8        | 36.4        | 39.4        | 42.4        | 45.5        | 49.0        | 53          | 57          | 62          |             |  |
| 5.19        | ...                                     | ...        | ...        | ...        | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 23.8        | 27.8        | 32          | 36          | 41          |             |  |
| 5.26        | ...                                     | ...        | ...        | ...        | 13.5        | 15.9        | 18.1        | 20.8        | 23.5        | 26.1        | 28.7        | 31.3        | 34.4        | 37.4        | 40.5        | 44.1        | 48          | 52          | 57          |             |  |
| 5.31        | ...                                     | ...        | ...        | ...        | ...         | ...         | ...         | ...         | ...         | 18.9        | 21.8        | 24.6        | 27.8        | 31.0        | 34.1        | 37.8        | 41          | 46          | 51          |             |  |
| 5.37        | 12.1                                    | 13.8       | 15.9       | 17.5       | 19.6        | 21.7        | 23.8        | 26.3        | 28.9        | 31.4        | 34.0        | 36.5        | 39.5        | 42.6        | 45.6        | 49.1        | 53          | 57          | 62          |             |  |
|             | <b>.89</b>                              | <b>.91</b> | <b>.93</b> | <b>.94</b> | <b>.96</b>  | <b>.97</b>  | <b>.99</b>  | <b>1.00</b> | <b>1.02</b> | <b>1.03</b> | <b>1.04</b> | <b>1.05</b> | <b>1.07</b> | <b>1.08</b> | <b>1.09</b> | <b>1.10</b> | <b>1.11</b> | <b>1.12</b> | <b>1.13</b> | <b>1.13</b> |  |
| 5.61        | ...                                     | ...        | ...        | ...        | ...         | ...         | ...         | ...         | ...         | 19.1        | 21.9        | 24.7        | 28.0        | 31.2        | 34.3        | 38.0        | 42          | 46          | 51          |             |  |
| 5.62        | ...                                     | ...        | ...        | ...        | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 24.1        | 28.1        | 32          | 36          | 42          |             |  |
| 5.74        | ...                                     | ...        | ...        | ...        | 13.7        | 16.0        | 18.3        | 21.0        | 23.7        | 26.3        | 28.9        | 31.5        | 34.6        | 37.6        | 40.7        | 44.3        | 48          | 52          | 57          |             |  |
| 6.03        | ...                                     | ...        | ...        | ...        | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 24.3        | 28.4        | 32          | 37          | 42          |             |  |
| 6.11        | ...                                     | ...        | ...        | ...        | 13.8        | 16.2        | 18.4        | 21.1        | 23.8        | 26.4        | 29.0        | 31.6        | 34.7        | 37.8        | 40.8        | 44.4        | 48          | 52          | 57          |             |  |
| 6.13        | ...                                     | ...        | ...        | ...        | ...         | ...         | ...         | ...         | 16.3        | 19.3        | 22.2        | 25.0        | 28.2        | 31.4        | 34.6        | 38.2        | 42          | 46          | 41          |             |  |
| 6.37        | ...                                     | ...        | ...        | ...        | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 24.5        | 28.6        | 32          | 39          | 42          |             |  |
| 6.42        | ...                                     | ...        | ...        | ...        | 13.9        | 16.3        | 18.5        | 21.2        | 23.9        | 26.5        | 29.1        | 31.7        | 34.8        | 37.9        | 40.9        | 44.5        | 48          | 52          | 57          |             |  |
| 6.76        | ...                                     | ...        | ...        | ...        | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 20.9        | 24.7        | 28.7        | 33          | 37          | 42          |             |  |
| 6.89        | ...                                     | ...        | ...        | ...        | 14.1        | 16.4        | 18.6        | 21.4        | 24.0        | 26.7        | 29.3        | 31.9        | 34.9        | 38.0        | 41.1        | 44.7        | 48          | 52          | 57          |             |  |
| 6.93        | ...                                     | ...        | ...        | ...        | ...         | ...         | ...         | ...         | 16.6        | 19.6        | 22.5        | 25.3        | 28.5        | 31.7        | 34.9        | 38.5        | 42          | 46          | 51          |             |  |
| 7.12        | ...                                     | ...        | ...        | ...        | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 21.1        | 24.8        | 28.9        | 33          | 37          | 43          |             |  |
| 7.29        | ...                                     | ...        | ...        | ...        | 14.1        | 16.5        | 18.7        | 21.4        | 24.1        | 26.8        | 29.4        | 32.0        | 35.1        | 38.1        | 41.2        | 44.8        | 48          | 52          | 57          |             |  |
| 7.52        | ...                                     | ...        | ...        | ...        | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 21.2        | 25.0        | 29.1        | 33          | 37          | 43          |             |  |
| 7.56        | ...                                     | ...        | ...        | ...        | ...         | ...         | ...         | ...         | 16.7        | 19.8        | 22.7        | 25.4        | 28.7        | 31.9        | 35.1        | 38.7        | 42          | 46          | 52          |             |  |
| 8.05        | ...                                     | ...        | ...        | ...        | ...         | ...         | ...         | ...         | 16.9        | 19.9        | 22.8        | 25.6        | 28.8        | 32.0        | 35.2        | 38.9        | 42          | 47          | 52          |             |  |
| 8.22        | ...                                     | ...        | ...        | ...        | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 21.4        | 25.2        | 29.3        | 33          | 38          | 43          |             |  |
| 8.46        | ...                                     | ...        | ...        | ...        | ...         | ...         | ...         | ...         | 17.0        | 20.0        | 22.9        | 25.7        | 28.9        | 32.1        | 35.3        | 39.0        | 43          | 47          | 52          |             |  |
| 9.07        | ...                                     | ...        | ...        | ...        | ...         | ...         | ...         | ...         | 17.1        | 20.1        | 23.0        | 25.8        | 29.1        | 32.3        | 35.4        | 39.1        | 43          | 47          | 52          |             |  |
| 9.29        | ...                                     | ...        | ...        | ...        | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 21.7        | 25.5        | 29.6        | 34          | 38          | 43          |             |  |
|             | <b>.79</b>                              | <b>.84</b> | <b>.88</b> | <b>.91</b> | <b>.94</b>  | <b>.96</b>  | <b>.98</b>  | <b>1.00</b> | <b>1.02</b> | <b>1.04</b> | <b>1.05</b> | <b>1.07</b> | <b>1.07</b> | <b>1.08</b> | <b>1.09</b> | <b>1.09</b> | <b>1.09</b> | <b>1.09</b> | <b>1.10</b> | <b>1.10</b> |  |
| 9.60        | ...                                     | ...        | ...        | ...        | ...         | ...         | ...         | 17.2        | 20.2        | 23.1        | 25.9        | 29.2        | 32.4        | 35.5        | 39.2        | 43          | 47          | 52          |             |             |  |
| 10.14       | ...                                     | ...        | ...        | ...        | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 21.9        | 25.6        | 29.8        | 34          | 38          | 43          |             |  |
| 10.79       | ...                                     | ...        | ...        | ...        | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 22.0        | 25.8        | 29.9        | 34          | 38          | 44          |             |  |
| 11.34       | ...                                     | ...        | ...        | ...        | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 22.1        | 25.8        | 30.0        | 34          | 38          | 44          |             |  |
| 12.16       | ...                                     | ...        | ...        | ...        | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 22.2        | 26.0        | 30.1        | 34          | 38          | 44          |             |  |
| 12.87       | ...                                     | ...        | ...        | ...        | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 22.3        | 26.1        | 30.2        | 34          | 39          | 4           |             |  |
|             | <b>.78</b>                              | <b>.86</b> | <b>.92</b> | <b>.96</b> | <b>1.00</b> | <b>1.01</b> | <b>1.01</b> | <b>1.01</b> | <b>1.01</b> | <b>1.01</b> | <b>1.01</b> | <b>1.01</b> | <b>1.01</b> | <b>1.01</b> | <b>1.01</b> | <b>1.01</b> | <b>1.01</b> | <b>1.01</b> | <b>1.01</b> | <b>1.01</b> |  |

Arc & Length Factors are approximate values  
Refer to Selection Procedure for more precise values  
NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

# SELECTION



**5VX** D-V Wedge  
Single Belts to 200"  
POLYBAND to 200"

**5V** D-V Wedge  
Single Belts over 200"  
POLYBAND over 200"

## STOCK DRIVE SELECTION

| Ratio                                 | Stock Sheaves |        | 1750 RPM Driver |         |      | 1160 RPM Driver |         |      | 870 RPM Driver |         |      | Belt Number and Approx. Center Distance** |            |            |            |            |            |            |            |
|---------------------------------------|---------------|--------|-----------------|---------|------|-----------------|---------|------|----------------|---------|------|---|------------|------------|------------|------------|------------|------------|------------|
|                                       | Diameter      |        | Driven          | HP/Belt |      | Driven          | HP/Belt |      | Driven         | HP/Belt |      | 5VX                                       | 5VX        | 5VX        | 5VX        | 5VX        | 5VX        | 5VX        | 5VX        |
|                                       | Driver        | Driven | RPM             | 5VX     | 5V   | RPM             | 5VX     | 5V   | RPM            | 5VX     | 5V   | 500                                       | 560        | 600        | 630        | 670        | 710        | 750        | 800        |
| 1.00                                  | 4.40          | 4.40   | 1750            | 8.2     | 3.9  | 1160            | 5.9     | 3.1  | 870            | 5.6     | 2.6  | 18.1                                      | 21.1       | 23.1       | 24.6       | 26.6       | 28.6       | 30.6       | 33.1       |
|                                       | 4.65          | 4.65   | 1750            | 9.4     | 5.0  | 1160            | 6.1     | 3.9  | 870            | 5.3     | 3.2  | 17.7                                      | 20.7       | 22.7       | 24.2       | 26.2       | 28.2       | 30.2       | 32.7       |
|                                       | 4.90          | 4.90   | 1750            | 10.6    | 6.2  | 1160            | 7.5     | 4.7  | 870            | 5.9     | 3.8  | 17.3                                      | 20.3       | 22.3       | 23.8       | 25.8       | 27.8       | 29.8       | 32.3       |
|                                       | 5.20          | 5.20   | 1750            | 11.9    | 7.5  | 1160            | 8.5     | 5.6  | 870            | 6.6     | 4.5  | 16.8                                      | 19.8       | 21.8       | 23.3       | 25.3       | 27.3       | 29.3       | 31.8       |
|                                       | 5.50          | 5.50   | 1750            | 13.3    | 8.8  | 1160            | 9.4     | 6.6  | 870            | 7.3     | 5.2  | 16.4                                      | 19.4       | 21.4       | 22.9       | 24.9       | 26.9       | 28.9       | 31.4       |
|                                       | 5.90          | 5.90   | 1750            | 15.1    | 10.6 | 1160            | 10.7    | 7.8  | 870            | 8.3     | 6.2  | 15.7                                      | 18.7       | 20.7       | 22.2       | 24.2       | 26.2       | 28.2       | 30.7       |
|                                       | 6.30          | 6.30   | 1750            | 16.9    | 12.6 | 1160            | 11.9    | 9.0  | 870            | 9.3     | 7.1  | 15.1                                      | 18.1       | 20.1       | 21.6       | 23.6       | 25.6       | 27.6       | 30.1       |
|                                       | 6.70          | 6.70   | 1750            | 18.7    | 13.9 | 1160            | 13.2    | 10.2 | 870            | 10.4    | 8.1  | 14.5                                      | 17.5       | 19.5       | 21.0       | 23.0       | 25.0       | 27.0       | 29.5       |
|                                       | 7.10          | 7.10   | 1750            | 20.4    | 15.6 | 1160            | 14.4    | 11.4 | 870            | 11.0    | 9.0  | 13.9                                      | 16.8       | 18.8       | 20.3       | 22.3       | 24.3       | 26.3       | 28.8       |
|                                       | 7.50          | 7.50   | 1750            | 22.1    | 17.2 | 1160            | 15.6    | 12.6 | 870            | 12.2    | 9.9  | 13.2                                      | 16.2       | 18.2       | 19.7       | 21.7       | 23.7       | 25.7       | 28.2       |
|                                       | 8.00          | 8.00   | 1750            | 24.3    | 19.2 | 1160            | 17.0    | 14.1 | 870            | 13.3    | 11.1 | 12.4                                      | 15.4       | 17.4       | 18.9       | 20.9       | 22.9       | 24.9       | 27.4       |
|                                       | 8.50          | 8.50   | 1750            | 26.4    | 21.2 | 1160            | 18.7    | 15.5 | 870            | 14.0    | 12.2 | 11.7                                      | 14.6       | 16.6       | 18.1       | 20.1       | 22.1       | 24.1       | 26.6       |
|                                       | 9.00          | 9.00   | 1750            | 28.4    | 23.0 | 1160            | 20.1    | 17.0 | 870            | 15.7    | 13.4 | 10.9                                      | 13.9       | 15.9       | 17.4       | 19.4       | 21.4       | 23.4       | 25.9       |
|                                       | 9.25          | 9.25   | 1750            | 29.4    | 24.0 | 1160            | 20.9    | 17.7 | 870            | 16.4    | 13.9 | 10.5                                      | 13.5       | 15.5       | 17.0       | 19.0       | 21.0       | 23.0       | 25.5       |
|                                       | 9.75          | 9.75   | 1750            | 31.4    | 25.8 | 1160            | 22.4    | 19.1 | 870            | 17.4    | 15.1 | ...                                       | 12.7       | 14.7       | 16.2       | 18.2       | 20.2       | 22.2       | 24.7       |
|                                       | 10.30         | 10.30  | 1750            | 33.6    | 27.7 | 1160            | 24.0    | 20.6 | 870            | 18.6    | 16.3 | ...                                       | 11.8       | 13.8       | 15.3       | 17.3       | 19.3       | 21.3       | 23.8       |
|                                       | 10.90         | 10.90  | 1750            | 35.9    | 29.7 | 1160            | 25.7    | 22.2 | 870            | 20.2    | 17.6 | ...                                       | ...        | 12.9       | 14.4       | 16.4       | 18.4       | 20.4       | 22.9       |
| 11.30                                 | 11.30         | 1750   | 37.4            | 31.0    | 1160 | 26.8            | 23.3    | 870  | 20.9           | 18.5    | ...  | ...                                       | ...        | 13.8       | 15.8       | 17.8       | 19.8       | 22.3       |            |
| 11.80                                 | 11.80         | 1750   | 39.3            | 32.6    | 1160 | 28.2            | 24.6    | 870  | 22.0           | 19.5    | ...  | ...                                       | ...        | ...        | 15.0       | 17.0       | 19.0       | 21.5       |            |
| 12.50                                 | 12.50         | 1750   | 41.8            | 34.7    | 1160 | 30.2            | 26.4    | 870  | 23.6           | 21.0    | ...  | ...                                       | ...        | ...        | ...        | 15.9       | 17.9       | 20.4       |            |
| 13.20                                 | 13.20         | 1750   | 44.2            | 38.7    | 1160 | 31.1            | 28.2    | 870  | 25.1           | 22.5    | ...  | ...                                       | ...        | ...        | ...        | ...        | 16.8       | 19.3       |            |
| 14.00                                 | 14.00         | 1750   | 46.9            | 38.8    | 1160 | 34.3            | 30.2    | 870  | 26.9           | 24.1    | ...  | ...                                       | ...        | ...        | ...        | ...        | ...        | 18.0       |            |
| 15.00                                 | 15.00         | 1750   | ...             | ...     | 1160 | ...             | ...     | 870  | 29.0           | 26.2    | ...  | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        |            |
| 16.00                                 | 16.00         | 1750   | ...             | ...     | 1160 | ...             | ...     | 870  | 31.1           | 28.1    | ...  | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        |            |
| 1.03                                  | 9.00          | 9.25   | 1702            | 28.6    | 23.3 | 1128            | 20.3    | 17.1 | 845            | 15.7    | 13.5 | 1.07                                      | 13.7       | 15.7       | 17.2       | 19.2       | 21.2       | 23.2       | 25.7       |
| 1.04                                  | 10.90         | 11.30  | 1688            | 36.1    | 30.1 | 1119            | 25.8    | 22.4 | 837            | 20.1    | 17.7 | ...                                       | ...        | 12.6       | 14.1       | 16.1       | 18.1       | 20.1       | 22.6       |
|                                       | 11.30         | 11.80  | 1675            | 37.7    | 31.4 | 1110            | 27.0    | 23.5 | 837            | 21.0    | 18.6 | ...                                       | ...        | ...        | ...        | 15.4       | 17.4       | 19.4       | 21.9       |
| 1.05                                  | 4.65          | 4.90   | 1659            | 9.7     | 5.4  | 1100            | 6.9     | 4.2  | 829            | 5.4     | 3.4  | 17.5                                      | 20.5       | 22.5       | 24.0       | 26.0       | 28.0       | 30.0       | 32.5       |
|                                       | 9.25          | 9.75   | 1659            | 29.8    | 24.4 | 1100            | 21.1    | 17.9 | 829            | 16.4    | 14.1 | ...                                       | 13.1       | 15.1       | 16.6       | 18.6       | 20.6       | 22.6       | 25.1       |
| 1.06                                  | 4.40          | 4.65   | 1654            | 8.6     | 4.3  | 1096            | 6.1     | 3.4  | 821            | 4.8     | 2.8  | 17.9                                      | 20.9       | 22.9       | 24.4       | 26.4       | 28.4       | 30.4       | 32.9       |
|                                       | 4.90          | 5.20   | 1654            | 10.9    | 6.6  | 1096            | 7.7     | 5.0  | 821            | 6.1     | 4.0  | 17.1                                      | 20.1       | 22.1       | 23.6       | 25.6       | 27.6       | 29.6       | 32.1       |
|                                       | 5.20          | 5.50   | 1653            | 12.3    | 7.9  | 1092            | 8.7     | 5.9  | 821            | 6.8     | 4.7  | 16.6                                      | 19.6       | 21.6       | 23.1       | 25.1       | 27.1       | 29.1       | 31.6       |
|                                       | 6.30          | 6.70   | 1644            | 17.3    | 12.8 | 1090            | 12.2    | 9.3  | 821            | 9.5     | 7.4  | 14.8                                      | 17.8       | 19.8       | 21.3       | 23.3       | 25.3       | 27.3       | 29.8       |
|                                       | 6.70          | 7.10   | 1650            | 19.0    | 14.4 | 1094            | 13.4    | 10.5 | 821            | 10.4    | 8.3  | 14.2                                      | 17.2       | 19.2       | 20.7       | 22.7       | 24.7       | 26.7       | 29.2       |
|                                       | 7.10          | 7.50   | 1655            | 20.7    | 16.0 | 1097            | 14.6    | 11.7 | 821            | 11.4    | 9.3  | 13.5                                      | 16.5       | 18.5       | 20.0       | 22.0       | 24.0       | 26.0       | 28.5       |
|                                       | 8.00          | 8.50   | 1646            | 24.6    | 19.7 | 1091            | 17.4    | 14.4 | 821            | 13.5    | 11.3 | 12.0                                      | 15.0       | 17.0       | 18.5       | 20.5       | 22.5       | 24.5       | 27.0       |
|                                       | 8.50          | 9.00   | 1652            | 26.7    | 21.6 | 1095            | 18.9    | 15.8 | 821            | 14.7    | 12.5 | 11.3                                      | 14.3       | 16.3       | 17.8       | 19.8       | 21.8       | 23.8       | 26.3       |
|                                       | 9.75          | 10.30  | 1656            | 31.8    | 26.2 | 1097            | 22.6    | 19.4 | 821            | 17.6    | 15.3 | ...                                       | 12.2       | 14.3       | 15.8       | 17.8       | 19.8       | 21.8       | 24.3       |
|                                       | 10.30         | 10.90  | 1653            | 33.9    | 28.2 | 1096            | 24.2    | 20.9 | 821            | 18.8    | 16.5 | ...                                       | ...        | 13.3       | 14.8       | 16.8       | 18.8       | 20.8       | 23.3       |
|                                       | 11.80         | 12.50  | 1651            | 39.6    | 33.1 | 1095            | 28.5    | 24.9 | 821            | 22.2    | 19.8 | ...                                       | ...        | ...        | ...        | 14.4       | 16.4       | 18.4       | 20.9       |
|                                       | 12.50         | 13.20  | 1656            | 42.1    | 35.1 | 1098            | 30.4    | 26.7 | 821            | 23.8    | 21.3 | ...                                       | ...        | ...        | ...        | ...        | 15.3       | 17.3       | 19.8       |
|                                       | 13.20         | 14.00  | 1649            | 44.6    | 37.1 | 1093            | 32.4    | 28.5 | 821            | 25.3    | 22.7 | ...                                       | ...        | ...        | ...        | ...        | ...        | 16.1       | 18.6       |
| <b>ARC-LENGTH CORRECTION FACTOR →</b> |               |        |                 |         |      |                 |         |      |                |         |      | <b>.85</b>                                | <b>.87</b> | <b>.88</b> | <b>.89</b> | <b>.90</b> | <b>.91</b> | <b>.92</b> | <b>.93</b> |
| 1.07                                  | 5.50          | 5.90   | 3259            | 13.7    | 9.4  | 1080            | 9.7     | 6.9  | 813            | 7.6     | 5.5  | 16.0                                      | 19.0       | 21.0       | 22.5       | 24.5       | 26.5       | 28.5       | 31.0       |
|                                       | 5.90          | 6.30   | 1629            | 15.5    | 11.1 | 1085            | 10.9    | 8.1  | 813            | 8.5     | 6.4  | 15.4                                      | 18.4       | 20.4       | 21.9       | 23.9       | 25.9       | 27.9       | 30.4       |
|                                       | 7.50          | 8.00   | 1637            | 22.5    | 17.7 | 1087            | 15.9    | 12.9 | 813            | 12.3    | 10.2 | 12.8                                      | 15.8       | 17.8       | 19.3       | 21.3       | 23.3       | 25.3       | 27.8       |
|                                       | 14.00         | 15.00  | 1639            | 47.0    | 39.3 | 1082            | 34.6    | 30.5 | 813            | 27.1    | 24.4 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        | 17.2       |
|                                       | 15.00         | 16.00  | 1633            | ...     | ...  | 1087            | 37.2    | 32.9 | 813            | 29.2    | 26.4 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        | ...        |
| 1.08                                  | 9.00          | 9.75   | 1640            | 28.9    | 23.6 | 1070            | 20.5    | 17.3 | 806            | 15.9    | 13.7 | ...                                       | 13.3       | 15.3       | 16.8       | 18.8       | 20.8       | 22.8       | 25.3       |
|                                       | 10.90         | 11.80  | 1614            | 36.4    | 30.3 | 1071            | 26.0    | 22.6 | 806            | 20.3    | 17.9 | ...                                       | ...        | ...        | 13.7       | 15.7       | 17.7       | 19.7       | 22.2       |
| 1.09                                  | 8.50          | 9.25   | 1615            | 26.8    | 21.8 | 1065            | 19.0    | 16.0 | 798            | 14.7    | 12.6 | 11.1                                      | 14.1       | 16.1       | 17.6       | 19.6       | 21.6       | 23.6       | 26.1       |
| 1.10                                  | 10.30         | 11.30  | 1607            | 34.1    | 28.4 | 1056            | 24.3    | 21.1 | 791            | 18.9    | 16.6 | ...                                       | ...        | 13.0       | 14.5       | 16.5       | 18.5       | 20.5       | 23.0       |
| 1.11                                  | 9.25          | 10.30  | 1594            | 30.3    | 24.7 | 1041            | 21.3    | 18.2 | 784            | 16.5    | 14.3 | ...                                       | 12.6       | 14.6       | 16.1       | 18.1       | 20.1       | 22.1       | 24.6       |
|                                       | 11.30         | 12.50  | 1570            | 38.0    | 31.8 | 1048            | 27.2    | 23.8 | 784            | 21.2    | 18.8 | ...                                       | ...        | ...        | ...        | 14.8       | 16.8       | 18.8       | 21.3       |
| 1.12                                  | 4.40          | 4.90   | 1581            | 8.8     | 4.7  | 1039            | 6.3     | 3.6  | 777            | 4.9     | 3.0  | 17.7                                      | 20.7       | 22.7       | 24.2       | 26.2       | 28.2       | 30.2       | 32.7       |
|                                       | 4.65          | 5.20   | 1568            | 10.0    | 5.8  | 1035            | 7.1     | 4.4  | 777            | 5.6     | 3.6  | 17.3                                      | 20.3       | 22.3       | 23.8       | 25.8       | 27.8       | 29.8       | 32.3       |
|                                       | 6.70          | 7.50   | 1561            | 19.3    | 14.7 | 1035            | 13.6    | 10.7 | 777            | 10.6    | 8.5  | 13.8                                      | 16.8       | 18.8       | 20.3       | 22.3       | 24.3       | 26.3       | 28.9       |
|                                       | 9.75          | 10.90  | 1561            | 32.0    | 26.6 | 1036            | 22.8    | 19.6 | 777            | 17.7    | 15.4 | ...                                       | ...        | 13.8       | 15.3       | 17.3       | 19.3       | 21.3       | 23.8       |
|                                       | 11.80         | 13.20  | 1564            | 39.9    | 33.4 | 1036            | 28.6    | 25.1 | 777            | 22.3    | 19.9 | ...                                       | ...        | ...        | ...        | 13.9       | 15.8       | 17.9       | 20.4       |
| 12.50                                 | 14.00         | 1563   | 42.4            | 35.5    | 1035 | 30.6            | 27.0    | 777  | 23.9           | 21.4    | ...  | ...                                       | ...        | ...        | ...        | 14.7       | 16.7       | 19.2       |            |

NOTE: \* 5VX = Single and Polyband belts to 200" length  
5V = Single and Polyband belts over 200" long

\*\* Stock belt size 5VX530 not shown

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

# SELECTION



**5VX** D-V Wedge  
Single Belts to 200"  
POLYBAND to 200"

**5V** D-V Wedge  
Single Belts over 200"  
POLYBAND over 200"

## STOCK DRIVE SELECTION

| Ratio | Belt Number and Approx. Center Distance** |         |         |          |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |         |         |         |         |
|-------|---|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|
|       | 5VX 850                                   | 5VX 900 | 5VX 950 | 5VX 1000 | 5VX 1060 | 5VX 1120 | 5VX 1180 | 5VX 1250 | 5VX 1320 | 5VX 1400 | 5VX 1500 | 5VX 1600 | 5VX 1700 | 5VX 1800 | 5VX 1900 | 5V 2000 | 5V 2120 | 5V 2240 | 5V 2360 | 5V 2500 | 5V 2800 | 5V 3150 | 5V 3550 |
| 1.00  | 35.6                                      | 38.1    | 40.6    | 43.1     | 46.1     | 49.1     | 52.1     | 55.6     | 59.1     | 63.1     | 68       | 73       | 78       | 83       | 88       | 93      | 99      | 105     | 111     | 118     | 133     | 151     | 171     |
|       | 35.2                                      | 37.7    | 40.2    | 42.7     | 45.7     | 48.7     | 51.7     | 55.2     | 58.7     | 62.7     | 68       | 73       | 78       | 83       | 88       | 93      | 99      | 105     | 111     | 118     | 133     | 150     | 170     |
|       | 34.8                                      | 37.3    | 39.8    | 42.3     | 45.3     | 48.3     | 51.3     | 54.8     | 58.3     | 62.3     | 67       | 72       | 77       | 82       | 87       | 92      | 98      | 104     | 110     | 117     | 132     | 1550    | 170     |
|       | 34.3                                      | 36.8    | 39.3    | 41.8     | 44.8     | 47.8     | 50.8     | 54.3     | 57.8     | 61.8     | 67       | 72       | 7        | 82       | 87       | 92      | 98      | 104     | 110     | 117     | 132     | 149     | 169     |
|       | 33.9                                      | 36.4    | 38.9    | 41.4     | 44.4     | 47.4     | 50.4     | 53.9     | 57.4     | 61.4     | 66       | 71       | 76       | 81       | 86       | 91      | 97      | 103     | 109     | 116     | 131     | 149     | 169     |
|       | 33.2                                      | 35.7    | 38.2    | 40.7     | 43.7     | 46.7     | 49.7     | 53.2     | 56.7     | 60.7     | 66       | 71       | 76       | 81       | 86       | 91      | 97      | 103     | 109     | 116     | 131     | 148     | 168     |
|       | 32.6                                      | 35.1    | 37.6    | 40.1     | 43.1     | 46.1     | 49.1     | 52.6     | 56.1     | 60.1     | 65       | 70       | 75       | 80       | 85       | 90      | 96      | 102     | 108     | 115     | 130     | 148     | 168     |
|       | 32.0                                      | 34.5    | 37.0    | 39.5     | 42.5     | 45.5     | 48.5     | 52.0     | 55.5     | 59.5     | 64       | 69       | 74       | 79       | 84       | 89      | 95      | 101     | 107     | 115     | 129     | 147     | 167     |
|       | 31.3                                      | 33.8    | 36.3    | 38.8     | 41.8     | 44.8     | 47.8     | 51.3     | 54.8     | 58.8     | 64       | 69       | 74       | 79       | 84       | 89      | 95      | 101     | 107     | 114     | 129     | 146     | 168     |
|       | 30.7                                      | 33.2    | 35.7    | 38.2     | 41.2     | 44.2     | 47.2     | 50.7     | 54.2     | 58.2     | 63       | 68       | 73       | 78       | 83       | 88      | 94      | 100     | 106     | 113     | 128     | 146     | 166     |
|       | 29.9                                      | 32.4    | 34.9    | 37.4     | 40.4     | 43.4     | 46.4     | 49.9     | 53.4     | 57.4     | 62       | 67       | 72       | 77       | 82       | 87      | 93      | 99      | 105     | 112     | 127     | 150     | 165     |
|       | 29.1                                      | 31.6    | 34.1    | 36.6     | 39.6     | 42.6     | 45.6     | 49.1     | 52.6     | 56.6     | 62       | 67       | 72       | 77       | 82       | 89      | 93      | 99      | 105     | 112     | 127     | 144     | 164     |
|       | 28.4                                      | 30.9    | 33.4    | 35.9     | 38.9     | 41.9     | 44.9     | 48.4     | 51.9     | 55.9     | 61       | 66       | 71       | 76       | 81       | 86      | 92      | 98      | 104     | 111     | 126     | 143     | 163     |
|       | 28.0                                      | 30.5    | 33.0    | 35.5     | 38.5     | 41.5     | 44.5     | 48.0     | 51.5     | 55.5     | 60       | 65       | 71       | 75       | 80       | 85      | 91      | 97      | 103     | 111     | 125     | 143     | 163     |
|       | 27.2                                      | 29.7    | 32.2    | 34.7     | 37.7     | 40.7     | 43.7     | 47.2     | 50.7     | 54.7     | 60       | 65       | 70       | 75       | 80       | 85      | 91      | 97      | 102     | 110     | 124     | 143     | 162     |
|       | 26.3                                      | 28.8    | 31.3    | 33.8     | 36.8     | 39.8     | 42.8     | 46.3     | 49.8     | 53.8     | 59       | 64       | 69       | 74       | 79       | 84      | 90      | 96      | 102     | 109     | 124     | 141     | 161     |
|       | 25.4                                      | 27.9    | 30.4    | 32.9     | 35.9     | 38.9     | 41.9     | 45.4     | 48.9     | 52.9     | 58       | 63       | 68       | 73       | 78       | 83      | 89      | 95      | 1010    | 107     | 123     | 140     | 160     |
|       | 24.8                                      | 27.3    | 29.8    | 32.3     | 35.3     | 38.3     | 41.3     | 44.8     | 48.3     | 52.3     | 57       | 62       | 67       | 72       | 77       | 82      | 88      | 94      | 100     | 107     | 122     | 140     | 160     |
|       | 24.0                                      | 26.5    | 29.0    | 31.5     | 34.5     | 37.5     | 40.5     | 44.0     | 47.5     | 51.5     | 56       | 61       | 66       | 72       | 76       | 81      | 87      | 93      | 99      | 106     | 121     | 139     | 159     |
|       | 22.9                                      | 25.4    | 27.9    | 30.4     | 33.4     | 36.4     | 39.4     | 42.9     | 46.4     | 50.4     | 55       | 60       | 65       | 70       | 75       | 80      | 86      | 92      | 98      | 105     | 120     | 138     | 158     |
|       | 21.8                                      | 24.3    | 26.8    | 29.3     | 32.3     | 35.3     | 38.3     | 41.8     | 45.3     | 49.3     | 54       | 59       | 64       | 69       | 74       | 79      | 85      | 91      | 97      | 104     | 119     | 137     | 157     |
| 20.5  | 23.0                                      | 25.5    | 28.0    | 31.0     | 34.0     | 37.0     | 40.5     | 44.0     | 48.0     | 53       | 58       | 63       | 68       | 73       | 78       | 84      | 90      | 96      | 103     | 118     | 136     | 155     |         |
| 19.0  | 21.4                                      | 23.9    | 26.4    | 29.4     | 32.4     | 35.4     | 38.9     | 42.4     | 46.4     | 51       | 56       | 61       | 66       | 71       | 76       | 82      | 88      | 94      | 101     | 116     | 134     | 154     |         |
| ...   | 19.9                                      | 22.4    | 24.9    | 27.9     | 30.9     | 33.9     | 37.4     | 40.9     | 44.9     | 50       | 55       | 60       | 645      | 70       | 75       | 81      | 87      | 93      | 100     | 115     | 132     | 152     |         |
| 1.03  | 28.2                                      | 30.7    | 33.2    | 35.7     | 38.7     | 41.7     | 44.7     | 48.2     | 51.7     | 55.7     | 61       | 66       | 71       | 76       | 81       | 86      | 92      | 98      | 104     | 111     | 126     | 143     | 163     |
| 1.04  | 25.1                                      | 27.6    | 30.1    | 32.6     | 35.6     | 38.6     | 41.6     | 45.1     | 48.6     | 52.6     | 58       | 63       | 68       | 73       | 78       | 83      | 89      | 95      | 101     | 108     | 123     | 140     | 160     |
|       | 24.4                                      | 26.9    | 29.4    | 31.9     | 34.9     | 37.9     | 40.9     | 44.4     | 47.9     | 51.9     | 57       | 62       | 67       | 72       | 77       | 81      | 88      | 94      | 100     | 107     | 122     | 139     | 159     |
| 1.05  | 35.0                                      | 37.5    | 40.0    | 42.5     | 45.5     | 48.5     | 51.5     | 55.0     | 58.5     | 62.5     | 68       | 72       | 77       | 82       | 87       | 92      | 98      | 104     | 110     | 117     | 132     | 150     | 170     |
|       | 27.6                                      | 30.1    | 32.6    | 35.1     | 38.1     | 41.1     | 44.1     | 47.6     | 51.1     | 55.1     | 60       | 65       | 70       | 75       | 80       | 85      | 91      | 97      | 103     | 110     | 125     | 143     | 163     |
| 1.06  | 35.4                                      | 37.9    | 40.4    | 42.9     | 45.9     | 48.9     | 51.9     | 55.4     | 58.9     | 62.9     | 68       | 73       | 78       | 83       | 88       | 93      | 99      | 105     | 111     | 118     | 133     | 150     | 170     |
|       | 34.6                                      | 3438    | 37.3    | 39.8     | 42.8     | 45.8     | 48.8     | 52.3     | 55.8     | 59.5     | 65       | 70       | 75       | 80       | 85       | 90      | 96      | 102     | 108     | 115     | 130     | 147     | 167     |
|       | 34.1                                      | 36.6    | 39.1    | 41.6     | 44.6     | 47.6     | 50.6     | 54.1     | 57.6     | 61.6     | 67       | 72       | 77       | 82       | 87       | 92      | 98      | 104     | 110     | 117     | 132     | 149     | 169     |
|       | 32.3                                      | 37.1    | 39.6    | 42.1     | 45.1     | 4811     | 51.1     | 54.6     | 58.1     | 62.1     | 67       | 72       | 77       | 82       | 87       | 92      | 98      | 104     | 110     | 117     | 132     | 150     | 170     |
|       | 31.7                                      | 34.2    | 36.7    | 39.2     | 42.2     | 45.2     | 48.2     | 51.7     | 55.2     | 59.2     | 64       | 69       | 74       | 79       | 84       | 89      | 95      | 101     | 107     | 114     | 129     | 147     | 167     |
|       | 31.0                                      | 33.5    | 36.0    | 38.5     | 41.5     | 44.5     | 47.5     | 51.0     | 54.5     | 58.5     | 64       | 68       | 74       | 78       | 83       | 88      | 94      | 100     | 106     | 113     | 128     | 146     | 166     |
|       | 29.5                                      | 32.0    | 34.5    | 37.0     | 40.0     | 43.0     | 46.0     | 49.5     | 53.0     | 57.0     | 62       | 67       | 72       | 77       | 82       | 87      | 93      | 99      | 105     | 112     | 127     | 144     | 164     |
|       | 28.8                                      | 31.3    | 33.8    | 36.3     | 39.3     | 42.3     | 45.3     | 46.8     | 52.3     | 56.3     | 61       | 66       | 71       | 76       | 81       | 86      | 92      | 98      | 104     | 111     | 126     | 144     | 164     |
|       | 26.8                                      | 29.3    | 31.8    | 34.3     | 37.3     | 40.3     | 43.3     | 46.8     | 50.3     | 54.3     | 59       | 64       | 69       | 74       | 79       | 84      | 90      | 96      | 102     | 109     | 124     | 142     | 162     |
|       | 25.9                                      | 28.3    | 30.8    | 33.3     | 35.3     | 39.3     | 42.3     | 45.8     | 49.3     | 53.3     | 58       | 63       | 68       | 73       | 78       | 83      | 89      | 95      | 101     | 108     | 123     | 141     | 161     |
|       | 23.4                                      | 25.9    | 28.4    | 30.9     | 33.9     | 36.9     | 39.9     | 43.4     | 46.9     | 50.9     | 56       | 61       | 66       | 71       | 76       | 81      | 87      | 93      | 99      | 106     | 121     | 138     | 158     |
|       | 22.3                                      | 24.8    | 27.3    | 29.8     | 32.8     | 35.8     | 38.8     | 42.3     | 45.8     | 49.8     | 55       | 60       | 65       | 70       | 75       | 80      | 86      | 92      | 98      | 105     | 120     | 137     | 157     |
|       | 21.1                                      | 23.6    | 26.1    | 28.6     | 31.6     | 34.6     | 37.6     | 41.1     | 44.6     | 48.6     | 54       | 59       | 64       | 69       | 74       | 79      | 85      | 91      | 97      | 104     | 119     | 136     | 156     |
| 1.07  | .94                                       | .95     | .95     | .96      | .97      | .98      | .99      | 1.00     | 1.01     | 1.02     | 1.03     | 1.04     | 1.05     | 1.06     | 1.07     | 1.08    | 1.09    | 1.09    | 1.10    | 1.11    | 1.13    | 1.15    | 1.17    |
|       | 33.6                                      | 36.0    | 38.5    | 41.0     | 44.0     | 47.0     | 50.0     | 53.5     | 57.0     | 61.0     | 66       | 71       | 76       | 81       | 86       | 91      | 97      | 103     | 109     | 116     | 131     | 147     | 169     |
|       | 32.9                                      | 35.4    | 37.9    | 40.4     | 43.4     | 46.4     | 49.4     | 52.9     | 56.4     | 60.4     | 65       | 70       | 75       | 80       | 85       | 90      | 96      | 102     | 108     | 115     | 130     | 148     | 168     |
|       | 30.3                                      | 32.8    | 35.3    | 37.8     | 40.8     | 43.8     | 46.8     | 50.3     | 53.8     | 57.8     | 63       | 68       | 73       | 78       | 83       | 88      | 94      | 100     | 106     | 113     | 128     | 145     | 165     |
|       | 19.7                                      | 22.2    | 24.7    | 27.2     | 30.2     | 33.2     | 36.2     | 39.7     | 43.2     | 47.2     | 52       | 57       | 62       | 67       | 72       | 77      | 83      | 89      | 95      | 102     | 117     | 135     | 155     |
|       | 18.2                                      | 20.6    | 23.1    | 25.6     | 28.6     | 31.6     | 34.6     | 38.1     | 41.6     | 45.6     | 51       | 56       | 61       | 66       | 71       | 76      | 82      | 88      | 94      | 101     | 116     | 133     | 153     |
| 1.08  | 27.8                                      | 30.3    | 32.8    | 35.3     | 38.3     | 41.3     | 44.3     | 47.8     | 51.3     | 55.3     | 60       | 65       | 70       | 75       | 80       | 85      | 91      | 97      | 103     | 110     | 125     | 143     | 163     |
|       | 24.7                                      | 27.2    | 29.7    | 32.2     | 35.2     | 38.2     | 41.2     | 44.7     | 48.2     | 52.2     | 57       | 62       | 67       | 72       | 77       | 82      | 88      | 94      | 100     | 107     | 122     | 140     | 160     |
| 1.09  | 28.6                                      | 31.1    | 33.6    | 36.1     | 39.1     | 42.1     | 45.1     | 48.6     | 52.1     | 56.1     | 61       | 66       | 71       | 76       | 81       | 86      | 92      | 98      | 104     | 111     | 126     | 144     | 164     |
| 1.10  | 25.5                                      | 28.0    | 30.5    | 33.0     | 36.0     | 39.0     | 42.0     | 45.5     | 49.0     | 53.0     | 58       | 63       | 68       | 73       | 78       | 83      | 89      | 95      | 101     | 108     | 123     | 140     | 160     |
| 1.11  | 27.1                                      | 29.6    | 32.1    | 34.6     | 37.6     | 40.6     | 43.6     | 47.1     | 50.6     | 54.6     | 60       | 65       | 70       | 75       | 80       | 85      | 91      | 97      | 103     | 110     | 125     | 142     | 162     |
|       | 23.8                                      | 26.3    | 28.8    | 31.3     | 34.3     | 37.3     | 40.3     | 43.8     | 47.3     | 51.3     | 56       | 61       | 66       | 71       | 76       | 81      | 87      | 93      | 99      | 106     | 121     | 139     | 159     |
| 1.12  | 35.2                                      | 37.7    | 40.2    | 42.7     | 45.7     | 48.7     | 51.7     | 55.2     | 58.7     | 62.7     | 68       | 73       | 78       | 83       | 88       | 93      | 99      | 105     | 111     | 118     | 133     | 150     | 170     |
|       | 34.8                                      | 37.3    | 39.8    | 42.3     | 45.3     | 48.3     | 51.3     | 54.8     | 58.3     | 62.3     | 67       | 72       | 77       | 82       | 87       | 92      | 98      | 104     | 110     | 117     | 132     | 150     | 170     |
|       | 31.4                                      | 33.9    | 36.4    | 38.9     | 41.9     | 44.9     | 47.9     | 51.4     | 54.9     | 58.9     | 64       | 69       | 74       | 79       | 84       | 89      | 95      | 101     | 107     | 114     | 129     | 146     | 166     |
|       | 26.3                                      | 28.8    | 31.3    | 33.8     | 36.8     | 39.8     | 42.8     | 46.3     | 49.8     | 53.8     | 59       | 64       | 69       | 74       | 79       | 84      | 90      | 96      | 102     | 109     | 124     | 141     | 161     |
|       | 22.9                                      | 25.4    | 27.9    | 30.4     | 33.4     | 36.4     | 39.4     | 42.9     | 46.4     | 50.4     | 55       | 60       | 65       | 70       | 75       | 80      | 86      | 92      | 98      | 105     | 120     | 138     | 158     |
| 21.7  | 24.2                                      | 26.7    | 29.2    | 32.2     | 35.2     | 38.2     | 41.7     | 45.2     | 49.2     | 54       | 59       | 64       | 69       | 74       | 79       | 85      | 91      | 97      | 104     | 119     | 137     | 157     |         |

NOTES: \*\* Stock belt size 5V2650 & 5V3350 not shown  
Arc & Length Factors are approximate values  
Refer to Selection





# SELECTION

**5VX** D-V Wedge  
Single Belts to 200"  
POLYBAND to 200"

**5V** D-V Wedge  
Single Belts over 200"  
POLYBAND over 200"

## STOCK DRIVE SELECTION

| Ratio                          | Stock Sheaves |        | 1750 RPM Driver |         |      | 1160 RPM Driver |         |      | 870 RPM Driver |         |      | Belt Number and Approx. Center Distance** |         |         |         |         |         |         |         |
|--------------------------------|---------------|--------|-----------------|---------|------|-----------------|---------|------|----------------|---------|------|---|---------|---------|---------|---------|---------|---------|---------|
|                                | Diameter      |        | Driven          | HP/Belt |      | Driven          | HP/Belt |      | Driven         | HP/Belt |      | 5VX 500                                   | 5VX 560 | 5VX 600 | 5VX 630 | 5VX 670 | 5VX 710 | 5VX 750 | 5VX 800 |
|                                | Driver        | Driven | RPM             | 5VX     | 5V   | RPM             | 5VX     | 5V   | RPM            | 5VX     | 5V   |   |         |         |         |         |         |         |         |
| 1.13                           | 4.90          | 5.50   | 1556            | 11.2    | 7.0  | 1031            | 7.9     | 5.2  | 770            | 6.2     | 4.2  | 16.8                                      | 19.8    | 21.8    | 23.3    | 25.3    | 27.3    | 29.3    | 31.8    |
|                                | 6.30          | 7.10   | 1550            | 17.5    | 13.1 | 1027            | 12.4    | 9.6  | 770            | 9.6     | 7.6  | 14.5                                      | 17.5    | 19.5    | 21.0    | 23.0    | 25.2    | 27.2    | 29.5    |
|                                | 7.10          | 8.00   | 1551            | 21.1    | 16.4 | 1028            | 14.8    | 12.0 | 770            | 11.5    | 9.4  | 13.1                                      | 16.1    | 18.1    | 19.6    | 21.6    | 23.6    | 25.6    | 28.1    |
|                                | 8.00          | 9.00   | 1553            | 24.9    | 20.2 | 1030            | 17.6    | 14.6 | 770            | 13.6    | 11.5 | 11.6                                      | 14.6    | 16.6    | 18.1    | 20.1    | 22.1    | 24.1    | 26.6    |
| 1.14                           | 5.20          | 5.90   | 1539            | 12.6    | 8.4  | 1020            | 8.9     | 6.2  | 763            | 6.9     | 4.9  | 16.3                                      | 19.3    | 21.3    | 22.8    | 24.8    | 26.8    | 28.8    | 31.3    |
|                                | 5.90          | 6.70   | 1538            | 15.8    | 11.4 | 1019            | 11.1    | 8.4  | 763            | 8.7     | 6.6  | 15.1                                      | 18.1    | 20.1    | 21.6    | 23.6    | 25.6    | 27.6    | 30.1    |
|                                | 7.50          | 8.50   | 1542            | 22.8    | 18.1 | 1022            | 16.1    | 13.2 | 763            | 12.5    | 10.4 | 12.4                                      | 15.4    | 17.4    | 18.9    | 20.9    | 22.9    | 24.9    | 27.4    |
|                                | 13.20         | 15.00  | 1539            | 44.9    | 37.6 | 1020            | 32.6    | 28.8 | 763            | 25.5    | 22.9 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     | 17.8    |
|                                | 14.00         | 16.00  | 1530            | 47.6    | 39.6 | 1014            | 34.7    | 30.8 | 763            | 27.2    | 24.6 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     | ...     |
| ARC-LENGTH CORRECTION FACTOR → |               |        |                 |         |      |                 |         |      |                |         |      | .85                                       | .87     | .86     | .89     | .90     | .91     | .91     | .92     |
| 1.15                           | 5.50          | 6.30   | 1524            | 14.0    | 9.7  | 1010            | 9.9     | 7.2  | 757            | 7.7     | 5.7  | 15.7                                      | 18.7    | 20.7    | 22.2    | 24.2    | 26.2    | 28.2    | 30.7    |
|                                | 8.50          | 9.75   | 1523            | 27.1    | 22.4 | 1010            | 19.1    | 16.1 | 757            | 14.9    | 12.7 | ...                                       | 13.7    | 15.7    | 17.2    | 19.2    | 21.2    | 23.2    | 25.7    |
|                                | 9.00          | 10.30  | 1527            | 29.1    | 24.0 | 1012            | 20.6    | 17.6 | 757            | 16.0    | 13.8 | ...                                       | 12.8    | 14.8    | 16.3    | 18.3    | 20.3    | 22.3    | 24.8    |
|                                | 10.30         | 11.80  | 1526            | 34.3    | 28.6 | 1011            | 24.4    | 21.2 | 757            | 19.0    | 16.7 | ...                                       | ...     | 1.26    | 14.1    | 16.1    | 18.1    | 20.1    | 22.6    |
|                                | 10.90         | 12.50  | 1524            | 38.6    | 30.7 | 1010            | 26.2    | 22.8 | 757            | 20.4    | 18.1 | ...                                       | ...     | ...     | 1.31    | 15.1    | 17.1    | 19.1    | 21.6    |
| 1.16                           | 8.00          | 9.25   | 1511            | 25.0    | 20.2 | 1002            | 17.6    | 14.7 | 750            | 13.7    | 11.6 | 11.4                                      | 14.4    | 16.4    | 17.9    | 19.9    | 21.9    | 23.9    | 26.4    |
|                                | 9.75          | 11.30  | 1508            | 32.2    | 26.7 | 999             | 22.8    | 19.7 | 750            | 17.8    | 15.5 | ...                                       | ...     | 13.5    | 14.9    | 16.9    | 19.0    | 21.0    | 23.5    |
| 1.17                           | 11.30         | 13.20  | 1496            | 38.2    | 32.0 | 992             | 27.3    | 24.0 | 744            | 21.3    | 19.0 | ...                                       | ...     | ...     | ...     | ...     | 16.2    | 18.2    | 20.7    |
|                                | 16.00         | 18.70  | 1496            | ...     | ...  | 992             | 40.0    | 35.5 | 744            | 31.5    | 28.6 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     | ...     |
| 1.18                           | 9.25          | 10.90  | 1483            | 30.2    | 25.0 | 983             | 21.4    | 18.4 | 737            | 16.6    | 14.4 | ...                                       | 12.2    | 14.2    | 15.7    | 17.7    | 19.7    | 21.7    | 24.2    |
| ARC-LENGTH CORRECTION FACTOR → |               |        |                 |         |      |                 |         |      |                |         |      | .85                                       | .87     | .86     | .89     | .90     | .91     | .91     | .92     |
| 1.19                           | 4.40          | 5.20   | 1475            | 9.1     | 5.0  | 978             | 6.4     | 3.8  | 731            | 5.1     | 3.1  | 17.5                                      | 20.5    | 22.5    | 24.0    | 26.0    | 28.0    | 30.0    | 32.5    |
|                                | 4.65          | 5.50   | 1475            | 10.2    | 6.1  | 977             | 7.3     | 4.6  | 731            | 5.7     | 3.7  | 17.0                                      | 20.0    | 22.0    | 23.5    | 25.5    | 27.5    | 29.5    | 32.0    |
|                                | 6.30          | 7.50   | 1466            | 17.7    | 13.4 | 972             | 12.5    | 9.7  | 731            | 9.7     | 7.7  | 14.1                                      | 17.2    | 19.2    | 20.7    | 22.7    | 24.7    | 26.7    | 29.2    |
|                                | 11.80         | 14.00  | 1473            | 40.1    | 33.7 | 976             | 28.8    | 25.3 | 731            | 22.4    | 20.1 | ...                                       | ...     | ...     | ...     | ...     | 15.2    | 17.2    | 19.7    |
| 1.20                           | 6.70          | 8.00   | 1462            | 19.5    | 15.1 | 969             | 13.7    | 11.0 | 725            | 10.7    | 8.6  | 13.4                                      | 16.4    | 18.4    | 19.9    | 22.0    | 24.0    | 26.0    | 28.5    |
|                                | 7.10          | 8.50   | 1458            | 21.3    | 16.7 | 967             | 15.0    | 12.2 | 725            | 11.6    | 9.6  | 12.7                                      | 15.7    | 17.7    | 19.2    | 21.2    | 23.2    | 25.2    | 27.7    |
|                                | 7.50          | 9.00   | 1455            | 23.0    | 18.4 | 964             | 16.2    | 13.4 | 725            | 12.6    | 10.5 | 12.0                                      | 15.0    | 17.0    | 18.5    | 20.5    | 22.5    | 24.5    | 27.0    |
|                                | 12.50         | 15.00  | 1456            | 42.6    | 35.8 | 965             | 30.8    | 27.2 | 725            | 24.0    | 21.6 | ...                                       | ...     | ...     | ...     | ...     | ...     | 15.9    | 18.4    |
| 1.21                           | 4.90          | 5.90   | 1448            | 11.4    | 7.3  | 960             | 8.1     | 5.4  | 719            | 6.3     | 4.4  | 16.5                                      | 19.5    | 21.5    | 23.0    | 25.0    | 27.0    | 29.0    | 31.5    |
|                                | 5.90          | 7.10   | 1450            | 16.0    | 11.7 | 961             | 11.3    | 8.5  | 719            | 8.8     | 6.8  | 14.8                                      | 17.8    | 19.8    | 21.3    | 23.3    | 25.3    | 27.3    | 29.8    |
|                                | 8.50          | 10.30  | 1441            | 27.2    | 22.3 | 955             | 19.2    | 16.3 | 719            | 14.9    | 12.8 | ...                                       | 13.2    | 15.2    | 16.7    | 18.7    | 20.7    | 22.7    | 25.2    |
|                                | 9.00          | 10.90  | 442             | 29.3    | 24.2 | 956             | 20.7    | 17.7 | 719            | 16.1    | 14.0 | ...                                       | 12.3    | 14.3    | 15.8    | 17.8    | 19.8    | 21.9    | 24.4    |
|                                | 9.75          | 11.80  | 1443            | 32.3    | 26.9 | 957             | 22.9    | 19.8 | 719            | 17.8    | 15.6 | ...                                       | ...     | 13.0    | 14.5    | 16.5    | 18.5    | 20.5    | 23.1    |
|                                | 10.90         | 13.20  | 1443            | 38.8    | 30.9 | 956             | 26.3    | 23.0 | 719            | 20.5    | 18.2 | ...                                       | ...     | ...     | ...     | 14.5    | 16.5    | 18.5    | 21.0    |
| 13.20                          | 16.00         | 1442   | 45.1            | 37.8    | 956  | 32.7            | 29.0    | 719  | 25.6           | 23.1    | ...  | ...                                       | ...     | ...     | ...     | ...     | ...     | 17.0    |         |
| 1.22                           | 5.20          | 6.30   | 1440            | 12.8    | 8.7  | 954             | 9.1     | 6.4  | 713            | 7.1     | 5.1  | 16.0                                      | 19.0    | 21.0    | 22.5    | 24.5    | 26.5    | 28.5    | 31.0    |
|                                | 5.50          | 6.70   | 1432            | 14.2    | 10.0 | 949             | 10.0    | 7.3  | 713            | 7.8     | 5.8  | 15.4                                      | 18.4    | 20.4    | 21.9    | 23.9    | 25.9    | 27.9    | 30.4    |
|                                | 8.00          | 9.75   | 1433            | 25.2    | 20.4 | 950             | 17.7    | 14.9 | 713            | 13.8    | 11.7 | ...                                       | 14.0    | 16.0    | 17.5    | 19.5    | 21.5    | 23.5    | 26.0    |
|                                | 9.25          | 11.30  | 1430            | 30.3    | 25.2 | 948             | 21.5    | 18.5 | 713            | 16.7    | 14.5 | ...                                       | ...     | 13.8    | 15.3    | 17.3    | 19.3    | 21.3    | 23.8    |
|                                | 10.30         | 12.50  | 1440            | 34.5    | 28.9 | 954             | 24.6    | 21.4 | 713            | 19.1    | 16.9 | ...                                       | ...     | ...     | 13.6    | 15.6    | 17.6    | 19.6    | 22.1    |
| 1.24                           | 7.50          | 9.25   | 1415            | 23.1    | 18.5 | 938             | 16.3    | 13.4 | 702            | 12.6    | 10.5 | 11.8                                      | 14.8    | 16.8    | 18.3    | 20.3    | 22.3    | 24.3    | 26.8    |
|                                | 11.30         | 14.00  | 1410            | 38.4    | 32.3 | 935             | 27.5    | 24.1 | 702            | 21.4    | 19.0 | ...                                       | ...     | ...     | ...     | ...     | 15.6    | 17.6    | 20.1    |
| 1.25                           | 15.00         | 18.70  | 1402            | ...     | ...  | 929             | 37.6    | 33.4 | 696            | 29.5    | 26.8 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     | ...     |
| 1.26                           | 4.40          | 5.50   | 1394            | 9.2     | 5.2  | 924             | 6.6     | 3.9  | 690            | 5.1     | 3.2  | 17.2                                      | 20.2    | 22.2    | 23.7    | 25.7    | 27.7    | 29.7    | 32.2    |
|                                | 9.00          | 11.30  | 1391            | 29.4    | 24.3 | 922             | 20.8    | 17.8 | 690            | 16.1    | 14.0 | ...                                       | 12.0    | 14.0    | 15.5    | 17.5    | 19.5    | 21.5    | 24.0    |
| 1.27                           | 4.65          | 5.90   | 1373            | 10.4    | 6.4  | 910             | 7.4     | 4.9  | 685            | 5.8     | 3.8  | 16.7                                      | 19.7    | 21.7    | 23.2    | 25.2    | 27.2    | 29.2    | 31.7    |
|                                | 6.30          | 8.00   | 1373            | 17.9    | 13.6 | 910             | 12.6    | 9.9  | 685            | 9.8     | 7.8  | 13.7                                      | 16.7    | 18.7    | 20.3    | 22.3    | 24.3    | 26.3    | 28.8    |
|                                | 6.70          | 8.50   | 1375            | 19.7    | 15.3 | 911             | 13.8    | 11.1 | 685            | 10.7    | 8.7  | 13.0                                      | 16.0    | 18.0    | 19.5    | 21.5    | 23.6    | 25.6    | 28.1    |
|                                | 7.10          | 9.00   | 1376            | 21.4    | 16.9 | 912             | 15.1    | 12.3 | 685            | 11.7    | 9.7  | 12.3                                      | 15.3    | 17.3    | 18.8    | 20.8    | 22.8    | 24.8    | 27.3    |
|                                | 11.80         | 15.00  | 1374            | 40.3    | 33.9 | 911             | 28.9    | 25.5 | 685            | 22.5    | 20.2 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     | 16.4    |
| 1.28                           | 5.90          | 7.50   | 1372            | 16.1    | 11.9 | 909             | 11.4    | 8.7  | 680            | 8.8     | 6.9  | 14.5                                      | 17.5    | 19.5    | 21.0    | 23.0    | 25.0    | 27.0    | 29.5    |
|                                | 9.25          | 11.80  | 1369            | 30.5    | 25.3 | 907             | 21.6    | 18.6 | 680            | 16.8    | 14.6 | ...                                       | ...     | 13.4    | 14.9    | 16.9    | 18.9    | 20.9    | 23.4    |
|                                | 9.75          | 12.50  | 1362            | 32.5    | 27.1 | 903             | 23.0    | 20.0 | 680            | 17.9    | 15.7 | ...                                       | ...     | ...     | 14.0    | 16.0    | 18.0    | 20.0    | 22.5    |
|                                | 10.30         | 13.20  | 1363            | 34.6    | 29.1 | 903             | 24.6    | 21.5 | 680            | 19.2    | 16.9 | ...                                       | ...     | ...     | ...     | 15.0    | 17.0    | 19.0    | 21.5    |
|                                | 12.50         | 16.00  | 1365            | 42.8    | 36.0 | 905             | 30.9    | 27.3 | 680            | 24.1    | 21.7 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     | 17.5    |
| 1.29                           | 4.90          | 6.30   | 1355            | 11.6    | 7.5  | 898             | 8.2     | 5.6  | 674            | 6.4     | 4.5  | 16.2                                      | 19.2    | 21.2    | 22.7    | 24.7    | 26.7    | 28.7    | 31.2    |
|                                | 5.20          | 6.70   | 1352            | 13.0    | 8.9  | 896             | 9.2     | 6.5  | 674            | 7.1     | 5.2  | 15.6                                      | 18.6    | 20.6    | 22.1    | 24.1    | 26.1    | 28.1    | 30.6    |
|                                | 8.00          | 10.30  | 1355            | 25.3    | 20.6 | 898             | 17.8    | 15.0 | 674            | 13.9    | 11.8 | ...                                       | 13.6    | 15.6    | 17.1    | 19.1    | 21.1    | 23.1    | 25.6    |
|                                | 8.50          | 10.90  | 1361            | 27.4    | 22.5 | 902             | 19.3    | 16.4 | 674            | 15.0    | 12.9 | ...                                       | 12.7    | 14.7    | 16.2    | 18.2    | 20.2    | 22.2    | 24.7    |
|                                | 10.90         | 14.00  | 1360            | 37.0    | 31.1 | 901             | 26.4    | 23.1 | 674            | 20.5    | 18.3 | ...                                       | ...     | ...     | ...     | 13.9    | 15.9    | 17.9    | 20.4    |

NOTE: \* 5VX = Single and Polyband belts to 200" length  
5V = Single and Polyband belts over 200" long

\*\* Stock belt size 5VX530 not shown

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).



# SELECTION



**5VX** D-V Wedge  
Single Belts to 200"  
POLYBAND to 200"

**5V** D-V Wedge  
Single Belts over 200"  
POLYBAND over 200"

## STOCK DRIVE SELECTION

| Ratio | Belt Number and Approx. Center Distance** |         |         |          |          |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |         |         |
|-------|---|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|---------|---------|
|       | 5VX 850                                   | 5VX 900 | 5VX 950 | 5VX 1000 | 5VX 1060 | 5VX 1120 | 5VX 1180 | 5VX 1250 | 5VX 1320 | 5VX 1400 | 5VX 1500 | 5VX 1600 | 5VX 1700 | 5VX 1800 | 5VX 1900 | 5VX 2000 | 5V 2120 | 5V 2240 | 5V 2500 | 5V 2800 | 5V 3150 | 5V 3550 |
| 1.13  | 34.3                                      | 36.8    | 39.3    | 41.8     | 44.8     | 47.8     | 50.8     | 54.3     | 57.8     | 61.8     | 67       | 72       | 77       | 82       | 87       | 92       | 98      | 104     | 117     | 132     | 149     | 169     |
|       | 32.0                                      | 34.5    | 37.0    | 39.5     | 42.5     | 45.5     | 48.5     | 52.0     | 55.5     | 59.5     | 64       | 69       | 74       | 79       | 84       | 89       | 95      | 101     | 114     | 129     | 147     | 167     |
|       | 30.6                                      | 33.1    | 35.6    | 38.1     | 41.1     | 44.1     | 47.1     | 50.6     | 54.1     | 58.1     | 63       | 68       | 73       | 78       | 83       | 88       | 94      | 100     | 113     | 128     | 146     | 166     |
|       | 29.1                                      | 31.6    | 34.1    | 36.6     | 39.6     | 42.6     | 45.6     | 49.1     | 52.6     | 56.6     | 62       | 67       | 72       | 77       | 82       | 87       | 93      | 99      | 112     | 127     | 144     | 164     |
| 1.14  | 33.8                                      | 36.3    | 38.8    | 41.3     | 44.3     | 47.3     | 50.3     | 53.8     | 57.3     | 61.3     | 66       | 71       | 76       | 81       | 86       | 91       | 97      | 103     | 116     | 131     | 147     | 169     |
|       | 32.6                                      | 35.1    | 37.6    | 41.1     | 43.1     | 46.1     | 49.1     | 52.6     | 56.1     | 60.1     | 65       | 70       | 75       | 80       | 85       | 90       | 96      | 102     | 115     | 130     | 148     | 168     |
|       | 29.9                                      | 32.4    | 34.9    | 37.4     | 40.4     | 43.4     | 46.4     | 49.9     | 53.4     | 57.4     | 62       | 67       | 72       | 77       | 82       | 87       | 93      | 99      | 112     | 127     | 145     | 165     |
|       | 20.3                                      | 22.8    | 25.3    | 27.8     | 30.8     | 33.8     | 36.8     | 40.3     | 43.8     | 47.8     | 53       | 58       | 63       | 68       | 73       | 78       | 84      | 90      | 103     | 118     | 135     | 155     |
| 1.15  | 18.9                                      | 21.4    | 23.9    | 26.4     | 29.4     | 32.4     | 35.4     | 38.9     | 42.4     | 46.4     | 51       | 56.      | 61       | 66       | 71       | 76       | 82      | 88      | 101     | 116     | 134     | 154     |
|       | .93                                       | .94     | .95     | .96      | .97      | .98      | .99      | 1.00     | 1.01     | 1.02     | 1.03     | 1.04     | 1.05     | 1.06     | 1.07     | 1.08     | 1.08    | 1.09    | 1.11    | 1.13    | 1.15    | 1.17    |
| 1.15  | 33.2                                      | 35.7    | 38.2    | 40.7     | 43.7     | 46.7     | 49.7     | 53.2     | 56.7     | 60.7     | 66       | 71       | 76       | 81       | 86       | 91       | 97      | 103     | 116     | 131     | 146     | 168     |
|       | 28.2                                      | 30.7    | 33.2    | 35.7     | 38.7     | 41.7     | 44.7     | 48.2     | 51.7     | 55.7     | 61       | 66       | 71       | 76       | 81       | 86       | 92      | 98      | 111     | 126     | 148     | 163     |
|       | 27.3                                      | 29.8    | 32.3    | 34.8     | 37.8     | 40.8     | 43.8     | 47.3     | 50.8     | 54.8     | 60       | 65       | 70       | 75       | 80       | 85       | 91      | 97      | 110     | 125     | 142     | 162     |
|       | 25.1                                      | 27.6    | 30.1    | 32.6     | 35.6     | 38.6     | 41.6     | 45.1     | 48.6     | 52.6     | 58       | 63       | 68       | 73       | 78       | 83       | 89      | 95      | 108     | 123     | 140     | 160     |
| 1.16  | 24.1                                      | 26.6    | 29.1    | 31.6     | 34.6     | 37.6     | 40.6     | 44.1     | 47.6     | 51.6     | 57       | 62       | 67       | 72       | 77       | 82       | 88      | 94      | 107     | 122     | 139     | 159     |
|       | 28.9                                      | 31.4    | 33.9    | 36.4     | 39.4     | 42.4     | 45.4     | 46.9     | 52.4     | 56.4     | 61       | 66       | 71       | 76       | 81       | 86       | 92      | 98      | 111     | 126     | 144     | 164     |
| 1.17  | 26.0                                      | 28.5    | 31.0    | 33.5     | 36.5     | 39.5     | 42.5     | 46.0     | 49.5     | 53.5     | 58       | 63       | 68       | 73       | 78       | 83       | 89      | 95      | 108     | 123     | 141     | 161     |
|       | 23.2                                      | 25.7    | 28.3    | 30.8     | 33.8     | 36.8     | 39.8     | 43.3     | 46.8     | 50.8     | 56       | 61       | 66       | 71       | 76       | 81       | 89      | 93      | 106     | 121     | 138     | 158     |
| 1.18  | ...                                       | ...     | 20.2    | 22.7     | 25.7     | 28.7     | 31.7     | 35.2     | 38.7     | 42.7     | 47       | 53       | 58       | 63       | 68       | 73       | 79      | 85      | 98      | 113     | 130     | 150     |
|       | 26.7                                      | 29.2    | 31.7    | 34.2     | 37.2     | 40.2     | 43.2     | 46.7     | 50.2     | 54.2     | 59       | 64       | 69       | 74       | 79       | 84       | 90      | 96      | 109     | 124     | 142     | 162     |
|       | .93                                       | .94     | .95     | .96      | .97      | .98      | .99      | 1.00     | 1.01     | 1.02     | 1.03     | 1.04     | 1.05     | 1.06     | 1.07     | 1.08     | 1.08    | 1.09    | 1.11    | 1.13    | 1.15    | 1.17    |
| 1.19  | 35.0                                      | 37.5    | 40.0    | 42.5     | 45.5     | 48.5     | 51.5     | 55.0     | 58.5     | 62.5     | 67       | 72       | 77       | 82       | 87       | 92       | 98      | 104     | 117     | 132     | 150     | 170     |
|       | 34.5                                      | 37.0    | 39.5    | 42.0     | 45.0     | 48.0     | 51.0     | 54.5     | 59.0     | 62.0     | 67       | 72       | 77       | 82       | 87       | 92       | 98      | 104     | 117     | 132     | 150     | 170     |
|       | 31.7                                      | 34.2    | 36.7    | 39.2     | 42.2     | 45.2     | 48.2     | 51.7     | 55.2     | 59.2     | 64       | 69       | 74       | 79       | 84       | 89       | 95      | 101     | 114     | 129     | 147     | 167     |
|       | 22.2                                      | 24.7    | 27.2    | 29.7     | 32.7     | 35.7     | 38.7     | 42.2     | 45.7     | 49.7     | 54       | 60       | 65       | 70       | 75       | 80       | 86      | 92      | 105     | 132     | 137     | 157     |
| 1.20  | 31.0                                      | 33.5    | 36.0    | 38.5     | 41.5     | 44.5     | 47.5     | 51.0     | 54.5     | 58.5     | 63       | 68       | 73       | 78       | 83       | 88       | 94      | 100     | 113     | 128     | 146     | 166     |
|       | 30.2                                      | 32.7    | 35.2    | 37.7     | 40.7     | 43.7     | 46.7     | 50.2     | 53.7     | 57.7     | 63       | 68       | 73       | 77       | 83       | 88       | 94      | 100     | 113     | 129     | 145     | 165     |
|       | 29.5                                      | 32.0    | 34.5    | 37.0     | 40.0     | 43.0     | 46.0     | 49.5     | 53.0     | 57.0     | 62       | 67       | 72       | 77       | 82       | 87       | 93      | 99      | 112     | 127     | 145     | 165     |
|       | 20.9                                      | 23.4    | 25.9    | 28.4     | 31.4     | 34.4     | 37.4     | 40.9     | 44.4     | 48.4     | 53       | 58       | 63       | 68       | 73       | 78       | 84      | 90      | 103     | 118     | 136     | 156     |
| 1.21  | 34.0                                      | 36.5    | 39.0    | 41.5     | 44.5     | 47.5     | 50.5     | 54.0     | 57.5     | 61.5     | 66       | 71       | 76       | 81       | 86       | 91       | 97      | 103     | 117     | 132     | 149     | 169     |
|       | 32.3                                      | 34.8    | 37.3    | 39.8     | 42.8     | 45.8     | 48.8     | 52.3     | 55.8     | 59.8     | 65       | 70       | 75       | 80       | 85       | 90       | 96      | 102     | 115     | 130     | 147     | 167     |
|       | 27.7                                      | 30.2    | 32.7    | 35.2     | 38.2     | 41.2     | 44.2     | 47.7     | 51.2     | 55.2     | 60       | 65       | 70       | 75       | 80       | 85       | 91      | 97      | 110     | 125     | 143     | 163     |
|       | 26.9                                      | 29.4    | 31.9    | 34.4     | 37.4     | 40.4     | 43.4     | 46.9     | 50.4     | 54.4     | 59       | 64       | 69       | 74       | 79       | 84       | 90      | 96      | 109     | 124     | 142     | 162     |
|       | 25.6                                      | 28.1    | 30.6    | 33.1     | 36.1     | 39.1     | 42.1     | 45.6     | 49.1     | 53.1     | 58       | 63       | 68       | 73       | 78       | 83       | 89      | 95      | 108     | 123     | 141     | 161     |
|       | 23.5                                      | 26.0    | 28.5    | 31.1     | 34.1     | 37.1     | 40.1     | 43.6     | 47.1     | 51.1     | 56       | 61       | 66       | 71       | 76       | 81       | 87      | 93      | 106     | 121     | 139     | 159     |
| 1.22  | 19.5                                      | 22.0    | 24.5    | 27.0     | 30.0     | 33.0     | 36.0     | 39.5     | 43.0     | 47.0     | 52       | 57       | 62       | 67       | 72       | 77       | 83      | 89      | 102     | 117     | 135     | 155     |
| 1.22  | 33.5                                      | 36.0    | 38.5    | 41.0     | 44.0     | 47.0     | 50.0     | 53.5     | 57.0     | 61.0     | 66       | 71       | 76       | 81       | 86       | 91       | 97      | 103     | 116     | 131     | 149     | 169     |
|       | 32.9                                      | 35.4    | 37.9    | 40.4     | 43.4     | 46.4     | 49.4     | 52.9     | 56.4     | 60.4     | 65       | 70       | 75       | 80       | 85       | 90       | 96      | 102     | 115     | 130     | 148     | 168     |
|       | 28.5                                      | 31.0    | 33.5    | 36.0     | 39.0     | 42.1     | 45.1     | 48.6     | 52.1     | 56.1     | 61       | 66       | 71       | 76       | 81       | 86       | 92      | 98      | 111     | 125     | 144     | 164     |
|       | 26.3                                      | 28.8    | 31.3    | 33.8     | 36.8     | 39.8     | 42.8     | 46.3     | 49.8     | 53.9     | 59       | 63       | 68       | 73       | 78       | 83       | 89      | 95      | 109     | 124     | 141     | 161     |
| 1.24  | 24.6                                      | 27.1    | 29.6    | 32.1     | 35.1     | 38.1     | 41.1     | 44.6     | 48.1     | 52.1     | 57       | 62       | 67       | 72       | 77       | 82       | 88      | 94      | 107     | 122     | 140     | 160     |
|       | 29.3                                      | 31.8    | 34.3    | 36.8     | 39.8     | 42.8     | 45.8     | 49.3     | 52.8     | 56.8     | 62       | 67       | 72       | 77       | 82       | 87       | 93      | 99      | 112     | 127     | 144     | 164     |
| 1.25  | 22.6                                      | 25.1    | 27.6    | 30.1     | 33.1     | 36.1     | 39.1     | 42.6     | 46.1     | 50.1     | 55       | 60       | 65       | 70       | 75       | 80       | 86      | 92      | 105     | 120     | 138     | 158     |
|       | ...                                       | ...     | 21.0    | 23.5     | 26.5     | 29.5     | 32.5     | 36.0     | 39.5     | 43.5     | 49       | 54       | 59       | 64       | 69       | 74       | 80      | 86      | 99      | 114     | 131     | 151     |
| 1.26  | 34.7                                      | 37.2    | 39.7    | 42.2     | 45.2     | 48.2     | 51.2     | 54.7     | 58.2     | 62.2     | 67       | 72       | 77       | 82       | 87       | 92       | 98      | 104     | 117     | 132     | 150     | 170     |
|       | 26.5                                      | 29.0    | 31.5    | 34.0     | 37.0     | 40.0     | 43.0     | 46.5     | 50.0     | 54.0     | 59       | 64       | 69       | 74       | 79       | 84       | 90      | 96      | 109     | 124     | 142     | 162     |
|       | 34.2                                      | 36.7    | 39.2    | 41.7     | 44.7     | 47.7     | 50.7     | 54.2     | 57.7     | 61.7     | 67       | 72       | 77       | 82       | 87       | 92       | 98      | 104     | 117     | 132     | 149     | 169     |
|       | 31.3                                      | 33.8    | 36.3    | 38.8     | 41.8     | 44.8     | 47.8     | 51.3     | 54.8     | 58.8     | 64       | 69       | 74       | 79       | 83       | 89       | 95      | 101     | 114     | 129     | 146     | 166     |
| 1.27  | 30.6                                      | 32.3    | 34.8    | 37.3     | 40.3     | 43.3     | 46.3     | 49.8     | 53.3     | 57.3     | 62       | 67       | 72       | 77       | 82       | 87       | 93      | 99      | 112     | 127     | 145     | 165     |
|       | 29.8                                      | 32.3    | 34.8    | 37.3     | 40.3     | 43.3     | 46.3     | 49.8     | 53.3     | 57.3     | 62       | 67       | 72       | 77       | 82       | 87       | 93      | 99      | 112     | 127     | 145     | 165     |
|       | 21.4                                      | 23.9    | 26.4    | 28.9     | 31.9     | 34.9     | 37.9     | 41.4     | 44.9     | 48.9     | 54       | 59       | 64       | 70       | 74       | 79       | 85      | 91      | 104     | 119     | 136     | 156     |
|       | 32.0                                      | 34.5    | 37.0    | 39.5     | 42.5     | 45.5     | 48.5     | 52.0     | 55.5     | 59.5     | 64       | 69       | 74       | 79       | 84       | 89       | 95      | 101     | 114     | 129     | 147     | 167     |
| 1.28  | 25.9                                      | 28.4    | 30.9    | 33.4     | 36.4     | 39.4     | 42.4     | 45.9     | 49.5     | 53.5     | 58       | 63       | 68       | 73       | 78       | 83       | 89      | 95      | 108     | 123     | 141     | 161     |
|       | 25.0                                      | 27.5    | 30.0    | 32.5     | 35.5     | 38.5     | 41.5     | 45.0     | 48.5     | 52.5     | 57       | 62       | 67       | 72       | 77       | 82       | 88      | 94      | 108     | 123     | 140     | 160     |
|       | 24.0                                      | 26.5    | 29.0    | 31.5     | 34.5     | 37.5     | 40.5     | 44.0     | 47.5     | 51.5     | 56       | 61       | 66       | 71       | 75       | 81       | 87      | 93      | 107     | 122     | 139     | 159     |
|       | 20.0                                      | 22.5    | 25.1    | 27.6     | 30.6     | 33.6     | 36.6     | 40.1     | 43.6     | 47.6     | 52       | 58       | 63       | 68       | 73       | 78       | 84      | 90      | 103     | 118     | 135     | 155     |
| 1.29  | 33.7                                      | 36.2    | 38.7    | 41.2     | 44.2     | 47.2     | 50.2     | 53.7     | 57.2     | 61.2     | 66       | 71       | 76       | 81       | 86       | 91       | 97      | 103     | 116     | 131     | 149     | 169     |
|       | 32.2                                      | 35.7    | 38.2    | 40.7     | 43.7     | 46.7     | 49.7     | 53.2     | 56.7     | 60.7     | 66       | 71       | 76       | 81       | 86       | 91       | 97      | 103     | 116     | 131     | 148     | 168     |
|       | 28.1                                      | 30.6    | 33.1    | 35.6     | 38.6     | 41.6     | 44.6     | 48.1     | 51.6     | 55.6     | 61       | 66       | 71       | 76       | 81       | 86       | 92      | 98      | 111     | 126     | 143     | 163     |
|       | 27.2                                      | 29.7    | 32.2    | 34.7     | 37.7     | 40.7     | 43.7     | 47.2     | 50.7     | 54.8     | 60       | 65       | 70       | 75       | 80       | 85       | 91      | 97      | 110     | 125     | 142     | 162     |
| 1.29  | 22.9                                      | 25.4    | 27.9    | 30.4     | 33.4     | 36.4     | 39.4     | 42.9     | 46.4     | 50.4     | 55       | 60       | 65       | 70       | 75       | 80       | 86      | 92      | 105     | 120     | 138     | 158     |

NOTES: \*\* Stock belt size 5V2650 & 5V3350 not shown  
Arc & Length Factors are approximate values  
Refer to Selection Procedure for more precise values

# SELECTION



**5VX** D-V Wedge  
Single Belts to 200"  
POLYBAND to 200"

**5V** D-V Wedge  
Single Belts over 200"  
POLYBAND over 200"

## STOCK DRIVE SELECTION

| Ratio                          | Stock Sheaves |        | 1750 RPM Driver |         |      | 1160 RPM Driver |         |      | 870 RPM Driver |         |      | Belt Number and Approx. Center Distance** |            |            |            |            |            |            |            |  |  |  |
|--------------------------------|---------------|--------|-----------------|---------|------|-----------------|---------|------|----------------|---------|------|---|------------|------------|------------|------------|------------|------------|------------|--|--|--|
|                                | Diameter      |        | Driven<br>RPM   | HP/Belt |      | Driven<br>RPM   | HP/Belt |      | Driven<br>RPM  | HP/Belt |      | 5VX<br>500                                | 5VX<br>560 | 5VX<br>600 | 5VX<br>630 | 5VX<br>670 | 5VX<br>710 | 5VX<br>750 | 5VX<br>800 |  |  |  |
|                                | Driver        | Driven |                 | 5VX     | 5V   |                 | 5VX     | 5V   |                | 5VX     | 5V   |   |            |            |            |            |            |            |            |  |  |  |
| 1.30                           | 5.50          | 7.10   | 1350            | 14.4    | 10.2 | 895             | 10.1    | 7.5  | 669            | 7.9     | 5.9  | 15.1                                      | 18.1       | 20.1       | 21.6       | 23.6       | 25.6       | 27.6       | 30.1       |  |  |  |
|                                | 7.50          | 9.75   | 1342            | 23.2    | 18.6 | 890             | 16.3    | 13.5 | 669            | 12.7    | 10.6 | 11.4                                      | 14.4       | 16.4       | 17.9       | 19.9       | 21.9       | 23.9       | 26.4       |  |  |  |
| ARC-LENGTH CORRECTION FACTOR → |               |        |                 |         |      |                 |         |      |                |         |      | .84                                       | .86        | .87        | .88        | .89        | .90        | .91        | .92        |  |  |  |
| 1.31                           | 7.10          | 9.25   | 1339            | 21.5    | 17.0 | 887             | 15.1    | 12.3 | 664            | 11.7    | 9.7  | 12.1                                      | 15.1       | 17.1       | 18.6       | 20.6       | 22.6       | 24.6       | 27.1       |  |  |  |
|                                | 9.00          | 11.80  | 1331            | 29.5    | 24.5 | 882             | 20.9    | 17.9 | 664            | 16.2    | 14.1 | ...                                       | ...        | 13.6       | 15.1       | 17.1       | 19.1       | 21.1       | 23.6       |  |  |  |
| 1.33                           | 8.50          | 11.30  | 1313            | 27.5    | 22.6 | 870             | 19.4    | 16.5 | 654            | 15.1    | 13.0 | ...                                       | 12.4       | 14.4       | 15.9       | 17.9       | 19.9       | 21.9       | 24.4       |  |  |  |
|                                | 11.30         | 15.00  | 1315            | 38.5    | 32.5 | 872             | 27.6    | 24.2 | 654            | 21.5    | 19.2 | ...                                       | ...        | ...        | ...        | ...        | 14.7       | 16.8       | 19.3       |  |  |  |
|                                | 16.00         | 21.20  | 1319            | ...     | ...  | 874             | ...     | ...  | 654            | 31.7    | 28.9 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        | ...        |  |  |  |
| 1.34                           | 14.00         | 18.70  | 1308            | 48.0    | 40.2 | 867             | 35.0    | 31.1 | 649            | 27.4    | 24.9 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        | ...        |  |  |  |
| 1.35                           | 4.40          | 5.90   | 1297            | 9.4     | 5.4  | 860             | 6.7     | 4.1  | 644            | 5.2     | 3.3  | 16.9                                      | 19.9       | 21.9       | 23.4       | 25.4       | 27.4       | 29.4       | 31.9       |  |  |  |
|                                | 6.30          | 8.50   | 1292            | 18.0    | 13.7 | 856             | 12.7    | 10.2 | 644            | 9.9     | 7.9  | 13.3                                      | 16.3       | 18.3       | 19.9       | 21.8       | 23.9       | 25.9       | 28.4       |  |  |  |
|                                | 6.70          | 9.00   | 1298            | 19.8    | 15.4 | 860             | 13.9    | 11.2 | 644            | 10.8    | 8.8  | 12.6                                      | 15.6       | 17.6       | 19.1       | 21.1       | 23.1       | 25.1       | 27.7       |  |  |  |
| 1.36                           | 4.65          | 6.30   | 1284            | 10.6    | 6.5  | 851             | 7.5     | 4.9  | 640            | 5.8     | 3.9  | 16.4                                      | 19.4       | 21.4       | 22.9       | 24.9       | 26.9       | 28.9       | 31.4       |  |  |  |
|                                | 5.90          | 8.00   | 1285            | 16.3    | 12.1 | 852             | 11.4    | 8.8  | 640            | 8.9     | 6.9  | 14.2                                      | 17.1       | 19.1       | 20.6       | 22.6       | 24.6       | 26.6       | 29.1       |  |  |  |
|                                | 9.25          | 12.50  | 1291            | 30.5    | 25.5 | 856             | 21.6    | 18.7 | 640            | 16.8    | 14.7 | ...                                       | ...        | 12.8       | 14.3       | 16.3       | 18.3       | 20.4       | 22.9       |  |  |  |
|                                | 9.75          | 13.20  | 1289            | 32.6    | 27.3 | 855             | 23.1    | 20.1 | 640            | 18.0    | 15.8 | ...                                       | ...        | ...        | 13.4       | 15.4       | 17.4       | 19.4       | 21.9       |  |  |  |
|                                | 10.30         | 14.00  | 1284            | 34.8    | 29.2 | 851             | 24.7    | 21.5 | 640            | 19.2    | 17.0 | ...                                       | ...        | ...        | ...        | 14.3       | 16.3       | 18.3       | 20.8       |  |  |  |
| 11.80                          | 16.00         | 1288   | 4.04            | 34.1    | 854  | 29.0            | 25.6    | 640  | 22.6           | 20.3    | ...  | ...                                       | ...        | ...        | ...        | ...        | 15.5       | 18.0       | 21.0       |  |  |  |
| ARC-LENGTH CORRECTION FACTOR → |               |        |                 |         |      |                 |         |      |                |         |      | .82                                       | .84        | .85        | .86        | .87        | .88        | .90        | .91        |  |  |  |
| 1.37                           | 5.20          | 7.10   | 1275            | 13.1    | 9.0  | 845             | 9.2     | 6.6  | 635            | 7.2     | 5.3  | 15.3                                      | 18.3       | 20.3       | 21.8       | 23.8       | 25.8       | 27.8       | 30.3       |  |  |  |
|                                | 5.50          | 7.50   | 1277            | 14.5    | 10.3 | 846             | 10.2    | 7.5  | 635            | 7.9     | 5.60 | 14.8                                      | 17.8       | 19.8       | 21.3       | 23.3       | 25.3       | 27.3       | 29.8       |  |  |  |
|                                | 8.00          | 10.90  | 1280            | 25.4    | 20.7 | 849             | 17.9    | 15.1 | 635            | 13.9    | 11.8 | ...                                       | 13.1       | 15.1       | 16.6       | 18.6       | 20.6       | 22.6       | 25.1       |  |  |  |
| 1.38                           | 4.90          | 6.70   | 1273            | 11.7    | 7.7  | 844             | 8.3     | 5.7  | 630            | 6.5     | 4.5  | 15.9                                      | 18.9       | 20.9       | 22.4       | 24.4       | 26.4       | 28.4       | 30.9       |  |  |  |
|                                | 7.10          | 9.75   | 1269            | 21.6    | 17.1 | 841             | 15.2    | 12.4 | 630            | 11.8    | 9.8  | 11.7                                      | 14.7       | 16.7       | 18.2       | 20.2       | 22.2       | 24.2       | 26.7       |  |  |  |
|                                | 7.50          | 10.30  | 1270            | 23.3    | 18.7 | 842             | 16.4    | 13.6 | 630            | 12.7    | 10.7 | ...                                       | 13.9       | 16.0       | 17.5       | 19.5       | 21.5       | 23.5       | 26.0       |  |  |  |
|                                | 10.90         | 15.00  | 1268            | 37.1    | 31.3 | 841             | 26.5    | 23.2 | 630            | 20.6    | 18.3 | ...                                       | ...        | ...        | ...        | ...        | ...        | 17.0       | 19.6       |  |  |  |
| 1.39                           | 6.70          | 9.25   | 1262            | 19.8    | 15.5 | 837             | 14.0    | 11.2 | 626            | 10.8    | 8.8  | 12.4                                      | 15.4       | 17.4       | 18.9       | 20.9       | 22.9       | 24.9       | 27.4       |  |  |  |
|                                | 8.50          | 11.80  | 1256            | 27.5    | 22.7 | 833             | 19.4    | 16.5 | 626            | 15.1    | 13.0 | ...                                       | ...        | 14.0       | 15.5       | 17.5       | 19.5       | 21.5       | 24.0       |  |  |  |
|                                | 9.00          | 12.50  | 1256            | 29.6    | 24.6 | 833             | 20.9    | 18.0 | 626            | 16.2    | 14.1 | ...                                       | ...        | 13.0       | 14.5       | 16.5       | 18.5       | 20.5       | 23.0       |  |  |  |
| 1.42                           | 8.00          | 11.30  | 1234            | 25.5    | 20.8 | 818             | 18.0    | 15.1 | 613            | 13.9    | 11.9 | ...                                       | 12.7       | 14.7       | 16.3       | 18.3       | 20.3       | 22.3       | 24.8       |  |  |  |
|                                | 11.30         | 16.00  | 1233            | 38.6    | 32.6 | 817             | 27.6    | 24.3 | 613            | 21.5    | 19.2 | ...                                       | ...        | ...        | ...        | ...        | ...        | 15.9       | 18.4       |  |  |  |
|                                | 13.20         | 18.70  | 1233            | 45.4    | 38.3 | 817             | 32.9    | 29.2 | 613            | 25.7    | 23.2 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        | ...        |  |  |  |
|                                | 15.00         | 21.20  | 1236            | ...     | ...  | 819             | ...     | ...  | 613            | 29.6    | 26.9 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        | ...        |  |  |  |
| 1.43                           | 9.25          | 13.20  | 1222            | 30.7    | 25.6 | 810             | 21.7    | 18.7 | 608            | 16.8    | 14.7 | ...                                       | ...        | ...        | 13.7       | 15.7       | 17.8       | 19.8       | 22.3       |  |  |  |
| 1.44                           | 4.40          | 6.30   | 1214            | 9.5     | 5.5  | 805             | 6.7     | 4.2  | 604            | 5.3     | 3.4  | 16.6                                      | 19.6       | 21.6       | 23.1       | 25.1       | 27.1       | 29.1       | 31.6       |  |  |  |
|                                | 6.30          | 9.00   | 1219            | 18.1    | 13.9 | 808             | 12.7    | 10.1 | 604            | 9.9     | 7.9  | 12.9                                      | 15.9       | 17.9       | 19.4       | 21.4       | 23.4       | 25.4       | 28.0       |  |  |  |
|                                | 9.75          | 14.00  | 1215            | 32.7    | 27.4 | 805             | 23.2    | 20.1 | 604            | 18.0    | 15.9 | ...                                       | ...        | ...        | ...        | 14.7       | 16.7       | 18.7       | 21.2       |  |  |  |
| 1.45                           | 4.65          | 6.70   | 1206            | 10.6    | 6.7  | 800             | 7.5     | 5.0  | 600            | 5.9     | 4.0  | 16.1                                      | 19.1       | 21.1       | 22.6       | 24.6       | 26.6       | 28.6       | 31.1       |  |  |  |
|                                | 5.20          | 7.50   | 1206            | 13.2    | 9.1  | 799             | 9.3     | 6.7  | 600            | 7.2     | 5.3  | 15.0                                      | 18.0       | 20.0       | 21.5       | 2.5        | 25.5       | 27.5       | 30.0       |  |  |  |
|                                | 5.90          | 8.50   | 1208            | 16.4    | 12.2 | 801             | 11.5    | 8.9  | 600            | 8.9     | 7.0  | 13.6                                      | 16.6       | 18.6       | 20.1       | 22.2       | 24.2       | 26.2       | 28.7       |  |  |  |
|                                | 4.90          | 7.10   | 1200            | 11.8    | 7.8  | 795             | 8.3     | 5.8  | 596            | 6.5     | 4.6  | 15.5                                      | 18.5       | 20.5       | 22.0       | 24.1       | 26.1       | 28.1       | 30.6       |  |  |  |
| 1.46                           | 5.50          | 8.00   | 1196            | 14.6    | 10.5 | 793             | 10.2    | 7.6  | 596            | 8.0     | 6.0  | 14.3                                      | 17.4       | 19.4       | 20.9       | 22.9       | 24.9       | 26.9       | 29.4       |  |  |  |
|                                | 6.70          | 9.75   | 1197            | 19.9    | 15.6 | 793             | 14.0    | 11.3 | 596            | 10.9    | 8.9  | 12.0                                      | 15.0       | 17.0       | 18.5       | 20.5       | 22.5       | 24.5       | 27.0       |  |  |  |
|                                | 7.10          | 10.30  | 1201            | 21.7    | 17.2 | 796             | 15.2    | 12.5 | 596            | 11.8    | 9.8  | 11.2                                      | 14.2       | 16.3       | 17.8       | 19.8       | 21.8       | 23.8       | 26.3       |  |  |  |
|                                | 7.50          | 10.90  | 1199            | 23.4    | 18.8 | 795             | 16.5    | 13.7 | 596            | 12.8    | 10.8 | ...                                       | 13.4       | 15.5       | 17.0       | 19.0       | 21.0       | 23.0       | 25.5       |  |  |  |
|                                | 10.30         | 15.00  | 1198            | 34.9    | 29.3 | 794             | 24.8    | 21.7 | 596            | 19.3    | 17.1 | ...                                       | ...        | ...        | ...        | ...        | 15.5       | 17.5       | 20.0       |  |  |  |
| 1.47                           | 9.00          | 13.20  | 1189            | 29.7    | 24.7 | 788             | 21.0    | 18.0 | 592            | 16.3    | 14.2 | ...                                       | ...        | ...        | 13.9       | 15.9       | 17.9       | 20.0       | 22.5       |  |  |  |
|                                | 10.90         | 16.00  | 1189            | 37.2    | 31.4 | 788             | 26.5    | 23.3 | 592            | 20.6    | 18.4 | ...                                       | ...        | ...        | ...        | ...        | ...        | 16.2       | 18.7       |  |  |  |
| ARC-LENGTH CORRECTION FACTOR → |               |        |                 |         |      |                 |         |      |                |         |      | .82                                       | .84        | .85        | .86        | .87        | .88        | .90        | .91        |  |  |  |
| 1.48                           | 6.30          | 9.25   | 1186            | 18.2    | 13.9 | 590             | 12.8    | 10.1 | 588            | 9.9     | 8.   | 12.7                                      | 15.7       | 17.7       | 19.2       | 21.2       | 23.2       | 25.2       | 27.8       |  |  |  |
|                                | 8.00          | 11.80  | 1182            | 25.5    | 20.9 | 587             | 18.0    | 15.2 | 588            | 14.0    | 11.9 | ...                                       | 12.3       | 14.3       | 15.8       | 17.8       | 19.9       | 21.9       | 24.4       |  |  |  |
|                                | 8.50          | 12.50  | 1185            | 27.6    | 22.8 | 589             | 19.5    | 16.6 | 588            | 15.1    | 13.1 | ...                                       | ...        | 13.4       | 14.9       | 16.9       | 18.9       | 20.9       | 23.4       |  |  |  |
|                                | 16.00         | 23.60  | 1184            | ...     | ...  | 589             | 40.3    | 35.9 | 588            | 31.8    | 29.0 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        | ...        |  |  |  |
| 1.50                           | 12.50         | 18.70  | 1167            | 43.1    | 36.4 | 580             | 31.0    | 27.5 | 580            | 24.2    | 21.8 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        |            |  |  |  |
| 1.51                           | 7.50          | 11.30  | 1156            | 23.4    | 18.9 | 575             | 16.5    | 13.7 | 576            | 12.8    | 10.8 | ...                                       | 13.1       | 15.1       | 16.6       | 18.6       | 20.6       | 22.7       | 25.2       |  |  |  |
|                                | 9.25          | 14.00  | 1152            | 30.7    | 25.7 | 573             | 21.7    | 18.8 | 572            | 16.9    | 14.8 | ...                                       | ...        | ...        | ...        | 15.1       | 17.1       | 19.1       | 21.6       |  |  |  |
| 1.52                           | 14.00         | 21.20  | 1153            | 46.2    | 40.0 | 573             | 35.1    | 31.3 | 572            | 27.5    | 25.0 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        | ...        |  |  |  |
|                                | 4.40          | 6.70   | 1140            | 9.5     | 5.6  | 567             | 6.8     | 4.2  | 569            | 5.3     | 3.4  | 16.2                                      | 19.2       | 21.3       | 22.8       | 24.8       | 26.8       | 28.8       | 31.3       |  |  |  |
| 1.53                           | 5.90          | 9.00   | 1140            | 16.4    | 12.3 | 567             | 11.5    | 8.9  | 569            | 9.0     | 7.0  | 13.2                                      | 16.2       | 18.2       | 19.7       | 21.7       | 23.7       | 25.8       | 28.3       |  |  |  |

NOTE: \* 5VX = Single and Polyband belts to 200" length  
5V = Single and Polyband belts over 200" long

\*\* Stock belt size 5VX530 not shown

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

V-Drives

FHP Drives

Drive Component  
Accessories

DYNA-SYNC

HT200/HTD  
Synchronous Drives

HT500  
Synchronous Drives

Roller Chain Sprockets

# SELECTION



**5VX** D-V Wedge  
Single Belts to 200"  
POLYBAND to 200"

**5V** D-V Wedge  
Single Belts over 200"  
POLYBAND over 200"

## STOCK DRIVE SELECTION

| Ratio | Belt Number and Approx. Center Distance** |         |         |          |          |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |         |         |         |
|-------|---|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|---------|---------|---------|
|       | 5VX 850                                   | 5VX 900 | 5VX 950 | 5VX 1000 | 5VX 1060 | 5VX 1120 | 5VX 1180 | 5VX 1250 | 5VX 1320 | 5VX 1400 | 5VX 1500 | 5VX 1600 | 5VX 1700 | 5VX 1800 | 5VX 1900 | 5VX 2000 | 5V 2120 | 5V 2240 | 5V 2360 | 5V 2500 | 5V 2800 | 5V 3150 | 5V 3550 |
| 1.30  | 32.6                                      | 35.1    | 37.6    | 40.1     | 43.1     | 46.1     | 49.1     | 52.6     | 56.1     | 60.1     | 65       | 70       | 75       | 80       | 85       | 90       | 96      | 102     | 108     | 115     | 130     | 148     | 168     |
|       | 28.9                                      | 31.4    | 33.9    | 36.4     | 39.4     | 42.4     | 45.4     | 48.9     | 52.4     | 56.4     | 61       | 66       | 71       | 76       | 81       | 86       | 92      | 98      | 104     | 111     | 126     | 144     | 164     |
|       | .93                                       | .94     | .95     | .96      | .97      | .99      | .99      | 1.00     | 1.01     | 1.02     | 1.03     | 1.04     | 1.05     | 1.06     | 1.07     | 1.07     | 1.08    | 1.09    | 1.10    | 1.11    | 1.13    | 1.15    | 1.17    |
| 1.31  | 29.6                                      | 32.1    | 34.6    | 37.1     | 40.1     | 43.1     | 46.1     | 49.6     | 53.1     | 57.1     | 62       | 67       | 72       | 77       | 82       | 87       | 93      | 99      | 105     | 112     | 127     | 145     | 165     |
|       | 26.1                                      | 28.6    | 31.1    | 33.6     | 36.6     | 39.6     | 42.6     | 46.1     | 49.6     | 53.6     | 59       | 64       | 69       | 74       | 79       | 84       | 90      | 96      | 102     | 109     | 124     | 141     | 161     |
| 1.33  | 26.9                                      | 29.4    | 31.9    | 34.4     | 37.4     | 40.4     | 43.4     | 46.9     | 50.4     | 54.4     | 59       | 64       | 69       | 74       | 79       | 84       | 90      | 96      | 102     | 109     | 124     | 142     | 162     |
|       | 21.8                                      | 24.3    | 26.8    | 29.3     | 32.3     | 35.3     | 38.3     | 41.8     | 45.3     | 49.3     | 54       | 59       | 64       | 69       | 74       | 79       | 85      | 91      | 97      | 104     | 119     | 137     | 157     |
|       | ...                                       | ...     | ...     | ...      | 23.6     | 26.7     | 29.7     | 33.2     | 36.7     | 40.7     | 46       | 51       | 56       | 61       | 66       | 71       | 77      | 83      | 89      | 96      | 111     | 128     | 146     |
| 1.34  | ...                                       | 19.2    | 21.7    | 24.2     | 27.2     | 30.2     | 33.2     | 36.7     | 40.2     | 44.3     | 49       | 54       | 59       | 64       | 69       | 74       | 80      | 86      | 92      | 99      | 114     | 132     | 152     |
| 1.35  | 34.4                                      | 36.9    | 39.4    | 41.9     | 44.9     | 47.9     | 50.9     | 54.4     | 57.9     | 61.9     | 67       | 73       | 77       | 82       | 87       | 92       | 98      | 104     | 110     | 117     | 132     | 149     | 169     |
|       | 30.9                                      | 33.4    | 35.9    | 38.4     | 41.4     | 44.4     | 47.4     | 50.9     | 54.4     | 58.4     | 63       | 68       | 73       | 78       | 83       | 88       | 94      | 100     | 106     | 113     | 128     | 146     | 166     |
|       | 30.1                                      | 32.6    | 35.2    | 37.7     | 40.7     | 43.7     | 46.7     | 50.2     | 53.7     | 57.7     | 63       | 68       | 73       | 78       | 83       | 88       | 94      | 100     | 106     | 113     | 128     | 145     | 165     |
| 1.36  | 33.9                                      | 36.4    | 38.9    | 41.1     | 44.4     | 47.4     | 50.4     | 53.9     | 57.4     | 61.4     | 66       | 71       | 76       | 81       | 86       | 91       | 97      | 103     | 109     | 116     | 131     | 149     | 169     |
|       | 31.6                                      | 34.1    | 36.6    | 39.1     | 42.1     | 45.1     | 48.1     | 51.6     | 55.1     | 59.1     | 64       | 69       | 74       | 79       | 84       | 89       | 95      | 101     | 107     | 114     | 129     | 147     | 167     |
|       | 25.4                                      | 27.9    | 30.4    | 32.9     | 35.9     | 38.9     | 41.9     | 45.4     | 48.9     | 52.9     | 58       | 63       | 68       | 73       | 78       | 83       | 89      | 95      | 101     | 108     | 123     | 140     | 160     |
|       | 24.4                                      | 26.9    | 29.4    | 31.9     | 34.9     | 37.9     | 40.9     | 44.4     | 47.9     | 51.9     | 57       | 62       | 67       | 72       | 77       | 82       | 88      | 94      | 100     | 107     | 122     | 139     | 159     |
|       | 23.3                                      | 25.8    | 28.4    | 30.9     | 33.9     | 36.9     | 39.9     | 43.4     | 46.9     | 50.9     | 56       | 61       | 66       | 71       | 76       | 81       | 87      | 93      | 99      | 106     | 121     | 138     | 158     |
|       | 20.6                                      | 23.1    | 25.6    | 28.1     | 31.1     | 34.1     | 37.1     | 40.6     | 44.1     | 48.4     | 53       | 58       | 63       | 68       | 73       | 78       | 84      | 90      | 96      | 103     | 118     | 136     | 156     |
|       | .92                                       | .93     | .94     | .95      | .96      | .97      | .98      | .99      | 1.00     | 1.01     | 1.02     | 1.03     | 1.04     | 1.05     | 1.06     | 1.07     | 1.08    | 1.09    | 1.10    | 1.11    | 1.13    | 1.15    | 1.17    |
| 1.37  | 32.8                                      | 35.9    | 38.4    | 40.9     | 43.9     | 46.9     | 49.9     | 53.4     | 56.9     | 60.9     | 66       | 71       | 76       | 81       | 86       | 91       | 97      | 103     | 108     | 116     | 131     | 148     | 168     |
|       | 32.3                                      | 34.8    | 37.3    | 39.8     | 42.8     | 45.8     | 48.8     | 52.3     | 55.8     | 59.8     | 65       | 70       | 75       | 80       | 84       | 90       | 96      | 102     | 108     | 115     | 130     | 147     | 167     |
|       | 27.6                                      | 30.1    | 32.6    | 35.1     | 38.1     | 41.1     | 44.1     | 47.5     | 51.1     | 55.1     | 60       | 65       | 70       | 75       | 80       | 85       | 91      | 97      | 103     | 110     | 125     | 143     | 162     |
| 1.38  | 33.4                                      | 35.9    | 38.4    | 40.9     | 43.9+    | 46.9     | 49.9     | 53.4     | 56.9     | 60.9     | 66       | 71       | 76       | 81       | 86       | 91       | 97      | 103     | 109     | 116     | 131     | 148     | 168     |
|       | 29.2                                      | 31.7    | 34.2    | 36.7     | 39.7     | 42.7     | 45.7     | 49.2     | 52.7     | 56.8     | 62       | 67       | 72       | 77       | 82       | 87       | 93      | 99      | 105     | 112     | 127     | 144     | 164     |
|       | 28.5                                      | 31.0    | 33.5    | 36.0     | 39.0     | 42.0     | 45.0     | 48.5     | 52.0     | 56.0     | 61       | 66       | 71       | 76       | 81       | 86       | 92      | 98      | 104     | 111     | 126     | 143     | 163     |
|       | 22.1                                      | 24.6    | 27.1    | 29.6     | 32.6     | 35.6     | 38.6     | 42.1     | 45.6     | 49.6     | 55       | 60       | 65       | 70       | 75       | 80       | 85      | 91      | 98      | 105     | 120     | 137     | 157     |
| 1.39  | 29.9                                      | 32.4    | 34.9    | 37.5     | 40.5     | 43.5     | 46.5     | 50.0     | 53.5     | 57.5     | 62       | 67       | 72       | 77       | 82       | 87       | 93      | 99      | 105     | 112     | 127     | 145     | 165     |
|       | 26.5                                      | 29.0    | 31.5    | 34.0     | 37.0     | 40.0     | 43.0     | 46.5     | 50.0     | 54.0     | 59       | 64       | 69       | 74       | 79       | 84       | 90      | 96      | 102     | 109     | 124     | 141     | 161     |
|       | 25.6                                      | 28.1    | 30.6    | 33.1     | 36.1     | 39.1     | 42.1     | 45.6     | 49.1     | 53.1     | 58       | 63       | 68       | 73       | 78       | 83       | 89      | 95      | 101     | 108     | 123     | 141     | 161     |
| 1.42  | 27.3                                      | 29.8    | 32.3    | 34.8     | 37.8     | 40.8     | 43.8     | 47.3     | 50.8     | 54.8     | 60       | 65       | 70       | 75       | 80       | 85       | 91      | 97      | 103     | 110     | 125     | 142     | 162     |
|       | 20.9                                      | 23.4    | 26.0    | 28.5     | 31.5     | 34.5     | 37.5     | 41.0     | 44.5     | 48.5     | 53       | 58       | 63       | 68       | 73       | 78       | 84      | 90      | 97      | 103     | 118     | 136     | 156     |
|       | ...                                       | 19.8    | 22.3    | 24.8     | 27.8     | 30.8     | 33.8     | 37.3     | 40.9     | 44.9     | 50       | 55       | 60       | 65       | 70       | 75       | 81      | 87      | 92      | 100     | 115     | 132     | 154     |
|       | ...                                       | ...     | ...     | 21.3     | 24.4     | 27.4     | 30.4     | 33.9     | 37.4     | 41.5     | 46       | 51       | 56       | 61       | 66       | 71       | 77      | 83      | 90      | 96      | 111     | 129     | 149     |
| 1.43  | 24.8                                      | 27.3    | 29.8    | 32.3     | 35.3     | 38.3     | 41.3     | 44.8     | 48.3     | 52.3     | 57       | 62       | 67       | 72       | 77       | 82       | 88      | 94      | 100     | 107     | 122     | 140     | 160     |
| 1.44  | 34.1                                      | 36.6    | 39.1    | 41.6     | 44.6     | 47.6     | 50.6     | 54.1     | 57.6     | 61.6     | 67       | 72       | 77       | 82       | 87       | 92       | 98      | 104     | 110     | 117     | 132     | 149     | 169     |
|       | 30.5                                      | 33.0    | 35.5    | 38.0     | 41.0     | 44.0     | 47.0     | 50.5     | 54.0     | 58.0     | 63       | 68       | 73       | 78       | 83       | 88       | 94      | 100     | 106     | 113     | 128     | 145     | 165     |
|       | 24.8                                      | 26.3    | 28.8    | 31.3     | 34.3     | 37.3     | 40.3     | 43.8     | 47.3     | 51.3     | 56       | 61       | 66       | 71       | 76       | 81       | 87      | 93      | 99      | 106     | 121     | 139     | 159     |
| 1.45  | 33.6                                      | 36.1    | 38.6    | 41.1     | 44.1     | 47.1     | 50.1     | 53.6     | 57.1     | 61.1     | 66       | 71       | 76       | 81       | 86       | 91       | 97      | 103     | 109     | 116     | 131     | 147     | 169     |
|       | 32.5                                      | 35.0    | 37.5    | 40.0     | 43.0     | 46.0     | 49.0     | 52.5     | 56.0     | 60.0     | 65       | 70       | 75       | 80       | 85       | 90       | 96      | 102     | 108     | 115     | 130     | 148     | 168     |
|       | 31.2                                      | 33.7    | 36.2    | 38.7     | 41.7     | 44.7     | 47.7     | 51.2     | 54.7     | 58.7     | 64       | 69       | 74       | 79       | 84       | 89       | 95      | 101     | 107     | 114     | 129     | 146     | 166     |
| 1.46  | 33.1                                      | 35.6    | 38.1    | 40.6     | 43.6     | 46.6     | 49.6     | 53.1     | 56.6     | 60.6     | 66       | 70       | 76       | 81       | 86       | 91       | 97      | 103     | 109     | 116     | 131     | 146     | 168     |
|       | 31.9                                      | 34.4    | 36.9    | 39.4     | 42.4     | 45.4     | 48.4     | 51.9     | 55.4     | 59.4     | 64       | 69       | 74       | 79       | 84       | 89       | 95      | 101     | 107     | 114     | 129     | 147     | 167     |
|       | 29.5                                      | 32.1    | 34.6    | 37.1     | 40.1     | 43.1     | 46.1     | 49.6     | 53.1     | 57.1     | 62       | 67       | 72       | 77       | 82       | 87       | 93      | 99      | 105     | 112     | 127     | 145     | 165     |
|       | 28.8                                      | 31.3    | 33.8    | 36.3     | 39.3     | 42.3     | 45.3     | 48.8     | 52.3     | 56.3     | 61       | 66       | 71       | 76       | 81       | 86       | 92      | 98      | 104     | 111     | 126     | 144     | 164     |
|       | 28.0                                      | 30.5    | 33.0    | 35.5     | 38.5     | 41.5     | 44.5     | 48.0     | 51.5     | 55.5     | 60       | 65       | 70       | 75       | 80       | 85       | 91      | 97      | 104     | 110     | 125     | 143     | 163     |
|       | 22.5                                      | 25.0    | 27.5    | 30.0     | 33.0     | 36.1     | 39.1     | 42.6     | 46.1     | 50.1     | 55       | 60       | 65       | 70       | 75       | 80       | 86      | 92      | 98      | 105     | 120     | 138     | 158     |
| 1.47  | 25.0                                      | 27.5    | 30.0    | 32.5     | 35.5     | 38.5     | 41.5     | 45.0     | 48.5     | 52.5     | 57       | 62       | 67       | 72       | 77       | 82       | 88      | 94      | 101     | 107     | 122     | 140     | 160     |
|       | 2.12                                      | 23.7    | 26.2    | 28.8     | 31.8     | 34.8     | 37.8     | 41.3     | 44.8     | 48.8     | 54       | 59       | 64       | 69       | 74       | 79       | 85      | 91      | 97      | 104     | 119     | 136     | 156     |
|       | .92                                       | .93     | .94     | .95      | .96      | .97      | .98      | .99      | 1.00     | 1.01     | 1.02     | 1.03     | 1.04     | 1.05     | 1.06     | 1.07     | 1.08    | 1.09    | 1.10    | 1.11    | 1.13    | 1.15    | 1.17    |
| 1.48  | 30.3                                      | 32.8    | 35.3    | 37.8     | 40.8     | 43.8     | 46.8     | 50.3     | 53.8     | 57.8     | 63       | 68       | 73       | 78       | 83       | 88       | 94      | 100     | 100     | 113     | 128     | 145     | 165     |
|       | 26.9                                      | 29.4    | 31.9    | 34.4     | 37.4     | 40.4     | 43.4     | 46.9     | 50.4     | 54.4     | 59       | 64       | 69       | 74       | 79       | 84       | 90      | 96      | 96      | 109     | 124     | 142     | 162     |
|       | 25.9                                      | 28.8    | 30.4    | 33.4     | 36.5     | 39.5     | 42.5     | 46.0     | 49.5     | 53.5     | 58       | 63       | 68       | 73       | 78       | 83       | 89      | 95      | 95      | 108     | 123     | 141     | 161     |
|       | ...                                       | ...     | ...     | ...      | ...      | 24.6     | 27.6     | 31.2     | 34.7     | 38.7     | 44       | 49       | 54       | 59       | 64       | 69       | 75      | 81      | 81      | 94      | 109     | 126     | 146     |
| 1.50  | ...                                       | 20.3    | 22.8    | 25.3     | 28.3     | 31.3     | 34.4     | 37.9     | 41.4     | 45.4     | 50       | 55       | 60       | 65       | 70       | 75       | 81      | 87      | 87      | 100     | 115     | 133     | 153     |
| 1.51  | 27.7                                      | 30.2    | 32.7    | 35.2     | 38.2     | 41.2     | 44.2     | 47.7     | 51.2     | 55.2     | 60       | 65       | 70       | 75       | 80       | 85       | 91      | 97      | 97      | 110     | 125     | 143     | 163     |
| 1.52  | 24.1                                      | 26.6    | 29.1    | 31.7     | 34.7     | 37.7     | 40.7     | 44.2     | 47.7     | 51.7     | 57       | 62       | 67       | 72       | 77       | 82       | 88      | 94      | 94      | 107     | 122     | 139     | 159     |
|       | ...                                       | ...     | ...     | 22.1     | 25.1     | 28.1     | 31.1     | 34.7     | 38.2     | 42.2     | 47       | 52       | 57       | 62       | 67       | 72       | 78      | 84      | 84      | 97      | 112     | 130     | 150     |
| 1.53  | 33.8                                      | 36.3    | 38.8    | 41.3     | 44.3     | 47.3     | 50.3     | 53.8     | 57.3     | 61.3     | 66       | 71       | 76       | 81       | 86       | 91       | 97      | 103     | 103     | 116     | 131     | 146     | 169     |
|       | 30.8                                      | 33.3    | 35.8    | 38.3     | 41.3     | 44.3     | 47.3     | 50.8     | 54.3     | 58.3     | 63       | 68       | 73       | 78       | 83       | 88       | 94      | 100     |         |         |         |         |         |

# SELECTION



**5VX** D-V Wedge  
Single Belts to 200"  
POLYBAND to 200"

**5V** D-V Wedge  
Single Belts over 200"  
POLYBAND over 200"

## STOCK DRIVE SELECTION

| Ratio                                 | Stock Sheaves                         |        | 1750 RPM Driver |         |      | 1160 RPM Driver |         |      | 870 RPM Driver |         |      | Belt Number and Approx. Center Distance** |            |            |            |            |            |            |            |  |  |
|---------------------------------------|---------------------------------------|--------|-----------------|---------|------|-----------------|---------|------|----------------|---------|------|---|------------|------------|------------|------------|------------|------------|------------|--|--|
|                                       | Diameter                              |        | Driven          | HP/Belt |      | Driven          | HP/Belt |      | Driven         | HP/Belt |      | 5VX 500                                   | 5VX 560    | 5VX 600    | 5VX 630    | 5VX 670    | 5VX 710    | 5VX 750    | 5VX 800    |  |  |
|                                       | Driver                                | Driven | RPM             | 5VX     | 5V   | RPM             | 5VX     | 5V   | RPM            | 5VX     | 5V   |   |            |            |            |            |            |            |            |  |  |
| 1.54                                  | 4.65                                  | 7.10   | 1138            | 10.7    | 6.7  | 765             | 7.6     | 5.0  | 565            | 5.9     | 4.0  | 15.7                                      | 18.7       | 20.7       | 22.2       | 24.2       | 26.2       | 28.2       | 30.8       |  |  |
|                                       | 4.90                                  | 7.50   | 1135            | 11.9    | 7.9  | 752             | 8.4     | 5.8  | 565            | 6.53    | 4.6  | 15.2                                      | 18.2       | 20.2       | 21.7       | 23.7       | 25.7       | 27.7       | 30.2       |  |  |
|                                       | 7.10                                  | 10.90  | 1134            | 21.7    | 17.3 | 752             | 15.3    | 12.5 | 565            | 11.9    | 10.0 | 10.7                                      | 13.7       | 15.8       | 17.3       | 19.3       | 21.3       | 23.3       | 25.8       |  |  |
|                                       | 9.75                                  | 15.00  | 1133            | 32.8    | 27.5 | 751             | 23.2    | 20.2 | 565            | 18.0    | 15.9 | ...                                       | ...        | ...        | ...        | 13.8       | 15.9       | 17.9       | 20.4       |  |  |
| 1.55                                  | 5.20                                  | 8.00   | 1130            | 13.3    | 9.2  | 749             | 9.3     | 6.8  | 561            | 7.3     | 5.4  | 14.6                                      | 17.6       | 19.6       | 21.1       | 23.1       | 25.1       | 27.1       | 29.6       |  |  |
|                                       | 6.70                                  | 10.30  | 1132            | 20.0    | 15.7 | 751             | 14.0    | 11.4 | 561            | 11.0    | 8.9  | 11.5                                      | 14.5       | 16.6       | 18.1       | 20.1       | 22.1       | 24.1       | 26.6       |  |  |
| 1.56                                  | 5.50                                  | 8.50   | 1125            | 14.6    | 10.5 | 746             | 10.3    | 7.7  | 558            | 8.0     | 6.1  | 13.9                                      | 16.9       | 19.0       | 20.4       | 22.5       | 24.5       | 26.5       | 29.0       |  |  |
|                                       | 6.30                                  | 9.75   | 1124            | 18.2    | 14.0 | 745             | 12.8    | 10.1 | 558            | 9.9     | 8.0  | 12.3                                      | 15.3       | 17.3       | 18.8       | 20.8       | 22.8       | 24.8       | 27.3       |  |  |
|                                       | 8.50                                  | 13.20  | 1122            | 27.7    | 22.9 | 744             | 19.5    | 16.7 | 558            | 15.1    | 13.1 | ...                                       | ...        | 12.7       | 14.3       | 16.3       | 18.3       | 20.3       | 22.8       |  |  |
|                                       | 9.00                                  | 14.00  | 1121            | 29.7    | 24.8 | 743             | 21.0    | 18.1 | 558            | 16.3    | 14.2 | ...                                       | ...        | ...        | 13.2       | 15.2       | 17.3       | 19.3       | 21.8       |  |  |
| 1.57                                  | 10.30                                 | 16.00  | 1123            | 34.9    | 29.4 | 744             | 24.8    | 21.7 | 558            | 19.3    | 17.1 | ...                                       | ...        | ...        | ...        | ...        | 14.6       | 16.6       | 19.1       |  |  |
|                                       | 8.00                                  | 12.50  | 1115            | 25.6    | 20.9 | 739             | 18.0    | 15.2 | 554            | 14.0    | 12.0 | ...                                       | ...        | 13.7       | 15.2       | 17.3       | 19.3       | 21.3       | 23.8       |  |  |
|                                       | 5.90                                  | 9.25   | 1109            | 16.4    | 12.3 | 735             | 11.6    | 8.9  | 551            | 9.0     | 7.1  | 13.0                                      | 16.0       | 18.0       | 19.5       | 21.5       | 23.5       | 25.5       | 28.1       |  |  |
| 1.58                                  | 7.50                                  | 11.80  | 1107            | 23.5    | 19.0 | 734             | 16.5    | 13.8 | 551            | 12.8    | 10.8 | ...                                       | 12.7       | 14.7       | 16.2       | 18.2       | 20.2       | 22.2       | 24.7       |  |  |
|                                       | 15.00                                 | 23.60  | 1110            | ...     | ...  | 735             | 37.8    | 33.7 | 551            | 29.7    | 27.0 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        | ...        |  |  |
| 1.59                                  | 11.80                                 | 18.70  | 1101            | 40.6    | 34.3 | 730             | 29.1    | 25.8 | 547            | 22.7    | 20.4 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        | ...        |  |  |
| 1.60                                  | 7.10                                  | 11.30  | 1094            | 21.8    | 17.4 | 725             | 15.3    | 12.6 | 544            | 11.9    | 10.0 | ...                                       | 13.4       | 15.4       | 16.9       | 18.9       | 20.9       | 23.0       | 25.5       |  |  |
| <b>ARC-LENGTH CORRECTION FACTOR →</b> |                                       |        |                 |         |      |                 |         |      |                |         |      | <b>.82</b>                                | <b>.83</b> | <b>.85</b> | <b>.86</b> | <b>.87</b> | <b>.88</b> | <b>.89</b> | <b>.91</b> |  |  |
| 1.61                                  | 13.20                                 | 21.20  | 1086            | 45.6    | 38.4 | 720             | 33.0    | 29.4 | 540            | 25.8    | 23.4 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        | ...        |  |  |
| 1.63                                  | 4.40                                  | 7.10   | 1075            | 9.3     | 5.7  | 713             | 6.8     | 4.3  | 534            | 5.3     | 3.4  | 15.9                                      | 18.9       | 20.9       | 22.4       | 24.4       | 26.4       | 28.4       | 30.9       |  |  |
|                                       | 4.65                                  | 7.50   | 1076            | 10.8    | 6.8  | 713             | 7.6     | 5.1  | 534            | 5.9     | 4.1  | 15.4                                      | 18.4       | 20.4       | 21.9       | 23.9       | 25.9       | 27.9       | 30.4       |  |  |
| 1.64                                  | 9.25                                  | 15.00  | 1076            | 30.8    | 25.7 | 712             | 21.8    | 18.8 | 534            | 16.9    | 14.8 | ...                                       | ...        | ...        | ...        | 14.2       | 16.2       | 18.2       | 20.8       |  |  |
|                                       | 6.70                                  | 10.90  | 1069            | 20.2    | 15.7 | 709             | 14.1    | 11.4 | 530            | 10.9    | 9.0  | 11.0                                      | 14.0       | 16.0       | 17.6       | 19.6       | 21.6       | 23.6       | 26.1       |  |  |
| 1.65                                  | 4.90                                  | 8.00   | 1063            | 11.9    | 7.9  | 705             | 8.4     | 5.9  | 527            | 6.6     | 4.7  | 14.8                                      | 17.8       | 19.8       | 21.3       | 23.3       | 25.3       | 27.3       | 29.8       |  |  |
|                                       | 5.20                                  | 8.50   | 1063            | 13.3    | 9.3  | 704             | 9.4     | 6.8  | 527            | 7.3     | 5.4  | 14.1                                      | 17.2       | 19.2       | 20.7       | 22.7       | 24.7       | 26.7       | 29.2       |  |  |
|                                       | 5.50                                  | 9.00   | 1062            | 14.7    | 10.6 | 704             | 10.3    | 7.7  | 527            | 8.3     | 6.1  | 13.5                                      | 16.5       | 18.5       | 20.0       | 22.0       | 24.0       | 26.1       | 28.6       |  |  |
|                                       | 6.30                                  | 10.30  | 1064            | 18.3    | 14.0 | 705             | 12.8    | 10.2 | 527            | 10.0    | 8.0  | 11.8                                      | 14.8       | 16.9       | 18.4       | 20.4       | 22.4       | 24.4       | 26.9       |  |  |
|                                       | 8.50                                  | 14.00  | 1058            | 27.7    | 22.9 | 701             | 19.6    | 16.7 | 527            | 15.2    | 13.1 | ...                                       | ...        | ...        | 13.5       | 15.6       | 17.6       | 19.6       | 22.2       |  |  |
| 1.66                                  | 9.75                                  | 16.00  | 1062            | 32.8    | 27.6 | 704             | 23.2    | 20.2 | 527            | 18.1    | 15.9 | ...                                       | ...        | ...        | ...        | ...        | ...        | 17.0       | 19.5       |  |  |
|                                       | 5.90                                  | 9.75   | 1052            | 16.5    | 12.3 | 697             | 11.6    | 9.0  | 524            | 9.0     | 7.1  | 12.6                                      | 15.6       | 17.6       | 19.1       | 21.1       | 23.1       | 25.1       | 27.6       |  |  |
|                                       | 8.00                                  | 13.20  | 1055            | 25.6    | 21.0 | 700             | 18.1    | 15.3 | 524            | 14.0    | 12.0 | ...                                       | ...        | 13.1       | 14.6       | 16.6       | 18.7       | 20.7       | 23.2       |  |  |
| 1.67                                  | 11.30                                 | 18.70  | 1054            | 38.8    | 32.8 | 698             | 27.7    | 24.4 | 524            | 21.6    | 19.3 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        | ...        |  |  |
|                                       | 7.10                                  | 11.80  | 1047            | 21.8    | 17.4 | 694             | 15.3    | 12.6 | 521            | 11.9    | 9.9  | ...                                       | 12.9       | 15.0       | 16.5       | 18.5       | 20.5       | 22.5       | 25.0       |  |  |
| 1.68                                  | 9.00                                  | 15.00  | 1045            | 29.8    | 24.8 | 693             | 21.1    | 18.1 | 521            | 16.3    | 14.3 | ...                                       | ...        | ...        | ...        | 14.3       | 16.4       | 18.4       | 20.9       |  |  |
|                                       | 7.50                                  | 12.50  | 1044            | 23.5    | 19.0 | 692             | 16.5    | 13.8 | 518            | 12.8    | 10.8 | ...                                       | ...        | 14.1       | 15.6       | 17.6       | 19.6       | 21.6       | 24.2       |  |  |
| 1.69                                  | 5.50                                  | 9.25   | 1033            | 14.7    | 10.6 | 685             | 10.3    | 7.7  | 515            | 8.0     | 6.1  | 13.3                                      | 16.3       | 18.3       | 19.8       | 21.8       | 23.8       | 25.8       | 28.4       |  |  |
|                                       | 14.00                                 | 23.60  | 1035            | 48.3    | 40.6 | 686             | 35.2    | 31.4 | 515            | 27.6    | 25.0 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        | ...        |  |  |
| 1.70                                  | 6.70                                  | 11.30  | 1028            | 20.1    | 15.8 | 684             | 14.1    | 11.4 | 512            | 10.9    | 9.0  | 10.6                                      | 13.7       | 15.7       | 17.2       | 19.2       | 21.2       | 23.3       | 25.8       |  |  |
|                                       | 12.50                                 | 21.20  | 1031            | 43.2    | 36.5 | 682             | 31.1    | 27.6 | 512            | 24.3    | 21.9 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        | ...        |  |  |
| 1.72                                  | 4.40                                  | 7.50   | 1017            | 9.6     | 5.72 | 674             | 6.8     | 4.3  | 506            | 5.3     | 3.5  | 15.6                                      | 18.6       | 20.6       | 22.1       | 24.1       | 26.1       | 28.1       | 30.6       |  |  |
|                                       | 10.90                                 | 18.70  | 1016            | 37.3    | 31.5 | 674             | 26.6    | 23.4 | 506            | 20.7    | 18.5 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        | ...        |  |  |
| 1.74                                  | 4.65                                  | 8.00   | 1008            | 10.6    | 6.9  | 668             | 7.6     | 5.1  | 500            | 6.0     | 4.1  | 15.0                                      | 18.0       | 20.0       | 21.5       | 23.5       | 25.5       | 27.5       | 30.0       |  |  |
|                                       | 6.30                                  | 10.90  | 1005            | 18.3    | 14.1 | 666             | 12.9    | 10.2 | 500            | 10.0    | 8.1  | 11.3                                      | 14.3       | 16.3       | 17.8       | 19.9       | 21.9       | 23.9       | 26.4       |  |  |
|                                       | 9.25                                  | 16.00  | 1007            | 30.8    | 25.8 | 668             | 21.8    | 18.9 | 500            | 16.9    | 14.8 | ...                                       | ...        | ...        | ...        | ...        | 15.3       | 17.3       | 19.9       |  |  |
| 1.75                                  | 4.90                                  | 8.50   | 1000            | 12.0    | 8.0  | 663             | 8.4     | 5.9  | 497            | 6.6     | 4.7  | 14.4                                      | 17.4       | 19.4       | 20.9       | 22.9       | 24.9       | 26.9       | 29.4       |  |  |
|                                       | 5.20                                  | 9.00   | 1003            | 13.3    | 9.3  | 665             | 9.4     | 6.8  | 497            | 7.3     | 5.4  | 13.7                                      | 16.7       | 18.8       | 20.3       | 22.3       | 24.3       | 26.3       | 28.8       |  |  |
| 1.76                                  | 16.00                                 | 28.00  | 997             | ...     | ...  | 661             | 40.4    | 36.0 | 497            | 31.8    | 29.0 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        | ...        |  |  |
|                                       | <b>ARC-LENGTH CORRECTION FACTOR →</b> |        |                 |         |      |                 |         |      |                |         |      |   | <b>.83</b> | <b>.85</b> | <b>.86</b> | <b>.87</b> | <b>.88</b> | <b>.89</b> | <b>.91</b> |  |  |
| 1.77                                  | 5.90                                  | 10.30  | 995             | 16.5    | 12.4 | 660             | 11.6    | 9.0  | 494            | 9.0     | 7.1  | ...                                       | 15.1       | 17.1       | 18.6       | 20.7       | 22.7       | 24.7       | 27.2       |  |  |
|                                       | 8.00                                  | 14.00  | 995             | 25.7    | 21.0 | 659             | 18.1    | 15.3 | 494            | 14.0    | 12.0 | ...                                       | ...        | 12.4       | 13.9       | 15.9       | 18.0       | 20.0       | 22.5       |  |  |
| 1.79                                  | 6.70                                  | 11.80  | 987             | 20.1    | 15.5 | 654             | 14.1    | 11.4 | 492            | 10.9    | 9.0  | ...                                       | ...        | 13.2       | 15.3       | 16.8       | 18.8       | 20.8       | 22.8       |  |  |
|                                       | 7.10                                  | 12.50  | 977             | 21.8    | 17.4 | 655             | 15.3    | 12.6 | 492            | 11.9    | 9.9  | ...                                       | ...        | 12.3       | 14.4       | 15.9       | 17.9       | 19.9       | 21.9       |  |  |
|                                       | 7.50                                  | 13.20  | 979             | 23.5    | 19.1 | 655             | 16.6    | 13.8 | 492            | 12.8    | 10.9 | ...                                       | ...        | ...        | 13.4       | 15.0       | 17.0       | 19.0       | 21.0       |  |  |
|                                       | 8.50                                  | 15.00  | 987             | 27.8    | 23.0 | 654             | 19.6    | 16.7 | 492            | 15.2    | 13.2 | ...                                       | ...        | ...        | ...        | 14.7       | 16.7       | 18.8       | 21.3       |  |  |
| 1.79                                  | 5.20                                  | 9.25   | 975             | 13.3    | 9.3  | 647             | 9.4     | 6.8  | 486            | 7.3     | 5.4  | ...                                       | ...        | 16.5       | 18.5       | 20.0       | 22.1       | 24.1       | 26.1       |  |  |
|                                       | 5.50                                  | 9.75   | 979             | 14.7    | 10.7 | 649             | 10.4    | 7.8  | 486            | 8.1     | 6.1  | ...                                       | ...        | 15.9       | 17.9       | 19.4       | 21.4       | 23.4       | 25.4       |  |  |
|                                       | 9.00                                  | 16.00  | 980             | 29.8    | 24.9 | 649             | 21.1    | 18.2 | 486            | 16.4    | 14.3 | ...                                       | ...        | ...        | ...        | ...        | 15.5       | 17.5       | 20.1       |  |  |
|                                       | 13.20                                 | 23.60  | 976             | 45.6    | 38.5 | 647             | 33.1    | 29.4 | 486            | 25.8    | 23.4 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        | ...        |  |  |

NOTE: \* 5VX = Single and Polyband belts to 200" length  
5V = Single and Polyband belts over 200" long

\*\* Stock belt size 5VX530 not shown

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

# SELECTION



**5VX** D-V Wedge  
Single Belts to 200"  
POLYBAND to 200"

**5V** D-V Wedge  
Single Belts over 200"  
POLYBAND over 200"

## STOCK DRIVE SELECTION

| Ratio | Belt Number and Approx. Center Distance** |         |         |          |          |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |         |         |         |         |     |     |
|-------|---|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|-----|-----|
|       | 5VX 850                                   | 5VX 900 | 5VX 950 | 5VX 1000 | 5VX 1060 | 5VX 1120 | 5VX 1180 | 5VX 1250 | 5VX 1320 | 5VX 1400 | 5VX 1500 | 5VX 1600 | 5VX 1700 | 5VX 1800 | 5VX 1900 | 5VX 2000 | 5V 2120 | 5V 2240 | 5V 2360 | 5V 2500 | 5V 2650 | 5V 2800 | 5V 3150 | 5V 3550 |     |     |
| 1.54  | 33.3                                      | 35.8    | 38.3    | 40.7     | 43.8     | 46.8     | 49.8     | 53.3     | 56.8     | 60.7     | 66       | 71       | 76       | 81       | 86       | 91       | 97      | 103     | 109     | 116     | ...     | 131     | 148     | 168     |     |     |
|       | 32.7                                      | 35.2    | 37.7    | 40.2     | 43.2     | 46.2     | 49.2     | 52.7     | 56.2     | 60.2     | 65       | 70       | 75       | 80       | 85       | 90       | 96      | 102     | 108     | 115     | ...     | 130     | 148     | 168     |     |     |
|       | 28.3                                      | 30.8    | 33.3    | 35.8     | 38.8     | 41.8     | 44.8     | 48.3     | 51.8     | 55.8     | 61       | 66       | 71       | 76       | 81       | 86       | 92      | 98      | 104     | 110     | ...     | 126     | 143     | 163     |     |     |
|       | 22.9                                      | 25.4    | 27.9    | 30.4     | 33.5     | 36.5     | 39.5     | 43.0     | 46.5     | 50.5     | 56       | 61       | 66       | 71       | 76       | 81       | 86      | 92      | 99      | 105     | ...     | 120     | 138     | 158     |     |     |
|       | 32.1                                      | 34.6    | 37.1    | 39.6     | 42.6     | 45.6     | 48.6     | 52.1     | 55.6     | 59.6     | 65       | 70       | 75       | 80       | 85       | 90       | 96      | 102     | 108     | 114     | ...     | 130     | 147     | 167     |     |     |
| 29.1  | 31.6                                      | 34.1    | 36.6    | 39.6     | 42.6     | 45.6     | 49.1     | 52.6     | 56.6     | 62       | 67       | 72       | 77       | 82       | 87       | 93       | 99      | 105     | 112     | ...     | 127     | 144     | 164     |         |     |     |
| 1.55  | 31.5                                      | 34.0    | 36.5    | 39.0     | 42.0     | 45.0     | 48.0     | 51.5     | 55.0     | 59.0     | 64       | 69       | 74       | 79       | 84       | 89       | 95      | 101     | 107     | 114     | ...     | 129     | 146     | 166     |     |     |
|       | 29.9                                      | 32.3    | 34.9    | 37.4     | 40.4     | 43.4     | 46.4     | 49.9     | 53.4     | 57.4     | 62       | 67       | 72       | 77       | 82       | 87       | 93      | 99      | 105     | 112     | ...     | 127     | 145     | 165     |     |     |
|       | 25.4                                      | 27.9    | 30.4    | 32.9     | 35.9     | 38.9     | 41.9     | 45.4     | 48.9     | 52.9     | 58       | 63       | 68       | 73       | 78       | 83       | 89      | 94      | 101     | 108     | ...     | 123     | 140     | 160     |     |     |
|       | 24.3                                      | 26.8    | 29.3    | 31.8     | 34.8     | 37.9     | 40.9     | 44.4     | 47.9     | 51.9     | 57       | 62       | 67       | 72       | 77       | 82       | 88      | 94      | 100     | 107     | ...     | 122     | 139     | 159     |     |     |
|       | 21.7                                      | 24.2    | 26.7    | 29.2     | 32.2     | 35.2     | 38.2     | 41.7     | 45.3     | 49.3     | 54       | 59       | 64       | 69       | 74       | 79       | 85      | 91      | 97      | 104     | ...     | 119     | 137     | 157     |     |     |
| 1.56  | 26.3                                      | 28.8    | 31.3    | 33.8     | 36.8     | 39.8     | 42.8     | 46.3     | 49.8     | 53.9     | 59       | 64       | 69       | 74       | 79       | 84       | 90      | 96      | 102     | 109     | ...     | 124     | 141     | 161     |     |     |
|       | 30.6                                      | 33.1    | 35.6    | 38.1     | 41.1     | 44.1     | 47.1     | 50.6     | 54.1     | 58.1     | 63       | 68       | 73       | 78       | 83       | 88       | 94      | 100     | 106     | 113     | ...     | 128     | 146     | 166     |     |     |
|       | 27.3                                      | 29.8    | 32.3    | 34.8     | 37.8     | 40.8     | 43.8     | 47.3     | 50.8     | 54.8     | 60       | 65       | 70       | 75       | 80       | 85       | 91      | 97      | 103     | 110     | ...     | 125     | 142     | 162     |     |     |
|       | ...                                       | ...     | ...     | ...      | 22.3     | 25.3     | 28.4     | 31.9     | 35.4     | 39.4     | 44       | 50       | 55       | 60       | 64       | 70       | 76      | 82      | 88      | 95      | ...     | 110     | 127     | 147     |     |     |
|       | 18.2                                      | 20.8    | 23.3    | 25.8     | 28.8     | 31.9     | 34.9     | 38.4     | 41.9     | 45.9     | 51       | 56       | 61       | 66       | 71       | 76       | 82      | 88      | 94      | 101     | ...     | 116     | 133     | 153     |     |     |
| 1.57  | 28.0                                      | 30.5    | 33.0    | 35.5     | 38.5     | 41.5     | 44.5     | 48.0     | 51.5     | 55.5     | 61       | 66       | 71       | 76       | 81       | 85       | 91      | 97      | 104     | 110     | ...     | 125     | 143     | 163     |     |     |
|       | .92                                       | .93     | .94     | .95      | .96      | .97      | .98      | .99      | 1.00     | 1.01     | 1.02     | 1.03     | 1.04     | 1.05     | 1.06     | 1.07     | 1.08    | 1.09    | 1.10    | 1.11    | 1.12    | 1.13    | 1.15    | 1.17    |     |     |
|       | 1.61                                      | ...     | ...     | 20.1     | 22.6     | 25.7     | 28.7     | 31.7     | 35.3     | 38.8     | 42.8     | 48       | 53       | 58       | 63       | 68       | 73      | 79      | 85      | 91      | 98      | ...     | 113     | 130     | 150 |     |
|       | 1.63                                      | 33.4    | 35.9    | 38.4     | 40.9     | 43.9     | 46.9     | 49.9     | 53.5     | 57.0     | 61.0     | 66       | 71       | 76       | 81       | 86       | 91      | 97      | 103     | 109     | 116     | ...     | 131     | 148     | 168 |     |
|       |   | 32.9    | 35.4    | 37.9     | 40.4     | 43.4     | 46.4     | 49.4     | 52.9     | 56.4     | 60.6     | 65       | 70       | 75       | 80       | 85       | 90      | 96      | 102     | 108     | 115     | ...     | 130     | 148     | 168 |     |
| 23.3  |   | 25.8    | 28.3    | 30.8     | 33.8     | 36.8     | 39.9     | 43.4     | 46.9     | 50.9     | 56       | 61       | 66       | 71       | 76       | 81       | 87      | 93      | 99      | 106     | ...     | 121     | 138     | 158     |     |     |
| 1.64  |   | 28.6    | 31.1    | 33.6     | 36.1     | 39.1     | 42.1     | 45.1     | 48.6     | 52.1     | 56.1     | 61       | 66       | 71       | 76       | 81       | 86      | 92      | 98      | 104     | 111     | ...     | 126     | 144     | 164 |     |
|       |   | 32.3    | 34.8    | 37.3     | 39.8     | 42.8     | 45.8     | 48.8     | 52.3     | 55.8     | 59.8     | 65       | 70       | 75       | 80       | 84       | 89      | 95      | 102     | 108     | 114     | ...     | 130     | 147     | 167 |     |
|       | 31.7                                      | 34.2    | 36.7    | 39.2     | 42.2     | 45.2     | 48.2     | 51.7     | 55.2     | 59.2     | 64       | 69       | 74       | 79       | 84       | 89       | 95      | 101     | 107     | 114     | ...     | 129     | 147     | 167     |     |     |
|       | 31.1                                      | 33.6    | 36.1    | 38.6     | 41.6     | 44.6     | 47.6     | 51.1     | 54.6     | 58.6     | 64       | 69       | 74       | 79       | 84       | 89       | 95      | 101     | 107     | 114     | ...     | 129     | 146     | 166     |     |     |
|       | 29.4                                      | 31.9    | 34.4    | 36.9     | 39.9     | 42.9     | 45.9     | 49.4     | 52.9     | 56.9     | 62       | 67       | 72       | 77       | 82       | 87       | 93      | 99      | 105     | 112     | ...     | 127     | 144     | 164     |     |     |
| 1.65  | 24.7                                      | 27.2    | 29.7    | 32.2     | 35.2     | 38.2     | 41.2     | 44.7     | 48.3     | 52.3     | 57       | 62       | 67       | 72       | 77       | 82       | 88      | 94      | 100     | 107     | ...     | 122     | 140     | 160     |     |     |
|       | 22.1                                      | 24.6    | 27.1    | 29.6     | 32.6     | 35.6     | 38.6     | 42.2     | 45.7     | 49.7     | 55       | 60       | 65       | 70       | 75       | 80       | 86      | 92      | 98      | 105     | ...     | 120     | 137     | 157     |     |     |
|       | 1.66                                      | 30.2    | 32.7    | 35.2     | 37.7     | 40.7     | 43.7     | 46.7     | 50.2     | 53.7     | 57.7     | 62       | 68       | 73       | 78       | 83       | 88      | 94      | 100     | 106     | 113     | ...     | 128     | 145     | 165 |     |
|       |   | 25.7    | 28.2    | 30.7     | 33.2     | 36.3     | 39.3     | 42.3     | 45.8     | 49.3     | 53.3     | 58       | 63       | 68       | 73       | 78       | 83      | 89      | 95      | 101     | 108     | ...     | 123     | 141     | 161 |     |
|       |   | 18.6    | 21.1    | 23.6     | 26.2     | 29.2     | 32.2     | 35.2     | 38.8     | 42.3     | 46.3     | 51       | 56       | 61       | 66       | 71       | 76      | 82      | 88      | 94      | 101     | ...     | 116     | 134     | 154 |     |
| 1.67  |   | 27.6    | 30.1    | 32.6     | 35.1     | 38.1     | 41.1     | 44.1     | 47.6     | 51.1     | 55.1     | 60       | 65       | 70       | 75       | 80       | 85      | 91      | 97      | 103     | 110     | ...     | 125     | 143     | 163 |     |
|       |   | 23.5    | 26.0    | 28.5     | 31.0     | 34.0     | 37.0     | 40.0     | 43.5     | 47.1     | 51.1     | 56       | 61       | 66       | 71       | 76       | 81      | 87      | 93      | 99      | 106     | ...     | 121     | 139     | 159 |     |
|       | 1.68                                      | 26.7    | 29.2    | 31.7     | 34.2     | 37.2     | 40.2     | 43.2     | 46.7     | 50.2     | 54.2     | 59       | 64       | 69       | 74       | 79       | 84      | 90      | 96      | 102     | 109     | ...     | 124     | 142     | 162 |     |
|       |   | 30.9    | 33.4    | 35.9     | 38.4     | 41.4     | 44.4     | 47.4     | 50.9     | 54.4     | 58.4     | 63       | 68       | 73       | 78       | 83       | 88      | 94      | 100     | 106     | 113     | ...     | 128     | 146     | 166 |     |
|       |   | ...     | ...     | ...      | ...      | 23.0     | 26.0     | 29.1     | 32.6     | 36.2     | 40.2     | 45       | 50       | 55       | 60       | 65       | 70      | 76      | 82      | 88      | 95      | ...     | 110     | 127     | 148 |     |
| 1.69  |   | 28.3    | 30.8    | 33.3     | 35.8     | 38.8     | 41.8     | 44.8     | 48.3     | 51.8     | 55.8     | 61       | 66       | 71       | 76       | 81       | 86      | 92      | 98      | 104     | 111     | ...     | 126     | 143     | 163 |     |
|       |   | ...     | ...     | ...      | ...      | 20.6     | 23.1     | 26.2     | 29.2     | 32.2     | 35.8     | 39.3     | 43.3     | 48       | 53       | 58       | 63      | 68      | 73      | 79      | 85      | 91      | 98      | ...     | 113 | 131 |
|       | 1.70                                      | 33.1    | 35.6    | 38.1     | 40.6     | 43.6     | 46.6     | 49.6     | 53.1     | 56.6     | 60.6     | 66       | 71       | 76       | 81       | 86       | 91      | 97      | 103     | 109     | 116     | ...     | 131     | 148     | 168 |     |
|       |   | 18.9    | 21.4    | 23.9     | 26.5     | 29.5     | 32.5     | 35.5     | 39.1     | 42.6     | 46.6     | 52       | 57       | 62       | 67       | 72       | 77      | 83      | 89      | 95      | 102     | ...     | 117     | 134     | 154 |     |
|       |   | 1.72    | 32.5    | 35.0     | 37.5     | 40.0     | 43.0     | 46.0     | 49.0     | 52.5     | 56.0     | 60.0     | 65       | 70       | 75       | 80       | 85      | 90      | 96      | 102     | 108     | 115     | ...     | 130     | 148 | 168 |
| 28.9  |   |         | 31.4    | 33.9     | 36.4     | 39.4     | 42.4     | 45.4     | 48.9     | 52.4     | 56.4     | 61       | 66       | 71       | 76       | 81       | 86      | 92      | 98      | 105     | 111     | ...     | 126     | 144     | 164 |     |
| 22.4  |   |         | 24.9    | 27.5     | 30.0     | 33.0     | 36.0     | 39.0     | 42.5     | 46.0     | 50.1     | 55       | 60       | 65       | 70       | 75       | 80      | 86      | 92      | 98      | 105     | ...     | 120     | 138     | 158 |     |
| 1.74  | 31.9                                      |         | 34.4    | 36.9     | 39.4     | 42.4     | 45.4     | 48.4     | 51.9     | 55.4     | 59.4     | 65       | 69       | 74       | 79       | 84       | 89      | 95      | 101     | 107     | 114     | ...     | 129     | 147     | 167 |     |
|       | 31.3                                      |         | 33.8    | 36.3     | 38.8     | 41.8     | 44.8     | 47.8     | 51.3     | 54.8     | 58.8     | 64       | 67       | 74       | 79       | 84       | 89      | 94      | 101     | 107     | 114     | ...     | 129     | 146     | 166 |     |
|       | ...                                       | ...     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...     | ...     | ...     | ...     | ...     | ...     | ...     | ...     | ... |     |
|       | .92                                       | .93     | .94     | .95      | .96      | .97      | .98      | .99      | 1.00     | 1.01     | 1.02     | 1.03     | 1.04     | 1.05     | 1.06     | 1.07     | 1.08    | 1.09    | 1.10    | 1.11    | 1.12    | 1.13    | 1.15    | 1.17    |     |     |
|       | 1.76                                      | 29.7    | 32.2    | 34.7     | 37.2     | 40.2     | 43.2     | 46.2     | 49.7     | 53.2     | 57.2     | 62       | 67       | 72       | 77       | 82       | 87      | 93      | 99      | 105     | 112     | 120     | 127     | 145     | 165 |     |
| 25.1  |   | 27.6    | 30.1    | 32.6     | 35.6     | 38.6     | 41.6     | 45.1     | 48.6     | 52.6     | 58       | 63       | 68       | 73       | 78       | 83       | 89      | 95      | 101     | 108     | 115     | 123     | 140     | 160     |     |     |
| 1.77  |   | 27.9    | 30.4    | 32.9     | 35.4     | 38.4     | 41.4     | 44.4     | 47.9     | 51.4     | 55.4     | 60       | 65       | 70       | 75       | 80       | 85      | 91      | 97      | 103     | 110     | 118     | 125     | 143     | 163 |     |
|       |   | 27.0    | 29.5    | 32.0     | 34.5     | 37.5     | 40.5     | 43.5     | 47.0     | 50.5     | 54.5     | 60       | 65       | 70       | 75       | 80       | 84      | 91      | 97      | 103     | 110     | 117     | 125     | 142     | 162 |     |
|       |   | 26.1    | 28.6    | 31.1     | 33.6     | 36.6     | 39.6     | 42.6     | 46.2     | 49.7     | 53.7     | 59       | 64       | 69       | 74       | 79       | 84      | 90      | 96      | 102     | 109     | 116     | 124     | 141     | 161 |     |
|       | 23.8                                      | 26.3    | 28.8    | 31.4     | 34.4     | 37.4     | 40.4     | 43.9     | 47.4     | 51.4     | 56       | 61       | 66       | 71       | 76       | 81       | 87      | 93      | 99      | 106     | 114     | 121     | 139     | 159     |     |     |
|       | 1.79                                      | 31.1    | 33.6    | 36.1     | 38.6     | 41.6     | 44.6     | 47.6     | 51.1     | 54.6     | 58.6     | 64       | 69       | 74       | 79       | 84       | 89      | 95      | 101     | 107     | 114     | 121     | 129     | 146     | 166 |     |
| 30.5  |   | 33.0    | 35.5    | 38.0     | 41.0     | 44.0     | 47.0     | 50.5     | 54.0     | 58.0     | 63       | 68       | 73       | 78       | 83       | 88       | 94      | 100     | 106     | 113     | 121     | 128     | 146     | 166     |     |     |
| 22.6  |   | 25.1    | 27.6    | 30.2     | 33.2     | 36.2     | 39.2     | 42.7     | 46.2     | 50.2     | 55       | 60       | 65       | 70       | 75       | 80       | 86      | 92.3    | 98      | 105     | 113     | 120     | 138     | 158     |     |     |
| ...   |   | ...     | ...     | ...      | 23.5     | 26.6     | 29.6     | 33.2     | 36.7     | 40.8     | 46       | 51       | 56       | 61       | 66       | 71       | 77      | 83      | 89      | 96.0    | 103     | 111     | 128     | 149     |     |     |

**NOTE:** \*\* Stock belt size 5V2650 & 5V3350 not shown  
Arc & Length Factors are approximate values  
Refer to Selection Procedure for more precise values

**NOTE:** Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).





# SELECTION

**5VX** D-V Wedge  
Single Belts to 200"  
POLYBAND to 200"

**5V** D-V Wedge  
Single Belts over 200"  
POLYBAND over 200"

## STOCK DRIVE SELECTION

| Ratio                                 | Stock Sheaves |        | 1750 RPM Driver |         |      | 1160 RPM Driver |         |      | 870 RPM Driver |         |      | Belt Number and Approx. Center Distance** |            |            |            |            |            |            |            |  |  |
|---------------------------------------|---------------|--------|-----------------|---------|------|-----------------|---------|------|----------------|---------|------|---|------------|------------|------------|------------|------------|------------|------------|--|--|
|                                       | Diameter      |        | Driven          | HP/Belt |      | Driven          | HP/Belt |      | Driven         | HP/Belt |      | 5VX 560                                   | 5VX 600    | 5VX 630    | 5VX 670    | 5VX 710    | 5VX 750    | 5VX 800    | 5VX 850    |  |  |
|                                       | Driver        | Driven | RPM             | 5VX     | 5V   | RPM             | 5VX     | 5V   | RPM            | 5VX     | 5V   |   |            |            |            |            |            |            |            |  |  |
| 1.80                                  | 11.80         | 21.20  | 970             | 40.7    | 34.5 | 643             | 29.2    | 25.8 | 483            | 22.7    | 20.5 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        | ...        |  |  |
| 1.81                                  | 6.30          | 11.30  | 969             | 18.3    | 14.1 | 642             | 12.9    | 10.2 | 481            | 10.0    | 8.1  | 14.0                                      | 16.0       | 17.5       | 19.5       | 21.5       | 23.6       | 26.1       | 28.6       |  |  |
| 1.82                                  | 10.30         | 18.70  | 960             | 35.0    | 29.6 | 636             | 24.9    | 21.8 | 478            | 19.4    | 17.2 | ...                                       | ...        | ...        | ...        | ...        | ...        | 16.7       | 19.3       |  |  |
| 1.84                                  | 4.40          | 8.00   | 953             | 9.7     | 5.8  | 631             | 6.8     | 4.3  | 473            | 5.3     | 35.0 | 18.2                                      | 20.2       | 21.7       | 23.7       | 25.7       | 27.7       | 30.2       | 32.7       |  |  |
| 1.85                                  | 4.65          | 8.50   | 944             | 10.8    | 6.9  | 628             | 7.7     | 5.1  | 470            | 6.0     | 4.1  | 17.6                                      | 19.6       | 21.1       | 23.1       | 25.1       | 27.1       | 29.6       | 32.1       |  |  |
|                                       | 4.90          | 9.00   |                 | 12.0    | 8.0  | 626             | 8.5     | 5.9  | 470            | 6.6     | 4.7  | 17.0                                      | 19.0       | 20.5       | 22.5       | 24.5       | 26.5       | 29.0       | 31.5       |  |  |
| 1.86                                  | 5.90          | 10.90  | 940             | 16.5    | 12.4 | 623             | 11.6    | 9.0  | 468            | 9.0     | 7.1  | 14.6                                      | 16.6       | 18.1       | 20.2       | 22.2       | 24.2       | 26.7       | 29.2       |  |  |
| 1.87                                  | 7.10          | 13.20  | 935             | 21.8    | 17.5 | 620             | 15.4    | 12.7 | 465            | 11.9    | 10.0 | 11.7                                      | 13.7       | 15.3       | 17.3       | 19.3       | 21.3       | 23.9       | 26.4       |  |  |
|                                       | 15.00         | 28.00  | ...             | ...     | ...  | 619             | 37.9    | 33.7 | 465            | 29.7    | 27.1 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        | ...        |  |  |
| 1.88                                  | 6.70          | 12.50  | 932             | 20.1    | 15.8 | 617             | 14.1    | 11.5 | 463            | 11.0    | 9.0  | 12.6                                      | 14.6       | 16.2       | 18.2       | 20.2       | 22.2       | 24.8       | 27.3       |  |  |
|                                       | 7.50          | 14.00  | 929             | 23.6    | 19.1 | 618             | 16.6    | 13.8 | 463            | 12.9    | 10.9 | ...                                       | 12.7       | 14.3       | 16.3       | 18.3       | 20.4       | 22.9       | 25.4       |  |  |
|                                       | 11.30         | 21.20  |                 | 38.9    | 32.9 | 616             | 27.8    | 24.5 | 463            | 21.6    | 19.4 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        | ...        |  |  |
| 1.89                                  | 5.20          | 9.75   | 925             | 13.4    | 9.4  | 613             | 9.4     | 6.9  | 460            | 7.3     | 5.4  | 16.1                                      | 18.1       | 19.6       | 21.6       | 23.7       | 25.7       | 28.2       | 30.7       |  |  |
|                                       | 5.50          | 10.30  | 927             | 14.7    | 10.7 | 614             | 10.4    | 7.8  | 460            | 8.1     | 6.2  | 15.4                                      | 17.4       | 18.9       | 21.0       | 23.0       | 25.0       | 27.5       | 30.0       |  |  |
|                                       | 6.30          | 11.80  | 928             | 18.3    | 14.1 | 615             | 12.9    | 10.2 | 460            | 10.0    | 8.1  | 13.5                                      | 15.5       | 17.1       | 19.1       | 21.1       | 23.1       | 25.6       | 28.2       |  |  |
|                                       | 8.00          | 15.00  | 925             | 25.7    | 21.1 | 615             | 18.1    | 15.3 | 460            | 14.0    | 12.0 | ...                                       | ...        | 13.0       | 15.0       | 17.1       | 19.1       | 21.7       | 24.2       |  |  |
|                                       | 8.50          | 16.00  |                 | 27.8    | 23.0 | 613             | 19.6    | 16.8 | 460            | 15.2    | 13.2 | ...                                       | ...        | ...        | 13.8       | 15.8       | 17.9       | 20.4       | 23.0       |  |  |
| 1.90                                  | 12.50         | 23.60  | 923             | 43.2    | 36.6 | 612             | 31.1    | 27.7 | 458            | 24.3    | 22.0 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        | ...        |  |  |
| 1.91                                  | 4.90          | 9.250  | 918             | 12.0    | 8.0  | 609             | 8.5     | 5.9  | 455            | 6.6     | 4.7  | 16.7                                      | 18.8       | 20.3       | 22.3       | 24.3       | 26.3       | 28.8       | 31.3       |  |  |
| 1.93                                  | 5.90          | 11.30  | 906             | 16.6    | 12.4 | 601             | 11.6    | 9.0  | 451            | 9.0     | 7.1  | 14.2                                      | 16.3       | 17.8       | 19.8       | 21.8       | 23.8       | 26.4       | 28.9       |  |  |
|                                       | 9.75          | 18.70  | 908             | 32.9    | 27.7 | 602             | 23.3    | 20.3 | 451            | 18.1    | 16.0 | ...                                       | ...        | ...        | ...        | ...        | ...        | 17.1       | 19.7       |  |  |
| 1.95                                  | 4.40          | 8.50   | 896             | 9.7     | 5.8  | 594             | 6.9     | 4.3  | 446            | 5.4     | 3.5  | 17.8                                      | 19.8       | 21.3       | 23.3       | 25.3       | 27.3       | 29.8       | 32.3       |  |  |
|                                       | 10.90         | 21.20  | 896             | 37.4    | 31.6 | 594             | 26.7    | 23.5 | 446            | 20.7    | 18.5 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        | ...        |  |  |
| 1.96                                  | 4.65          | 9.00   | ...             | 10.9    | 6.9  | 593             | 7.7     | 5.1  | 444            | 6.0     | 4.1  | 17.1                                      | 19.2       | 20.7       | 22.7       | 24.7       | 26.7       | 29.2       | 31.7       |  |  |
| 1.97                                  | 16.00         | 31.50  | ...             | ...     | ...  | 587             | 40.5    | 36.1 | 442            | 31.9    | 29.1 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        | ...        |  |  |
| 1.98                                  | 6.70          | 13.20  | 882             | 20.1    | 15.8 | 584             | 14.1    | 11.5 | 439            | 11.0    | 9.0  | 11.9                                      | 14.0       | 15.5       | 17.6       | 19.6       | 21.6       | 24.2       | 26.7       |  |  |
| 1.99                                  | 7.10          | 14.00  | 881             | 21.9    | 17.5 | 584             | 15.4    | 12.7 | 437            | 11.9    | 10.0 | ...                                       | 13.0       | 14.5       | 16.6       | 18.6       | 20.6       | 23.2       | 25.7       |  |  |
| <b>ARC-LENGTH CORRECTION FACTOR →</b> |               |        |                 |         |      |                 |         |      |                |         |      | <b>.83</b>                                | <b>.85</b> | <b>.86</b> | <b>.87</b> | <b>.88</b> | <b>.89</b> | <b>.91</b> | <b>.92</b> |  |  |
| 2.00                                  | 5.20          | 10.30  | 875             | 13.4    | 9.4  | 580             | 9.4     | 6.9  | 435            | 7.3     | 5.5  | 15.6                                      | 17.6       | 19.2       | 21.2       | 23.2       | 25.2       | 27.7       | 30.2       |  |  |
|                                       | 5.50          | 10.90  | 875             | 14.8    | 10.7 | 580             | 10.4    | 7.8  | 435            | 8.1     | 6.2  | 14.9                                      | 16.9       | 18.4       | 20.4       | 22.5       | 24.5       | 27.0       | 29.5       |  |  |
|                                       | 6.30          | 12.50  | 875             | 18.4    | 14.2 | 580             | 12.9    | 10.3 | 435            | 10.0    | 8.1  | 12.9                                      | 14.9       | 16.4       | 18.5       | 20.5       | 22.5       | 25.1       | 27.6       |  |  |
| 2.01                                  | 4.65          | 9.25   | 870             | 10.9    | 6.9  | 577             | 7.7     | 5.1  | 433            | 6.0     | 4.1  | 16.9                                      | 18.9       | 20.5       | 22.5       | 24.5       | 26.5       | 29.0       | 31.5       |  |  |
|                                       | 4.90          | 9.75   | 870             | 12.0    | 8.1  | 577             | 8.5     | 5.9  | 433            | 6.6     | 4.7  | 16.3                                      | 18.3       | 19.9       | 21.9       | 23.9       | 25.9       | 28.4       | 30.9       |  |  |
|                                       | 7.50          | 15.00  | 869             | 23.6    | 19.1 | 576             | 16.6    | 13.9 | 433            | 12.9    | 10.9 | ...                                       | ...        | 13.3       | 15.4       | 17.4       | 19.5       | 22.0       | 24.5       |  |  |
|                                       | 8.00          | 16.00  | 869             | 25.7    | 21.1 | 576             | 18.1    | 15.3 | 433            | 14.1    | 12.1 | ...                                       | ...        | ...        | 14.1       | 16.2       | 18.2       | 20.8       | 23.3       |  |  |
|                                       | 11.80         | 23.60  | 870             | 40.7    | 34.5 | 578             | 29.2    | 25.9 | 433            | 22.8    | 20.5 | ...                                       | .....      | .....      | .....      | .....      | .....      | .....      | .....      |  |  |
| 14.00                                 | 28.00         | 872    | 48.4            | 40.7    | 578  | 35.2            | 31.4    | 433  | 27.6           | 25.1    | ...  | ...                                       | ...        | .....      | .....      | .....      | .....      | .....      |            |  |  |
| 2.02                                  | 5.90          | 11.80  | 868             | 16.6    | 12.5 | 575             | 11.6    | 9.0  | 431            | 9.0     | 7.1  | 13.8                                      | 15.8       | 17.4       | 19.4       | 21.4       | 23.4       | 25.9       | 28.4       |  |  |
| 2.03                                  | 9.25          | 18.70  | 861             | 30.9    | 25.9 | 571             | 21.9    | 18.9 | 429            | 17.0    | 14.9 | ...                                       | ...        | ...        | ...        | ...        | ...        | 17.4       | 20.0       |  |  |
| 2.07                                  | 4.40          | 9.00   | 846             | 9.7     | 5.8  | 560             | 6.9     | 4.4  | 420            | 5.4     | 3.5  | 17.3                                      | 19.3       | 20.9       | 22.9       | 24.9       | 26.9       | 29.4       | 31.9       |  |  |
|                                       | 5.50          | 11.30  | 844             | 14.8    | 10.7 | 559             | 10.4    | 7.8  | 420            | 8.1     | 6.2  | 14.5                                      | 16.6       | 18.1       | 20.1       | 22.1       | 24.1       | 26.7       | 29.2       |  |  |
|                                       | 10.30         | 21.20  | 846             | 35.1    | 29.6 | 561             | 24.9    | 21.9 | 420            | 19.4    | 17.2 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        | ...        |  |  |
| 2.09                                  | 9.00          | 18.70  | 837             | 29.9    | 25.0 | 555             | 21.1    | 18.2 | 416            | 16.4    | 14.3 | ...                                       | ...        | ...        | ...        | ...        | ...        | 17.6       | 20.2       |  |  |
| 2.10                                  | 11.30         | 23.60  | 834             | 38.9    | 32.9 | 553             | 27.8    | 24.6 | 414            | 21.6    | 19.4 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        | ...        |  |  |
| 2.11                                  | 6.30          | 13.20  | 828             | 18.4    | 14.2 | 549             | 12.9    | 10.3 | 412            | 10.0    | 8.1  | ...                                       | 14.3       | 15.8       | 17.9       | 19.9       | 21.9       | 24.4       | 27.0       |  |  |
|                                       | 6.70          | 14.00  | 831             | 20.1    | 15.9 | 551             | 14.2    | 11.5 | 412            | 11.0    | 9.0  | ...                                       | 13.2       | 14.8       | 16.9       | 18.9       | 20.9       | 23.5       | 26.0       |  |  |
|                                       | 15.0          | 31.50  | 830             | ...     | ...  | 550             | 37.9    | 33.8 | 412            | 29.7    | 27.1 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        | ...        |  |  |
| 2.12                                  | 46.50         | 9.75   | 825             | 10.9    | 7.0  | 547             | 7.7     | 5.2  | 410            | 6.0     | 4.1  | ...                                       | 18.5       | 20.0       | 22.0       | 24.1       | 26.1       | 28.6       | 31.1       |  |  |
|                                       | 5.20          | 10.90  | 826             | 13.4    | 9.4  | 548             | 9.4     | 6.9  | 410            | 7.3     | 5.5  | ...                                       | 17.1       | 18.6       | 20.7       | 22.7       | 24.7       | 27.2       | 29.7       |  |  |
| 2.13                                  | 4.40          | 9.25   | 822             | 9.7     | 5.8  | 545             | 6.9     | 4.4  | 408            | 5.4     | 3.5  | ...                                       | 19.1       | 20.6       | 22.7       | 24.7       | 26.7       | 29.2       | 31.7       |  |  |
|                                       | 4.90          | 10.30  | 824             | 12.0    | 8.1  | 546             | 8.5     | 6.0  | 408            | 6.6     | 4.7  | ...                                       | 17.9       | 19.4       | 21.4       | 23.4       | 25.4       | 27.9       | 30.4       |  |  |
|                                       | 7.10          | 15.00  | 822             | 21.9    | 17.5 | 545             | 15.4    | 12.7 | 408            | 11.9    | 10.0 | ...                                       | ...        | 13.6       | 15.6       | 17.7       | 19.8       | 22.3       | 24.8       |  |  |
|                                       | 13.20         | 28.00  | 822             | 45.7    | 38.6 | 545             | 33.1    | 29.5 | 408            | 25.9    | 23.4 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        | ...        |  |  |
| 2.14                                  | 5.90          | 12.50  | 819             | 16.6    | 12.5 | 543             | 11.7    | 9.1  | 407            | 9.1     | 7.1  | ...                                       | 15.2       | 16.7       | 18.8       | 20.8       | 22.8       | 25.3       | 27.9       |  |  |
| 2.15                                  | 7.50          | 16.00  | 814             | 23.6    | 19.2 | 540             | 16.6    | 13.9 | 405            | 12.9    | 10.9 | ...                                       | ...        | ...        | 14.4       | 16.5       | 18.6       | 21.1       | 23.7       |  |  |
| 2.17                                  | 5.50          | 11.80  | 808             | 14.8    | 10.7 | 535             | 10.4    | 7.8  | 401            | 8.1     | 6.2  | ...                                       | 16.1       | 17.6       | 19.7       | 21.7       | 23.7       | 26.2       | 28.7       |  |  |
| 2.18                                  | 10.90         | 23.60  | 804             | 37.4    | 31.7 | 533             | 26.7    | 23.5 | 399            | 20.7    | 18.6 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        | ...        |  |  |

**NOTE:** \* 5VX = Single and Polyband belts to 200" length  
5V = Single and Polyband belts over 200" long

\*\* Stock belt size 5VX530 not shown

**NOTE:** Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

V-Drives  
 FHP Drives  
 Drive Component Accessories  
 DYNA-SYNC  
 HT200/HTD Synchronous Drives  
 HT500 Synchronous Drives  
 Roller Chain Sprockets

# SELECTION



**5VX** D-V Wedge  
Single Belts to 200"  
POLYBAND to 200"

**5V** D-V Wedge  
Single Belts over 200"  
POLYBAND over 200"

## STOCK DRIVE SELECTION

| Speed Ratio | Belt Number and Approx. Center Distance** |            |            |            |            |            |            |             |             |             |             |             |             |             |             |             |             |             |             |             |             |         |             |             |     |
|-------------|---|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------|-------------|-------------|-----|
|             | 5VX 900                                   | 5VX 950    | 5VX 1000   | 5VX 1060   | 5VX 1120   | 5VX 1180   | 5VX 1250   | 5VX 1320    | 5VX 1400    | 5VX 1500    | 5VX 1600    | 5VX 1700    | 5VX 1800    | 5VX 1900    | 5VX 2000    | 5V 2120     | 5V 2240     | 5V 2360     | 5V 2500     | 5V 2650     | 5V 2800     | 5V 3000 | 5V 3150     | 5V 3550     |     |
| 1.80        | 18.5                                      | 21.1       | 23.6       | 26.7       | 29.7       | 32.6       | 36.3       | 39.8        | 43.8        | 49          | 54          | 59          | 64          | 69          | 74          | 80          | 86          | 92          | 99          | 106         | 114         | ...     | 132         | 152         |     |
| 1.81        | 31.1                                      | 33.6       | 36.1       | 39.1       | 42.1       | 45.1       | 48.6       | 52.1        | 56.1        | 61          | 66          | 71          | 76          | 81          | 86          | 92          | 98          | 104         | 111         | 119         | 126         | ...     | 144         | 164         |     |
| 1.82        | 21.8                                      | 24.4       | 26.9       | 29.9       | 33.0       | 36.0       | 39.5       | 43.0        | 47.0        | 52          | 57          | 62          | 67          | 72          | 77          | 83          | 89          | 95          | 102         | 110         | 117         | ...     | 135         | 155         |     |
| 1.84        | 35.2                                      | 37.7       | 40.2       | 43.2       | 46.2       | 49.2       | 52.7       | 56.2        | 60.2        | 65          | 70          | 75          | 80          | 85          | 90          | 96          | 102         | 108         | 115         | 123         | 130         | ...     | 148         | 168         |     |
| 1.85        | 34.6                                      | 37.1       | 39.6       | 42.6       | 45.6       | 48.6       | 52.1       | 55.6        | 59.6        | 65          | 70          | 75          | 80          | 85          | 90          | 96          | 102         | 108         | 115         | 122         | 130         | ...     | 147         | 167         |     |
| 1.86        | 34.0                                      | 36.5       | 39.0       | 42.0       | 45.0       | 48.0       | 51.5       | 55.0        | 59.0        | 64          | 69          | 74          | 79          | 84          | 89          | 95          | 101         | 107         | 114         | 122         | 129         | ...     | 147         | 167         |     |
| 1.87        | 31.7                                      | 34.2       | 36.7       | 39.7       | 42.7       | 45.7       | 49.2       | 52.7        | 56.8        | 62          | 67          | 72          | 77          | 82          | 87          | 93          | 99          | 105         | 112         | 119         | 127         | ...     | 144         | 164         |     |
| 1.87        | 28.9                                      | 31.4       | 33.9       | 36.9       | 39.9       | 42.9       | 46.5       | 50.0        | 54.0        | 59          | 64          | 69          | 74          | 79          | 84          | 90          | 96          | 102         | 109         | 117         | 124         | ...     | 142         | 162         |     |
| 1.87        | ...                                       | ...        | ...        | ...        | ...        | 24.4       | 28.0       | 31.6        | 35.6        | 41          | 46          | 51          | 56          | 61          | 66          | 72          | 78          | 84          | 91          | 99          | 106         | ...     | 124         | 144         |     |
| 1.88        | 29.8                                      | 32.3       | 34.8       | 37.8       | 40.8       | 43.8       | 47.3       | 50.8        | 54.9        | 60          | 65          | 70          | 75          | 80          | 85          | 91          | 97          | 103         | 110         | 117         | 125         | ...     | 142         | 162         |     |
| 1.88        | 27.9                                      | 30.4       | 33.0       | 36.0       | 39.0       | 42.0       | 45.5       | 49.0        | 53.0        | 58          | 63          | 68          | 73          | 78          | 83          | 89          | 95          | 101         | 108         | 116         | 123         | ...     | 141         | 161         |     |
| 1.88        | 18.8                                      | 21.4       | 24.0       | 27.0       | 30.1       | 33.1       | 36.6       | 40.2        | 44.2        | 49          | 54          | 59          | 64          | 69          | 74          | 80          | 86          | 92          | 99          | 107         | 114         | ...     | 132         | 152         |     |
| 1.89        | 33.2                                      | 35.7       | 38.2       | 41.2       | 44.2       | 47.2       | 50.7       | 54.2        | 58.2        | 63          | 68          | 73          | 78          | 83          | 88          | 94          | 100         | 106         | 113         | 121         | 128         | ...     | 146         | 166         |     |
| 1.89        | 32.5                                      | 35.0       | 37.5       | 40.5       | 43.5       | 46.5       | 50.0       | 53.5        | 57.5        | 63          | 68          | 73          | 78          | 83          | 88          | 94          | 100         | 106         | 113         | 120         | 128         | ...     | 145         | 165         |     |
| 1.89        | 30.7                                      | 33.2       | 35.7       | 38.7       | 41.7       | 44.7       | 48.2       | 51.7        | 55.7        | 61          | 66          | 71          | 76          | 81          | 86          | 92          | 98          | 104         | 111         | 118         | 126         | ...     | 143         | 163         |     |
| 1.89        | 26.7                                      | 29.2       | 31.7       | 34.8       | 37.8       | 40.8       | 44.3       | 47.8        | 51.8        | 57          | 62          | 67          | 72          | 77          | 82          | 88          | 94          | 100         | 107         | 114         | 122         | ...     | 139         | 159         |     |
| 1.89        | 25.5                                      | 28.0       | 30.5       | 33.5       | 36.6       | 39.6       | 43.1       | 46.6        | 50.6        | 56          | 61          | 66          | 71          | 76          | 81          | 87          | 93          | 99          | 105         | 113         | 121         | ...     | 138         | 158         |     |
| 1.90        | ...                                       | ...        | 20.9       | 24.0       | 27.1       | 30.1       | 33.7       | 37.2        | 41.3        | 46          | 51          | 56          | 61          | 66          | 71          | 77          | 83          | 89          | 97          | 104         | 112         | ...     | 129         | 149         |     |
| 1.91        | 33.8                                      | 36.3       | 38.8       | 41.8       | 44.8       | 47.8       | 51.3       | 54.8        | 58.8        | 64          | 69          | 74          | 79          | 84          | 89          | 95          | 101         | 107         | 114         | 121         | 129         | ...     | 146         | 166         |     |
| 1.93        | 31.4                                      | 33.9       | 36.4       | 39.4       | 42.4       | 45.4       | 48.9       | 52.4        | 56.4        | 61          | 66          | 71          | 76          | 81          | 86          | 92          | 98          | 104         | 111         | 119         | 126         | ...     | 144         | 164         |     |
| 1.93        | 22.2                                      | 24.8       | 27.3       | 30.3       | 33.4       | 36.4       | 39.9       | 43.4        | 47.4        | 52          | 57          | 62          | 67          | 73          | 78          | 84          | 90          | 96          | 103         | 110         | 118         | ...     | 135         | 155         |     |
| 1.95        | 34.8                                      | 37.3       | 39.8       | 42.8       | 45.8       | 48.8       | 52.3       | 55.8        | 59.8        | 65          | 70          | 75          | 80          | 85          | 90          | 96          | 102         | 108         | 114         | 122         | 130         | ...     | 147         | 167         |     |
| 1.95        | 19.1                                      | 21.7       | 24.2       | 27.3       | 30.4       | 33.4       | 36.9       | 40.5        | 44.5        | 50          | 55          | 60          | 65          | 70          | 74          | 81          | 87          | 93          | 100         | 107         | 115         | ...     | 132         | 152         |     |
| 1.96        | 34.2                                      | 36.7       | 39.2       | 42.2       | 45.2       | 48.2       | 51.7       | 55.2        | 59.2        | 64          | 69          | 74          | 79          | 84          | 89          | 95          | 101         | 107         | 114         | 122         | 129         | ...     | 147         | 167         |     |
| 1.97        | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        | 27.6        | 31.7        | 37          | 42          | 47          | 52          | 57          | 62          | 68          | 74          | 80          | 87          | 95          | 102         | ...     | 120         | 140         |     |
| 1.96        | 29.2                                      | 31.7       | 34.2       | 37.2       | 40.2       | 43.2       | 46.8       | 50.3        | 54.3        | 59          | 64          | 69          | 74          | 79          | 84          | 90          | 96          | 102         | 109         | 117         | 124         | ...     | 142         | 162         |     |
| 1.99        | 28.2                                      | 30.7       | 33.2       | 36.3       | 39.3       | 42.3       | 45.8       | 49.3        | 53.3        | 58          | 63          | 68          | 73          | 78          | 83          | 89          | 95          | 101         | 108         | 116         | 123         | ...     | 141         | 161         |     |
| 1.99        | <b>.93</b>                                | <b>.94</b> | <b>.95</b> | <b>.96</b> | <b>.97</b> | <b>.98</b> | <b>.99</b> | <b>1.00</b> | <b>1.01</b> | <b>1.02</b> | <b>1.03</b> | <b>1.04</b> | <b>1.05</b> | <b>1.06</b> | <b>1.07</b> | <b>1.08</b> | <b>1.09</b> | <b>1.10</b> | <b>1.11</b> | <b>1.12</b> | <b>1.13</b> | ...     | <b>1.14</b> | <b>1.16</b> |     |
| 2.00        | 32.7                                      | 35.2       | 37.7       | 40.8       | 43.8       | 46.8       | 50.3       | 53.8        | 57.8        | 63          | 68          | 73          | 78          | 83          | 88          | 94          | 100         | 106         | 113         | 120         | 128         | ...     | 145         | 165         |     |
| 2.00        | 32.0                                      | 34.5       | 37.0       | 40.0       | 43.0       | 46.0       | 49.5       | 53.1        | 57.1        | 62          | 67          | 72          | 77          | 82          | 87          | 93          | 99          | 105         | 112         | 120         | 127         | ...     | 147         | 165         |     |
| 2.00        | 30.1                                      | 32.6       | 35.1       | 38.1       | 41.1       | 44.1       | 47.6       | 51.1        | 55.2        | 60          | 65          | 70          | 75          | 80          | 85          | 91          | 97          | 103         | 110         | 118         | 125         | ...     | 143         | 163         |     |
| 2.01        | 34.0                                      | 36.5       | 39.0       | 42.0       | 45.0       | 48.0       | 51.5       | 55.0        | 59.0        | 64          | 69          | 74          | 79          | 84          | 89          | 95          | 101         | 107         | 114         | 122         | 129         | ...     | 147         | 167         |     |
| 2.01        | 33.4                                      | 35.9       | 38.4       | 41.4       | 44.4       | 47.4       | 50.9       | 54.4        | 58.4        | 63          | 68          | 73          | 78          | 83          | 88          | 94          | 100         | 106         | 113         | 121         | 128         | ...     | 146         | 166         |     |
| 2.01        | 27.1                                      | 29.6       | 32.1       | 35.1       | 38.1       | 41.2       | 44.7       | 48.2        | 52.2        | 57          | 62          | 67          | 72          | 77          | 82          | 88          | 94          | 100         | 107         | 115         | 122         | ...     | 140         | 160         |     |
| 2.01        | 25.9                                      | 28.4       | 30.9       | 33.9       | 36.9       | 40.0       | 43.5       | 47.0        | 51.0        | 56          | 61          | 66          | 71          | 76          | 81          | 87          | 93          | 99          | 106         | 114         | 121         | ...     | 139         | 159         |     |
| 2.01        | ...                                       | ...        | 21.4       | 24.5       | 27.6       | 30.6       | 34.2       | 37.7        | 41.8        | 47          | 52          | 57          | 62          | 67          | 72          | 78          | 84          | 90          | 97          | 105         | 112         | ...     | 130         | 150         |     |
| 2.01        | ...                                       | ...        | ...        | ...        | ...        | 25.0       | 28.7       | 32.3        | 36.3        | 41          | 47          | 51          | 57          | 62          | 67          | 73          | 79          | 85          | 92          | 99          | 107         | ...     | 124         | 144         |     |
| 2.02        | 31.0                                      | 35.5       | 36.0       | 39.0       | 42.0       | 45.0       | 48.5       | 52.0        | 56.0        | 61          | 66          | 71          | 76          | 81          | 86          | 92          | 98          | 104         | 111         | 119         | 126         | ...     | 144         | 164         |     |
| 2.03        | 22.6                                      | 25.1       | 27.6       | 30.7       | 33.7       | 36.7       | 40.3       | 43.8        | 47.8        | 53          | 58          | 63          | 68          | 73          | 78          | 84          | 90          | 96          | 103         | 110         | 118         | ...     | 135         | 155         |     |
| 2.07        | 34.4                                      | 36.9       | 39.4       | 42.4       | 45.4       | 48.4       | 51.9       | 55.4        | 59.4        | 64          | 69          | 74          | 79          | 84          | 89          | 95          | 101         | 107         | 114         | 122         | 129         | ...     | 147         | 167         |     |
| 2.07        | 31.7                                      | 34.2       | 36.7       | 39.7       | 42.7       | 45.7       | 49.2       | 52.7        | 56.7        | 62          | 67          | 72          | 77          | 82          | 87          | 93          | 99          | 105         | 112         | 119         | 127         | ...     | 144         | 164         |     |
| 2.07        | 19.5                                      | 22.1       | 24.7       | 27.7       | 30.8       | 33.8       | 37.4       | 40.9        | 44.9        | 50          | 55          | 60          | 65          | 70          | 75          | 81          | 87          | 93          | 100         | 108         | 115         | ...     | 133         | 153         |     |
| 2.09        | 22.7                                      | 25.3       | 27.8       | 30.9       | 33.9       | 36.9       | 40.5       | 44.0        | 48.0        | 53          | 58          | 63          | 68          | 73          | 78          | 84          | 90          | 96          | 103         | 111         | 118         | ...     | 136         | 156         |     |
| 2.10        | ...                                       | ...        | 21.7       | 24.8       | 27.9       | 31.0       | 34.5       | 38.1        | 42.1        | 47          | 52          | 57          | 62          | 67          | 72          | 78          | 84          | 90          | 97          | 105         | 112         | ...     | 130         | 150         |     |
| 2.11        | 29.5                                      | 32.0       | 34.5       | 37.5       | 40.5       | 43.5       | 47.1       | 50.6        | 54.6        | 60          | 65          | 70          | 75          | 80          | 85          | 91          | 97          | 103         | 110         | 117         | 125         | 135     | ...         | 142         | 162 |
| 2.11        | 28.5                                      | 31.0       | 33.6       | 36.6       | 39.6       | 42.6       | 46.1       | 49.6        | 53.6        | 59          | 64          | 69          | 74          | 79          | 84          | 90          | 96          | 102         | 109         | 116         | 124         | ...     | 141         | 161         |     |
| 2.11        | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        | 28.3        | 32.4        | 38          | 43          | 48          | 53          | 58          | 63          | 69          | 75          | 81          | 88          | 96          | 103         | ...     | 121         | 141         |     |
| 2.12        | 33.6                                      | 36.1       | 38.6       | 41.6       | 44.6       | 47.6       | 51.1       | 54.6        | 58.6        | 64          | 69          | 74          | 79          | 84          | 89          | 95          | 101         | 107         | 114         | 121         | 129         | 137     | ...         | 146         | 166 |
| 2.12        | 32.2                                      | 34.7       | 37.2       | 40.3       | 43.3       | 46.3       | 49.8       | 53.3        | 57.3        | 62          | 67          | 72          | 77          | 82          | 87          | 93          | 99          | 105         | 112         | 120         | 127         | 139     | ...         | 145         | 165 |
| 2.13        | 34.2                                      | 36.7       | 39.2       | 42.2       | 45.2       | 48.2       | 51.7       | 55.2        | 59.2        | 64          | 69          | 74          | 79          | 84          | 89          | 95          | 101         | 107         | 114         | 122         | 129         | 139     | ...         | 147         | 167 |
| 2.13        | 33.0                                      | 35.5       | 38.0       | 41.0       | 44.0       | 47.0       | 50.5       | 54.0        | 58.0        | 63          | 68          | 73          | 78          | 83          | 88          | 94          | 100         | 106         | 113         | 121         | 128         | 138     | ...         | 146         | 166 |
| 2.13        | 27.4                                      | 29.9       | 32.4       | 35.4       | 38.4       | 41.5       | 45.0       | 48.5        | 52.5        | 58          | 63          | 68          | 73          | 78          | 83          | 89          | 95          | 101         | 108         | 115         | 123         | 133     | ...         | 140         | 160 |
| 2.13        | ...                                       | ...        | ...        | ...        | ...        | 25.6       | 29.2       | 32.8        | 36.9        | 42          | 47          | 52          | 57          | 62          | 67          | 73          | 79          | 85          | 92          | 100         | 107         | 117     | ...         | 125         | 145 |
| 2.14        | 30.4                                      | 32.9       | 35.4       | 38.4       | 41.4       | 44.4       | 47.9       | 51.4        | 55.5        | 60          | 65          | 70          | 75          | 80          | 85          | 91          | 98          | 104         | 111         | 118         | 126         | 136     | ...         | 143         | 163 |
| 2.15        | 26.2                                      | 28.7       | 31.3       | 34.3       | 37.3       | 40.3       | 43.8       | 47.4        | 51.4        | 56          | 61          | 66          | 71          | 76          | 81          | 87          | 93          | 99          | 106         | 114         | 121         | 131     | ...         | 139         | 159 |
| 2.17        | 31.3                                      | 33.8       | 36.3       | 39.3       | 42.3       | 45.3       | 48.8       | 52.3        | 56.3        | 61          | 66          | 71          | 76          | 81          | 86          | 92          | 98          | 104         | 111         | 119         | 126         | 136     | ...         | 144         | 164 |
| 2.18        | ...                                       | ...        | 22.0       | 25.1       | 28.2       | 31.3       | 34.8       | 38.4        | 42.4        | 47          | 53          | 58          | 63          | 68          | 73          | 79          | 85          | 91          | 98          | 105         | 113         | 123     | ...         | 130         | 150 |





# SELECTION

**5VX** D-V Wedge  
Single Belts to 200"  
POLYBAND to 200"

**5V** D-V Wedge  
Single Belts over 200"  
POLYBAND over 200"

## STOCK DRIVE SELECTION

| Ratio                                 | Stock Sheaves |        | 1750 RPM Driver |         |       | 1160 RPM Driver |         |      | 870 RPM Driver |         |      | Belt Number and Approx. Center Distance** |            |            |            |            |            |            |
|---------------------------------------|---------------|--------|-----------------|---------|-------|-----------------|---------|------|----------------|---------|------|---|------------|------------|------------|------------|------------|------------|
|                                       | Diameter      |        | Driven RPM      | HP/Belt |       | Driven RPM      | HP/Belt |      | Driven RPM     | HP/Belt |      | 5VX 600                                   | 5VX 630    | 5VX 670    | 5VX 710    | 5VX 750    | 5VX 800    | 5VX 850    |
|                                       | Driver        | Driven |                 | 5VX     | 5VX   |                 | 5VX     | 5VX  |                | 5VX     | 5VX  |   |            |            |            |            |            |            |
| 2.19                                  | 9.75          | 21.20  | 800             | 32.9    | 27.7  | 531             | 23.3    | 20.4 | 397            | 18.1    | 16.0 | ...                                       | ...        | ...        | ...        | ...        | ...        | 17.3       |
| 2.20                                  | 5.20          | 11.30  | 797             | 13.4    | 9.4   | 528             | 9.5     | 6.9  | 395            | 7.4     | 5.5  | 16.8                                      | 18.3       | 20.3       | 22.3       | 24.4       | 26.9       | 29.4       |
| 2.21                                  | 8.50          | 18.70  | 790             | 27.8    | 23.1  | 524             | 19.6    | 16.8 | 394            | 15.2    | 13.2 | ...                                       | ...        | ...        | ...        | 15.3       | 17.9       | 20.5       |
| 2.24                                  | 4.40          | 9.75   | 780             | 9.7     | 5.8   | 517             | 6.9     | 4.4  | 388            | 5.4     | 3.5  | 18.7                                      | 20.2       | 22.2       | 24.2       | 26.3       | 28.8       | 31.3       |
|                                       | 4.65          | 10.30  | 781             | 10.9    | 7.0   | 517             | 7.7     | 5.2  | 388            | 6.0     | 4.1  | 18.0                                      | 19.6       | 21.6       | 23.6       | 25.6       | 28.1       | 30.6       |
|                                       | 6.30          | 14.00  | 781             | 18.4    | 14.2  | 517             | 12.9    | 10.3 | 388            | 10.0    | 8.1  | 13.5                                      | 15.1       | 17.1       | 19.2       | 21.2       | 23.8       | 26.3       |
| 2.25                                  | 4.90          | 10.90  | 778             | 12.1    | 8.1   | 516             | 8.5     | 6.0  | 387            | 6.6     | 4.7  | 17.3                                      | 18.9       | 20.9       | 22.9       | 24.9       | 27.4       | 29.9       |
|                                       | 12.50         | 28.00  | 778             | 43.3    | 36.6  | 516             | 31.2    | 27.7 | 387            | 24.3    | 22.0 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        |
| 2.26                                  | 5.90          | 13.20  | 775             | 16.6    | 12.5  | 516             | 11.7    | 9.1  | 385            | 9.1     | 7.2  | 14.5                                      | 16.1       | 18.1       | 20.2       | 22.2       | 24.7       | 27.3       |
|                                       | 6.70          | 15.00  | 775             | 20.2    | 15.9  | 514             | 14.2    | 11.5 | 385            | 11.0    | 9.1  | 12.3                                      | 13.8       | 15.9       | 18.0       | 20.0       | 22.6       | 25.1       |
|                                       | 14.00         | 31.50  | 775             | 48.4    | 40.7  | 514             | 35.3    | 31.5 | 385            | 27.6    | 25.1 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        |
| 2.27                                  | 7.10          | 16.00  | 770             | 21.9    | 17.55 | 511             | 15.4    | 12.7 | 383            | 11.9    | 10.0 | ...                                       | ...        | 14.7       | 16.8       | 18.8       | 21.4       | 23.9       |
| 2.29                                  | 5.20          | 11.80  | 763             | 13.4    | 9.4   | 506             | 9.5     | 6.9  | 380            | 7.4     | 5.5  | 16.3                                      | 17.8       | 19.9       | 21.9       | 23.9       | 26.4       | 29.0       |
| 2.30                                  | 5.50          | 12.50  | 762             | 14.8    | 10.8  | 505             | 10.4    | 7.8  | 378            | 8.1     | 6.2  | 15.5                                      | 17.0       | 19.0       | 21.1       | 23.1       | 25.6       | 28.1       |
|                                       | 10.30         | 23.60  | 760             | 35.1    | 29.7  | 503             | 25.0    | 21.9 | 378            | 19.4    | 17.2 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        |
| 2.31                                  | 9.25          | 21.20  | 729             | 30.9    | 25.9  | 503             | 21.9    | 19.0 | 377            | 17.0    | 14.9 | ...                                       | ...        | ...        | ...        | ...        | ...        | 17.6       |
| 2.33                                  | 4.90          | 11.30  | 750             | 12.1    | 8.1   | 497             | 8.5     | 6.0  | 373            | 6.6     | 4.8  | 17.0                                      | 18.5       | 20.5       | 22.5       | 24.6       | 27.1       | 29.6       |
|                                       | 8.00          | 18.70  | 713             | 25.8    | 21.2  | 493             | 18.1    | 15.4 | 370            | 14.1    | 12.1 | ...                                       | ...        | ...        | ...        | 15.6       | 18.2       | 20.8       |
| 2.35                                  | 16.00         | 37.50  | 744             | ...     | ...   | 493             | 40.5    | 36.1 | 370            | 31.9    | 29.1 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        |
|                                       | 4.40          | 10.30  | 738             | 9.7     | 5.9   | 489             | 6.9     | 4.4  | 367            | 5.4     | 3.5  | 18.2                                      | 19.7       | 21.8       | 23.8       | 25.8       | 28.3       | 30.8       |
|                                       | 4.65          | 10.90  | 737             | 10.9    | 7.0   | 489             | 7.7     | 5.2  | 367            | 6.0     | 4.1  | 17.5                                      | 19.0       | 21.1       | 23.1       | 25.1       | 27.6       | 30.1       |
| 2.37                                  | 9.00          | 21.20  | 738             | 29.9    | 25.0  | 489             | 21.1    | 18.3 | 367            | 16.4    | 14.4 | ...                                       | ...        | ...        | ...        | ...        | ...        | 17.7       |
|                                       | 11.80         | 28.00  | 734             | 40.8    | 34.6  | 486             | 29.2    | 25.9 | 366            | 22.8    | 20.5 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        |
| 2.40                                  | 5.90          | 14.00  | 730             | 16.6    | 12.5  | 484             | 11.7    | 9.1  | 363            | 9.1     | 7.2  | 13.8                                      | 15.3       | 17.4       | 19.4       | 21.5       | 24.0       | 26.6       |
|                                       | 6.30          | 15.00  | 728             | 18.4    | 14.2  | 483             | 12.9    | 10.3 | 363            | 10.0    | 8.1  | 12.5                                      | 14.1       | 16.2       | 18.3       | 20.3       | 22.9       | 25.4       |
|                                       | 13.20         | 31.50  | 730             | 45.7    | 38.6  | 484             | 33.1    | 29.5 | 363            | 25.9    | 23.5 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        |
| 2.41                                  | 6.70          | 16.00  | 726             | 20.2    | 15.9  | 482             | 14.2    | 11.5 | 361            | 11.0    | 9.1  | .....                                     | 12.8       | 15.0       | 17.0       | 19.1       | 21.7       | 24.2       |
| 2.43                                  | 5.20          | 12.50  | 720             | 13.5    | 9.5   | 477             | 9.5     | 6.9  | 358            | 7.4     | 5.5  | 15.7                                      | 17.2       | 19.3       | 21.3       | 23.3       | 25.8       | 28.4       |
|                                       | 5.50          | 13.20  | 721             | 14.8    | 10.8  | 478             | 10.4    | 7.9  | 358            | 8.1     | 6.2  | 14.8                                      | 16.4       | 18.4       | 20.5       | 22.5       | 25.0       | 27.6       |
| 2.44                                  | 4.90          | 11.80  | 718             | 12.1    | 8.1   | 476             | 8.5     | 6.0  | 357            | 6.6     | 4.78 | 16.5                                      | 18.1       | 20.1       | 22.1       | 24.1       | 26.7       | 29.2       |
|                                       | 9.75          | 23.60  | 719             | 32.9    | 27.7  | 476             | 23.4    | 20.4 | 357            | 18.1    | 16.1 | ..  | ...        | ...        | ...        | ...        | ...        | ...        |
| 2.48                                  | 4.65          | 11.30  | 711             | 10.9    | 7.0   | 471             | 7.71    | 5.2  | 351            | 6.0     | 4.2  | 17.2                                      | 18.7       | 20.7       | 22.7       | 24.7       | 27.3       | 29.8       |
| 2.49                                  | 11.30         | 28.00  | 703             | 38.9    | 33.0  | 466             | 27.8    | 24.6 | 349            | 21.7    | 19.4 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        |
| <b>ARC-LENGTH CORRECTION FACTOR →</b> |               |        |                 |         |       |                 |         |      |                |         |      | <b>.84</b>                                | <b>.84</b> | <b>.86</b> | <b>.87</b> | <b>.88</b> | <b>.89</b> | <b>.91</b> |
| 2.51                                  | 4.40          | 10.90  | 697             | 9.7     | 5.9   | 462             | 6.9     | 4.4  | 347            | 5.4     | 3.5  | 17.7                                      | 19.2       | 21.2       | 23.3       | 25.3       | 27.8       | 30.3       |
|                                       | 7.50          | 18.70  | 696             | 23.6    | 19.2  | 462             | 16.6    | 13.9 | 347            | 12.9    | 10.9 | ...                                       | ...        | ...        | ...        | 15.9       | 18.6       | 21.2       |
|                                       | 8.50          | 21.20  | 697             | 27.9    | 23.1  | 462             | 19.7    | 16.8 | 347            | 15.2    | 13.2 | ...                                       | ...        | ...        | ...        | ...        | ...        | 18.1       |
|                                       | 15.00         | 37.50  | 697             | ...     | ...   | 462             | 37.9    | 33.9 | 347            | 29.8    | 27.1 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        |
| 2.53                                  | 12.50         | 31.50  | 691             | 43.3    | 36.7  | 458             | 31.2    | 27.7 | 344            | 24.3    | 22.0 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        |
| 2.56                                  | 6.30          | 16.00  | 682             | 18.4    | 14.2  | 452             | 12.9    | 10.3 | 340            | 10.0    | 8.1  | ...                                       | 13.1       | 15.2       | 17.3       | 19.4       | 22.0       | 24.5       |
| 2.57                                  | 4.65          | 11.80  | 681             | 10.9    | 7.0   | 451             | 7.7     | 5.2  | 339            | 6.0     | 4.2  | 16.7                                      | 18.2       | 20.3       | 22.3       | 24.3       | 26.8       | 29.4       |
|                                       | 5.20          | 13.20  | 681             | 13.5    | 9.5   | 452             | 9.5     | 6.9  | 339            | 7.4     | 5.5  | 15.0                                      | 16.6       | 18.6       | 20.7       | 22.7       | 25.2       | 27.8       |
|                                       | 5.50          | 14.00  | 680             | 14.8    | 10.8  | 451             | 10.4    | 7.9  | 339            | 8.1     | 6.2  | 14.0                                      | 15.6       | 17.7       | 19.7       | 21.8       | 24.3       | 26.8       |
|                                       | 5.90          | 15.00  | 681             | 16.6    | 12.5  | 452             | 11.7    | 9.1  | 339            | 9.1     | 7.2  | 12.8                                      | 14.4       | 16.5       | 18.5       | 20.6       | 23.1       | 25.7       |
| 2.58                                  | 9.25          | 23.60  | 681             | 30.9    | 25.9  | 452             | 21.9    | 19.0 | 339            | 17.0    | 14.9 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        |
|                                       | 4.90          | 12.50  | 677             | 12.1    | 8.1   | 449             | 8.5     | 6.0  | 337            | 6.6     | 4.8  | ...                                       | 17.4       | 19.5       | 21.5       | 23.5       | 26.1       | 28.6       |
| 2.60                                  | 10.90         | 28.00  | 677             | 37.4    | 31.7  | 449             | 26.7    | 23.5 | 337            | 20.8    | 18.6 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        |
|                                       | 4.40          | 11.30  | 672             | 9.8     | 5.9   | 445             | 6.9     | 4.4  | 335            | 5.4     | 3.5  | ...                                       | 18.9       | 20.9       | 22.9       | 24.9       | 27.9       | 30.0       |
| 2.64                                  | 9.00          | 23.60  | 663             | 29.9    | 25.0  | 439             | 21.2    | 18.3 | 330            | 16.4    | 14.4 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        |
| 2.66                                  | 7.10          | 18.70  | 659             | 21.9    | 17.6  | 437             | 15.4    | 12.7 | 327            | 12.0    | 10.0 | ...                                       | ...        | ...        | ...        | 16.2       | 15.8       | 26.5       |
| 2.67                                  | 8.00          | 21.20  | 655             | 25.8    | 21.2  | 434             | 18.2    | 15.4 | 326            | 14.1    | 12.1 | ...                                       | ...        | ...        | ...        | ...        | ...        | 18.4       |
| 2.68                                  | 11.80         | 31.50  | 652             | 40.8    | 34.6  | 432             | 29.2    | 25.9 | 325            | 22.8    | 20.5 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        |
| 2.69                                  | 14.00         | 37.50  | 650             | 48.4    | 40.7  | 431             | 35.3    | 31.5 | 323            | 27.6    | 25.1 | ...                                       | ...        | ...        | ...        | ...        | ...        | ...        |
| 2.72                                  | 4.40          | 11.80  | 643             | 9.8     | 5.9   | 426             | 6.9     | 4.4  | 320            | 5.4     | 3.5  | ...                                       | 18.4       | 20.4       | 22.5       | 24.5       | 27.0       | 29.5       |
|                                       | 4.65          | 12.50  | 642             | 10.9    | 7.0   | 426             | 7.7     | 5.2  | 319            | 6.0     | 4.2  | ...                                       | 17.6       | 19.6       | 21.7       | 23.7       | 26.2       | 28.8       |
| 2.73                                  | 4.90          | 13.20  | 641             | 12.1    | 8.1   | 425             | 8.5     | 6.0  | 319            | 6.6     | 4.8  | ...                                       | 16.8       | 18.8       | 20.9       | 22.9       | 25.5       | 28.0       |
|                                       | 5.20          | 14.00  | 642             | 13.5    | 9.5   | 426             | 9.5     | 6.9  | 319            | 7.4     | 5.5  | ...                                       | 15.8       | 17.9       | 19.9       | 22.0       | 24.5       | 27.1       |

NOTE: \* 5VX = Single and Polyband belts to 200" length  
5V = Single and Polyband belts over 200" long

\*\* Stock belt size 5VX530 not shown

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

V-Drives  
FHP Drives  
Drive Component Accessories  
DYNA-SYNC  
Synchronous Drives  
HT200/HTD  
Synchronous Drives  
HT500  
Synchronous Drives  
Roller Chain Sprockets

# SELECTION



**5VX** D-V Wedge  
Single Belts to 200"  
POLYBAND to 200"

**5V** D-V Wedge  
Single Belts over 200"  
POLYBAND over 200"

## STOCK DRIVE SELECTION

| Ratio | Belt Number and Approx. Center Distance |         |          |          |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |         |         |         |         |         |         |
|-------|---|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|       | 5VX 900                                 | 5VX 950 | 5VX 1000 | 5VX 1060 | 5VX 1120 | 5VX 1180 | 5VX 1250 | 5VX 1320 | 5VX 1400 | 5VX 1500 | 5VX 1600 | 5VX 1700 | 5VX 1800 | 5VX 1900 | 5VX 2000 | 5V 2120 | 5V 2240 | 5V 2360 | 5V 2500 | 5V 2650 | 5V 2800 | 5V 3000 | 5V 3150 | 5V 3350 | 5V 3550 |
| 2.19  | 19.9                                    | 22.5    | 25.0     | 28.1     | 31.2     | 34.2     | 37.8     | 41.3     | 45.3     | 50       | 55       | 60       | 65       | 70       | 75       | 82      | 88      | 94      | 101     | 108     | 116     | 126     | 133     | ...     | 153     |
| 2.20  | 31.9                                    | 34.4    | 36.9     | 39.9     | 42.9     | 45.9     | 49.4     | 53.0     | 57.0     | 62       | 67       | 72       | 77       | 82       | 87       | 93      | 99      | 105     | 112     | 120     | 127     | 137     | 145     | ...     | 165     |
| 2.21  | 23.1                                    | 25.6    | 28.2     | 31.2     | 34.3     | 37.3     | 40.8     | 44.3     | 48.4     | 53       | 58       | 63       | 68       | 73       | 78       | 84      | 90      | 96      | 103     | 111     | 118     | 129     | 136     | ...     | 156     |
| 2.24  | 33.8                                    | 36.3    | 38.8     | 41.8     | 44.8     | 47.8     | 51.3     | 54.8     | 58.8     | 64       | 69       | 74       | 79       | 84       | 89       | 95      | 101     | 107     | 114     | 121     | 129     | 139     | 146     | ...     | 166     |
|       | 33.1                                    | 35.6    | 38.2     | 41.2     | 44.2     | 47.2     | 50.7     | 54.2     | 58.2     | 63       | 68       | 73       | 78       | 83       | 88       | 94      | 100     | 106     | 113     | 121     | 128     | 138     | 146     | ...     | 166     |
| 2.25  | 28.8                                    | 31.3    | 33.8     | 36.9     | 39.9     | 42.9     | 46.4     | 49.9     | 53.9     | 59       | 64       | 69       | 74       | 79       | 84       | 90      | 96      | 102     | 109     | 117     | 124     | 134     | 142     | ...     | 162     |
|       | 32.5                                    | 35.0    | 37.5     | 40.5     | 43.5     | 46.5     | 50.0     | 53.5     | 57.5     | 62       | 68       | 73       | 78       | 83       | 88       | 94      | 100     | 106     | 113     | 120     | 128     | 138     | 145     | ...     | 165     |
| 2.26  | ...                                     | ...     | ...      | ...      | 22.9     | 26.0     | 29.7     | 33.3     | 37.4     | 43       | 48       | 53       | 58       | 63       | 68       | 74      | 80      | 86      | 93      | 100     | 108     | 118     | 125     | ...     | 145     |
|       | 29.8                                    | 32.3    | 34.8     | 37.8     | 40.8     | 43.8     | 47.4     | 50.9     | 54.9     | 60       | 65       | 70       | 75       | 80       | 85       | 91      | 97      | 103     | 110     | 117     | 125     | 135     | 142     | ...     | 162     |
| 2.27  | 27.7                                    | 30.2    | 32.7     | 35.7     | 38.7     | 41.7     | 45.3     | 48.8     | 52.8     | 58       | 63       | 68       | 73       | 78       | 83       | 89      | 95      | 101     | 108     | 115     | 123     | 133     | 140     | ...     | 160     |
|       | ...                                     | ...     | ...      | ...      | ...      | ...      | 25.2     | 28.9     | 33.1     | 38       | 43       | 48       | 54       | 59       | 64       | 70      | 76      | 82      | 89      | 96      | 104     | 114     | 121     | ...     | 141     |
| 2.29  | 26.5                                    | 29.0    | 31.5     | 34.6     | 37.6     | 40.6     | 44.1     | 47.6     | 51.7     | 57       | 62       | 67       | 72       | 77       | 82       | 88      | 94      | 100     | 107     | 114     | 122     | 132     | 139     | ...     | 159     |
| 2.29  | 31.5                                    | 34.0    | 36.5     | 39.5     | 42.5     | 45.5     | 49.0     | 52.6     | 56.6     | 62       | 67       | 72       | 77       | 82       | 87       | 93      | 99      | 105     | 112     | 119     | 127     | 137     | 144     | ...     | 164     |
| 2.30  | 30.7                                    | 33.2    | 35.7     | 38.7     | 41.7     | 44.7     | 48.2     | 51.7     | 55.8     | 61       | 66       | 71       | 76       | 81       | 86       | 92      | 98      | 104     | 111     | 118     | 126     | 136     | 143     | ...     | 163     |
|       | ...                                     | 19.8    | 22.4     | 25.5     | 28.6     | 31.7     | 35.2     | 38.8     | 42.9     | 48       | 53       | 58       | 63       | 68       | 73       | 79      | 85      | 91      | 98      | 106     | 113     | 123     | 131     | ...     | 151     |
| 2.31  | 20.2                                    | 22.8    | 25.4     | 28.5     | 31.5     | 34.6     | 38.1     | 41.7     | 45.7     | 51       | 56       | 61       | 66       | 71       | 76       | 82      | 88      | 94      | 101     | 108     | 116     | 126     | 133     | ...     | 153     |
| 2.33  | 32.1                                    | 34.6    | 37.1     | 40.1     | 43.2     | 46.2     | 49.7     | 53.2     | 57.2     | 62       | 67       | 72       | 77       | 82       | 87       | 93      | 99      | 105     | 112     | 120     | 127     | 137     | 145     | ...     | 165     |
| 2.35  | 23.4                                    | 26.0    | 28.5     | 31.6     | 34.6     | 37.6     | 41.2     | 44.7     | 48.7     | 54       | 59       | 64       | 69       | 74       | 79       | 85      | 91      | 97      | 104     | 111     | 119     | 129     | 136     | ...     | 156     |
|       | ...                                     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | 31       | 36       | 42       | 47       | 52       | 57       | 63      | 69      | 75      | 82      | 120     | 97      | 107     | 115     | ...     | 135     |
| 2.37  | 33.3                                    | 35.8    | 38.3     | 41.3     | 44.4     | 47.4     | 50.9     | 54.4     | 58.4     | 63       | 68       | 73       | 78       | 83       | 88       | 94      | 100     | 106     | 113     | 121     | 128     | 138     | 146     | ...     | 166     |
|       | 32.6                                    | 35.2    | 37.7     | 41.7     | 43.7     | 46.7     | 50.2     | 53.7     | 57.7     | 63       | 68       | 3        | 78       | 83       | 88       | 94      | 100     | 106     | 113     | 120     | 128     | 138     | 145     | ...     | 165     |
| 2.38  | 20.4                                    | 23.0    | 25.6     | 28.6     | 31.7     | 34.7     | 38.3     | 41.8     | 45.9     | 51       | 56       | 61       | 66       | 71       | 76       | 82      | 88      | 94      | 101     | 109     | 116     | 125     | 134     | ...     | 154     |
|       | ...                                     | ...     | ...      | ...      | 23.3     | 26.5     | 30.2     | 33.8     | 37.9     | 43       | 48       | 53       | 58       | 63       | 68       | 74      | 80      | 86      | 93      | 101     | 108     | 118     | 126     | ...     | 146     |
| 2.40  | 29.1                                    | 31.6    | 34.1     | 37.1     | 40.2     | 43.2     | 46.7     | 50.2     | 54.2     | 59       | 64       | 69       | 74       | 79       | 84       | 90      | 96      | 102     | 109     | 117     | 124     | 134     | 142     | ...     | 162     |
|       | 27.9                                    | 30.5    | 33.0     | 36.0     | 39.0     | 42.1     | 45.6     | 49.1     | 53.1     | 58       | 63       | 68       | 73       | 78       | 83       | 89      | 95      | 101     | 108     | 116     | 123     | 133     | 141     | ...     | 161     |
| 2.41  | ...                                     | ...     | ...      | ...      | ...      | ...      | 25.8     | 29.5     | 33.6     | 39       | 44       | 49       | 54       | 59       | 64       | 70      | 76      | 82      | 89      | 97      | 105     | 115     | 122     | ...     | 142     |
|       | 26.8                                    | 29.3    | 31.8     | 34.9     | 37.9     | 40.9     | 44.4     | 48.0     | 52.0     | 57       | 62       | 67       | 72       | 77       | 82       | 88      | 94      | 100     | 107     | 115     | 122     | 132     | 140     | ...     | 160     |
| 2.43  | 30.9                                    | 33.4    | 35.9     | 38.9     | 41.9     | 45.0     | 48.5     | 52.0     | 56.0     | 61       | 66       | 71       | 76       | 81       | 86       | 92      | 98      | 104     | 111     | 119     | 126     | 136     | 144     | ...     | 164     |
|       | 30.1                                    | 32.6    | 35.1     | 38.1     | 41.1     | 44.2     | 47.7     | 51.2     | 55.2     | 60       | 65       | 70       | 75       | 80       | 85       | 91      | 97      | 103     | 110     | 118     | 125     | 135     | 143     | ...     | 163     |
| 2.44  | 31.7                                    | 34.2    | 36.7     | 39.7     | 42.7     | 45.8     | 49.3     | 52.8     | 56.8     | 62       | 67       | 72       | 77       | 82       | 87       | 93      | 99      | 105     | 112     | 119     | 127     | 137     | 144     | ...     | 164     |
|       | ...                                     | 20.1    | 22.8     | 25.9     | 29.0     | 32.1     | 35.6     | 39.2     | 43.3     | 48       | 53       | 58       | 63       | 68       | 73       | 80      | 86      | 92      | 99      | 106     | 114     | 125     | 131     | ...     | 151     |
| 2.46  | 32.3                                    | 34.8    | 37.3     | 40.3     | 43.3     | 46.4     | 49.9     | 53.4     | 57.4     | 62       | 67       | 72       | 77       | 82       | 87       | 93      | 99      | 105     | 112     | 120     | 127     | 137     | 145     | ...     | 165     |
| 2.49  | ...                                     | ...     | ...      | ...      | 23.7     | 26.8     | 30.5     | 34.1     | 38.2     | 43       | 48       | 53       | 59       | 64       | 69       | 75      | 81      | 87      | 94      | 101     | 109     | 119     | 126     | ...     | 146     |
| 2.51  | .92                                     | .93     | .94      | .95      | .96      | .97      | .98      | .99      | 1.00     | 1.01     | 1.03     | 1.04     | 1.05     | 1.06     | 1.07     | 1.08    | 1.08    | 1.09    | 1.10    | 1.10    | 1.12    | 1.13    | 1.14    | 1.15    | 1.16    |
|       | 32.8                                    | 35.3    | 37.8     | 40.9     | 43.9     | 46.9     | 50.4     | 53.9     | 57.9     | 63       | 68       | 73       | 78       | 83       | 88       | 94      | 100     | 106     | 113     | 120     | 128     | 138     | 145     | ...     | 165     |
|       | 23.8                                    | 26.3    | 28.9     | 31.9     | 35.0     | 38.0     | 41.5     | 45.1     | 49.1     | 54       | 59       | 64       | 69       | 74       | 79       | 85      | 91      | 97      | 104     | 112     | 119     | 129     | 137     | ...     | 157     |
| 2.53  | 20.7                                    | 23.3    | 25.9     | 29.0     | 32.0     | 35.1     | 38.7     | 42.2     | 46.2     | 51       | 56       | 61       | 66       | 71       | 76       | 82      | 88      | 94      | 101     | 109     | 117     | 127     | 134     | ...     | 154     |
|       | ...                                     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | 32       | 37       | 42       | 47       | 53       | 58       | 64      | 70      | 76      | 83      | 91      | 98      | 108     | 116     | ...     | 136     |
| 2.56  | 27.1                                    | 29.6    | 32.1     | 35.2     | 38.2     | 41.2     | 44.7     | 48.3     | 52.3     | 57       | 62       | 67       | 72       | 77       | 82       | 88      | 94      | 100     | 107     | 115     | 122     | 132     | 140     | ...     | 160     |
| 2.57  | 31.9                                    | 34.4    | 36.9     | 39.9     | 42.9     | 45.9     | 49.5     | 53.0     | 57.0     | 62       | 67       | 72       | 77       | 82       | 87       | 93      | 99      | 105     | 112     | 120     | 127     | 137     | 115     | ...     | 165     |
|       | 30.3                                    | 32.8    | 35.3     | 38.3     | 41.4     | 44.4     | 47.9     | 51.4     | 55.4     | 60       | 65       | 70       | 75       | 80       | 85       | 91      | 97      | 103     | 110     | 118     | 125     | 135     | 143     | ...     | 163     |
|       | 29.4                                    | 31.9    | 34.4     | 37.4     | 40.5     | 43.5     | 47.0     | 50.5     | 54.5     | 59       | 64       | 70       | 75       | 80       | 85       | 91      | 97      | 103     | 110     | 117     | 125     | 135     | 142     | ...     | 162     |
|       | 28.2                                    | 30.8    | 33.3     | 36.3     | 39.3     | 42.3     | 45.9     | 49.4     | 5.4      | 58       | 63       | 68       | 73       | 78       | 83       | 89      | 95      | 101     | 108     | 116     | 124     | 134     | 141     | ...     | 161     |
| 2.58  | ...                                     | 20.4    | 23.1     | 26.2     | 29.3     | 32.4     | 36.0     | 39.5     | 43.6     | 49       | 54       | 58       | 64       | 67       | 74       | 80      | 86      | 92      | 99      | 106     | 114     | 124     | 132     | ...     | 152     |
|       | 31.1                                    | 33.6    | 36.1     | 39.2     | 42.2     | 45.2     | 48.7     | 52.2     | 56.2     | 61       | 66       | 71       | 76       | 81       | 86       | 92      | 98      | 104     | 111     | 119     | 126     | 136     | 144     | 154     | 164     |
| 2.60  | ...                                     | ...     | ...      | ...      | 23.9     | 27.1     | 30.8     | 34.4     | 38.5     | 44       | 49       | 54       | 57       | 64       | 69       | 75      | 81      | 87      | 94      | 102     | 109     | 119     | 127     | 137     | 147     |
|       | 32.5                                    | 35.0    | 37.5     | 40.5     | 43.5     | 46.5     | 50.1     | 53.6     | 57.6     | 63       | 68       | 73       | 78       | 83       | 88       | 94      | 100     | 106     | 113     | 120     | 128     | 138     | 145     | 155     | 165     |
| 2.64  | ...                                     | 20.6    | 23.3     | 26.4     | 29.5     | 32.6     | 36.2     | 39.7     | 43.8     | 49       | 54       | 59       | 64       | 69       | 74       | 80      | 86      | 92      | 99      | 107     | 114     | 124     | 132     | 142     | 152     |
| 2.66  | 24.0                                    | 26.6    | 29.2     | 32.2     | 35.3     | 38.3     | 41.8     | 45.4     | 49.4     | 54       | 59       | 64       | 69       | 74       | 79       | 86      | 92      | 98      | 105     | 112     | 120     | 130     | 137     | 147     | 157     |
| 2.67  | 21.0                                    | 23.6    | 26.2     | 29.3     | 32.4     | 35.5     | 39.0     | 42.6     | 46.6     | 52       | 57       | 62       | 67       | 72       | 77       | 83      | 89      | 95      | 102     | 109     | 117     | 127     | 134     | 144     | 154     |
| 2.68  | ...                                     | ...     | ...      | ...      | ...      | ...      | 26.7     | 30.4     | 34.6     | 40       | 45       | 50       | 55       | 60       | 65       | 71      | 77      | 83      | 90      | 98      | 106     | 116     | 123     | 133     | 143     |
| 2.69  | ...                                     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | 32       | 38       | 43       | 48       | 53       | 58       | 65      | 71      | 77      | 84      | 91      | 99      | 109     | 116     | 127     | 136     |
| 2.72  | 32.1                                    | 34.6    | 37.1     | 40.1     | 43.1     | 46.1     | 49.6     | 53.1     | 57.2     | 62       | 67       | 72       | 77       | 82       | 87       | 93      | 99      | 105     | 112     | 120     | 127     | 137     | 145     | 155     | 165     |
|       | 31.3                                    | 33.8    | 36.3     | 39.3     | 42.4     | 45.4     | 48.9     | 52.4     | 56.4     | 61       | 66       | 71       | 76       | 81       | 86       | 92      | 98      | 101     | 111     | 119     | 126     | 136     | 144     | 154     | 164     |
| 2.73  | 30.5                                    | 33.0    | 35.5     | 38.6     | 41.6     | 44.6     | 48.1     | 51.6     | 55.6     | 61       | 66       | 71       | 76       | 81       | 86       | 92      | 98      | 104     | 111     | 118     | 126     | 136     | 143     | 153     | 163     |
|       | 29.6                                    | 32.1    | 34.6     | 37.7     | 40.7     | 43.7     | 47.2     | 50.7     | 54.7     | 60       | 65       | 70       | 75       | 80       | 85       | 91      | 97      | 103     | 110     | 117     | 125     | 135     | 142     | 152     | 162     |

NOTES: \*\* Stock belt size 5V2650 & 5V3350 not shown  
Arc & Length Factors are approximate values

Refer to Selection Procedure for more precise values

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).



# SELECTION

**5VX** D-V Wedge  
Single Belts to 200"  
POLYBAND to 200"

**5V** D-V Wedge  
Single Belts over 200"  
POLYBAND over 200"

## STOCK DRIVE SELECTION

| Ratio                          | Stock Sheaves |        | 1750 RPM Driver |         |      | 1160 RPM Driver |         |      | 870 RPM Driver |         |      | Belt Number and Approx. Center Distance** |         |         |         |         |         |         |
|--------------------------------|---------------|--------|-----------------|---------|------|-----------------|---------|------|----------------|---------|------|---|---------|---------|---------|---------|---------|---------|
|                                | Diameter      |        | Driven RPM      | HP/Belt |      | Driven RPM      | HP/Belt |      | Driven RPM     | HP/Belt |      | 5VX 600                                   | 5VX 630 | 5VX 670 | 5VX 710 | 5VX 750 | 5VX 800 | 5VX 850 |
|                                | Driver        | Driven |                 | 5VX     | 5VX  |                 | 5VX     | 5VX  |                | 5VX     | 5VX  |   |         |         |         |         |         |         |
| 2.74                           | 5.90          | 16.00  | 638             | 16.6    | 12.5 | 423             | 11.7    | 9.1  | 318            | 9.1     | 7.2  | ...                                       | 13.3    | 15.5    | 17.6    | 19.7    | 22.2    | 24.8    |
|                                | 10.30         | 28.00  | 640             | 35.1    | 29.7 | 424             | 25.0    | 21.9 | 318            | 19.4    | 17.3 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |
| 2.76                           | 5.50          | 15.00  | 634             | 14.8    | 10.8 | 420             | 10.4    | 7.9  | 315            | 8.1     | 6.2  | ...                                       | 14.6    | 16.7    | 18.8    | 20.9    | 23.4    | 26.0    |
|                                | 8.50          | 23.60  | 626             | 27.9    | 23.1 | 415             | 19.7    | 16.8 | 311            | 15.3    | 13.2 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |
| 2.80                           | 11.30         | 31.50  | 624             | 38.9    | 33.0 | 414             | 27.8    | 24.6 | 311            | 21.7    | 19.4 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |
|                                | 6.70          | 18.70  | 621             | 20.2    | 15.9 | 412             | 14.2    | 11.5 | 309            | 11.0    | 9.1  | ...                                       | ...     | ...     | ...     | 16.5    | 19.1    | 21.7    |
| 2.85                           | 7.50          | 21.20  | 614             | 23.7    | 19.2 | 407             | 16.6    | 13.9 | 305            | 12.9    | 10.9 | ...                                       | ...     | ...     | ...     | ...     | 16.0    | 18.7    |
|                                | 13.20         | 37.50  | 613             | 45.7    | 38.7 | 406             | 33.1    | 29.5 | 305            | 25.9    | 23.5 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |
| 2.88                           | 4.40          | 12.50  | 607             | 9.8     | 5.9  | 402             | 6.9     | 4.4  | 302            | 5.4     | 3.5  | ...                                       | 17.8    | 19.8    | 21.9    | 23.9    | 26.4    | 28.9    |
|                                | 4.65          | 13.20  | 608             | 11.0    | 7.0  | 403             | 7.7     | 5.2  | 302            | 6.0     | 4.2  | ...                                       | 16.9    | 19.0    | 21.1    | 23.1    | 25.6    | 28.3    |
| 2.89                           | 9.75          | 28.00  | 605             | 33.0    | 27.8 | 401             | 23.4    | 20.4 | 301            | 18.1    | 16.0 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |
| 2.90                           | 4.90          | 14.00  | 604             | 12.1    | 8.2  | 401             | 8.5     | 6.0  | 300            | 6.6     | 4.8  | ...                                       | 16.0    | 18.1    | 20.1    | 22.2    | 24.7    | 27.3    |
| 2.91                           | 10.90         | 31.50  | 602             | 37.4    | 31.7 | 399             | 26.7    | 23.5 | 299            | 20.7    | 18.6 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |
| 2.92                           | 5.20          | 15.00  | 599             | 13.5    | 9.5  | 397             | 9.5     | 6.9  | 298            | 7.4     | 5.5  | ...                                       | 14.8    | 16.9    | 19.0    | 21.1    | 23.6    | 26.2    |
| 2.94                           | 5.50          | 16.00  | 594             | 14.8    | 10.8 | 394             | 10.4    | 7.9  | 296            | 8.1     | 6.2  | ...                                       | 13.6    | 15.7    | 17.9    | 19.9    | 22.5    | 25.1    |
| 2.97                           | 8.00          | 23.60  | 588             | 25.8    | 21.2 | 390             | 18.2    | 15.4 | 293            | 14.1    | 12.1 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |
| 3.00                           | 6.30          | 18.70  | 583             | 18.4    | 14.3 | 387             | 12.9    | 10.3 | 290            | 10.0    | 8.1  | ...                                       | ...     | ...     | 14.6    | 16.7    | 19.4    | 22.0    |
| 3.01                           | 7.10          | 21.20  | 581             | 21.9    | 17.6 | 385             | 15.4    | 12.7 | 289            | 12.0    | 10.0 | ...                                       | ...     | ...     | ...     | ...     | 16.3    | 19.0    |
| 3.02                           | 12.50         | 37.50  | 580             | 43.3    | 36.7 | 385             | 31.2    | 27.7 | 288            | 24.3    | 22.0 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |
| 3.05                           | 4.40          | 13.20  | 574             | 9.8     | 5.9  | 381             | 6.9     | 4.4  | 285            | 5.4     | 3.6  | ...                                       | 17.1    | 19.2    | 21.2    | 23.3    | 25.8    | 28.3    |
|                                | 4.65          | 14.00  | 573             | 10.9    | 7.0  | 380             | 7.7     | 5.2  | 285            | 6.0     | 4.2  | ...                                       | 16.2    | 18.3    | 20.3    | 22.4    | 24.9    | 27.5    |
|                                | 9.25          | 28.00  | 574             | 31.0    | 26.0 | 380             | 21.9    | 19.0 | 285            | 17.0    | 14.9 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |
| 3.08                           | 10.30         | 31.50  | 568             | 35.1    | 29.7 | 377             | 25.0    | 21.9 | 282            | 19.4    | 17.3 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |
| ARC-LENGTH CORRECTION FACTOR → |               |        |                 |         |      |                 |         |      |                |         |      | ...                                       | .82     | .84     | .86     | .87     | .88     | .90     |
| 3.10                           | 4.90          | 15.00  | 564             | 12.1    | 8.2  | 374             | 8.5     | 6.0  | 281            | 6.6     | 4.8  | ...                                       | 15.0    | 17.1    | 19.2    | 21.3    | 23.8    | 26.4    |
| 3.12                           | 5.20          | 16.00  | 561             | 13.5    | 9.50 | 372             | 9.5     | 6.9  | 279            | 7.4     | 5.5  | ...                                       | 13.8    | 15.9    | 18.1    | 20.1    | 22.7    | 25.3    |
| 3.13                           | 9.00          | 28.00  | 558             | 30.0    | 25.0 | 370             | 21.2    | 18.3 | 278            | 16.4    | 14.4 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |
| 3.14                           | 16.00         | 50.00  | 558             | ...     | ...  | 370             | 40.5    | 36.2 | 277            | 31.9    | 29.1 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |
| 3.18                           | 7.50          | 23.60  | 551             | 23.7    | 19.2 | 365             | 16.6    | 13.9 | 274            | 12.9    | 10.9 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |
| 3.20                           | 11.80         | 37.50  | 547             | 40.8    | 34.6 | 363             | 29.3    | 25.9 | 272            | 22.8    | 20.5 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |
|                                | 6.70          | 21.20  | 547             | 20.2    | 15.9 | 363             | 14.2    | 11.5 | 272            | 11.0    | 9.1  | ...                                       | ...     | ...     | ...     | ...     | 16.5    | 19.2    |
| 3.21                           | 5.90          | 18.70  | 546             | 16.6    | 12.6 | 362             | 11.7    | 9.1  | 271            | 9.1     | 7.2  | ...                                       | ...     | ...     | 14.8    | 17.0    | 19.6    | 22.3    |
| 3.23                           | 4.40          | 14.00  | 541             | 9.8     | 5.9  | 359             | 6.9     | 4.4  | 269            | 5.4     | 3.6  | ...                                       | 16.4    | 18.4    | 20.5    | 22.5    | 25.1    | 27.6    |
| 3.25                           | 9.75          | 31.50  | 538             | 33.0    | 27.8 | 356             | 23.4    | 20.4 | 268            | 18.2    | 16.1 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |
| 3.27                           | 4.65          | 15.00  | 534             | 10.9    | 7.0  | 354             | 7.7     | 5.2  | 266            | 6.0     | 4.2  | ...                                       | 15.2    | 17.3    | 19.4    | 21.5    | 24.0    | 26.6    |
| 3.31                           | 4.90          | 16.00  | 528             | 12.1    | 8.2  | 350             | 8.5     | 6.0  | 263            | 6.6     | 4.8  | ...                                       | 14.0    | 16.1    | 18.2    | 20.3    | 22.9    | 25.5    |
| 3.32                           | 8.50          | 28.00  | 527             | 27.9    | 23.2 | 349             | 19.7    | 16.9 | 262            | 15.3    | 13.2 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |
| 3.34                           | 11.30         | 37.50  | 524             | 39.0    | 33.0 | 347             | 27.8    | 24.6 | 260            | 21.7    | 19.5 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |
| 3.35                           | 15.00         | 50.00  | 523             | ...     | ...  | 346             | 37.9    | 33.9 | 260            | 29.8    | 27.2 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |
| 3.36                           | 7.10          | 23.60  | 521             | 22.0    | 17.6 | 346             | 15.4    | 12.7 | 259            | 12.0    | 10.0 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |
| 3.40                           | 6.30          | 21.20  | 514             | 18.4    | 14.3 | 341             | 13.0    | 10.3 | 256            | 10.0    | 8.1  | ...                                       | ...     | ...     | ...     | ...     | 16.8    | 19.5    |
| 3.43                           | 9.25          | 31.50  | 510             | 31.0    | 26.0 | 338             | 21.9    | 19.0 | 254            | 17.0    | 14.9 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |
| 3.44                           | 5.50          | 18.70  | 508             | 14.8    | 10.8 | 337             | 10.4    | 7.9  | 253            | 8.1     | 6.2  | ...                                       | ...     | ...     | 15.1    | 17.2    | 19.9    | 22.5    |
| 3.46                           | 10.90         | 37.50  | 505             | 37.5    | 31.7 | 335             | 26.7    | 23.5 | 251            | 20.8    | 18.6 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |
| ARC-LENGTH CORRECTION FACTOR → |               |        |                 |         |      |                 |         |      |                |         |      | 0.79                                      | 0.81    | 0.83    | 0.85    | 0.86    | 0.87    | 0.89    |
| 3.47                           | 4.40          | 15.00  | 505             | 9.8     | 5.9  | 335             | 6.9     | 4.4  | 251            | 5.4     | 3.6  | ...                                       | ...     | ...     | 19.6    | 21.6    | 24.2    | 26.7    |
| 3.49                           | 4.65          | 16.00  | 501             | 10.9    | 7.0  | 332             | 7.7     | 5.2  | 249            | 6.0     | 4.2  | ...                                       | ...     | ...     | 18.4    | 20.5    | 23.1    | 25.7    |
| 3.53                           | 8.00          | 28.00  | 496             | 25.8    | 21.2 | 328             | 18.2    | 15.4 | 246            | 14.1    | 12.1 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |
|                                | 9.00          | 31.50  | 496             | 30.0    | 25.0 | 329             | 21.2    | 18.2 | 246            | 16.4    | 14.4 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |
| 3.56                           | 6.70          | 23.60  | 491             | 20.2    | 16.0 | 326             | 14.2    | 11.5 | 244            | 11.0    | 9.1  | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |
| 3.59                           | 14.00         | 50.00  | 487             | 48.4    | 40.8 | 323             | 35.3    | 31.5 | 242            | 27.6    | 25.1 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |
| 3.64                           | 5.90          | 21.20  | 481             | 16.7    | 12.6 | 319             | 11.7    | 9.1  | 239            | 9.1     | 7.2  | ...                                       | ...     | ...     | ...     | ...     | 17.0    | 19.7    |
| 3.65                           | 5.20          | 18.70  | 480             | 13.5    | 9.5  | 318             | 9.5     | 6.9  | 238            | 7.4     | 5.5  | ...                                       | ...     | ...     | 15.2    | 17.4    | 20.1    | 22.7    |
| 3.67                           | 10.30         | 37.50  | 477             | 35.5    | 29.7 | 316             | 25.0    | 21.9 | 237            | 19.4    | 17.3 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |
| 3.70                           | 4.40          | 16.00  | 473             | 9.8     | 5.9  | 314             | 6.93    | 4.4  | 235            | 5.4     | 3.56 | ...                                       | ...     | ...     | 18.6    | 20.7    | 23.3    | 25.8    |
| ARC-LENGTH CORRECTION FACTOR → |               |        |                 |         |      |                 |         |      |                |         |      | ...                                       | ...     | ...     | 0.81    | 0.83    | 0.85    | 0.87    |

**NOTE:** \* 5VX = Single and Polyband belts to 200" length  
5V = Single and Polyband belts over 200" long

\*\* Stock belt size 5VX530 not shown

**NOTE:** Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

# SELECTION



**5VX** D-V Wedge  
Single Belts to 200"  
POLYBAND to 200"

**5V** D-V Wedge  
Single Belts over 200"  
POLYBAND over 200"

## STOCK DRIVE SELECTION

| Ratio | Belt Number and Approx. Center Distance |         |         |          |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |         |         |         |         |         |         |     |
|-------|---|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----|
|       | 5VX 900                                 | 5VX 950 | 5VX 100 | 5VX 1060 | 5VX 1120 | 5VX 1180 | 5VX 1250 | 5VX 1320 | 5VX 1400 | 5VX 1500 | 5VX 1600 | 5VX 1700 | 5VX 1800 | 5VX 1900 | 5VX 2000 | 5V 2120 | 5V 2240 | 5V 2360 | 5V 2500 | 5V 2650 | 5V 2800 | 5V 3000 | 5V 3150 | 5V 3350 | 5V 3550 |     |
| 2.74  | 27.3                                    | 29.9    | 32.4    | 35.4     | 38.5     | 41.5     | 45.0     | 48.5     | 52.6     | 58       | 63       | 68       | 73       | 78       | 83       | 89      | 95      | 101     | 108     | 115     | 123     | 133     | 140     | 150     | 160     |     |
| ...   | ...                                     | ...     | ...     | ...      | 24.3     | 27.5     | 31.2     | 34.8     | 38.9     | 44       | 49       | 54       | 59       | 64       | 69       | 75      | 81      | 87      | 95      | 102     | 110     | 120     | 127     | 137     | 147     |     |
| 2.76  | 28.5                                    | 31.0    | 33.6    | 36.6     | 39.6     | 42.6     | 46.2     | 49.7     | 53.7     | 59       | 64       | 69       | 74       | 79       | 84       | 90      | 96      | 102     | 109     | 116     | 124     | 134     | 141     | 151     | 161     |     |
| 2.80  | 18.2                                    | 20.9    | 23.6    | 26.7     | 29.8     | 32.9     | 36.5     | 40.1     | 44.1     | 49       | 54       | 59       | 64       | 69       | 74       | 80      | 86      | 92      | 99      | 107     | 115     | 125     | 132     | 142     | 152     |     |
| ...   | ...                                     | ...     | ...     | ...      | ...      | ...      | 27.0     | 30.7     | 34.9     | 40       | 45       | 50       | 55       | 60       | 66       | 72      | 78      | 84      | 91      | 98      | 106     | 116     | 123     | 134     | 144     |     |
| 2.82  | 24.3                                    | 26.9    | 29.4    | 32.5     | 35.5     | 38.6     | 42.1     | 45.7     | 49.7     | 55       | 60       | 65       | 70       | 75       | 80       | 86      | 92      | 98      | 105     | 112     | 120     | 130     | 137     | 147     | 157     |     |
| 2.85  | 21.4                                    | 24.0    | 26.6    | 29.7     | 32.7     | 35.8     | 39.4     | 42.9     | 47.0     | 52       | 57       | 62       | 67       | 72       | 77       | 83      | 89      | 95      | 102     | 110     | 117     | 127     | 135     | 145     | 155     |     |
| ...   | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | 33       | 38       | 44       | 49       | 54       | 59       | 65      | 71      | 77      | 84      | 92      | 99      | 110     | 117     | 127     | 137     |     |
| 2.88  | 31.5                                    | 34.0    | 36.5    | 39.5     | 42.5     | 45.5     | 49.1     | 52.6     | 56.6     | 62       | 67       | 72       | 77       | 82       | 87       | 93      | 99      | 105     | 112     | 119     | 127     | 137     | 144     | 154     | 164     |     |
| ...   | ...                                     | ...     | ...     | ...      | 38.8     | 41.8     | 44.8     | 48.3     | 51.8     | 55.8     | 61       | 66       | 71       | 76       | 81       | 86      | 92      | 98      | 104     | 111     | 118     | 126     | 136     | 143     | 153     | 163 |
| 2.89  | ...                                     | ...     | ...     | 21.4     | 24.7     | 27.9     | 31.5     | 35.2     | 39.3     | 44       | 50       | 55       | 60       | 65       | 70       | 76      | 82      | 88      | 95      | 102     | 110     | 120     | 128     | 138     | 148     |     |
| 2.90  | 29.8                                    | 32.3    | 34.9    | 37.9     | 40.9     | 43.9     | 47.4     | 51.0     | 55.0     | 60       | 65       | 70       | 75       | 80       | 85       | 91      | 97      | 103     | 110     | 118     | 125     | 135     | 143     | 153     | 163     |     |
| 2.91  | ...                                     | ...     | ...     | ...      | ...      | ...      | 27.3     | 31.0     | 35.2     | 40       | 46       | 51       | 56       | 61       | 66       | 72      | 78      | 84      | 91      | 99      | 106     | 116     | 124     | 134     | 144     |     |
| 2.92  | 28.7                                    | 31.3    | 33.8    | 36.8     | 39.8     | 42.9     | 46.4     | 49.9     | 53.9     | 59       | 64       | 69       | 74       | 79       | 84       | 90      | 96      | 102     | 109     | 117     | 124     | 134     | 142     | 152     | 162     |     |
| 2.94  | 27.6                                    | 30.2    | 32.7    | 35.7     | 38.8     | 41.8     | 45.3     | 48.8     | 52.9     | 58       | 63       | 68       | 73       | 78       | 83       | 89      | 95      | 101     | 108     | 116     | 123     | 133     | 141     | 151     | 161     |     |
| 2.97  | 18.5                                    | 21.3    | 23.9    | 27.1     | 30.2     | 33.3     | 36.9     | 40.4     | 44.5     | 50       | 55       | 60       | 65       | 70       | 75       | 81      | 87      | 93      | 100     | 107     | 115     | 125     | 132     | 142     | 152     |     |
| 3.00  | 24.6                                    | 27.2    | 29.7    | 32.8     | 35.8     | 38.9     | 42.4     | 46.0     | 50.0     | 55       | 60       | 65       | 70       | 75       | 80       | 86      | 92      | 98      | 105     | 113     | 120     | 130     | 138     | 148     | 158     |     |
| 3.01  | 21.6                                    | 24.2    | 26.8    | 29.9     | 33.0     | 36.1     | 39.6     | 43.2     | 47.2     | 52       | 57       | 62       | 67       | 72       | 77       | 83      | 90      | 96      | 103     | 110     | 118     | 128     | 135     | 145     | 155     |     |
| 3.02  | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | ...      | 27.9     | 33       | 39       | 44       | 49       | 54       | 59       | 66      | 72      | 78      | 85      | 92      | 100     | 110     | 118     | 128     | 138     |     |
| ...   | 30.9                                    | 33.4    | 35.9    | 38.9     | 41.9     | 45.0     | 48.5     | 52.0     | 56.0     | 61       | 66       | 71       | 76       | 81       | 86       | 92      | 98      | 104     | 111     | 119     | 126     | 136     | 144     | 154     | 164     |     |
| 3.05  | 30.0                                    | 32.5    | 35.0    | 38.1     | 41.1     | 44.1     | 47.6     | 51.1     | 55.2     | 60       | 65       | 70       | 75       | 80       | 85       | 91      | 97      | 103     | 110     | 118     | 125     | 135     | 143     | 143     | 163     |     |
| ...   | ...                                     | ...     | ...     | 21.7     | 25.0     | 28.2     | 31.9     | 35.5     | 39.6     | 45       | 50       | 55       | 60       | 65       | 70       | 76      | 82      | 88      | 95      | 103     | 110     | 120     | 128     | 138     | 148     |     |
| 3.08  | ...                                     | ...     | ...     | ...      | ...      | 23.8     | 27.6     | 31.4     | 35.6     | 41       | 46       | 51       | 56       | 61       | 66       | 72      | 78      | 85      | 92      | 99      | 107     | 117     | 124     | 134     | 144     |     |
| ...   | .91                                     | .92     | .93     | .94      | .95      | .96      | .98      | .99      | 1.00     | 1.01     | 1.02     | 1.03     | 1.04     | 1.05     | 1.06     | 1.07    | 1.08    | 1.09    | 1.10    | 1.10    | 1.12    | 1.13    | 1.14    | 1.15    | 1.16    |     |
| 3.10  | 28.9                                    | 31.5    | 34.0    | 37.0     | 40.1     | 43.1     | 46.6     | 50.1     | 54.1     | 59       | 64       | 69       | 74       | 79       | 84       | 90      | 96      | 102     | 109     | 117     | 124     | 134     | 142     | 152     | 162     |     |
| 3.12  | 27.8                                    | 30.4    | 32.9    | 36.0     | 39.0     | 42.0     | 45.5     | 49.1     | 53.1     | 58       | 63       | 68       | 73       | 78       | 83       | 89      | 95      | 101     | 108     | 116     | 123     | 133     | 141     | 151     | 161     |     |
| 3.13  | ...                                     | ...     | ...     | 21.9     | 25.2     | 28.4     | 32.0     | 35.7     | 39.8     | 45       | 50       | 55       | 60       | 65       | 70       | 76      | 82      | 88      | 95      | 103     | 110     | 121     | 128     | 138     | 148     |     |
| 3.14  | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | 40       | 45      | 51      | 58      | 64      | 71      | 79      | 87      | 97      | 104     | 114     | 125 |
| 3.18  | 18.9                                    | 21.6    | 24.3    | 27.4     | 30.5     | 33.6     | 37.2     | 40.8     | 44.9     | 50       | 55       | 60       | 65       | 70       | 75       | 81      | 87      | 93      | 100     | 108     | 115     | 125     | 133     | 143     | 153     |     |
| 3.20  | 21.9                                    | 24.5    | 27.1    | 30.2     | 33.3     | 36.4     | ...      | ...      | 28.4     | 34       | 39       | 44       | 50       | 55       | 60       | 66      | 72      | 78      | 85      | 110     | 100     | 128     | 118     | 128     | 138     |     |
| ...   | ...                                     | ...     | ...     | ...      | ...      | 39.9     | 43.5     | 47.5     | 53       | 58       | 63       | 68       | 73       | 78       | 84       | 90      | 96      | 103     | 93      | 118     | 111     | 135     | 145     | 155     |         |     |
| 3.21  | 24.9                                    | 27.4    | 30.0    | 33.1     | 36.1     | 39.2     | 42.7     | 46.2     | 50.3     | 55       | 60       | 65       | 70       | 75       | 80       | 86      | 92      | 98      | 105     | 113     | 121     | 131     | 138     | 148     | 158     |     |
| 3.23  | 30.2                                    | 32.7    | 35.2    | 38.3     | 41.6     | 44.3     | 47.8     | 51.3     | 55.3     | 60       | 65       | 70       | 75       | 80       | 85       | 91      | 97      | 103     | 110     | 118     | 125     | 135     | 143     | 153     | 163     |     |
| 3.25  | ...                                     | ...     | ...     | ...      | ...      | 24.2     | 28.0     | 31.7     | 36.0     | 41       | 46       | 51       | 57       | 62       | 67       | 73      | 79      | 85      | 92      | 100     | 107     | 117     | 125     | 135     | 145     |     |
| 3.27  | 29.1                                    | 31.7    | 34.2    | 37.2     | 41.2     | 43.3     | 46.8     | 50.3     | 54.3     | 59       | 64       | 69       | 74       | 79       | 84       | 90      | 96      | 102     | 109     | 117     | 124     | 134     | 142     | 152     | 162     |     |
| 3.31  | 28.0                                    | 30.6    | 33.1    | 36.2     | 39.2     | 42.2     | 45.7     | 49.3     | 53.3     | 58       | 63       | 68       | 73       | 78       | 83       | 89      | 95      | 101     | 108     | 116     | 123     | 133     | 141     | 151     | 161     |     |
| 3.32  | ...                                     | ...     | ...     | 22.2     | 25.5     | 28.7     | 32.4     | 36.0     | 40.1     | 45       | 50       | 55       | 60       | 66       | 71       | 77      | 83      | 89      | 96      | 103     | 111     | 121     | 128     | 139     | 148     |     |
| 3.34  | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | ...      | 28.7     | 34       | 40       | 45       | 50       | 55       | 60       | 66      | 73      | 79      | 86      | 93      | 101     | 111     | 118     | 129     | 139     |     |
| 3.35  | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | 40       | 46       | 52      | 58      | 65      | 72      | 80      | 87      | 97      | 105     | 115     | 125     |     |
| 3.36  | 19.1                                    | 21.8    | 24.5    | 27.7     | 30.8     | 33.9     | 37.5     | 41.1     | 45.1     | 50       | 55       | 60       | 65       | 70       | 75       | 81      | 88      | 94      | 101     | 108     | 116     | 126     | 133     | 143     | 153     |     |
| 3.40  | 22.2                                    | 24.8    | 27.4    | 30.5     | 33.6     | 36.7     | 40.2     | 43.8     | 47.8     | 53       | 58       | 63       | 68       | 73       | 78       | 84      | 90      | 96      | 103     | 11      | 118     | 128     | 136     | 146     | 156     |     |
| 3.43  | ...                                     | ...     | ...     | ...      | ...      | 24.5     | 28.3     | 32.1     | 36.3     | 41       | 47       | 52       | 57       | 62       | 67       | 73      | 79      | 85      | 92      | 100     | 107     | 117     | 125     | 135     | 145     |     |
| 3.44  | 25.1                                    | 27.7    | 30.3    | 33.3     | 36.4     | 39.5     | 43.0     | 46.5     | 50.6     | 56       | 61       | 66       | 71       | 76       | 81       | 87      | 93      | 99      | 106     | 113     | 121     | 131     | 138     | 148     | 158     |     |
| 3.46  | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | ...      | 28.9     | 34       | 40       | 45       | 50       | 55       | 61       | 67      | 73      | 79      | 86      | 94      | 101     | 111     | 119     | 129     | 139     |     |
| ...   | .91                                     | .92     | .93     | .94      | .95      | .96      | .98      | .99      | 1.00     | 1.01     | 1.02     | 1.03     | 1.04     | 1.05     | 1.06     | 1.07    | 1.08    | 1.09    | 1.10    | 1.10    | 1.12    | 1.13    | 1.14    | 1.15    | 1.16    |     |
| 3.47  | 29.3                                    | 31.8    | 34.4    | 37.4     | 40.4     | 43.4     | 47       | 50       | 54       | 59       | 64       | 70       | 75       | 80       | 85       | 91      | 97      | 103     | 110     | ...     | 125     | ...     | 142     | ...     | 162     |     |
| 3.49  | 28.2                                    | 30.8    | 33.3    | 36.3     | 39.4     | 42.4     | 46       | 49       | 53       | 58       | 63       | 68       | 74       | 79       | 84       | 90      | 96      | 102     | 109     | ...     | 124     | ...     | 141     | ...     | 161     |     |
| ...   | ...                                     | ...     | 333     | 22.5     | 25.8     | 29.0     | 33       | 36       | 40       | 46       | 51       | 56       | 61       | 66       | 71       | 77      | 83      | 89      | 96      | ...     | 111     | ...     | 129     | ...     | 149     |     |
| 3.53  | ...                                     | ...     | 333     | ...      | ...      | 24.6     | 28       | 32       | 36       | 42       | 47       | 52       | 57       | 62       | 67       | 73      | 79      | 85      | 92      | ...     | 108     | ...     | 125     | ...     | 145     |     |
| 3.56  | 19.4                                    | 22.1    | 24.8    | 27.9     | 31.1     | 34.2     | 38       | 41       | 45       | 50       | 56       | 61       | 66       | 71       | 76       | 82      | 88      | 94      | 110     | ...     | 116     | ...     | 133     | ...     | 153     |     |
| 3.59  | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | 35       | 41       | 46       | 53      | 59      | 65      | 72      | ...     | 88      | ...     | 106     | ...     | 126     |     |
| 3.64  | 22.4                                    | 25.1    | 27.7    | 30.8     | 33.9     | 36.9     | 40       | 44       | 48       | 53       | 58       | 63       | 68       | 73       | 78       | 84      | 90      | 96      | 103     | ...     | 118     | ...     | 136     | ...     | 156     |     |
| 3.65  | 25.3                                    | 27.9    | 30.5    | 33.6     | 36.6     | 39.7     | 43       | 47       | 51       | 56       | 61       | 66       | 71       | 76       | 81       | 87      | 93      | 99      | 106     | ...     | 121     | ...     | 139     | ...     | 159     |     |
| 3.67  | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | ...      | 29       | 35       | 40       | 45       | 51       | 56       | 61       | 67      | 73      | 79      | 86      | ...     | 101     | ...     | 119     | ...     | 139     |     |
| 3.70  | 28.4                                    | 30.9    | 33.5    | 36.5     | 39.6     | 42.6     | 46       | 50       | 54       | 59       | 64       | 69       | 74       | 79       | 84       | 90      | 96      | 102     | 109     | ...     | 124     | ...     | 141     | ...     | 161     |     |
| ...   | .91                                     | .92     | .93     | .94      | .95      | .96      | .98      | .99      | 1.00     | 1.01     | 1.02     | 1.03     | 1.04     | 1.05     | 1.06     | 1.07    | 1.08    | 1.09    | 1.10    | 1.10    | 1.12    | 1.13    | 1.14    | 1.15    | 1.16    |     |

NOTES: \*\* Stock belt size 5V2650 & 5V3350 not shown  
Arc & Length Factors are approximate values  
Refer to Selection Procedure for more precise values

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

</

# SELECTION



**5VX** D-V Wedge  
Single Belts to 200"  
POLYBAND to 200"

**5V** D-V Wedge  
Single Belts over 200"  
POLYBAND over 200"

## STOCK DRIVE SELECTION

| Ratio                                 | Stock Sheaves |        | 1750 RPM Driver |         |      | 1160 RPM Driver |         |      | 870 RPM Driver |         |      | Belt Number and Approx. Center Distance** |         |         |         |         |         |         |      |
|---------------------------------------|---------------|--------|-----------------|---------|------|-----------------|---------|------|----------------|---------|------|---|---------|---------|---------|---------|---------|---------|------|
|                                       | Diameter      |        | Driven RPM      | HP/Belt |      | Driven RPM      | HP/Belt |      | Driven RPM     | HP/Belt |      | 5VX 600                                   | 5VX 630 | 5VX 670 | 5VX 710 | 5VX 750 | 5VX 800 | 5VX 850 |      |
|                                       | Driver        | Driven |                 | 5VX     | 5VX  |                 | 5VX     | 5VX  |                | 5VX     | 5VX  |   |         |         |         |         |         |         |      |
| <b>ARC-LENGTH CORRECTION FACTOR →</b> |               |        |                 |         |      |                 |         |      |                |         |      |   |         |         |         |         |         |         |      |
| <b>3.74</b>                           | 8.50          | 31.50  | 468             | 27.9    | 23.2 | 310             | 19.7    | 16.9 | 233            | 15.3    | 13.2 | ...                                       | ...     | ...     | 0.81    | 0.83    | 0.85    | 0.87    |      |
| <b>3.77</b>                           | 7.50          | 28.00  | 464             | 23.7    | 19.2 | 308             | 16.7    | 13.9 | 231            | 12.9    | 11.0 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |      |
| <b>3.79</b>                           | 6.30          | 23.60  | 462             | 18.4    | 14.3 | 306             | 13.0    | 10.3 | 230            | 10.1    | 8.1  | ...                                       | ...     | ...     | ...     | ...     | ...     | 16.8    |      |
| <b>3.81</b>                           | 13.20         | 50.00  | 459             | 45.8    | 38.7 | 305             | 33.1    | 29.5 | 228            | 25.9    | 23.5 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |      |
| <b>3.87</b>                           | 4.90          | 18.70  | 452             | 12.1    | 8.2  | 299             | 8.5     | 6.0  | 225            | 6.6     | 4.8  | ...                                       | ...     | ...     | 15.4    | 1.76    | 20.3    | 22.9    |      |
| <b>3.88</b>                           | 9.75          | 37.50  | 452             | 33.0    | 27.8 | 299             | 23.4    | 20.4 | 224            | 18.2    | 16.1 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |      |
| <b>3.91</b>                           | 5.50          | 21.20  | 448             | 14.9    | 10.8 | 297             | 10.4    | 7.9  | 223            | 8.1     | 6.2  | ...                                       | ...     | ...     | ...     | ...     | 1.73    | 20.0    |      |
| <b>3.97</b>                           | 8.00          | 31.50  | 440             | 25.8    | 21.2 | 292             | 18.2    | 15.4 | 219            | 14.1    | 12.1 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |      |
| <b>3.99</b>                           | 7.10          | 28.00  | 439             | 22.0    | 17.6 | 291             | 15.4    | 12.8 | 218            | 12.0    | 10.0 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |      |
| <b>4.02</b>                           | 12.50         | 50.00  | 435             | 43.3    | 36.7 | 288             | 31.2    | 27.8 | 216            | 24.4    | 22.0 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |      |
| <b>ARC-LENGTH CORRECTION FACTOR →</b> |               |        |                 |         |      |                 |         |      |                |         |      |   |         |         |         |         |         |         |      |
| <b>4.05</b>                           | 5.90          | 23.60  | 432             | 16.7    | 12.6 | 286             | 11.7    | 9.1  | 215            | 9.1     | 7.2  | ...                                       | ...     | ...     | ...     | ...     | ...     | 17.0    |      |
| <b>4.09</b>                           | 4.65          | 18.70  | 428             | 10.9    | 7.1  | 284             | 7.7     | 5.2  | 213            | 6.0     | 4.2  | ...                                       | ...     | ...     | 15.6    | 17.8    | 20.5    | 23.1    |      |
|                                       | 9.25          | 37.50  | 428             | 31.0    | 26.0 | 284             | 21.9    | 19.0 | 213            | 17.0    | 14.9 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |      |
| <b>4.14</b>                           | 5.20          | 21.20  | 423             | 13.5    | 9.5  | 280             | 9.5     | 7.0  | 210            | 7.4     | 5.5  | ...                                       | ...     | ...     | ...     | ...     | 17.4    | 20.2    |      |
| <b>4.20</b>                           | 9.00          | 37.50  | 416             | 30.0    | 25.1 | 276             | 21.2    | 18.3 | 207            | 16.4    | 14.4 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |      |
| <b>4.23</b>                           | 6.70          | 28.00  | 414             | 20.2    | 16.0 | 274             | 14.2    | 11.6 | 206            | 11.0    | 9.1  | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |      |
| <b>4.24</b>                           | 7.50          | 31.50  | 412             | 23.7    | 19.2 | 273             | 16.7    | 13.9 | 205            | 12.9    | 11.0 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |      |
| <b>4.26</b>                           | 11.80         | 50.00  | 410             | 40.8    | 34.6 | 272             | 29.3    | 26.0 | 204            | 22.8    | 20.5 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |      |
| <b>4.33</b>                           | 4.40          | 18.70  | 405             | 9.8     | 5.9  | 201             | 6.9     | 4.4  | 201            | 5.4     | 3.6  | ...                                       | ...     | ...     | 15.7    | 17.9    | 20.6    | 23.3    |      |
| <b>4.35</b>                           | 5.50          | 23.60  | 402             | 14.9    | 10.8 | 267             | 10.4    | 7.9  | 200            | 8.1     | 6.2  | ...                                       | ...     | ...     | ...     | ...     | ...     | 17.3    |      |
| <b>ARC-LENGTH CORRECTION FACTOR →</b> |               |        |                 |         |      |                 |         |      |                |         |      |   |         |         |         |         |         |         |      |
| <b>4.40</b>                           | 4.90          | 21.20  | 398             | 12.1    | 8.2  | 264             | 8.5     | 6.0  | 198            | 6.6     | 4.8  | ...                                       | ...     | ...     | ...     | 14.8    | 17.6    | 20.4    |      |
| <b>4.45</b>                           | 8.50          | 37.50  | 393             | 27.9    | 23.2 | 261             | 19.7    | 16.9 | 196            | 15.3    | 13.2 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |      |
| <b>4.46</b>                           | 11.30         | 50.00  | 393             | 39.0    | 33.1 | 260             | 27.9    | 24.6 | 195            | 21.7    | 19.5 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |      |
| <b>4.49</b>                           | 7.10          | 31.50  | 390             | 22.0    | 17.6 | 259             | 15.4    | 12.8 | 194            | 12.0    | 10.0 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |      |
| <b>4.50</b>                           | 6.30          | 28.00  | 389             | 18.4    | 14.3 | 258             | 13.0    | 10.3 | 193            | 10.1    | 8.1  | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |      |
| <b>4.61</b>                           | 5.20          | 23.60  | 380             | 13.5    | 9.5  | 252             | 9.6     | 7.0  | 189            | 7.4     | 5.5  | ...                                       | ...     | ...     | ...     | ...     | ...     | 17.5    |      |
| <b>4.62</b>                           | 10.90         | 50.00  | 379             | 37.5    | 31.8 | 251             | 26.7    | 23.6 | 188            | 20.8    | 18.6 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |      |
| <b>4.64</b>                           | 4.65          | 21.20  | 377             | 11.0    | 7.1  | 250             | 7.7     | 5.2  | 188            | 6.0     | 4.2  | ...                                       | ...     | ...     | ...     | 14.9    | 17.8    | 20.5    |      |
| <b>4.73</b>                           | 8.00          | 37.50  | 370             | 25.8    | 21.2 | 245             | 18.2    | 15.4 | 184            | 14.1    | 12.1 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |      |
| <b>4.76</b>                           | 6.70          | 31.50  | 368             | 20.2    | 16.0 | 244             | 14.2    | 11.6 | 183            | 11.0    | 9.1  | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |      |
| <b>ARC-LENGTH CORRECTION FACTOR →</b> |               |        |                 |         |      |                 |         |      |                |         |      |   |         |         |         |         |         |         |      |
| <b>4.81</b>                           | 5.90          | 28.0   | 364             | 16.7    | 12.6 | 241             | 11.7    | 9.1  | 181            | 9.1     | 7.2  | ...                                       | ...     | ...     | ...     | 0.73    | 0.76    | 0.78    | 0.80 |
| <b>4.89</b>                           | 10.30         | 50.0   | 358             | 35.2    | 29.7 | 237             | 25.0    | 21.9 | 178            | 19.4    | 17.3 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     | ...  |
| <b>4.90</b>                           | 4.90          | 23.60  | 357             | 12.1    | 8.2  | 237             | 8.5     | 6.0  | 178            | 6.7     | 4.8  | ...                                       | ...     | ...     | ...     | ...     | ...     | 1.77    |      |
| <b>4.91</b>                           | 4.40          | 21.20  | 357             | 9.8     | 5.9  | 236             | 6.9     | 4.4  | 177            | 5.4     | 3.6  | ...                                       | ...     | ...     | ...     | 15.1    | 17.9    | 20.7    |      |
| <b>5.05</b>                           | 7.50          | 37.50  | 346             | 23.7    | 19.2 | 230             | 16.7    | 13.9 | 172            | 12.9    | 11.0 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |      |
| <b>5.06</b>                           | 6.30          | 31.50  | 346             | 18.5    | 14.3 | 229             | 13.0    | 10.3 | 172            | 10.0    | 8.1  | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |      |
| <b>5.16</b>                           | 4.65          | 23.60  | 339             | 11.0    | 7.1  | 225             | 7.74    | 5.2  | 169            | 6.0     | 4.2  | ...                                       | ...     | ...     | ...     | ...     | ...     | 17.8    |      |
| <b>5.17</b>                           | 5.50          | 28.00  | 339             | 14.5    | 10.8 | 225             | 10.4    | 7.9  | 168            | 8.1     | 6.2  | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |      |
|                                       | 9.75          | 50.00  | 338             | 33.0    | 27.8 | 224             | 23.4    | 20.4 | 168            | 18.2    | 16.1 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |      |
| <b>5.34</b>                           | 7.10          | 37.50  | 328             | 22.0    | 17.6 | 217             | 15.4    | 12.8 | 163            | 12.0    | 10.0 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |      |
| <b>5.41</b>                           | 5.90          | 31.5   | 323             | 16.7    | 12.5 | 214             | 11.7    | 9.1  | 161            | 9.1     | 7.2  | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |      |
| <b>5.45</b>                           | 9.25          | 50.00  | 321             | 31.0    | 26.0 | 213             | 21.9    | 19.0 | 160            | 17.0    | 15.0 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |      |
| <b>5.47</b>                           | 4.40          | 23.60  | 320             | 9.8     | 5.9  | 212             | 6.9     | 4.4  | 159            | 5.4     | 3.6  | ...                                       | ...     | ...     | ...     | ...     | ...     | 18.0    |      |
|                                       | 5.20          | 28.00  | 320             | 13.5    | 9.5  | 212             | 9.5     | 7.0  | 159            | 7.4     | 5.5  | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |      |
| <b>5.61</b>                           | 9.00          | 50.00  | 312             | 29.8    | 25.1 | 207             | 21.2    | 18.3 | 155            | 16.4    | 14.4 | ...                                       | ...     | ...     | ...     | ...     | ...     | ...     |      |
| <b>ARC-LENGTH CORRECTION FACTOR →</b> |               |        |                 |         |      |                 |         |      |                |         |      |   |         |         |         |         |         |         |      |
|                                       |               |        |                 |         |      |                 |         |      |                |         |      | ...                                       | .80     | .83     | .85     | .87     | .89     | .93     |      |

**NOTE:** \* 5VX = Single and Polyband belts to 200" length  
5V = Single and Polyband belts over 200" long

\*\* Stock belt size 5VX530 not shown

**NOTE:** Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets



# SELECTION



**5VX** D-V Wedge  
Single Belts to 200"  
POLYBAND to 200"

**5V** D-V Wedge  
Single Belts over 200"  
POLYBAND over 200"

## STOCK DRIVE SELECTION

| Ratio | Belt Number and Approx. Center Distance |         |         |          |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |         |         |         |         |         |         |     |
|-------|---|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----|
|       | 5VX 900                                 | 5VX 950 | 5VX 100 | 5VX 1060 | 5VX 1120 | 5VX 1180 | 5VX 1250 | 5VX 1320 | 5VX 1400 | 5VX 1500 | 5VX 1600 | 5VX 1700 | 5VX 1800 | 5VX 1900 | 5VX 2000 | 5V 2120 | 5V 2240 | 5V 2360 | 5V 2500 | 5V 2650 | 5V 2800 | 5V 3000 | 5V 3150 | 5V 3350 | 5V 3550 |     |
|       | .88                                     | .90     | .92     | .93      | .94      | .95      | .97      | .96      | .99      | 1.00     | 1.01     | 1.03     | 1.04     | 1.05     | 1.06     | 1.07    | 1.08    | 1.09    | 1.10    | 1.10    | 1.12    | 1.13    | 1.14    | 1.15    |         |     |
| 3.74  | ...                                     | ...     | ...     | ...      | ...      | ...      | 28.8     | 32.6     | 36.8     | 42       | 47       | 52       | 57       | 63       | 68       | 74      | 80      | 86      | 93      | 100     | 108     | 118     | 126     | 136     | 146     |     |
| 3.77  | ...                                     | ...     | 19.4    | 22.8     | 26.1     | 29.3     | 33.0     | 36.7     | 40.8     | 46       | 51       | 56       | 61       | 66       | 71       | 77      | 83      | 89      | 97      | 104     | 112     | 122     | 129     | 139     | 149     |     |
| 3.79  | 19.6                                    | 22.4    | 25.0    | 28.2     | 31.3     | 34.4     | 38.0     | 41.6     | 45.7     | 51       | 56       | 61       | 66       | 71       | 76       | 82      | 88      | 91      | 101     | 109     | 116     | 126     | 134     | 144     | 154     |     |
| 3.81  | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | 36       | 41       | 47       | 53      | 59      | 66      | 73      | 81      | 88      | 99      | 106     | 116     | 126     |     |
| 3.87  | 25.5                                    | 28.1    | 30.7    | 33.8     | 36.8     | 39.9     | 43.4     | 47.0     | 51.0     | 56       | 61       | 66       | 71       | 76       | 81       | 87      | 93      | 99      | 106     | 114     | 121     | 131     | 139     | 149     | 159     |     |
| 3.88  | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | ...      | 30       | 35       | 40       | 46       | 51       | 56       | 61       | 67      | 74      | 80      | 87      | 94      | 102     | 112     | 120     | 130     | 140     |     |
| 3.91  | 22.7                                    | 25.3    | 27.9    | 31.0     | 34.1     | 37.2     | 40.8     | 44.3     | 48.4     | 53       | 58       | 63       | 69       | 74       | 79       | 85      | 91      | 97      | 104     | 111     | 119     | 129     | 136     | 146     | 156     |     |
| 3.97  | ...                                     | ...     | ...     | ...      | 21.8     | 25.3     | 29.1     | 32.9     | 37.1     | 42       | 47       | 53       | 58       | 63       | 68       | 74      | 80      | 86      | 93      | 101     | 108     | 118     | 126     | 136     | 146     |     |
| 3.99  | ...                                     | ...     | 19.7    | 23.1     | 26.4     | 29.6     | 33.3     | 37.0     | 41.1     | 46       | 51       | 56       | 61       | 67       | 72       | 78      | 84      | 90      | 97      | 104     | 112     | 122     | 129     | 150     | 150     |     |
| 4.02  | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | 36       | 42       | 47       | 54      | 60      | 66      | 73      | 81      | 89      | 99      | 10      | 117     | 127     |     |
|       | .85                                     | .87     | .88     | .90      | .92      | .93      | .95      | .96      | .97      | .99      | 1.00     | 1.01     | 1.03     | 1.04     | 1.05     | 1.06    | 1.07    | 1.08    | 1.09    | 1.10    | 1.11    | 1.12    | 1.13    | 1.14    | 1.15    |     |
| 4.05  | 19.9                                    | 22.6    | 25.3    | 28.5     | 31.6     | 34.7     | 38.3     | 41.9     | 46.0     | 51       | 56       | 61       | 66       | 71       | 76       | 82      | 88      | 94      | 101     | 109     | 116     | 127     | 134     | 144     | 154     |     |
| 4.09  | 25.7                                    | 28.3    | 30.9    | 33.9     | 37.0     | 40.0     | 43.6     | 47.1     | 51.2     | 56       | 61       | 66       | 71       | 76       | 81       | 87      | 93      | 99      | 106     | 114     | 121     | 131     | 139     | 149     | 159     |     |
|       | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | ...      | 30.0     | 35       | 41       | 46       | 51       | 56       | 62       | 68      | 74      | 80      | 87      | 95      | 102     | 112     | 120     | 130     | 140     |     |
| 4.14  | 22.9                                    | 25.5    | 28.1    | 31.3     | 34.3     | 37.4     | 41.0     | 44.6     | 49       | 54       | 59       | 64       | 69       | 74       | 79       | 85      | 91      | 97      | 104     | 111     | 119     | 129     | 136     | 147     | 157     |     |
| 4.20  | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | 25.5     | 30       | 36       | 41       | 46       | 51       | 57       | 62       | 68      | 74      | 80      | 87      | 95      | 102     | 113     | 120     | 130     | 140     |     |
| 4.23  | ...                                     | ...     | 19.9    | 23.3     | 26.6     | 29.9     | 33.6     | 37.2     | 41       | 46       | 52       | 57       | 62       | 67       | 72       | 78      | 84      | 90      | 97      | 105     | 112     | 122     | 130     | 140     | 150     |     |
| 4.24  | ...                                     | ...     | ...     | ...      | 22.1     | 25.6     | 29.4     | 33.2     | 37       | 43       | 48       | 53       | 58       | 63       | 68       | 74      | 80      | 86      | 94      | 101     | 109     | 119     | 126     | 136     | 146     |     |
| 4.26  | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | 36       | 42       | 48       | 54      | 60      | 67      | 74      | 82      | 89      | 100     | 107     | 117     | 127     |     |
| 4.33  | 25.9                                    | 28.5    | 31.0    | 34.1     | 37.2     | 40.2     | 43.8     | 47.3     | 51.4     | 56       | 61       | 66       | 72       | 77       | 81       | 88      | 94      | 100     | 107     | 114     | 122     | 132     | 139     | 149     | 159     |     |
| 4.35  | 20.1                                    | 22.9    | 25.6    | 28.7     | 31.9     | 35.0     | 38.6     | 42.2     | 46.3     | 51       | 56       | 61       | 67       | 72       | 77       | 83      | 89      | 95      | 102     | 109     | 117     | 127     | 134     | 144     | 154     |     |
|       | 0.87                                    | 0.89    | 0.91    | 0.92     | 0.93     | 0.94     | .95      | .97      | .98      | .99      | 1.01     | 1.02     | 1.03     | 1.04     | 1.05     | 1.06    | 1.07    | 1.08    | 1.09    | 1.10    | 1.11    | 1.12    | 1.13    | 1.14    | 1.15    |     |
| 4.40  | 23.1                                    | 25.7    | 28.3    | 31.5     | 34.6     | 37.6     | 41.2     | 44.8     | 48.8     | 54       | 59       | 64       | 69       | 74       | 79       | 85      | 91      | 97      | 104     | 112     | 119     | 129     | 137     | 147     | 157     |     |
| 4.45  | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | 25.8     | 30.4     | 36       | 41       | 47       | 52       | 57       | 62       | 68      | 74      | 81      | 88      | 95      | 103     | 113     | 120     | 131     | 141     |     |
| 4.46  | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | 37       | 42       | 48       | 54      | 61      | 67      | 74      | 82      | 90      | 100     | 108     | 118     | 128     |     |
| 4.49  | ...                                     | ...     | ...     | ...      | 22.4     | 25.8     | 29.7     | 33.5     | 37.7     | 43       | 48       | 53       | 58       | 63       | 69       | 75      | 81      | 87      | 94      | 101     | 109     | 119     | 127     | 137     | 147     |     |
| 4.50  | ...                                     | ...     | 20.2    | 23.6     | 26.9     | 30.1     | 33.8     | 37.5     | 41.7     | 47       | 52       | 57       | 62       | 67       | 72       | 78      | 84      | 90      | 97      | 105     | 113     | 123     | 130     | 140     | 150     |     |
| 4.61  | 20.3                                    | 23.1    | 25.7    | 28.9     | 32.1     | 35.2     | 38.8     | 42.4     | 46.5     | 52       | 57       | 62       | 67       | 72       | 77       | 83      | 89      | 95      | 102     | 110     | 117     | 127     | 135     | 145     | 155     |     |
| 4.62  | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | 37       | 43       | 48       | 55      | 61      | 67      | 75      | 82      | 90      | 100     | 108     | 118     | 128     |     |
| 4.64  | 23.2                                    | 25.9    | 28.5    | 31.6     | 34.7     | 37.8     | 41.4     | 44.9     | 49.0     | 54       | 59       | 64       | 69       | 74       | 79       | 85      | 91      | 97      | 104     | 112     | 119     | 129     | 137     | 147     | 157     |     |
| 4.73  | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | 26.1     | 30.7     | 36       | 42       | 47       | 52       | 57       | 62       | 69      | 75      | 81      | 88      | 93      | 103     | 113     | 121     | 131     | 141     |     |
| 4.76  | ...                                     | ...     | ...     | ...      | 22.6     | 26.1     | 29.9     | 33.7     | 38.0     | 43       | 48       | 54       | 59       | 64       | 69       | 75      | 81      | 87      | 94      | 102     | 109     | 119     | 127     | 137     | 147     |     |
|       | 0.83                                    | 0.84    | 0.85    | 0.86     | 0.87     | 0.88     | 0.89     | 0.91     | 0.93     | 0.96     | 0.97     | 0.98     | 1.00     | 1.01     | 1.02     | 1.036   | 1.04    | 1.06    | 1.07    | 1.08    | 1.09    | 1.10    | 1.12    | 1.13    | 1.14    |     |
| 4.81  | ...                                     | ...     | 20.4    | 23.8     | 27.1     | 30.4     | 34.1     | 37.8     | 41.9     | 47       | 52       | 57       | 62       | 67       | 73       | 79      | 85      | 91      | 98      | 105     | 113     | 123     | 130     | 140     | 150     |     |
| 4.89  | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | 37       | 43       | 49       | 55      | 61      | 68      | 75      | 83      | 90      | 101     | 108     | 119     | 129     |     |
| 4.90  | 20.5                                    | 23.2    | 25.9    | 29.1     | 32.3     | 35.4     | 39.0     | 42.6     | 46.7     | 52       | 57       | 62       | 67       | 72       | 77       | 83      | 89      | 95      | 102     | 110     | 117     | 127     | 135     | 145     | 155     |     |
| 4.91  | 23.4                                    | 26.0    | 28.7    | 31.8     | 34.9     | 38.0     | 41.6     | 45.1     | 49.2     | 54       | 59       | 64       | 69       | 74       | 79       | 85      | 91      | 97      | 105     | 112     | 120     | 130     | 137     | 147     | 157     |     |
| 5.05  | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | 26.4     | 31.0     | 37       | 42       | 47       | 52       | 58       | 63       | 69      | 75      | 81      | 88      | 96      | 104     | 114     | 121     | 131     | 141     |     |
| 5.06  | ...                                     | ...     | ...     | ...      | 22.9     | 26.3     | 30.2     | 34.0     | 38.3     | 44       | 49       | 54       | 59       | 64       | 69       | 75      | 81      | 87      | 94      | 102     | 110     | 120     | 127     | 137     | 147     |     |
| 5.16  | 20.6                                    | 23.4    | 26.1    | 29.3     | 32.4     | 35.5     | 39.2     | 42.8     | 46.9     | 52       | 57       | 62       | 67       | 72       | 77       | 83      | 89      | 95      | 102     | 110     | 117     | 127     | 135     | 145     | 155     |     |
| 5.17  | ...                                     | ...     | 20.6    | 24.1     | 27.4     | 30.6     | 34.4     | 38.0     | 42.2     | 47       | 52       | 58       | 63       | 68       | 73       | 79      | 85      | 91      | 98      | 106     | 113     | 123     | 134     | 141     | 151     |     |
|       | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | 38       | 43       | 49       | 55      | 62      | 68      | 75      | 83      | 91      | 101     | 109     | 119     | 129     |     |
| 5.34  | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | 26.6     | 31.3     | 37       | 42       | 47       | 53       | 58       | 63       | 69      | 75      | 82      | 89      | 96      | 104     | 114     | 121     | 132     | 142     |     |
| 5.41  | ...                                     | ...     | ...     | ...      | 23.1     | 26.6     | 30.5     | 34.2     | 38.5     | 44       | 49       | 54       | 59       | 64       | 69       | 76      | 82      | 88      | 95      | 102     | 110     | 120     | 127     | 138     | 148     |     |
| 5.45  | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | 38       | 44       | 49       | 56      | 62      | 68      | 76      | 84      | 91      | 101     | 109     | 119     | 129     |     |
| 5.47  | 20.8                                    | 23.6    | 26.3    | 29.5     | 32.6     | 35.7     | 39.3     | 42.9     | 47.0     | 52       | 57       | 62       | 67       | 72       | 77       | 83      | 90      | 96      | 103     | 110     | 118     | 128     | 135     | 145     | 155     |     |
|       | ...                                     | ...     | 20.8    | 24.3     | 27.6     | 30.8     | 34.5     | 38.2     | 42.4     | 48       | 53       | 58       | 63       | 68       | 73       | 79      | 85      | 91      | 98      | 106     | 113     | 123     | 131     | 141     | 151     |     |
| 5.61  | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | ...      | 32       | 38       | 44       | 49      | 56      | 62      | 69      | 76      | 84      | 91      | 102     | 109     | 119     | 130 |
|       | 0.80                                    | 0.83    | 0.84    | 0.85     |          |          | .93      | .94      | .96      | .98      | .99      | 1.00     | 1.02     | 1.03     | 1.04     | 1.05    | 1.06    | 1.07    | 1.08    | 1.06    | 1.11    | 1.09    | 1.13    | 1.12    | 1.15    |     |

**NOTES:** \*\* Stock belt size 5V2650 & 5V3350 not shown  
Arc & Length Factors are approximate values  
Refer to Selection Procedure for more precise values

**NOTE:** Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets



# SELECTION

## STOCK DRIVE SELECTION

**5VX** D-V Wedge  
Single Belts to 200"  
POLYBAND to 200"

**5V** D-V Wedge  
Single Belts over 200"  
POLYBAND over 200"

| Ratio                                 | Stock Sheaves |        | 1750 RPM Driver |         | 1160 RPM Driver |            | 870 RPM Driver |      | Belt Number and Approx. Center Distance** |         |      |         |         |         |         |         |         |         |     |
|---------------------------------------|---------------|--------|-----------------|---------|-----------------|------------|----------------|------|---|---------|------|---------|---------|---------|---------|---------|---------|---------|-----|
|                                       | Diameter      |        | Driven RPM      | HP/Belt |                 | Driven RPM | HP/Belt        |      | Driven RPM                                | HP/Belt |      | 5VX 600 | 5VX 630 | 5VX 670 | 5VX 710 | 5VX 750 | 5VX 800 | 5VX 850 |     |
|                                       | Driver        | Driven |                 | 5VX     | 5VX             |            | 5VX            | 5VX  |   | 5VX     | 5VX  |         |         |         |         |         |         |         |     |
| <b>5.67</b>                           | 6.70          | 37.50  | 309             | 20.2    | 16.0            | 205        | 14.2           | 11.6 | 153                                       | 11.0    | 9.1  | ...     | ...     | ...     | ...     | ...     | ...     | ...     |     |
| <b>5.81</b>                           | 4.90          | 28.00  | 301             | 12.1    | 8.2             | 200        | 8.5            | 6.0  | 150                                       | 6.7     | 4.8  | ...     | ...     | ...     | ...     | ...     | ...     | ...     |     |
|                                       | 5.50          | 31.50  | 301             | 14.9    | 10.8            | 199        | 10.5           | 7.9  | 150                                       | 8.1     | 6.2  | ...     | ...     | ...     | ...     | ...     | ...     | ...     |     |
| <b>5.94</b>                           | 8.50          | 50.00  | 295             | 27.9    | 23.2            | 195        | 19.7           | 16.9 | 146                                       | 15.3    | 13.3 | ...     | ...     | ...     | ...     | ...     | ...     | ...     |     |
| <b>6.03</b>                           | 6.30          | 37.50  | 290             | 18.5    | 14.3            | 192        | 13.0           | 10.3 | 144                                       | 10.1    | 8.1  | ...     | ...     | ...     | ...     | ...     | ...     | ...     |     |
| <b>6.13</b>                           | 4.65          | 28.00  | 285             | 11.0    | 7.1             | 189        | 7.7            | 5.2  | 142                                       | 6.0     | 4.2  | ...     | ...     | ...     | ...     | ...     | ...     | ...     |     |
| <b>6.16</b>                           | 5.20          | 31.50  | 284             | 13.5    | 9.5             | 188        | 9.5            | 7.0  | 141                                       | 7.4     | 5.5  | ...     | ...     | ...     | ...     | ...     | ...     | ...     |     |
| <b>6.32</b>                           | 8.00          | 50.00  | 277             | 25.8    | 21.2            | 184        | 18.2           | 15.4 | 138                                       | 14.1    | 12.1 | ...     | ...     | ...     | ...     | ...     | ...     | ...     |     |
| <b>6.45</b>                           | 5.90          | 37.50  | 271             | 16.7    | 12.6            | 180        | 11.7           | 9.1  | 135                                       | 9.1     | 7.2  | ...     | ...     | ...     | ...     | ...     | ...     | ...     |     |
| <b>6.49</b>                           | 4.40          | 28.00  | 270             | 9.8     | 5.9             | 179        | 6.9            | 4.4  | 134                                       | 5.4     | 3.6  | ...     | ...     | ...     | ...     | ...     | ...     | ...     |     |
| <b>6.54</b>                           | 4.90          | 31.50  | 268             | 12.1    | 8.2             | 177        | 8.5            | 6.0  | 133                                       | 6.7     | 4.8  | ...     | ...     | ...     | ...     | ...     | ...     | ...     |     |
| <b>6.74</b>                           | 7.50          | 50.00  | 260             | 23.7    | 19.3            | 172        | 16.7           | 14.0 | 129                                       | 12.9    | 11.0 | ...     | ...     | ...     | ...     | ...     | ...     | ...     |     |
| <b>6.90</b>                           | 4.65          | 31.50  | 254             | 11.0    | 7.1             | 168        | 7.7            | 5.2  | 126                                       | 6.0     | 4.2  | ...     | ...     | ...     | ...     | ...     | ...     | ...     |     |
| <b>6.93</b>                           | 5.50          | 37.50  | 253             | 14.9    | 10.7            | 167        | 10.5           | 7.9  | 126                                       | 8.1     | 6.2  | ...     | ...     | ...     | ...     | ...     | ...     | ...     |     |
| <b>7.13</b>                           | 7.10          | 50.00  | 245             | 22.0    | 17.6            | 163        | 15.4           | 12.8 | 122                                       | 12.0    | 10.0 | ...     | ...     | ...     | ...     | ...     | ...     | ...     |     |
| <b>ARC-LENGTH CORRECTION FACTOR →</b> |               |        |                 |         |                 |            |                |      |   |         |      | ...     | ...     | ...     | ...     | ...     | ...     | ...     | ... |
| <b>7.30</b>                           | 4.40          | 31.50  | 240             | 9.8     | 5.9             | 159        | 6.9            | 4.4  | 119                                       | 5.4     | 3.6  | ...     | ...     | ...     | ...     | ...     | ...     | ...     |     |
| <b>7.33</b>                           | 5.20          | 37.50  | 239             | 13.5    | 9.5             | 158        | 9.5            | 7.0  | 119                                       | 7.4     | 5.5  | ...     | ...     | ...     | ...     | ...     | ...     | ...     |     |
| <b>7.56</b>                           | 6.70          | 50.00  | 231             | 20.2    | 16.0            | 153        | 14.2           | 11.6 | 115                                       | 11.0    | 9.1  | ...     | ...     | ...     | ...     | ...     | ...     | ...     |     |
| <b>7.79</b>                           | 4.90          | 37.50  | 225             | 12.1    | 8.2             | 149        | 8.5            | 6.0  | 112                                       | 6.7     | 4.8  | ...     | ...     | ...     | ...     | ...     | ...     | ...     |     |
| <b>8.05</b>                           | 6.30          | 50.00  | 217             | 18.5    | 14.3            | 144        | 13.0           | 10.4 | 108                                       | 10.1    | 8.2  | ...     | ...     | ...     | ...     | ...     | ...     | ...     |     |
| <b>ARC-LENGTH CORRECTION FACTOR →</b> |               |        |                 |         |                 |            |                |      |   |         |      | ...     | ...     | ...     | ...     | ...     | ...     | ...     | ... |
| <b>8.22</b>                           | 4.65          | 37.50  | 213             | 11.0    | 7.1             | 141        | 7.7            | 5.2  | 106                                       | 6.0     | 4.2  | ...     | ...     | ...     | ...     | ...     | ...     | ...     |     |
| <b>8.60</b>                           | 5.90          | 50.00  | 203             | 16.7    | 12.6            | 135        | 11.7           | 9.1  | 101                                       | 9.1     | 7.2  | ...     | ...     | ...     | ...     | ...     | ...     | ...     |     |
| <b>8.70</b>                           | 4.40          | 37.50  | 201             | 9.8     | 5.9             | 133        | 6.9            | 4.4  | 100                                       | 5.4     | 3.6  | ...     | ...     | ...     | ...     | ...     | ...     | ...     |     |
| <b>9.24</b>                           | 5.50          | 50.00  | 189             | 14.9    | 10.9            | 126        | 10.5           | 7.9  | 94  | 8.1     | 6.2  | ...     | ...     | ...     | ...     | ...     | ...     | ...     |     |
| <b>9.78</b>                           | 5.20          | 50.00  | 179             | 13.5    | 9.5             | 119        | 9.5            | 7.0  | 89  | 7.4     | 5.5  | ...     | ...     | ...     | ...     | ...     | ...     | ...     |     |
| <b>10.40</b>                          | 4.90          | 50.00  | 168             | 12.1    | 8.2             | 112        | 8.5            | 6.0  | 84  | 6.7     | 4.8  | ...     | ...     | ...     | ...     | ...     | ...     | ...     |     |
| <b>10.97</b>                          | 4.65          | 50.00  | 160             | 11.0    | 7.1             | 106        | 7.7            | 5.2  | 79  | 6.0     | 4.2  | ...     | ...     | ...     | ...     | ...     | ...     | ...     |     |
| <b>11.60</b>                          | 4.40          | 50.00  | 151             | 9.8     | 5.9             | 100        | 6.9            | 4.4  | 75  | 5.4     | 3.6  | ...     | ...     | ...     | ...     | ...     | ...     | ...     |     |
| <b>ARC-LENGTH CORRECTION FACTOR →</b> |               |        |                 |         |                 |            |                |      |   |         |      | ...     | ...     | ...     | ...     | ...     | ...     | ...     | ... |

**NOTE:** \* 5VX = Single and Polyband belts to 200" length  
5V = Single and Polyband belts over 200" long

\*\* Stock belt size 5VX530 not shown

**NOTE:** Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets



# SELECTION



**5VX** D-V Wedge  
Single Belts to 200"  
POLYBAND to 200"

**5V** D-V Wedge  
Single Belts over 200"  
POLYBAND over 200"

## STOCK DRIVE SELECTION

| Ratio | Belt Number and Approx. Center Distance |         |         |          |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |         |         |         |         |         |         |  |  |  |
|-------|---|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|--|
|       | 5VX 900                                 | 5VX 950 | 5VX 100 | 5VX 1060 | 5VX 1120 | 5VX 1180 | 5VX 1250 | 5VX 1320 | 5VX 1400 | 5VX 1500 | 5VX 1600 | 5VX 1700 | 5VX 1800 | 5VX 1900 | 5VX 2000 | 5V 2120 | 5V 2240 | 5V 2360 | 5V 2500 | 5V 2650 | 5V 2800 | 5V 3000 | 5V 3150 | 5V 3350 | 5V 3550 |  |  |  |
| 5.67  | ...                                     | ...     | ...     | ...      | ...      | ...      | 26.9     | 31.5     | 37       | 40       | 48       | 53       | 58       | 63       | 70       | 76      | 82      | 89      | 97      | 104     | 114     | 122     | 132     | 142     |         |  |  |  |
| 5.81  | ...                                     | 18.0    | 21.0    | 24.4     | 27.8     | 31.0     | 34.7     | 38.4     | 42.6     | 48       | 53       | 58       | 63       | 68       | 73       | 79      | 85      | 91      | 98      | 106     | 114     | 124     | 131     | 141     | 151     |  |  |  |
| 5.94  | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | 32       | 38       | 44       | 50       | 56       | 63      | 69      | 76      | 84      | 92      | 102     | 110     | 120     | 130     |         |  |  |  |
| 6.03  | ...                                     | ...     | ...     | ...      | ...      | ...      | 27.1     | 31.8     | 37       | 43       | 48       | 53       | 58       | 64       | 70       | 76      | 82      | 89      | 97      | 104     | 115     | 122     | 132     | 142     |         |  |  |  |
| 6.13  | ...                                     | 18.1    | 21.1    | 24.6     | 27.9     | 31.2     | 34.9     | 38.6     | 42.8     | 48       | 53       | 58       | 63       | 68       | 73       | 79      | 86      | 92      | 99      | 106     | 114     | 124     | 131     | 141     | 151     |  |  |  |
| 6.16  | ...                                     | ...     | ...     | ...      | 23.5     | 27.0     | 30.9     | 34.7     | 39.0     | 44       | 49       | 55       | 60       | 65       | 70       | 76      | 82      | 88      | 95      | 103     | 110     | 120     | 128     | 138     | 148     |  |  |  |
| 6.32  | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | 33       | 39       | 44       | 50       | 56       | 63      | 69      | 76.6    | 84      | 92      | 102     | 110     | 120     | 130     |         |  |  |  |
| 6.45  | ...                                     | ...     | ...     | ...      | ...      | ...      | 27.4     | 32.0     | 38       | 43       | 48       | 54       | 59       | 64       | 70       | 76      | 82      | 89      | 97      | 105     | 115     | 122     | 132     | 142     |         |  |  |  |
| 6.49  | ...                                     | 18.3    | 21.3    | 24.7     | 28.1     | 31.3     | 35.1     | 38.8     | 42.9     | 48       | 53       | 58       | 63       | 68       | 74       | 80      | 86      | 92      | 99      | 106     | 114     | 124     | 131     | 142     | 152     |  |  |  |
| 6.54  | ...                                     | ...     | ...     | 20.0     | 23.7     | 27.2     | 31.1     | 34.9     | 39.2     | 44       | 50       | 55       | 60       | 65       | 70       | 76      | 82      | 88      | 95      | 103     | 111     | 121     | 128     | 138     | 148     |  |  |  |
| 6.74  | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | 33       | 39       | 45       | 50       | 57       | 63      | 70      | 77      | 85      | 92      | 103     | 110     | 120     | 131     |         |  |  |  |
| 6.90  | ...                                     | ...     | ...     | 20.2     | 23.8     | 27.3     | 31.2     | 35.1     | 39.3     | 45       | 50       | 55       | 60       | 65       | 70       | 76      | 83      | 89      | 96      | 103     | 111     | 121     | 127     | 138     | 149     |  |  |  |
| 6.93  | ...                                     | ...     | ...     | ...      | ...      | ...      | 27.6     | 32.3     | 38       | 43       | 49       | 54       | 59       | 64       | 70       | 71      | 83      | 90      | 97      | 105     | 115     | 123     | 133     | 143     |         |  |  |  |
| 7.13  | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | 33       | 39       | 45       | 51       | 57       | 64      | 70      | 77      | 85      | 93      | 103     | 111     | 121     | 131     |         |  |  |  |
|       | ...                                     | 0.75    | 0.77    | 0.81     | 0.84     | 0.87     | 0.88     | 0.89     | 0.91     | 0.93     | 0.94     | 0.95     | 0.97     | 0.99     | 1.00     | 4.02    | 1.04    | 1.06    | 1.09    | 1.09    | 1.10    | 1.11    | 1.12    | 1.13    | 1.14    |  |  |  |
| 7.30  | ...                                     | ...     | ...     | 20.3     | 24.0     | 27.5     | 31.4     | 35.2     | 39.5     | 45       | 50       | 55       | 60       | 65       | 71       | 77      | 83      | 86      | 96      | 103     | 111     | 121     | 129     | 139     | 149     |  |  |  |
| 7.33  | ...                                     | ...     | ...     | ...      | ...      | ...      | 27.8     | 32.4     | 38       | 43       | 49       | 54       | 59       | 64       | 71       | 77      | 83      | 90      | 98      | 105     | 115     | 123     | 133     | 143.1   |         |  |  |  |
| 7.56  | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | 33       | 39       | 45       | 51       | 57       | 64      | 70      | 77      | 85      | 93      | 103     | 111     | 121     | 131.2   |         |  |  |  |
| 7.79  | ...                                     | ...     | ...     | ...      | ...      | 23.6     | 28.0     | 32.6     | 38       | 44       | 49       | 54       | 59       | 65       | 71       | 77      | 83      | 90      | 98      | 105     | 116     | 123     | 133     | 143.3   |         |  |  |  |
| 8.05  | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | 34       | 40       | 45       | 51       | 58       | 64      | 70      | 78      | 86      | 93      | 103     | 111     | 121     | 131     |         |  |  |  |
|       | ...                                     | ...     | ...     | 0.79     | 0.82     | 0.84     | 0.86     | 0.88     | 0.89     | 0.90     | 0.93     | 0.94     | 0.96     | 0.97     | 0.98     | 1.00    | 1.02    | 1.04    | 1.05    | 1.07    | 1.08    | 1.10    | 1.11    | 1.12    | 1.14    |  |  |  |
| 8.22  | ...                                     | ...     | ...     | ...      | ...      | 23.7     | 28.1     | 32.8     | 38       | 44       | 49       | 54       | 60       | 65       | 71       | 77      | 83      | 90      | 98      | 106     | 116     | 123     | 133     | 143     |         |  |  |  |
| 8.60  | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | 34       | 40       | 46       | 51       | 59       | 64      | 71      | 78      | 86      | 94      | 104     | 111     | 122     | 132     |         |  |  |  |
| 8.70  | ...                                     | ...     | ...     | ...      | ...      | 23.9     | 28.3     | 33.0     | 39       | 44       | 49       | 55       | 60       | 65       | 71       | 77      | 83      | 91      | 98      | 106     | 116     | 123     | 134     | 144     |         |  |  |  |
| 9.24  | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | 34       | 40       | 46       | 52       | 58       | 64      | 71      | 78      | 86      | 94      | 104     | 112     | 122     | 132     |         |  |  |  |
| 9.78  | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | 34       | 40       | 46       | 52       | 58       | 64      | 71      | 78      | 86      | 94      | 104     | 112     | 122     | 132     |         |  |  |  |
| 10.40 | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | 35       | 41       | 46       | 52       | 59       | 65      | 71      | 79      | 86      | 91      | 104     | 112     | 122     | 132     |         |  |  |  |
| 10.97 | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | 35       | 41       | 47       | 52       | 59       | 65      | 72      | 79      | 87      | 94      | 105     | 112     | 123     | 133     |         |  |  |  |
| 11.60 | ...                                     | ...     | ...     | ...      | ...      | ...      | ...      | ...      | ...      | ...      | 35       | 41       | 47       | 52       | 59       | 65      | 72      | 79      | 87      | 95      | 101     | 112     | 123     | 133     |         |  |  |  |
|       | ...                                     | ...     | ...     | ...      | ...      | ...      | 0.84     | 0.86     | 0.87     | 0.88     | 0.90     | 0.92     | 0.94     | 0.95     | 0.96     | 0.98    | 1.00    | 1.02    | 1.04    | 1.05    | 1.07    | 1.09    | 1.11    | 1.12    | 1.14    |  |  |  |

**NOTE:** Arc & Length Factors are approximate values  
Refer to Selection Procedure for more precise values

**NOTE:** Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets

# SELECTION



**8V**

D-V Wedge & POLYBAND Belts

## STOCK DRIVE SELECTIONS

| Ratio                                 | Stock Sheaves |        | 1750 RPM Driver |                | 1160 RPM Driver |                | 870 RPM Driver |                | Belt Number and Approx. Center Distance |            |            |            |            |            |            |            |
|---------------------------------------|---------------|--------|-----------------|----------------|-----------------|----------------|----------------|----------------|---|------------|------------|------------|------------|------------|------------|------------|
|                                       | Diameter      |        | Driven RPM      | HP Per Belt 8V | Driven RPM      | HP Per Belt 8V | Driven RPM     | HP Per Belt 8V | 8VX 1000                                | 8VX 1060   | 8VX 1120   | 8VX 1180   | 8VX 1250   | 8VX 1320   | 8VX 1400   | 8VX 1500   |
|                                       | Driver        | Driven |                 |                |                 |                |                |                |   |            |            |            |            |            |            |            |
| 1.00                                  | 12.5          | 12.5   | 1750            | 50.9           | 1160            | 42.6           | 870            | 35.0           | 30.4                                    | 33.4       | 36.4       | 39.4       | 42.9       | 46.4       | 50.4       | 55.4       |
|                                       | 13.2          | 13.2   | 1750            | 56.1           | 1160            | 47.3           | 870            | 38.9           | 29.3                                    | 32.3       | 35.3       | 38.3       | 41.8       | 45.3       | 49.3       | 54.3       |
|                                       | 14.0          | 14.0   | 1750            | 61.7           | 1160            | 52.5           | 870            | 43.2           | 28.0                                    | 31.0       | 34.0       | 37.0       | 40.5       | 44.0       | 48.0       | 53.0       |
|                                       | 15.0          | 15.0   | ...             | ...            | 1160            | 58.8           | 870            | 48.6           | 26.4                                    | 29.4       | 32.4       | 35.4       | 38.9       | 42.5       | 46.5       | 51.5       |
|                                       | 16.0          | 16.0   | ...             | ...            | 1160            | 64.8           | 870            | 53.8           | 24.9                                    | 27.9       | 30.9       | 33.9       | 37.4       | 40.9       | 44.9       | 49.9       |
|                                       | 17.0          | 17.0   | ...             | ...            | 1160            | 70.6           | 870            | 58.9           | 23.3                                    | 26.3       | 29.3       | 32.3       | 35.8       | 39.3       | 43.3       | 48.3       |
|                                       | 18.0          | 18.0   | ...             | ...            | 1160            | 76.1           | 870            | 63.9           | 21.7                                    | 24.7       | 27.7       | 30.7       | 34.2       | 37.7       | 41.7       | 46.7       |
|                                       | 19.0          | 19.0   | ...             | ...            | 1160            | 81.2           | 870            | 68.7           | ...                                     | 23.2       | 26.2       | 29.2       | 32.7       | 36.2       | 40.2       | 45.2       |
|                                       | 20.0          | 20.0   | ...             | ...            | 1160            | 86.1           | 870            | 73.3           | ...                                     | ...        | 24.6       | 27.6       | 31.1       | 34.6       | 38.6       | 43.6       |
|                                       | 21.2          | 21.2   | ...             | ...            | 1160            | 91.5           | 870            | 78.8           | ...                                     | ...        | ...        | 25.7       | 29.2       | 32.7       | 36.7       | 41.7       |
|                                       | 22.4          | 22.4   | ...             | ...            | ...             | ...            | 870            | 84.0           | ...                                     | ...        | ...        | ...        | 27.3       | 30.8       | 34.8       | 39.8       |
| 24.8                                  | 24.8          | ...    | ...             | ...            | ...             | 870            | 93.8           | ...            | ...                                     | ...        | ...        | ...        | ...        | 31.0       | 36.0       |            |
| 1.05                                  | 19.0          | 20.0   | ...             | ...            | 1101            | 82.5           | 826            | 69.6           | ...                                     | ...        | 25.4       | 28.4       | 31.9       | ...        | 39.4       | 44.4       |
| 1.06                                  | 12.5          | 13.2   | 1656            | 53.0           | 1098            | 44.1           | 823            | 36.1           | 29.8                                    | 32.8       | 35.8       | 38.8       | 42.3       | 45.8       | 49.8       | 54.8       |
|                                       | 13.2          | 14.0   | 1649            | 58.4           | 1093            | 48.7           | 820            | 40.0           | 28.6                                    | 31.6       | 34.6       | 37.6       | 41.1       | 44.6       | 48.6       | 53.6       |
|                                       | 16.0          | 17.0   | ...             | ...            | 1091            | 66.3           | 818            | 54.9           | 24.1                                    | 27.1       | 30.1       | 33.1       | 36.6       | 40.1       | 44.1       | 49.1       |
|                                       | 17.0          | 18.0   | ...             | ...            | 1095            | 72.1           | 821            | 60.0           | 22.5                                    | 25.5       | 28.5       | 31.5       | 35.0       | 38.5       | 42.5       | 47.5       |
|                                       | 18.0          | 19.0   | ...             | ...            | 1098            | 77.5           | 824            | 65.0           | ...                                     | 23.9       | 27.0       | 30.0       | 33.5       | 37.0       | 41.0       | 46.0       |
|                                       | 20.0          | 21.2   | ...             | ...            | 1094            | 87.6           | 820            | 74.5           | ...                                     | ...        | ...        | 26.7       | 30.2       | 33.7       | 37.7       | 42.7       |
|                                       | 21.2          | 22.4   | ...             | ...            | 1097            | 93.0           | 823            | 79.9           | ...                                     | ...        | ...        | ...        | 28.3       | 31.8       | 35.8       | 40.8       |
| 1.07                                  | 14.0          | 15.0   | 1632            | 64.2           | 1082            | 54.2           | 811            | 44.5           | 27.2                                    | 30.2       | 33.2       | 36.2       | 39.7       | 43.2       | 47.2       | 52.2       |
|                                       | 15.0          | 16.0   | ...             | ...            | 1087            | 60.5           | 815            | 49.8           | 25.7                                    | 28.7       | 31.7       | 34.7       | 38.2       | 41.7       | 45.7       | 50.7       |
| 1.11                                  | 18.0          | 20.0   | ...             | ...            | 1043            | 78.5           | 782            | 65.7           | ...                                     | 23.1       | 26.2       | 29.2       | 32.7       | 36.2       | 40.2       | 45.2       |
|                                       | 22.4          | 24.8   | ...             | ...            | ...             | ...            | 785            | 85.8           | ...                                     | ...        | ...        | ...        | ...        | 28.9       | 32.9       | 37.9       |
| <b>ARC-LENGTH CORRECTION FACTOR →</b> |               |        |                 |                |                 |                |                |                | <b>.86</b>                              | <b>.87</b> | <b>.86</b> | <b>.89</b> | <b>.90</b> | <b>.90</b> | <b>.91</b> | <b>.92</b> |
| 1.12                                  | 12.5          | 14.0   | 1560            | 54.8           | 1034            | 45.2           | 775            | 37.0           | 29.2                                    | 32.2       | 35.2       | 38.2       | 41.7       | 45.2       | 49.2       | 54.2       |
|                                       | 17.0          | 19.0   | ...             | ...            | 1037            | 73.2           | 777            | 60.8           | 21.7                                    | 24.7       | 27.7       | 30.7       | 34.2       | 37.7       | 41.7       | 46.7       |
|                                       | 19.0          | 21.2   | ...             | ...            | 1038            | 83.8           | 779            | 70.6           | ...                                     | ...        | 24.4       | 27.4       | 30.9       | 34.4       | 38.4       | 43.4       |
|                                       | 20.0          | 22.4   | ...             | ...            | 1035            | 88.7           | 776            | 75.3           | ...                                     | ...        | ...        | 25.7       | 29.3       | 32.7       | 36.7       | 41.7       |
| 1.13                                  | 16.0          | 18.0   | ...             | ...            | 1030            | 67.5           | 772            | 55.9           | 23.3                                    | 26.3       | 29.3       | 32.3       | 35.8       | 39.3       | 43.3       | 48.3       |
| 1.14                                  | 13.2          | 15.0   | 1537            | 60.4           | 1019            | 50.1           | 764            | 41.0           | 27.8                                    | 30.8       | 33.9       | 36.9       | 40.4       | 43.9       | 47.9       | 52.9       |
|                                       | 14.0          | 16.0   | 1528            | 66.1           | 1013            | 55.4           | 760            | 45.4           | 26.4                                    | 29.4       | 32.4       | 35.4       | 38.9       | 42.4       | 46.4       | 51.4       |
|                                       | 15.0          | 17.0   | ...             | ...            | 1022            | 61.66          | 766            | 50.7           | 24.9                                    | 27.9       | 30.9       | 33.9       | 37.4       | 40.9       | 44.9       | 49.9       |
| 1.17                                  | 21.2          | 24.8   | ...             | ...            | 990             | 94.83          | 743            | 81.3           | ...                                     | ...        | ...        | ...        | ...        | 29.8       | 33.8       | 38.8       |
| 1.18                                  | 17.0          | 20.0   | ...             | ...            | 984             | 73.98          | 738            | 61.4           | ...                                     | 23.9       | 26.9       | 29.9       | 33.4       | 36.9       | 40.9       | 45.9       |
|                                       | 18.0          | 21.2   | ...             | ...            | 983             | 79.46          | 737            | 66.4           | ...                                     | ...        | 25.2       | 28.2       | 31.7       | 35.2       | 39.2       | 44.2       |
|                                       | 19.0          | 22.4   | ...             | ...            | 982             | 84.65          | 737            | 71.3           | ...                                     | ...        | ...        | 26.4       | 30.0       | 33.5       | 37.5       | 42.5       |
| 1.19                                  | 16.0          | 19.0   | ...             | ...            | 975             | 68.33          | 731            | 56.4           | 22.5                                    | 25.5       | 28.5       | 31.5       | 35.0       | 38.5       | 42.5       | 47.5       |
| 1.20                                  | 12.5          | 15.0   | 1454            | 56.4           | 964             | 46.20          | 723            | 37.7           | 28.4                                    | 31.4       | 34.4       | 37.4       | 40.9       | 44.4       | 48.4       | 53.4       |
|                                       | 15.0          | 18.0   | ...             | ...            | 964             | 62.40          | 723            | 51.3           | 24.0                                    | 27.1       | 30.1       | 33.1       | 36.6       | 40.1       | 44.1       | 49.1       |
| 1.21                                  | 24.8          | 30.0   | ...             | ...            | ...             | ...            | 718            | 96.6           | ...                                     | ...        | ...        | ...        | ...        | ...        | ...        | 31.9       |
| 1.22                                  | 13.2          | 16.0   | 1440            | 61.8           | 954             | 51.09          | 716            | 41.7           | 27.0                                    | 30.0       | 33.0       | 36.1       | 39.6       | 43.1       | 47.1       | 52.1       |
|                                       | 14.0          | 17.0   | 1438            | 67.4           | 953             | 56.31          | 715            | 46.1           | 25.6                                    | 28.6       | 31.6       | 34.6       | 38.1       | 41.6       | 45.6       | 50.6       |
| 1.24                                  | 20.0          | 24.8   | ...             | ...            | 934             | 90.14          | 700            | 76.4           | ...                                     | ...        | ...        | ...        | 27.2       | 30.7       | 34.7       | 39.7       |
| 1.25                                  | 16.0          | 20.0   | ...             | ...            | 926             | 68.92          | 694            | 56.9           | 21.6                                    | 24.7       | 27.7       | 30.7       | 34.2       | 37.7       | 41.7       | 46.7       |
|                                       | 17.0          | 21.2   | ...             | ...            | 928             | 74.68          | 696            | 62.0           | ...                                     | 22.9       | 25.9       | 28.9       | 32.4       | 36.0       | 40.0       | 45.0       |
|                                       | 18.0          | 22.4   | ...             | ...            | 930             | 80.16          | 698            | 66.9           | ...                                     | ...        | 24.2       | 27.2       | 30.7       | 34.2       | 38.2       | 43.2       |
| 1.27                                  | 15.0          | 19.0   | ...             | ...            | 913             | 63.04          | 685            | 51.8           | 23.2                                    | 26.2       | 29.2       | 32.2       | 35.8       | 39.3       | 43.3       | 48.3       |
| 1.28                                  | 12.5          | 16.0   | 1362            | 57.5           | 903             | 46.92          | 677            | 38.2           | 27.6                                    | 30.6       | 33.6       | 36.6       | 40.1       | 43.6       | 47.6       | 52.6       |
| 1.29                                  | 13.2          | 17.0   | 1354            | 62.8           | 898             | 51.68          | 673            | 42.2           | 26.2                                    | 29.2       | 32.2       | 35.2       | 38.7       | 42.3       | 46.3       | 51.3       |
|                                       | 14.0          | 18.0   | 1357            | 68.3           | 899             | 56.89          | 674            | 46.5           | 24.8                                    | 27.8       | 30.8       | 33.8       | 37.3       | 40.8       | 44.8       | 49.8       |
| 1.31                                  | 19.0          | 24.8   | ...             | ...            | 887             | 85.80          | 665            | 72.1           | ...                                     | ...        | ...        | ...        | 27.9       | 31.5       | 35.5       | 40.5       |
| 1.32                                  | 17.0          | 22.4   | ...             | ...            | 878             | 75.19          | 658            | 62.4           | ...                                     | ...        | 24.9       | 27.9       | 31.5       | 35.0       | 39.0       | 44.0       |
| 1.33                                  | 16.0          | 21.2   | ...             | ...            | 873             | 69.49          | 655            | 57.3           | ...                                     | 23.7       | 26.7       | 29.7       | 33.2       | 36.7       | 40.7       | 45.7       |
| 1.34                                  | 15.0          | 20.0   | ...             | ...            | 867             | 63.51          | 650            | 52.1           | 22.4                                    | 25.4       | 28.4       | 31.4       | 34.9       | 38.4       | 42.5       | 47.5       |
|                                       | 22.4          | 30.0   | ...             | ...            | ...             | ...            | 648            | 87.6           | ...                                     | ...        | ...        | ...        | ...        | ...        | ...        | 33.7       |
| <b>ARC-LENGTH CORRECTION FACTOR →</b> |               |        |                 |                |                 |                |                |                | <b>.84</b>                              | <b>.85</b> | <b>.86</b> | <b>.87</b> | <b>.88</b> | <b>.89</b> | <b>.90</b> | <b>.90</b> |

**NOTE:** Arc & Length Factors are approximate values  
Refer to Selection Procedure for more precise values

**NOTE:** Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

# SELECTION



**8V** D-V Wedge & POLYBAND Belts

## STOCK DRIVE SELECTIONS

| Ratio | Belt Number and Approx. Center Distance |          |          |          |          |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-------|---|----------|----------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|       | 8VX 1600                                | 8VX 1700 | 8VX 1800 | 8VX 1900 | 8VX 2000 | 8V 2120 | 8V 2240 | 8V 2360 | 8V 2500 | 8V 2650 | 8V 2800 | 8V 3000 | 8V 3150 | 8V 3350 | 8V 3550 | 8V 3750 | 8V 4000 | 8V 4250 | 8V 4500 | 8V 4750 | 8V 5000 | 8V 5600 |
| 1.00  | 60.4                                    | 65.4     | 70.4     | 75.4     | 80.4     | 86.4    | 92.4    | 98.4    | 105     | 113     | 120     | 130     | 138     | 148     | 158     | 168     | 180     | 193     | 205     | 218     | 230     | 260     |
|       | 59.3                                    | 64.3     | 69.3     | 74.3     | 79.3     | 85.3    | 91.3    | 97.3    | 104     | 112     | 119     | 129     | 137     | 147     | 157     | 167     | 179     | 192     | 204     | 217     | 229     | 259     |
|       | 58.0                                    | 63.0     | 68.0     | 73.0     | 78.0     | 84.0    | 90.0    | 96.0    | 103     | 110     | 118     | 128     | 135     | 145     | 155     | 165     | 178     | 190     | 203     | 215     | 228     | 258     |
|       | 56.5                                    | 61.5     | 66.5     | 71.5     | 76.5     | 82.5    | 88.5    | 94.5    | 101     | 109     | 116     | 126     | 134     | 144     | 154     | 164     | 176     | 189     | 201     | 214     | 226     | 256     |
|       | 54.9                                    | 59.9     | 64.9     | 69.9     | 74.9     | 80.9    | 86.9    | 92.9    | 100     | 107     | 115     | 125     | 132     | 142     | 152     | 162     | 175     | 187     | 200     | 212     | 225     | 255     |
|       | 53.3                                    | 58.3     | 63.3     | 68.3     | 73.3     | 79.3    | 85.3    | 91.3    | 98      | 106     | 113     | 123     | 131     | 141     | 151     | 161     | 173     | 186     | 198     | 211     | 223     | 253     |
|       | 51.7                                    | 56.7     | 61.7     | 66.7     | 71.7     | 77.7    | 83.7    | 89.7    | 97      | 104     | 112     | 122     | 129     | 139     | 149     | 159     | 172     | 184     | 197     | 209     | 222     | 252     |
|       | 50.2                                    | 55.2     | 60.2     | 65.2     | 70.2     | 76.2    | 82.2    | 88.2    | 95      | 103     | 110     | 120     | 127     | 138     | 148     | 158     | 170     | 183     | 195     | 208     | 220     | 250     |
|       | 48.6                                    | 53.6     | 58.6     | 63.6     | 68.6     | 74.6    | 80.6    | 86.6    | 94      | 101     | 109     | 119     | 126     | 136     | 146     | 156     | 169     | 181     | 194     | 206     | 219     | 248     |
|       | 46.7                                    | 51.7     | 56.7     | 61.7     | 66.7     | 72.7    | 78.7    | 84.7    | 92      | 99      | 107     | 117     | 124     | 134     | 144     | 154     | 167     | 179     | 192     | 204     | 217     | 247     |
| 44.8  | 49.8                                    | 54.8     | 59.8     | 64.8     | 70.8     | 76.8    | 82.8    | 90      | 97      | 105     | 115     | 122     | 132     | 142     | 152     | 165     | 177     | 190     | 202     | 215     | 245     |         |
| 41.0  | 46.0                                    | 51.0     | 56.0     | 61.0     | 67.0     | 73.0    | 79.0    | 86      | 93      | 101     | 111     | 118     | 128     | 138     | 148     | 161     | 173     | 186     | 198     | 211     | 241     |         |
| 1.05  | 49.4                                    | 54.4     | 59.4     | 64.4     | 69.4     | 75.4    | 81.4    | 87.4    | 94      | 102     | 109     | 119     | 127     | 137     | 147     | 157     | 169     | 182     | 194     | 207     | 219     | 249     |
| 1.06  | 59.8                                    | 64.8     | 69.8     | 74.8     | 79.8     | 85.8    | 91.8    | 97.8    | 105     | 112     | 120     | 130     | 137     | 147     | 157     | 167     | 180     | 192     | 205     | 217     | 230     | 26      |
|       | 58.6                                    | 63.6     | 68.6     | 73.6     | 78.6     | 84.6    | 90.6    | 96.6    | 104     | 111     | 119     | 129     | 136     | 146     | 156     | 166     | 179     | 191     | 204     | 216     | 229     | 259     |
|       | 54.1                                    | 59.1     | 64.1     | 69.1     | 74.1     | 80.1    | 86.1    | 92.1    | 99      | 107     | 114     | 124     | 132     | 142     | 152     | 162     | 174     | 187     | 199     | 212     | 224     | 254     |
|       | 52.5                                    | 57.5     | 62.5     | 67.5     | 72.5     | 78.5    | 84.5    | 90.5    | 97      | 105     | 112     | 122     | 130     | 140     | 150     | 160     | 172     | 185     | 197     | 210     | 222     | 252     |
|       | 51.0                                    | 56.0     | 61.0     | 66.0     | 71.0     | 77.0    | 83.0    | 89.0    | 96      | 103     | 111     | 121     | 128     | 138     | 148     | 158     | 171     | 183     | 196     | 208     | 221     | 251     |
|       | 47.7                                    | 52.7     | 57.7     | 62.7     | 67.7     | 73.7    | 79.7    | 85.7    | 93      | 100     | 108     | 118     | 125     | 135     | 145     | 155     | 168     | 180     | 193     | 206     | 218     | 248     |
| 45.8  | 50.8                                    | 55.8     | 60.8     | 65.8     | 71.8     | 77.8    | 83.8    | 91      | 98      | 106     | 116     | 123     | 133     | 143     | 153     | 166     | 178     | 191     | 203     | 216     | 246     |         |
| 1.07  | 57.2                                    | 62.2     | 67.2     | 72.2     | 77.2     | 83.2    | 89.2    | 95.2    | 102     | 110     | 117     | 127     | 134     | 145     | 155     | 165     | 177     | 190     | 202     | 215     | 227     | 257     |
|       | 55.2                                    | 60.2     | 65.2     | 70.2     | 75.2     | 81.2    | 87.2    | 93.7    | 101     | 108     | 116     | 126     | 133     | 143     | 153     | 163     | 176     | 188     | 201     | 213     | 226     | 256     |
| 1.11  | 50.2                                    | 55.2     | 60.2     | 65.2     | 70.2     | 76.2    | 82.2    | 88.2    | 95      | 103     | 110     | 120     | 128     | 138     | 148     | 158     | 170     | 183     | 195     | 208     | 220     | 250     |
|       | 42.9                                    | 47.9     | 52.9     | 57.9     | 62.9     | 68.9    | 74.9    | 80.9    | 88      | 95      | 103     | 113     | 120     | 130     | 140     | 150     | 163     | 175     | 188     | 200     | 213     | 243     |
| 1.12  | .93                                     | .94      | .95      | .96      | .97      | .97     | .98     | .99     | 1.00    | 1.01    | 1.02    | 1.03    | 1.03    | 1.04    | 1.05    | 1.06    | 1.07    | 1.08    | 1.09    | 1.09    | 1.10    | 1.12    |
|       | 59.2                                    | 64.2     | 69.2     | 74.2     | 79.2     | 85.2    | 91.2    | 97.2    | 104     | 112     | 119     | 129     | 137     | 147     | 157     | 167     | 179     | 192     | 204     | 217     | 229     | 259     |
|       | 51.7                                    | 56.7     | 61.7     | 66.7     | 71.7     | 77.7    | 83.7    | 89.7    | 97      | 104     | 112     | 122     | 129     | 139     | 149     | 159     | 172     | 184     | 197     | 209     | 222     | 252     |
|       | 48.4                                    | 53.4     | 58.4     | 63.4     | 68.4     | 74.4    | 80.4    | 86.4    | 93      | 101     | 108     | 118     | 126     | 136     | 146     | 156     | 168     | 181     | 193     | 206     | 218     | 248     |
| 46.7  | 51.7                                    | 56.7     | 61.7     | 66.7     | 72.7     | 78.7    | 84.7    | 92      | 99      | 107     | 117     | 124     | 134     | 144     | 154     | 167     | 179     | 191     | 204     | 217     | 247     |         |
| 1.13  | 53.3                                    | 58.3     | 63.3     | 68.3     | 73.3     | 79.3    | 85.3    | 91.3    | 98      | 106     | 113     | 123     | 131     | 141     | 151     | 161     | 173     | 186     | 198     | 211     | 223     | 253     |
|       | 57.9                                    | 62.9     | 67.9     | 72.9     | 77.9     | 83.9    | 89.9    | 95.9    | 103     | 110     | 118     | 128     | 135     | 145     | 155     | 165     | 178     | 190     | 203     | 215     | 228     | 258     |
| 1.14  | 56.4                                    | 61.4     | 66.4     | 71.4     | 76.4     | 82.4    | 88.4    | 94.4    | 101     | 109     | 116     | 126     | 134     | 144     | 154     | 164     | 177     | 189     | 201     | 214     | 226     | 256     |
|       | 54.9                                    | 59.9     | 64.9     | 69.9     | 74.9     | 80.9    | 86.9    | 92.9    | 100     | 107     | 115     | 125     | 132     | 142     | 152     | 162     | 175     | 187     | 200     | 212     | 225     | 255     |
| 1.17  | 43.8                                    | 48.8     | 53.8     | 58.8     | 63.8     | 69.8    | 75.9    | 81.9    | 89      | 96      | 104     | 114     | 121     | 131     | 141     | 151     | 164     | 176     | 189     | 201     | 214     | 244     |
|       | 50.9                                    | 55.9     | 60.9     | 65.9     | 70.9     | 76.9    | 82.9    | 88.9    | 96      | 103     | 111     | 121     | 128     | 138     | 148     | 158     | 171     | 183     | 196     | 208     | 221     | 251     |
|       | 49.2                                    | 54.2     | 59.2     | 64.2     | 69.2     | 75.2    | 81.2    | 87.2    | 94      | 102     | 109     | 119     | 127     | 137     | 147     | 157     | 169     | 182     | 194     | 207     | 219     | 249     |
| 1.18  | 47.5                                    | 52.5     | 57.5     | 62.5     | 67.5     | 73.5    | 79.5    | 85.5    | 92      | 100     | 107     | 117     | 125     | 135     | 145     | 155     | 167     | 180     | 192     | 205     | 217     | 247     |
|       | 52.5                                    | 57.5     | 62.5     | 67.5     | 72.5     | 78.5    | 84.5    | 90.5    | 97      | 105     | 112     | 122     | 130     | 140     | 150     | 160     | 172     | 185     | 197     | 210     | 222     | 252     |
| 1.20  | 58.4                                    | 63.4     | 68.4     | 73.4     | 78.4     | 84.4    | 90.4    | 96.4    | 103     | 111     | 118     | 128     | 136     | 146     | 156     | 166     | 178     | 191     | 203     | 216     | 228     | 258     |
|       | 54.1                                    | 59.1     | 64.1     | 69.1     | 74.1     | 80.1    | 86.1    | 92.1    | 99      | 107     | 114     | 124     | 132     | 142     | 152     | 162     | 174     | 187     | 199     | 212     | 224     | 254     |
| 1.21  | 36.9                                    | 41.9     | 46.9     | 51.9     | 56.9     | 62.9    | 68.9    | 74.9    | 82      | 89      | 97      | 107     | 114     | 124     | 134     | 144     | 157     | 169     | 182     | 194     | 207     | 237     |
|       | 57.1                                    | 62.1     | 67.1     | 72.1     | 77.1     | 83.1    | 89.1    | 95.1    | 102     | 110     | 117     | 127     | 135     | 145     | 155     | 165     | 177     | 190     | 202     | 215     | 227     | 257     |
| 1.22  | 55.6                                    | 60.6     | 65.6     | 70.6     | 75.6     | 81.6    | 87.6    | 93.6    | 101     | 108     | 116     | 126     | 133     | 143     | 153     | 163     | 176     | 186     | 201     | 213     | 226     | 256     |
|       | 44.8                                    | 49.8     | 54.8     | 59.8     | 64.8     | 70.8    | 76.8    | 82.8    | 90      | 97      | 105     | 115     | 122     | 132     | 142     | 152     | 165     | 177     | 190     | 202     | 215     | 244     |
| 1.25  | 51.7                                    | 56.7     | 61.7     | 66.7     | 71.7     | 77.7    | 83.7    | 89.7    | 97      | 104     | 112     | 122     | 129     | 139     | 149     | 159     | 172     | 184     | 197     | 209     | 222     | 252     |
|       | 50.0                                    | 55.0     | 60.0     | 65.0     | 70.0     | 76.0    | 82.0    | 88.0    | 95      | 102     | 110     | 120     | 127     | 137     | 147     | 157     | 170     | 182     | 195     | 207     | 220     | 250     |
|       | 48.2                                    | 53.2     | 58.2     | 63.2     | 68.2     | 74.2    | 80.2    | 86.2    | 93      | 101     | 108     | 118     | 126     | 136     | 146     | 156     | 168     | 181     | 193     | 206     | 218     | 248     |
| 1.27  | 53.3                                    | 58.3     | 63.3     | 68.3     | 73.3     | 79.3    | 85.3    | 91.3    | 98      | 106     | 113     | 123     | 131     | 141     | 151     | 161     | 173     | 186     | 198     | 211     | 223     | 253     |
|       | 57.6                                    | 62.6     | 67.6     | 72.6     | 77.6     | 83.6    | 89.6    | 95.6    | 103     | 110     | 118     | 128     | 135     | 145     | 155     | 165     | 178     | 190     | 203     | 21      | 228     | 258     |
| 1.29  | 56.3                                    | 61.3     | 66.3     | 71.3     | 76.3     | 82.3    | 88.3    | 94.3    | 101     | 109     | 116     | 126     | 134     | 144     | 154     | 164     | 176     | 189     | 201     | 214     | 226     | 256     |
|       | 54.8                                    | 59.8     | 64.8     | 69.8     | 74.8     | 80.8    | 86.8    | 92.8    | 100     | 107     | 115     | 125     | 132     | 142     | 152     | 162     | 175     | 187     | 200     | 212     | 225     | 255     |
| 1.31  | 45.5                                    | 50.5     | 55.5     | 60.5     | 65.5     | 71.5    | 77.5    | 83.5    | 91      | 98      | 106     | 116     | 123     | 133     | 143     | 153     | 166     | 178     | 191     | 203     | 216     | 245     |
|       | 49.0                                    | 54.0     | 59.0     | 64.0     | 69.0     | 75.0    | 81.0    | 87.0    | 94      | 101     | 109     | 119     | 126     | 135     | 146     | 156     | 169     | 182     | 194     | 207     | 219     | 249     |
| 1.33  | 50.7                                    | 55.7     | 60.7     | 65.7     | 70.7     | 76.7    | 82.7    | 88.7    | 96      | 103     | 111     | 121     | 128     | 138     | 148     | 158     | 171     | 183     | 196     | 208     | 221     | 251     |
|       | 52.5                                    | 57.5     | 62.5     | 67.5     | 72.5     | 78.5    | 84.5    | 90.5    | 97      | 105     | 112     | 122     | 130     | 140     | 150     | 160     | 172     | 185     | 197     | 210     | 222     | 252     |
| 1.34  | 38.7                                    | 43.7     | 48.7     | 53.7     | 58.7     | 64.7    | 70.7    | 76.7    | 84      | 91      | 99      | 109     | 116     | 126     | 136     | 146     | 159     | 171     | 184     | 196     | 209     | 239     |
|       | .92                                     | .93      | .94      | .95      | .96      | .97     | .98     | .98     | .99     | 1.00    | 1.01    | 1.02    | 1.03    | 1.04    | 1.05    | 1.06    | 1.06    | 1.07    | 1.08    | 1.09    | 1.10    | 1.11    |

NOTE: Selection program VIA-VISA available at [www.ptwizord.com](http://www.ptwizord.com).

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets



# SELECTION

## STOCK DRIVE SELECTIONS

**8V** D-V Wedge & POLYBAND Belts

| Ratio                          | Stock Sheaves    |        | 1750 RPM Driver |             | 1160 RPM Driver |             | 870 RPM Driver |             | Belt Number and Approx. Center Distance |          |          |          |          |          |          |          |
|--------------------------------|------------------|--------|-----------------|-------------|-----------------|-------------|----------------|-------------|---|----------|----------|----------|----------|----------|----------|----------|
|                                | Outside Diameter |        | Driven RPM      | HP Per Belt | Driven RPM      | HP Per Belt | Driven RPM     | HP Per Belt | 8VX 1000                                | 8VX 1060 | 8VX 1120 | 8VX 1180 | 8VX 1250 | 8VX 1320 | 8VX 1400 | 8VX 1500 |
|                                | Driver           | Driven |                 | 8V          |                 | 8V          |                | 8V          |   |          |          |          |          |          |          |          |
| 1.36                           | 14.0             | 19.0   | 1285            | 69.0        | 851             | 57.3        | 639            | 46.9        | 24.0                                    | 27.0     | 30.0     | 33.0     | 36.5     | 40.0     | 44.0     | 49.0     |
| 1.37                           | 12.5             | 17.0   | 1281            | 58.3        | 849             | 47.5        | 637            | 38.7        | 26.7                                    | 29.8     | 32.8     | 35.8     | 39.3     | 42.8     | 46.8     | 51.8     |
|                                | 13.2             | 18.0   | 1278            | 63.5        | 847             | 52.2        | 635            | 42.5        | 25.4                                    | 28.4     | 31.4     | 34.4     | 37.9     | 41.4     | 45.4     | 50.5     |
| 1.38                           | 18.0             | 24.8   | ...             | ...         | 839             | 81.0        | 630            | 67.6        | ...                                     | ...      | ...      | 25.2     | 28.7     | 32.2     | 36.2     | 41.2     |
| 1.41                           | 16.0             | 22.4   | ...             | ...         | 826             | 69.9        | 619            | 57.6        | ...                                     | ...      | 25.7     | 28.7     | 32.2     | 35.7     | 39.7     | 44.7     |
| 1.42                           | 15.0             | 21.2   | ...             | ...         | 818             | 63.9        | 613            | 52.4        | ...                                     | 24.4     | 27.4     | 30.4     | 33.9     | 37.5     | 41.5     | 46.5     |
|                                | 21.2             | 30.0   | ...             | ...         | 817             | 96.7        | 613            | 82.7        | ...                                     | ...      | ...      | ...      | ...      | ...      | 29.5     | 34.5     |
| 1.43                           | 14.0             | 20.0   | 1220            | 69.5        | 808             | 57.7        | 606            | 47.1        | 23.1                                    | 26.1     | 29.2     | 32.2     | 35.7     | 39.2     | 43.2     | 48.2     |
|                                | 24.8             | 35.5   | ...             | ...         | ...             | ...         | 606            | 97.6        | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |
| 1.45                           | 12.5             | 18.0   | 1209            | 58.8        | 802             | 47.8        | 601            | 38.9        | 25.9                                    | 28.9     | 31.9     | 34.9     | 38.5     | 42.0     | 46.0     | 51.0     |
|                                | 13.2             | 19.0   | 1210            | 64.0        | 802             | 52.5        | 602            | 42.8        | 24.6                                    | 27.6     | 30.6     | 33.6     | 37.1     | 40.6     | 44.6     | 49.6     |
| 1.46                           | 17.0             | 24.8   | ...             | ...         | 792             | 75.9        | 594            | 62.9        | ...                                     | ...      | ...      | 25.9     | 29.4     | 32.9     | 37.0     | 42.0     |
| 1.50                           | 15.0             | 22.4   | ...             | ...         | 773             | 64.2        | 580            | 52.6        | ...                                     | 23.3     | 26.4     | 29.4     | 32.9     | 36.5     | 40.5     | 45.5     |
| 1.51                           | 20.0             | 30.0   | ...             | ...         | 771             | 91.5        | 578            | 77.5        | ...                                     | ...      | ...      | ...      | ...      | ...      | 30.3     | 35.4     |
| 1.52                           | 13.2             | 20.0   | 1149            | 64.4        | 762             | 52.7        | 571            | 43.0        | 23.7                                    | 26.7     | 29.7     | 32.8     | 36.3     | 39.8     | 43.8     | 48.8     |
|                                | 14.0             | 21.2   | 1150            | 69.9        | 762             | 57.9        | 572            | 47.3        | 22.1                                    | 25.1     | 28.1     | 31.2     | 34.7     | 38.2     | 42.2     | 47.2     |
| 1.53                           | 12.5             | 19.0   | 1145            | 59.2        | 759             | 48.2        | 569            | 39.1        | 25.1                                    | 28.1     | 31.1     | 34.1     | 37.6     | 41.1     | 45.2     | 50.2     |
| 1.56                           | 16.0             | 24.8   | ...             | ...         | 745             | 70.4        | 559            | 58.0        | ...                                     | ...      | ...      | 26.6     | 30.1     | 33.7     | 37.7     | 42.7     |
|                                | 19.0             | 30.0   | ...             | ...         | 732             | 86.9        | 549            | 72.9        | ...                                     | ...      | ...      | ...      | ...      | ...      | 31.0     | 36.1     |
| 1.59                           | 22.4             | 35.5   | ...             | ...         | ...             | ...         | 547            | 88.3        | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |
|                                | 12.5             | 20.0   | 1087            | 59.5        | 721             | 48.3        | 540            | 39.3        | 24.2                                    | 27.2     | 30.3     | 33.3     | 36.8     | 40.3     | 44.3     | 49.3     |
| 1.61                           | 14.0             | 22.4   | 1088            | 70.2        | 721             | 58.2        | 541            | 47.5        | ...                                     | 24.1     | 27.1     | 30.1     | 33.7     | 37.2     | 41.2     | 46.2     |
|                                | 13.2             | 21.2   | 1083            | 64.7        | 718             | 53.0        | 539            | 43.2        | 22.6                                    | 25.7     | 28.7     | 31.7     | 35.3     | 38.8     | 42.8     | 47.8     |
| 1.62                           | 24.8             | 40.0   | ...             | ...         | ...             | ...         | 538            | 98.0        | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |
| 1.66                           | 15.0             | 24.8   | ...             | ...         | 698             | 64.6        | 523            | 52.9        | ...                                     | ...      | 24.2     | 27.3     | 30.9     | 34.4     | 38.4     | 43.5     |
| ARC-LENGTH CORRECTION FACTOR → |                  |        |                 |             |                 |             |                |             | .83                                     | .84      | .85      | .86      | .87      | .88      | .89      | .91      |
| 1.67                           | 18.0             | 30.0   | ...             | ...         | 693             | 81.9        | 520            | 68.2        | ...                                     | ...      | ...      | ...      | ...      | 27.7     | 31.7     | 36.8     |
| 1.68                           | 21.2             | 35.5   | ...             | ...         | 690             | 97.4        | 518            | 83.2        | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |
| 1.71                           | 12.5             | 21.2   | 1025            | 59.7        | 679             | 48.4        | 510            | 39.4        | 23.1                                    | 26.2     | 29.2     | 32.3     | 35.8     | 39.3     | 43.3     | 48.3     |
|                                | 13.2             | 22.4   | 1025            | 65.0        | 679             | 53.1        | 509            | 43.3        | 21.6                                    | 24.6     | 27.7     | 30.7     | 34.2     | 37.8     | 41.8     | 46.8     |
| 1.77                           | 17.0             | 30.0   | ...             | ...         | 654             | 76.5        | 490            | 63.4        | ...                                     | ...      | ...      | ...      | ...      | 28.4     | 32.5     | 37.5     |
| 1.78                           | 14.0             | 24.8   | 982             | 70.6        | 651             | 58.4        | 488            | 47.7        | ...                                     | ...      | 24.9     | 28.0     | 31.6     | 35.1     | 39.2     | 44.2     |
|                                | 20.0             | 35.5   | ...             | ...         | 651             | 92.1        | 488            | 77.9        | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |
| 1.79                           | 22.4             | 40.0   | ...             | ...         | ...             | ...         | 485            | 88.5        | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |
| 1.80                           | 12.5             | 22.4   | 970             | 59.9        | 643             | 48.6        | 482            | 39.5        | 22.0                                    | 25.1     | 28.2     | 31.2     | 34.7     | 38.3     | 42.3     | 47.3     |
|                                | 24.8             | 44.5   | ...             | ...         | ...             | ...         | 483            | 98.3        | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |
| 1.88                           | 19.0             | 35.5   | ...             | ...         | 618             | 87.3        | 463            | 73.2        | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | 31.1     |
| 1.89                           | 13.2             | 24.8   | 925             | 65.3        | 613             | 53.3        | 460            | 43.4        | ...                                     | ...      | 25.5     | 28.6     | 32.1     | 35.7     | 39.7     | 44.8     |
|                                | 16.0             | 30.0   | ...             | ...         | 615             | 70.9        | 461            | 58.4        | ...                                     | ...      | ...      | ...      | ...      | 29.0     | 33.1     | 38.2     |
| 1.90                           | 21.2             | 40.0   | ...             | ...         | 612             | 97.6        | 459            | 83.4        | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |
| 1.98                           | 18.0             | 35.5   | ...             | ...         | 585             | 82.2        | 439            | 68.5        | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | 31.8     |
| 2.00                           | 12.5             | 24.8   | 875             | 60.2        | 580             | 48.7        | 435            | 39.6        | ...                                     | 22.9     | 26.0     | 29.1     | 32.6     | 36.2     | 40.2     | 45.3     |
|                                | 22.4             | 44.5   | ...             | ...         | ...             | ...         | 436            | 88.7        | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |
| 2.01                           | 15.0             | 30.0   | ...             | ...         | 576             | 64.9        | 432            | 53.2        | ...                                     | ...      | ...      | ...      | 26.1     | 29.7     | 33.8     | 38.9     |
|                                | 20.0             | 40.0   | ...             | ...         | 577             | 92.3        | 433            | 78.0        | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |
| 2.10                           | 17.0             | 35.5   | ...             | ...         | 552             | 76.8        | 414            | 63.6        | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | 32.4     |
| 2.11                           | 21.2             | 44.5   | ...             | ...         | 550             | 97.8        | 412            | 83.5        | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |
| 2.12                           | 19.0             | 40.0   | ...             | ...         | 548             | 87.5        | 411            | 73.4        | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |
| 2.15                           | 24.8             | 53.0   | ...             | ...         | ...             | ...         | 405            | 98.5        | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |
| 2.16                           | 14.0             | 30.0   | 810             | 71.1        | 537             | 58.7        | 403            | 47.9        | ...                                     | ...      | ...      | ...      | 26.7     | 30.4     | 34.5     | 39.6     |
| 2.23                           | 16.0             | 35.5   | ...             | ...         | 519             | 71.1        | 389            | 58.5        | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | 33.1     |
| 2.24                           | 18.0             | 40.0   | ...             | ...         | 519             | 82.3        | 389            | 68.6        | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |
|                                | 20.0             | 44.5   | ...             | ...         | 518             | 92.4        | 389            | 78.1        | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |
| 2.29                           | 13.2             | 30.0   | 763             | 65.6        | 506             | 53.6        | 380            | 43.6        | ...                                     | ...      | ...      | ...      | 27.3     | 30.9     | 35.1     | 40.2     |
| 2.36                           | 19.0             | 44.5   | ...             | ...         | 492             | 87.6        | 369            | 73.4        | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |
| 2.37                           | 17.0             | 40.9   | ...             | ...         | 490             | 76.9        | 367            | 63.6        | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |
| ARC-LENGTH CORRECTION FACTOR → |                  |        |                 |             |                 |             |                |             | .80                                     | .80      | .81      | .81      | .82      | .83      | .85      | .87      |

**NOTE:** Arc & Length Factors are approximate values  
 Refer to Selection Procedure for more precise values  
**NOTE:** Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).



**8V** D-V Wedge & POLYBAND Belts

## STOCK DRIVE SELECTIONS

| Speed Ratio | Belt Number and Approx. Center Distance |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|             | 8VX                                     | 8VX  | 8VX  | 8VX  | 8VX  | 8V   | 8V   | 8V   | 8V   | 8V   | 8V   | 8V   | 8V   | 8V   | 8V   | 8V   | 8V   | 8V   | 8V   | 8V   | 8V   |      |
|             | 160                                     | 1700 | 1800 | 1900 | 2000 | 2120 | 2240 | 2360 | 2500 | 2650 | 2800 | 3000 | 3150 | 3350 | 3550 | 3750 | 4000 | 4250 | 4500 | 4750 | 5000 | 5600 |
| 1.36        | 54.0                                    | 59.0 | 64.0 | 69.0 | 74.1 | 80.1 | 86.1 | 92.1 | 99   | 107  | 114  | 124  | 132  | 142  | 152  | 162  | 174  | 187  | 199  | 212  | 224  | 254  |
| 1.37        | 56.8                                    | 61.8 | 66.8 | 71.8 | 76.8 | 82.8 | 88.8 | 94.8 | 102  | 109  | 117  | 127  | 134  | 144  | 154  | 164  | 177  | 189  | 202  | 214  | 227  | 257  |
| 1.38        | 55.5                                    | 60.5 | 65.5 | 70.5 | 75.5 | 81.5 | 87.5 | 93.5 | 101  | 108  | 115  | 125  | 133  | 143  | 153  | 163  | 175  | 186  | 200  | 213  | 225  | 255  |
| 1.41        | 46.3                                    | 51.3 | 56.3 | 61.3 | 66.3 | 72.3 | 78.3 | 84.3 | 91   | 99   | 106  | 116  | 124  | 134  | 144  | 154  | 166  | 179  | 191  | 204  | 216  | 246  |
| 1.42        | 49.8                                    | 54.8 | 59.8 | 64.8 | 69.8 | 75.8 | 81.8 | 87.8 | 95   | 102  | 110  | 120  | 127  | 137  | 147  | 157  | 170  | 182  | 195  | 207  | 220  | 250  |
| 1.42        | 51.5                                    | 56.5 | 61.5 | 66.5 | 71.5 | 77.5 | 83.5 | 89.5 | 97   | 104  | 111  | 121  | 129  | 139  | 149  | 159  | 172  | 184  | 197  | 209  | 222  | 252  |
| 1.43        | 39.6                                    | 44.6 | 49.6 | 54.6 | 59.6 | 65.7 | 71.7 | 77.7 | 85   | 92   | 100  | 110  | 117  | 127  | 137  | 147  | 160  | 172  | 185  | 197  | 210  | 240  |
| 1.43        | 53.2                                    | 58.2 | 63.2 | 68.2 | 73.2 | 79.3 | 85.3 | 91.3 | 98   | 106  | 113  | 123  | 131  | 141  | 151  | 161  | 173  | 186  | 198  | 211  | 223  | 253  |
| 1.45        | ...                                     | 37.3 | 42.3 | 47.3 | 52.4 | 58.4 | 64.4 | 70.4 | 77   | 85   | 92   | 102  | 110  | 120  | 130  | 140  | 152  | 165  | 178  | 190  | 203  | 233  |
| 1.45        | 56.0                                    | 61.0 | 66.0 | 71.0 | 76.0 | 82.0 | 88.0 | 94.0 | 101  | 108  | 116  | 126  | 133  | 143  | 153  | 163  | 176  | 188  | 201  | 213  | 226  | 256  |
| 1.46        | 54.6                                    | 59.7 | 64.7 | 69.7 | 74.7 | 80.7 | 86.7 | 92.7 | 100  | 107  | 115  | 125  | 132  | 142  | 152  | 162  | 175  | 187  | 200  | 212  | 225  | 255  |
| 1.46        | 47.0                                    | 52.0 | 57.0 | 62.0 | 67.1 | 73.1 | 79.1 | 85.1 | 92   | 100  | 107  | 117  | 125  | 135  | 145  | 155  | 167  | 180  | 192  | 205  | 217  | 247  |
| 1.50        | 50.5                                    | 55.5 | 60.5 | 65.5 | 70.5 | 76.6 | 82.6 | 88.6 | 96   | 103  | 111  | 121  | 128  | 138  | 148  | 158  | 171  | 183  | 196  | 208  | 221  | 251  |
| 1.51        | 40.4                                    | 45.5 | 50.5 | 55.5 | 60.5 | 66.6 | 72.6 | 78.6 | 86   | 93   | 101  | 111  | 118  | 128  | 138  | 148  | 161  | 173  | 186  | 198  | 211  | 241  |
| 1.52        | 53.8                                    | 58.8 | 63.8 | 68.8 | 73.9 | 79.9 | 85.9 | 91.9 | 99   | 106  | 114  | 124  | 131  | 141  | 151  | 161  | 174  | 186  | 199  | 211  | 224  | 254  |
| 1.52        | 52.2                                    | 57.3 | 62.3 | 67.3 | 72.3 | 78.3 | 84.3 | 90.3 | 97   | 105  | 112  | 122  | 130  | 140  | 150  | 160  | 172  | 185  | 197  | 210  | 222  | 252  |
| 1.53        | 55.2                                    | 60.2 | 65.2 | 70.2 | 75.2 | 81.2 | 87.2 | 93.2 | 100  | 108  | 115  | 125  | 133  | 143  | 153  | 163  | 175  | 188  | 200  | 213  | 225  | 255  |
| 1.56        | 47.8                                    | 52.8 | 57.8 | 62.8 | 67.8 | 73.8 | 79.8 | 85.8 | 93   | 100  | 108  | 118  | 125  | 135  | 145  | 155  | 168  | 180  | 193  | 205  | 218  | 248  |
| 1.59        | 41.1                                    | 46.2 | 51.2 | 56.2 | 61.3 | 67.3 | 73.3 | 79.3 | 86   | 94   | 101  | 111  | 119  | 129  | 139  | 149  | 161  | 174  | 186  | 199  | 211  | 241  |
| 1.59        | 33.9                                    | 39.0 | 44.0 | 49.1 | 54.1 | 60.2 | 66.2 | 72.2 | 79   | 87   | 94   | 104  | 111  | 122  | 132  | 142  | 154  | 167  | 179  | 192  | 204  | 234  |
| 1.61        | 54.4                                    | 59.4 | 64.4 | 69.4 | 74.4 | 80.4 | 86.4 | 92.4 | 99   | 107  | 114  | 124  | 131  | 142  | 151  | 162  | 174  | 187  | 199  | 212  | 224  | 254  |
| 1.61        | 51.3                                    | 56.3 | 61.3 | 66.3 | 71.3 | 77.3 | 83.3 | 89.3 | 96   | 104  | 111  | 121  | 129  | 139  | 149  | 159  | 171  | 184  | 196  | 209  | 221  | 251  |
| 1.62        | 52.8                                    | 57.9 | 62.9 | 67.9 | 72.9 | 78.9 | 84.9 | 90.9 | 98   | 105  | 113  | 123  | 130  | 140  | 150  | 160  | 173  | 185  | 198  | 210  | 223  | 253  |
| 1.66        | ...                                     | ...  | 36.4 | 43.8 | 48.5 | 54.6 | 60.6 | 66.7 | 74   | 81   | 89   | 99   | 106  | 116  | 126  | 136  | 149  | 161  | 174  | 186  | 199  | 229  |
| 1.66        | 48.5                                    | 53.5 | 58.4 | 63.6 | 68.6 | 74.6 | 80.6 | 86.6 | 94   | 101  | 109  | 119  | 126  | 136  | 146  | 156  | 169  | 181  | 194  | 206  | 219  | 249  |
| .92         | .93                                     | .94  | .95  | .95  | .96  | .97  | .98  | .99  | 1.00 | 1.01 | 1.02 | 1.03 | 1.04 | 1.04 | 1.05 | 1.06 | 1.07 | 1.08 | 1.09 | 1.10 | 1.11 |      |
| 1.67        | 41.9                                    | 46.9 | 52.0 | 57.0 | 62.0 | 68.0 | 74.1 | 80.1 | 87   | 95   | 102  | 112  | 120  | 130  | 140  | 150  | 162  | 175  | 187  | 200  | 212  | 242  |
| 1.68        | 34.7                                    | 39.8 | 44.9 | 50.0 | 55.0 | 61.0 | 67.1 | 73.1 | 80   | 88   | 95   | 105  | 113  | 123  | 133  | 143  | 155  | 168  | 180  | 193  | 205  | 235  |
| 1.71        | ...                                     | 58.4 | 63.4 | 68.4 | 73.4 | 79.4 | 85.4 | 91.4 | 98   | 106  | 113  | 123  | 131  | 141  | 151  | 161  | 173  | 186  | 198  | 211  | 223  | 253  |
| 1.71        | 51.8                                    | 56.9 | 61.9 | 66.9 | 71.9 | 77.9 | 83.9 | 89.9 | 97   | 104  | 112  | 122  | 129  | 139  | 149  | 159  | 172  | 184  | 197  | 209  | 222  | 252  |
| 1.77        | 42.6                                    | 47.7 | 52.7 | 57.7 | 62.8 | 68.8 | 74.8 | 80.8 | 88   | 95   | 103  | 113  | 120  | 130  | 140  | 150  | 163  | 175  | 188  | 200  | 213  | 243  |
| 1.78        | 49.2                                    | 54.3 | 59.3 | 64.3 | 69.3 | 75.3 | 81.3 | 87.4 | 94   | 102  | 109  | 119  | 127  | 137  | 147  | 157  | 169  | 182  | 194  | 207  | 219  | 249  |
| 1.78        | 35.6                                    | 40.7 | 45.8 | 50.8 | 55.9 | 61.9 | 68.0 | 74.0 | 81   | 89   | 96   | 106  | 114  | 124  | 134  | 144  | 156  | 169  | 181  | 194  | 206  | 236  |
| 1.79        | ...                                     | 34.9 | 40.0 | 45.1 | 50.2 | 56.3 | 62.4 | 68.4 | 76   | 83   | 91   | 101  | 108  | 118  | 128  | 138  | 151  | 163  | 176  | 186  | 201  | 231  |
| 1.80        | 52.4                                    | 57.4 | 62.4 | 67.4 | 72.4 | 78.4 | 84.4 | 90.5 | 97   | 105  | 112  | 122  | 130  | 140  | 150  | 160  | 172  | 185  | 197  | 210  | 225  | 252  |
| 1.80        | ...                                     | ...  | ...  | 39.3 | 44.5 | 50.6 | 56.7 | 62.8 | 70   | 77   | 85   | 95   | 103  | 113  | 123  | 133  | 145  | 158  | 170  | 183  | 195  | 225  |
| 1.88        | 36.3                                    | 41.4 | 46.5 | 51.5 | 56.6 | 62.7 | 68.7 | 74.7 | 82   | 89   | 97   | 107  | 114  | 124  | 134  | 144  | 157  | 169  | 182  | 194  | 207  | 237  |
| 1.89        | 49.8                                    | 54.8 | 59.9 | 64.9 | 69.9 | 75.9 | 81.9 | 88.0 | 95   | 102  | 110  | 120  | 127  | 137  | 147  | 157  | 170  | 183  | 195  | 208  | 220  | 250  |
| 1.89        | 43.3                                    | 48.4 | 53.4 | 58.5 | 63.5 | 69.5 | 75.5 | 81.6 | 89   | 96   | 104  | 114  | 121  | 131  | 141  | 151  | 164  | 176  | 189  | 201  | 214  | 244  |
| 1.90        | ...                                     | 35.7 | 40.9 | 46.0 | 51.1 | 57.2 | 63.2 | 69.3 | 76   | 84   | 91   | 101  | 109  | 119  | 129  | 139  | 152  | 164  | 177  | 189  | 202  | 232  |
| 1.98        | 36.9                                    | 42.1 | 47.2 | 52.2 | 57.3 | 63.4 | 69.4 | 75.5 | 82   | 90   | 98   | 108  | 115  | 125  | 135  | 145  | 158  | 170  | 183  | 195  | 208  | 238  |
| 2.00        | 50.3                                    | 55.4 | 60.4 | 65.4 | 70.4 | 76.5 | 82.5 | 88.5 | 95   | 103  | 111  | 120  | 128  | 138  | 148  | 158  | 171  | 183  | 196  | 208  | 221  | 251  |
| 2.00        | ...                                     | ...  | ...  | 41.0 | 46.1 | 52.3 | 58.4 | 64.5 | 72   | 79   | 87   | 97   | 104  | 114  | 124  | 134  | 147  | 160  | 172  | 185  | 197  | 227  |
| 2.01        | 44.0                                    | 49.1 | 54.1 | 59.2 | 64.2 | 70.3 | 76.3 | 82.3 | 89   | 97   | 104  | 114  | 122  | 132  | 142  | 152  | 164  | 177  | 189  | 202  | 214  | 244  |
| 2.01        | ...                                     | 36.5 | 41.7 | 46.8 | 51.9 | 58.0 | 64.1 | 70.2 | 77   | 85   | 92   | 102  | 110  | 120  | 130  | 140  | 152  | 165  | 178  | 190  | 203  | 233  |
| 2.10        | 37.6                                    | 42.8 | 47.9 | 53.0 | 58.0 | 64.1 | 70.2 | 76.2 | 83   | 91   | 98   | 108  | 116  | 126  | 136  | 146  | 158  | 171  | 183  | 196  | 209  | 237  |
| 2.11        | ...                                     | ...  | 36.5 | 41.8 | 47.0 | 53.1 | 59.3 | 65.4 | 72   | 80   | 88   | 98   | 105  | 115  | 125  | 135  | 148  | 160  | 173  | 185  | 198  | 228  |
| 2.12        | ...                                     | 37.2 | 42.4 | 47.5 | 52.6 | 58.7 | 64.8 | 70.9 | 78   | 85   | 93   | 103  | 111  | 121  | 131  | 141  | 153  | 166  | 178  | 191  | 203  | 233  |
| 2.15        | ...                                     | ...  | ...  | ...  | ...  | 42.6 | 48.9 | 55.1 | 62   | 70   | 78   | 88   | 95   | 105  | 115  | 126  | 138  | 151  | 163  | 176  | 188  | 218  |
| 2.16        | 44.7                                    | 44.8 | 54.9 | 59.9 | 64.9 | 71.0 | 77.0 | 83.1 | 90   | 98   | 105  | 115  | 123  | 133  | 143  | 153  | 165  | 178  | 190  | 203  | 215  | 245  |
| 2.23        | 38.3                                    | 43.5 | 48.6 | 53.7 | 58.7 | 64.8 | 70.9 | 76.9 | 84   | 91   | 99   | 109  | 117  | 127  | 137  | 147  | 159  | 172  | 184  | 197  | 209  | 239  |
| 2.24        | ...                                     | 37.8 | 43.0 | 48.2 | 53.3 | 59.4 | 65.5 | 71.6 | 79   | 86   | 94   | 104  | 111  | 121  | 131  | 141  | 154  | 167  | 179  | 192  | 204  | 234  |
| 2.24        | ...                                     | ...  | 37.3 | 42.6 | 47.8 | 54.0 | 60.1 | 66.2 | 73   | 81   | 89   | 99   | 106  | 116  | 126  | 136  | 149  | 161  | 174  | 186  | 199  | 229  |
| 2.29        | 45.3                                    | 50.4 | 55.4 | 60.5 | 65.5 | 71.6 | 77.6 | 83.6 | 91   | 98   | 106  | 116  | 123  | 133  | 143  | 153  | 166  | 178  | 191  | 203  | 216  | 246  |
| 2.36        | ...                                     | ...  | 38.0 | 43.2 | 48.4 | 54.6 | 60.8 | 66.9 | 74   | 82   | 89   | 99   | 107  | 117  | 127  | 137  | 150  | 162  | 175  | 187  | 120  | 230  |
| 2.37        | 33.2                                    | 38.5 | 43.7 | 48.9 | 54.0 | 60.1 | 66.2 | 72.3 | 79   | 87   | 95   | 105  | 112  | 122  | 132  | 142  | 155  | 167  | 180  | 192  | 205  | 235  |
| .89         | .90                                     | .91  | .92  | .93  | .94  | .96  | .96  | .98  | .99  | 1.00 | 1.01 | 1.02 | 1.03 | 1.04 | 1.04 | 1.05 | 1.06 | 1.07 | 1.08 | 1.09 | 1.11 |      |

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets



# SELECTION

## STOCK DRIVE SELECTIONS

**8V**

D-V Wedge & POLYBAND Belts

| Speed Ratio                    | Stock Sheaves (4, 5, 6, 8, 10, 12 Grooves) |        | 1750 RPM Driver |                | 1160 RPM Driver |                | 870 RPM Driver |                | Belt Number and Approx. Center Distance |          |          |          |          |          |          |          |     |
|--------------------------------|--|--------|-----------------|----------------|-----------------|----------------|----------------|----------------|---|----------|----------|----------|----------|----------|----------|----------|-----|
|                                | Outside Diameter                           |        | Driven RPM      | HP Per Belt 8V | Driven RPM      | HP Per Belt 8V | Driven RPM     | HP Per Belt 8V | 8VX 1250                                | 8VX 1320 | 8VX 1400 | 8VX 1500 | 8VX 1600 | 8VX 1700 | 8VX 1800 | 8VX 1900 |     |
|                                | Driver                                     | Driven |                 |                |                 |                |                |                |   |          |          |          |          |          |          |          |     |
| 2.38                           | 22.4                                       | 53.0   | ...             | ...            | ...             | ...            | 366            | 88.8           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| 2.39                           | 15.0                                       | 35.5   | ...             | ...            | 486             | 65.1           | 365            | 53.            | ...                                     | ...      | ...      | 33.8     | 39.0     | 44.1     | 49.3     | 54.4     |     |
| 2.42                           | 12.5                                       | 30.0   | 722             | 60.5           | 479             | 48.9           | 359            | 39.8           | 27.7                                    | 31.4     | 35.5     | 40.7     | 45.8     | 50.9     | 55.9     | 61.0     |     |
| 2.49                           | 18.0                                       | 44.5   | ...             | ...            | 466             | 82.4           | 350            | 68.6           | ...                                     | ...      | ...      | ...      | ...      | ...      | 38.6     | 43.9     |     |
| 2.51                           | 21.2                                       | 53.0   | ...             | ...            | 461             | 97.9           | 346            | 83.6           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| 2.52                           | 16.0                                       | 40.0   | ...             | ...            | 461             | 71.2           | 345            | 58.6           | ...                                     | ...      | ...      | ...      | 33.9     | 39.2     | 44.4     | 49.6     |     |
| 2.55                           | 24.8                                       | 63.0   | ...             | ...            | ...             | ...            | 341            | 98.6           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| 2.56                           | 14.0                                       | 35.5   | 684             | 71.3           | 453             | 58.9           | 340            | 48.0           | ...                                     | ...      | 29.1     | 34.4     | 39.7     | 44.8     | 50.0     | 55.1     |     |
| 2.64                           | 17.0                                       | 44.5   | ...             | ...            | 440             | 77.0           | 330            | 63.7           | ...                                     | ...      | ...      | ...      | ...      | ...      | 39.3     | 44.6     |     |
| 2.67                           | 20.0                                       | 53.0   | ...             | ...            | 435             | 92.5           | 326            | 78.2           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| 2.69                           | 15.0                                       | 40.0   | ...             | ...            | 431             | 65.2           | 324            | 53.4           | ...                                     | ...      | ...      | ...      | 34.5     | 39.8     | 45.1     | 50.2     |     |
| 2.72                           | 13.2                                       | 35.5   | 644             | 65.            | 427             | 53.7           | 320            | 43.7           | ...                                     | ...      | 29.7     | 35.0     | 40.2     | 45.4     | 50.5     | 55.6     |     |
| 2.80                           | 16.0                                       | 44.5   | ...             | ...            | 414             | 71.            | 310            | 58.6           | ...                                     | ...      | ...      | ...      | ...      | 34.5     | 39.9     | 45.2     |     |
| 2.81                           | 19.0                                       | 53.0   | ...             | ...            | 413             | 87.7           | 310            | 73.5           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| 2.83                           | 22.4                                       | 63.0   | ...             | ...            | ...             | ...            | 308            | 88.9           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| 2.87                           | 12.5                                       | 35.5   | 610             | 60.            | 404             | 49.            | 303            | 39.8           | ...                                     | ...      | 30.1     | 35.4     | 40.7     | 45.9     | 51.0     | 56.1     |     |
| 2.88                           | 14.0                                       | 40.0   | 607             | 71.4           | 402             | 58.            | 302            | 48.1           | ...                                     | ...      | ...      | ...      | 35.2     | 40.5     | 45.7     | 50.9     |     |
| 2.88                           | 24.8                                       | 71.0   | ...             | ...            | ...             | ...            | 302            | 98.6           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| 2.97                           | 18.0                                       | 53.0   | ...             | ...            | 391             | 82.            | 293            | 68.7           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| 2.99                           | 15.0                                       | 44.5   | ...             | ...            | 388             | 65.2           | 291            | 53.4           | ...                                     | ...      | ...      | ...      | ...      | 35.2     | 40.6     | 45.9     |     |
| ARC-LENGTH CORRECTION FACTOR → |  |        |                 |                |                 |                |                |                | .80                                     | .81      | .82      | .83      | .86      | .87      | .88      | .90      |     |
| 2.99                           | 21.2                                       | 63.0   | ...             | ...            | 388             | 98.0           | 291            | 83.7           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| 3.06                           | 13.2                                       | 40.0   | 572             | 65.9           | 379             | 53.7           | 284            | 43.7           | ...                                     | ...      | ...      | 30.2     | 35.7     | 41.0     | 46.3     | 51.5     |     |
| 3.14                           | 17.0                                       | 53.0   | ...             | ...            | 369             | 77.0           | 277            | 63.7           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| 3.17                           | 20.0                                       | 63.0   | ...             | ...            | 366             | 92.6           | 274            | 78.2           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| 3.19                           | 22.4                                       | 71.0   | ...             | ...            | ...             | ...            | 273            | 88.9           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| 3.21                           | 14.0                                       | 44.5   | 545             | 71.4           | 361             | 58.9           | 271            | 48.1           | ...                                     | ...      | ...      | ...      | ...      | 35.8     | 41.2     | 46.6     |     |
| 3.24                           | 12.5                                       | 40.0   | 541             | 60.7           | 358             | 49.0           | 269            | 39.9           | ...                                     | ...      | ...      | 30.7     | 36.2     | 41.5     | 46.7     | 51.9     |     |
| 3.34                           | 16.0                                       | 53.0   | ...             | ...            | 347             | 71.3           | 260            | 58.7           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| 3.34                           | 19.0                                       | 63.0   | ...             | ...            | 347             | 87.7           | 260            | 73.6           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| 3.37                           | 21.2                                       | 71.0   | ...             | ...            | 344             | 98.0           | 258            | 83.7           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| ARC-LENGTH CORRECTION FACTOR → |  |        |                 |                |                 |                |                |                | ...                                     | ...      | ...      | .78      | .82      | .85      | .87      | .88      |     |
| 3.41                           | 13.2                                       | 44.5   | 514             | 65.9           | 340             | 53.8           | 255            | 43.7           | ...                                     | ...      | ...      | ...      | ...      | 36.3     | 41.7     | 47.1     |     |
| 3.53                           | 18.0                                       | 63.0   | ...             | ...            | 329             | 82.6           | 247            | 68.7           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| 3.57                           | 15.0                                       | 53.0   | ...             | ...            | 325             | 65.3           | 244            | 53.5           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| 3.58                           | 20.0                                       | 71.0   | ...             | ...            | 324             | 92.6           | 243            | 78.3           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| 3.60                           | 12.5                                       | 44.5   | 486             | 60.7           | 322             | 49.1           | 242            | 39.9           | ...                                     | ...      | ...      | ...      | ...      | 36.7     | 42.2     | 47.5     |     |
| ARC-LENGTH CORRECTION FACTOR → |  |        |                 |                |                 |                |                |                | ...                                     | ...      | ...      | ...      | ...      | ...      | .81      | .84      | .88 |
| 3.74                           | 17.0                                       | 63.0   | ...             | ...            | 310             | 77.1           | 233            | 63.8           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| 3.77                           | 19.0                                       | 71.0   | ...             | ...            | 308             | 87.8           | 231            | 73.6           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| 3.83                           | 14.0                                       | 53.0   | 457             | 71.5           | 303             | 59.0           | 227            | 48.1           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | 37.3     |     |
| 3.97                           | 16.0                                       | 63.0   | ...             | ...            | 292             | 71.3           | 219            | 58.7           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| 3.98                           | 18.0                                       | 71.0   | ...             | ...            | 292             | 82.6           | 219            | 68.8           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| 4.06                           | 13.2                                       | 53.0   | 431             | 66.0           | 286             | 53.8           | 214            | 43.8           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| 4.21                           | 17.0                                       | 71.0   | ...             | ...            | 275             | 77.1           | 206            | 63.8           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| 4.24                           | 15.0                                       | 63.0   | ...             | ...            | 273             | 65.1           | 205            | 53.5           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| 4.29                           | 12.5                                       | 53.0   | 408             | 60.8           | 270             | 49.1           | 203            | 39.9           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | 38.2     |     |
| 4.48                           | 16.0                                       | 71.0   | ...             | ...            | 259             | 71.3           | 194            | 58.7           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| 4.55                           | 14.0                                       | 63.0   | 385             | 71.5           | 255             | 59.0           | 191            | 48.1           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| 4.78                           | 15.0                                       | 71.0   | ...             | ...            | 242             | 65.3           | 182            | 53.5           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| ARC-LENGTH CORRECTION FACTOR → |  |        |                 |                |                 |                |                |                | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | .77      |     |
| 4.83                           | 13.2                                       | 63.0   | 362             | 66.0           | 240             | 53.8           | 180            | 43.8           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| 5.11                           | 12.5                                       | 63.0   | 343             | 60.8           | 227             | 49.1           | 170            | 39.9           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| 5.13                           | 14.0                                       | 71.0   | 341             | 71.5           | 226             | 59.0           | 170            | 48.1           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| 5.45                           | 13.2                                       | 71.0   | 321             | 66.0           | 213             | 53.8           | 160            | 43.8           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| 5.76                           | 12.5                                       | 71.0   | 304             | 60.8           | 202             | 49.1           | 151            | 39.9           | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |
| ARC-LENGTH CORRECTION FACTOR → |  |        |                 |                |                 |                |                |                | ...                                     | ...      | ...      | ...      | ...      | ...      | ...      | ...      |     |

**NOTE:** Arc & Length Factors are approximate values  
Refer to Selection Procedure for more precise values

**NOTE:** Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

V-Drives

FHP Drives

Drive Component Accessories

DVNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets





**8V** D-V Wedge & POLYBAND Belts

## STOCK DRIVE SELECTIONS

| Speed Ratio | Belt Number and Approx. Center Distance |            |            |            |            |            |            |             |             |             |             |             |             |             |             |             |             |             |
|-------------|---|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|             | 8V 2000                                 | 8V 2120    | 8V 2240    | 8V 2360    | 8V 2500    | 8V 2650    | 8V 2800    | 8V 3000     | 8V 3150     | 8V 3350     | 8V 3550     | 8V 3750     | 8V 4000     | 8V 4250     | 8V 4500     | 8V 4750     | 8V 5000     | 8V 5600     |
| 2.38        | ...                                     | 44.1       | 50.5       | 56.7       | 64         | 72         | 79         | 89          | 97          | 107         | 117         | 127         | 140         | 152         | 165         | 178         | 190         | 220         |
| 2.39        | 59.5                                    | 65.5       | 71.6       | 77.7       | 85         | 92         | 100        | 110         | 117         | 127         | 137         | 147         | 160         | 172         | 185         | 197         | 210         | 240         |
| 2.42        | 66.0                                    | 72.1       | 78.1       | 84.2       | 91         | 99         | 106        | 116         | 124         | 134         | 144         | 154         | 166         | 179         | 191         | 204         | 216         | 246         |
| 2.49        | 49.1                                    | 55.3       | 61.5       | 67.6       | 75         | 82         | 90         | 100         | 108         | 118         | 128         | 138         | 150         | 163         | 175         | 188         | 200         | 230         |
| 2.51        | ...                                     | 44.9       | 51.3       | 57.5       | 65         | 72         | 80         | 90          | 98          | 108         | 118         | 128         | 141         | 153         | 166         | 178         | 191         | 221         |
| 2.52        | 54.7                                    | 60.8       | 66.9       | 73.0       | 80         | 88         | 95         | 105         | 113         | 123         | 133         | 143         | 156         | 168         | 181         | 193         | 206         | 236         |
| 2.55        | ...                                     | ...        | ...        | ...        | 53         | 60         | 68         | 79          | 86          | 97          | 107         | 117         | 130         | 142         | 156         | 167         | 180         | 210         |
| 2.56        | 60.2                                    | 66.3       | 72.3       | 78.4       | 85         | 93         | 100        | 111         | 118         | 128         | 138         | 148         | 161         | 173         | 186         | 198         | 211         | 241         |
| 2.64        | 49.8                                    | 56.0       | 62.2       | 68.3       | 75         | 83         | 91         | 101         | 108         | 118         | 128         | 138         | 151         | 164         | 176         | 189         | 201         | 231         |
| 2.67        | ...                                     | 45.7       | 52.1       | 58.3       | 66         | 73         | 81         | 91          | 99          | 109         | 119         | 129         | 142         | 154         | 167         | 179         | 192         | 222         |
| 2.69        | 55.4                                    | 61.5       | 67.6       | 73.7       | 81         | 88         | 96         | 106         | 114         | 124         | 134         | 144         | 156         | 168         | 181         | 194         | 206         | 236         |
| 2.72        | 60.7                                    | 66.8       | 72.9       | 79.0       | 86         | 94         | 101        | 111         | 119         | 129         | 139         | 149         | 161         | 174         | 186         | 199         | 211         | 241         |
| 2.80        | 50.5                                    | 56.7       | 62.9       | 69.0       | 76         | 84         | 91         | 101         | 109         | 119         | 129         | 139         | 152         | 164         | 177         | 189         | 202         | 232         |
| 2.81        | 39.8                                    | 46.3       | 52.7       | 59.0       | 66         | 74         | 82         | 92          | 99          | 110         | 120         | 130         | 142         | 155         | 168         | 180         | 193         | 223         |
| 2.83        | ...                                     | ...        | ...        | 46.5       | 54         | 62         | 70         | 80          | 88          | 98          | 108         | 119         | 131         | 144         | 157         | 169         | 182         | 212         |
| 2.87        | 61.2                                    | 67.3       | 73.4       | 79.5       | 86         | 94         | 102        | 112         | 119         | 129         | 139         | 149         | 162         | 174         | 187         | 199         | 212         | 242         |
| 2.88        | 56.1                                    | 62.2       | 68.4       | 74.5       | 82         | 89         | 97         | 107         | 114         | 124         | 134         | 144         | 157         | 170         | 182         | 195         | 207         | 237         |
| 2.97        | 40.5                                    | 47.0       | 53.4       | 59.7       | 67         | 75         | 82         | 93          | 100         | 110         | 120         | 131         | 143         | 156         | 168         | 181         | 193         | 224         |
| 2.99        | 51.1                                    | 57.4       | 63.6       | 69.7       | 77         | 84         | 92         | 102         | 110         | 120         | 130         | 140         | 153         | 165         | 178         | 190         | 203         | 233         |
|             | <b>.92</b>                              | <b>.93</b> | <b>.94</b> | <b>.95</b> | <b>.96</b> | <b>.97</b> | <b>.99</b> | <b>1.00</b> | <b>1.01</b> | <b>1.02</b> | <b>1.03</b> | <b>1.04</b> | <b>1.05</b> | <b>1.06</b> | <b>1.07</b> | <b>1.08</b> | <b>1.09</b> | <b>1.10</b> |
| 2.99        | ...                                     | ...        | ...        | 47.2       | 55         | 63         | 71         | 81          | 89          | 99          | 109         | 119         | 132         | 145         | 157         | 170         | 183         | 213         |
| 3.06        | 56.6                                    | 62.8       | 68.9       | 75.0       | 82         | 90         | 97         | 107         | 115         | 125         | 135         | 145         | 158         | 170         | 183         | 195         | 208         | 238         |
| 3.14        | 41.4                                    | 47.6       | 54.0       | 60.3       | 68         | 75         | 83         | 93          | 101         | 111         | 121         | 131         | 144         | 156         | 169         | 182         | 194         | 224         |
| 3.17        | ...                                     | ...        | ...        | 48.0       | 56         | 64         | 72         | 82          | 90          | 100         | 110         | 120         | 133         | 146         | 158         | 171         | 184         | 214         |
| 3.19        | ...                                     | ...        | ...        | ...        | ...        | 54         | 62         | 73          | 81          | 91          | 101         | 111         | 124         | 137         | 150         | 162         | 175         | 205         |
| 3.21        | 51.8                                    | 58.1       | 64.2       | 70.4       | 78         | 85         | 93         | 103         | 111         | 121         | 131         | 141         | 153         | 166         | 178         | 191         | 203         | 234         |
| 3.24        | 57.1                                    | 63.3       | 69.4       | 75.5       | 83         | 90         | 98         | 108         | 115         | 125         | 136         | 146         | 158         | 171         | 183         | 196         | 208         | 233         |
| 3.34        | 41.7                                    | 48.3       | 54.7       | 61.0       | 68         | 76         | 84         | 94          | 102         | 112         | 122         | 132         | 145         | 157         | 170         | 182         | 195         | 225         |
| 3.37        | ...                                     | ...        | ...        | 48.6       | 56         | 64         | 72         | 83          | 90          | 101         | 111         | 121         | 134         | 146         | 159         | 172         | 184         | 214         |
|             | <b>.90</b>                              | <b>.91</b> | <b>.93</b> | <b>.94</b> | <b>.95</b> | <b>.97</b> | <b>.96</b> | <b>.99</b>  | <b>1.00</b> | <b>1.01</b> | <b>1.02</b> | <b>1.03</b> | <b>1.04</b> | <b>1.05</b> | <b>1.06</b> | <b>1.07</b> | <b>1.08</b> | <b>1.10</b> |
| 3.41        | 52.3                                    | 58.6       | 64.8       | 71.0       | 78         | 86         | 93         | 104         | 111         | 121         | 131         | 141         | 154         | 166         | 179         | 191         | 204         | 234         |
| 3.53        | ...                                     | ...        | ...        | 49.2       | 57         | 65         | 73         | 83          | 91          | 101         | 112         | 122         | 134         | 147         | 160         | 172         | 185         | 215         |
| 3.57        | 42.3                                    | 48.9       | 55.3       | 61.7       | 69         | 77         | 84         | 95          | 102         | 112         | 123         | 133         | 145         | 158         | 170         | 183         | 196         | 226         |
| 3.58        | ...                                     | ...        | ...        | ...        | ...        | 55         | 63         | 74          | 82          | 92          | 103         | 113         | 126         | 139         | 151         | 164         | 177         | 207         |
| 3.60        | 52.8                                    | 59.1       | 65.3       | 71.4       | 79         | 86         | 94         | 104         | 112         | 122         | 132         | 142         | 154         | 167         | 179         | 192         | 204         | 235         |
|             | <b>.88</b>                              | <b>.90</b> | <b>.91</b> | <b>.93</b> | <b>.94</b> | <b>.96</b> | <b>.97</b> | <b>.98</b>  | <b>.99</b>  | <b>1.01</b> | <b>1.02</b> | <b>1.03</b> | <b>1.04</b> | <b>1.05</b> | <b>1.06</b> | <b>1.07</b> | <b>1.08</b> | <b>1.10</b> |
| 3.74        | ...                                     | ...        | ...        | 49.9       | 58         | 66         | 74         | 84          | 92          | 102         | 112         | 122         | 135         | 148         | 160         | 173         | 186         | 216         |
| 3.77        | ...                                     | ...        | ...        | ...        | ...        | 56         | 64         | 75          | 83          | 93          | 104         | 114         | 127         | 139         | 152         | 165         | 177         | 208         |
| 3.83        | 43.0                                    | 49.5       | 56.0       | 62.3       | 70         | 77         | 85         | 95          | 103         | 113         | 123         | 133         | 146         | 159         | 171         | 184         | 196         | 226         |
| 3.97        | ...                                     | ...        | 43.6       | 50.5       | 58         | 66         | 74         | 85          | 92          | 103         | 113         | 123         | 135         | 149         | 161         | 174         | 186         | 217         |
| 3.98        | ...                                     | ...        | ...        | ...        | ...        | 56         | 65         | 75          | 83          | 94          | 104         | 114         | 127         | 140         | 153         | 165         | 178         | 208         |
| 4.06        | 43.4                                    | 50.1       | 56.5       | 62.9       | 70         | 78         | 86         | 96          | 104         | 114         | 124         | 134         | 147         | 159         | 172         | 184         | 197         | 227         |
| 4.21        | ...                                     | ...        | ...        | ...        | 48         | 57         | 65         | 76          | 84          | 94          | 105         | 115         | 128         | 141         | 153         | 166         | 179         | 209         |
| 4.24        | ...                                     | ...        | 44.2       | 51.1       | 59         | 67         | 75         | 85          | 93          | 103         | 114         | 124         | 137         | 149         | 162         | 175         | 187         | 217         |
| 4.29        | 43.9                                    | 50.5       | 57.0       | 63.3       | 71         | 78         | 86         | 96          | 104         | 114         | 124         | 134         | 147         | 160         | 172         | 185         | 197         | 228         |
| 4.48        | ...                                     | ...        | ...        | ...        | 49         | 58         | 66         | 77          | 85          | 95          | 106         | 116         | 129         | 141         | 154         | 167         | 180         | 210         |
| 4.55        | ...                                     | ...        | 44.8       | 51.7       | 59         | 68         | 76         | 86          | 94          | 104         | 114         | 125         | 137         | 150         | 163         | 175         | 188         | 218         |
| 4.78        | ...                                     | ...        | ...        | ...        | 49         | 58         | 67         | 77          | 85          | 96          | 106         | 117         | 129         | 142         | 155         | 168         | 180         | 211         |
|             | <b>.81</b>                              | <b>.85</b> | <b>.87</b> | <b>.89</b> | <b>.91</b> | <b>.93</b> | <b>.95</b> | <b>.96</b>  | <b>.98</b>  | <b>.99</b>  | <b>1.00</b> | <b>1.01</b> | <b>1.03</b> | <b>1.04</b> | <b>1.05</b> | <b>1.06</b> | <b>1.07</b> | <b>1.09</b> |
| 4.83        | ...                                     | ...        | 45.3       | 52.2       | 60         | 68         | 76         | 87          | 94          | 105         | 115         | 125         | 138         | 151         | 163         | 176         | 188         | 219         |
| 5.11        | ...                                     | ...        | 45.7       | 52.6       | 60         | 69         | 76         | 87          | 95          | 105         | 115         | 126         | 138         | 151         | 164         | 176         | 189         | 219         |
| 5.13        | ...                                     | ...        | ...        | ...        | 50         | 59         | 67         | 78          | 86          | 96          | 107         | 117         | 130         | 143         | 156         | 168         | 181         | 211         |
| 5.45        | ...                                     | ...        | ...        | ...        | 51         | 59         | 68         | 79          | 86          | 97          | 107         | 118         | 131         | 143         | 156         | 169         | 182         | 2120        |
| 5.76        | ...                                     | ...        | ...        | ...        | 51         | 60         | 68         | 79          | 87          | 97          | 108         | 118         | 131         | 144         | 157         | 169         | 182         | 212         |
|             | <b>.79</b>                              | <b>.80</b> | <b>.82</b> | <b>.84</b> | <b>.87</b> | <b>.91</b> | <b>.93</b> | <b>.95</b>  | <b>.97</b>  | <b>.98</b>  | <b>1.00</b> | <b>1.02</b> | <b>1.03</b> | <b>1.04</b> | <b>1.05</b> | <b>1.08</b> | <b>1.10</b> |             |

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).





# SELECTION

## 3VX BASIC HORSEPOWER RATINGS $\Delta$

| Faster Shaft RPM | Rated HP per belt for Small Sheave O.D. of: |          |         |         |          |          |          |          |         |          |         |
|------------------|---|----------|---------|---------|----------|----------|----------|----------|---------|----------|---------|
|                  | 2.2 3VX                                     | 2.65 3VX | 2.8 3VX | 3.0 3VX | 3.15 3VX | 3.35 3VX | 3.65 3VX | 4.12 3VX | 4.5 3VX | 4.75 3VX | 5.0 3VX |
| 575              | .55   | .83      | .92     | 1.04    | 1.13     | 1.25     | 1.43     | 1.72     | 1.94    | 2.09     | 2.24    |
| 690              | .64   | .97      | 1.08    | 1.22    | 1.33     | 1.48     | 1.69     | 2.02     | 2.29    | 2.47     | 2.64    |
| 725              | .66   | 1.01     | 1.13    | 1.28    | 1.39     | 1.54     | 1.77     | 2.12     | 2.40    | 2.58     | 2.76    |
| 870              | .77   | 1.18     | 1.32    | 1.50    | 1.63     | 1.81     | 2.08     | 2.49     | 2.82    | 3.04     | 3.26    |
| 950              | .83   | 1.28     | 1.42    | 1.62    | 1.77     | 1.96     | 2.25     | 2.70     | 3.06    | 3.29     | 3.52    |
| 1160             | .98   | 1.52     | 1.69    | 1.93    | 2.10     | 2.34     | 2.68     | 3.22     | 3.65    | 3.93     | 4.21    |
| 1425             | 1.16  | 1.81     | 2.02    | 2.31    | 2.52     | 2.80     | 3.22     | 3.86     | 4.38    | 4.72     | 5.06    |
| 1750             | 1.37  | 2.15     | 2.41    | 2.75    | 3.01     | 3.34     | 3.85     | 4.63     | 5.25    | 5.65     | 6.06    |
| 2850             | 2.00  | 3.21     | 3.61    | 4.14    | 4.53     | 5.05     | 5.82     | 6.99     | 7.92    | 8.53     | 9.12    |
| 3450             | 2.30  | 3.74     | 4.21    | 4.82    | 5.28     | 5.89     | 6.78     | 8.15     | 9.21    | 9.90     | 10.6    |
| 100              | .12   | .18      | .19     | .22     | .23      | .26      | .29      | .35      | .39     | .42      | .45     |
| 200              | .22   | .33      | .36     | .41     | .44      | .48      | .55      | .66      | .74     | .80      | .85     |
| 300              | .31   | .47      | .52     | .58     | .63      | .70      | .80      | .95      | 1.07    | 1.16     | 1.24    |
| 400              | .40   | .60      | .67     | .75     | .82      | .91      | 1.03     | 1.24     | 1.40    | 1.50     | 1.61    |
| 500              | .49   | .73      | .81     | .92     | 1.00     | 1.11     | 1.27     | 1.51     | 1.84    | 1.97     | 2.13    |
| 600              | .57   | .86      | .95     | 1.08    | 1.18     | 1.30     | 1.49     | 1.78     | 2.02    | 2.17     | 2.33    |
| 700              | .65   | .98      | 1.09    | 1.24    | 1.35     | 1.49     | 1.71     | 2.05     | 2.32    | 2.50     | 2.68    |
| 800              | .72   | 1.10     | 1.23    | 1.39    | 1.52     | 1.68     | 1.93     | 2.31     | 2.62    | 2.82     | 3.02    |
| 900              | .80   | 1.22     | 1.36    | 1.54    | 1.68     | 1.87     | 2.14     | 2.57     | 2.91    | 3.13     | 3.36    |
| 1000             | .87   | 1.34     | 1.49    | 1.69    | 1.85     | 2.05     | 2.35     | 2.82     | 3.20    | 3.45     | 3.69    |
| 1100             | .94   | 1.45     | 1.62    | 1.84    | 2.01     | 2.23     | 2.56     | 3.07     | 3.48    | 3.75     | 4.02    |
| 1200             | 1.01  | 1.56     | 1.74    | 1.99    | 2.17     | 2.41     | 2.76     | 3.32     | 3.76    | 4.05     | 4.34    |
| 1300             | 1.08  | 1.67     | 1.87    | 2.13    | 2.32     | 2.58     | 2.97     | 3.56     | 4.04    | 4.35     | 4.66    |
| 1400             | 1.14  | 1.78     | 1.99    | 2.27    | 2.48     | 2.75     | 3.17     | 3.80     | 4.32    | 4.65     | 4.98    |
| 1500             | 1.21  | 1.89     | 2.11    | 2.41    | 2.63     | 2.93     | 3.36     | 4.04     | 4.59    | 4.94     | 5.29    |
| 1600             | 1.27  | 1.99     | 2.23    | 2.55    | 2.78     | 3.09     | 3.56     | 4.28     | 4.85    | 5.23     | 5.60    |
| 1700             | 1.34  | 2.10     | 2.35    | 2.68    | 2.93     | 3.26     | 3.75     | 4.51     | 5.12    | 5.51     | 5.90    |
| 1800             | 1.40  | 2.20     | 2.47    | 2.82    | 3.08     | 3.43     | 3.94     | 4.74     | 5.38    | 5.79     | 6.21    |
| 1900             | 1.46  | 2.30     | 2.58    | 2.95    | 3.22     | 3.59     | 4.13     | 4.97     | 5.64    | 6.07     | 6.50    |
| 2000             | 1.52  | 2.40     | 2.70    | 3.08    | 3.37     | 3.75     | 4.32     | 5.19     | 5.89    | 6.34     | 6.79    |
| 2100             | 1.58  | 2.50     | 2.81    | 3.21    | 3.51     | 3.91     | 4.50     | 5.41     | 6.14    | 6.61     | 7.08    |
| 2200             | 1.64  | 2.60     | 2.92    | 3.34    | 3.65     | 4.07     | 4.68     | 5.63     | 6.39    | 6.88     | 7.37    |
| 2300             | 1.70  | 2.70     | 3.03    | 3.47    | 3.79     | 4.22     | 4.86     | 5.85     | 6.63    | 7.14     | 7.65    |
| 2400             | 1.75  | 2.80     | 3.14    | 3.59    | 3.93     | 4.38     | 5.04     | 6.06     | 6.88    | 7.40     | 7.92    |
| 2500             | 1.81  | 2.89     | 3.25    | 3.72    | 4.07     | 4.53     | 5.22     | 6.28     | 7.12    | 7.66     | 8.20    |
| 2600             | 1.87  | 2.98     | 3.35    | 3.84    | 4.20     | 4.68     | 5.39     | 6.48     | 7.35    | 7.91     | 8.47    |
| 2700             | 1.92  | 3.08     | 3.46    | 3.96    | 4.33     | 4.83     | 5.56     | 6.69     | 7.58    | 8.16     | 8.73    |
| 2800             | 1.97  | 3.17     | 3.56    | 4.08    | 4.47     | 4.98     | 5.73     | 6.89     | 7.81    | 8.40     | 8.99    |
| 2900             | 2.03  | 3.26     | 3.66    | 4.20    | 4.60     | 5.12     | 5.90     | 7.09     | 8.04    | 8.65     | 9.25    |
| 3000             | 2.08  | 3.35     | 3.76    | 4.31    | 4.72     | 5.26     | 6.06     | 7.29     | 8.26    | 8.88     | 9.50    |
| 3200             | 2.18  | 3.52     | 3.96    | 4.54    | 4.98     | 5.55     | 6.39     | 7.68     | 8.69    | 9.34     | 9.99    |
| 3400             | 2.28  | 3.69     | 4.16    | 4.77    | 5.22     | 5.82     | 6.71     | 8.05     | 9.11    | 9.79     | 10.5    |
| 3600             | 2.37  | 3.86     | 4.35    | 4.99    | 5.46     | 6.09     | 7.01     | 8.42     | 9.52    | 10.2     | 10.9    |
| 3800             | 2.47  | 4.02     | 4.53    | 5.20    | 5.70     | 6.35     | 7.31     | 8.77     | 9.91    | 10.6     | 11.3    |
| 4000             | 2.56  | 4.18     | 4.71    | 5.41    | 5.92     | 6.60     | 7.60     | 9.11     | 10.3    | 11.0     | 11.7    |
| 4200             | 2.64  | 4.33     | 4.89    | 5.61    | 6.15     | 6.85     | 7.88     | 9.44     | 10.6    | 11.4     | 12.1    |
| 4400             | 2.73  | 4.48     | 5.06    | 5.81    | 6.36     | 7.09     | 8.15     | 9.75     | 11.0    | 11.7     | 12.5    |
| 4600             | 2.81  | 4.63     | 5.22    | 6.00    | 6.57     | 7.32     | 8.41     | 10.0     | 11.3    | 12.1     | 12.8    |
| 4800             | 2.89  | 4.77     | 5.38    | 6.18    | 6.77     | 7.54     | 8.66     | 10.3     | 11.6    | 12.4     | 13.2    |
| 5000             | 2.96  | 4.90     | 5.53    | 6.36    | 6.96     | 7.75     | 8.90     | 10.6     | 11.9    | 12.7     | 13.5    |
| 5200             | 3.03  | 5.04     | 5.68    | 6.53    | 7.15     | 7.96     | 9.13     | 10.9     | 12.2    | 13.0     | 13.7    |
| 5400             | 3.10  | 5.16     | 5.83    | 6.69    | 7.33     | 8.15     | 9.35     | 11.1     | 12.4    | 13.2     | 14.0    |
| 5600             | 3.17  | 5.28     | 5.96    | 6.85    | 7.50     | 8.34     | 9.56     | 11.3     | 12.7    | 13.5     | 14.2    |
| 5800             | 3.23  | 5.40     | 6.10    | 7.00    | 7.66     | 8.52     | 9.76     | 11.5     | 12.9    | 13.7     | 14.4    |
| 6000             | 3.29  | 5.51     | 6.22    | 7.15    | 7.82     | 8.69     | 9.94     | 11.7     | 13.1    | 13.8     | 14.6    |
| 6200             | 3.35  | 5.62     | 6.34    | 7.28    | 7.97     | 8.85     | 10.1     | 11.9     | 13.2    | 14.0     | 14.7    |
| 6400             | 3.40  | 5.72     | 6.46    | 7.41    | 8.11     | 9.00     | 10.3     | 12.1     | 13.4    | 14.1     | 14.8    |
| 6600             | 3.45  | 5.82     | 6.57    | 7.54    | 8.24     | 9.14     | 10.4     | 12.2     | 13.5    | 14.2     | 14.9    |
| 6800             | 3.50  | 5.91     | 6.67    | 7.65    | 8.36     | 9.27     | 10.5     | 12.4     | 13.6    | 14.3     | 14.9    |
| 7000             | 3.54  | 5.99     | 6.77    | 7.76    | 8.48     | 9.40     | 10.7     | 12.5     | 13.7    | 14.4     | 15.5    |

Shaded areas indicate rim speeds exceeding 6500 FPM which may require special sheaves.

TOTAL RATING = rated HP + "additional HP" listed on opposite page.

$\Delta$  Subject to Arc and Length Corrections Factors on page PT7-47.

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).



**3VX BASIC HORSEPOWER RATINGS  $\Delta$**

| Faster Shaft RPM | Rated HP per Belt for Small Sheave O.D. of: |            |            |            |            |            |             | Additional HP per Belt for Speed Ratio of: ‡ |              |              |              |              |              |              |              |             |
|------------------|---|------------|------------|------------|------------|------------|-------------|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|
|                  | 5.3<br>3VX                                  | 5.6<br>3VX | 6.0<br>3VX | 6.5<br>3VX | 6.9<br>3VX | 8.0<br>3VX | 10.6<br>3VX | 1.02 to 1.05                                 | 1.06 to 1.11 | 1.12 to 1.18 | 1.19 to 1.26 | 1.27 to 1.38 | 1.39 to 1.57 | 1.58 to 1.94 | 1.95 to 3.38 | 3.39 and up |
| 575              | 2.41  | 2.59       | 2.82       | 3.11       | 3.34       | 3.97       | 5.42        | .01  | .02          | .04          | .06          | .07          | .09          | .10          | .11          | .11         |
| 690              | 2.85  | 3.06       | 3.33       | 3.67       | 3.95       | 4.69       | 6.39        | .01  | .03          | .05          | .07          | .09          | .10          | .11          | .12          | .13         |
| 725              | 2.98  | 3.20       | 3.49       | 3.84       | 4.13       | 4.90       | 6.69        | .01  | .03          | .05          | .07          | .09          | .11          | .12          | .13          | .14         |
| 870              | 3.51  | 3.77       | 4.11       | 4.53       | 4.87       | 5.78       | 7.87        | .01  | .03          | .06          | .09          | .11          | .13          | .14          | .16          | .17         |
| 950              | 3.80  | 4.08       | 4.45       | 4.91       | 5.27       | 6.25       | 8.51        | .01  | .04          | .07          | .10          | .12          | .14          | .16          | .17          | .18         |
| 1160             | 4.55  | 4.88       | 5.32       | 5.87       | 6.30       | 7.47       | 10.1        | .02  | .05          | .09          | .12          | .14          | .17          | .19          | .21          | .22         |
| 1425             | 5.46  | 5.86       | 6.38       | 7.03       | 7.55       | 8.94       | 12.0        | .02  | .06          | .11          | .15          | .18          | .21          | .24          | .26          | .28         |
| 1750             | 6.53  | 7.01       | 7.63       | 8.40       | 9.01       | 10.6       | 14.2        | .03  | .07          | .13          | .18          | .22          | .25          | .29          | .31          | .33         |
| 2850             | 9.82  | 10.5       | 11.4       | 12.5       | 13.3       | 15.5       | 19.6        | .04  | .12          | .22          | .30          | .36          | .42          | .48          | .52          | .55         |
| 3450             | 11.4  | 12.1       | 13.1       | 14.3       | 15.2       | 17.3       | 20.8        | .05  | .15          | .27          | .36          | .44          | .51          | .58          | .63          | .67         |
| 100              | .48   | .52        | .56        | .62        | .67        | .79        | 1.08        | .00  | .00          | .01          | .01          | .01          | .01          | .02          | .02          | .02         |
| 200              | .92   | .98        | 1.07       | 1.18       | 1.27       | 1.50       | 2.05        | .00  | .01          | .01          | .01          | .02          | .03          | .03          | .03          | .03         |
| 300              | 1.33  | 1.43       | 1.56       | 1.71       | 1.84       | 2.18       | 2.99        | .00  | .01          | .02          | .03          | .03          | .04          | .05          | .05          | .05         |
| 400              | 1.73  | 1.86       | 2.03       | 2.23       | 2.40       | 2.85       | 3.89        | .01  | .02          | .03          | .04          | .05          | .06          | .06          | .07          | .08         |
| 500              | 2.13  | 2.28       | 2.48       | 2.74       | 2.94       | 3.49       | 4.77        | .01  | .02          | .03          | .05          | .06          | .07          | .08          | .09          | .10         |
| 600              | 2.51  | 2.69       | 2.93       | 3.23       | 3.47       | 4.13       | 5.63        | .01  | .02          | .04          | .06          | .08          | .09          | .10          | .11          | .11         |
| 700              | 2.89  | 3.10       | 3.38       | 3.72       | 4.00       | 4.75       | 6.48        | .01  | .03          | .05          | .07          | .09          | .10          | .12          | .12          | .13         |
| 800              | 3.26  | 3.50       | 3.81       | 4.20       | 4.51       | 5.36       | 7.30        | .01  | .03          | .06          | .08          | .10          | .12          | .13          | .14          | .15         |
| 900              | 3.62  | 3.89       | 4.24       | 4.67       | 5.02       | 5.96       | 8.11        | .01  | .04          | .07          | .09          | .11          | .13          | .15          | .16          | .17         |
| 1000             | 3.98  | 4.27       | 4.66       | 5.14       | 5.52       | 6.55       | 8.90        | .01  | .04          | .08          | .10          | .12          | .15          | .17          | .18          | .19         |
| 1100             | 4.34  | 4.65       | 5.07       | 5.59       | 6.01       | 7.13       | 9.68        | .02  | .04          | .08          | .11          | .14          | .16          | .19          | .20          | .21         |
| 1200             | 4.69  | 5.03       | 5.48       | 6.04       | 6.49       | 7.69       | 10.4        | .02  | .05          | .09          | .12          | .15          | .18          | .20          | .22          | .23         |
| 1300             | 5.03  | 5.40       | 5.89       | 6.49       | 6.97       | 8.25       | 11.2        | .02  | .05          | .10          | .13          | .16          | .19          | .22          | .23          | .25         |
| 1400             | 5.37  | 5.77       | 6.29       | 6.93       | 7.43       | 8.80       | 11.9        | .02  | .06          | .11          | .14          | .18          | .21          | .23          | .26          | .27         |
| 1500             | 5.71  | 6.13       | 6.68       | 7.36       | 7.89       | 9.34       | 12.6        | .02  | .06          | .11          | .16          | .19          | .22          | .25          | .28          | .29         |
| 1600             | 6.04  | 6.48       | 7.06       | 7.78       | 8.35       | 9.87       | 13.3        | .02  | .07          | .12          | .17          | .20          | .24          | .27          | .29          | .31         |
| 1700             | 6.37  | 6.83       | 7.45       | 8.20       | 8.79       | 10.4       | 14.0        | .02  | .07          | .13          | .18          | .21          | .25          | .29          | .31          | .33         |
| 1800             | 6.70  | 7.18       | 7.82       | 8.61       | 9.23       | 10.9       | 14.5        | .03  | .08          | .13          | .19          | .23          | .27          | .30          | .33          | .34         |
| 1900             | 7.01  | 7.52       | 8.19       | 9.01       | 9.66       | 11.4       | 15.1        | .03  | .08          | .14          | .20          | .25          | .28          | .32          | .35          | .37         |
| 2000             | 7.33  | 7.86       | 8.55       | 9.41       | 10.1       | 11.9       | 15.7        | .03  | .09          | .15          | .21          | .25          | .30          | .33          | .37          | .39         |
| 2100             | 7.64  | 8.19       | 8.91       | 9.80       | 10.5       | 12.3       | 16.3        | .03  | .09          | .16          | .22          | .27          | .31          | .35          | .38          | .40         |
| 2200             | 7.94  | 8.51       | 9.26       | 10.2       | 11.0       | 12.8       | 16.8        | .03  | .10          | .17          | .23          | .28          | .33          | .37          | .40          | .43         |
| 2300             | 8.25  | 8.84       | 9.61       | 10.5       | 11.3       | 13.2       | 17.3        | .03  | .10          | .18          | .24          | .29          | .34          | .39          | .42          | .45         |
| 2400             | 8.54  | 9.15       | 9.95       | 10.9       | 11.7       | 13.7       | 17.8        | .03  | .11          | .19          | .25          | .30          | .36          | .40          | .44          | .47         |
| 2500             | 8.83  | 9.46       | 10.3       | 11.3       | 12.1       | 14.1       | 18.2        | .04  | .11          | .19          | .26          | .32          | .37          | .42          | .46          | .48         |
| 2600             | 9.12  | 9.77       | 10.6       | 11.6       | 12.4       | 14.5       | 18.6        | .04  | .11          | .20          | .27          | .33          | .39          | .44          | .48          | .50         |
| 2700             | 9.40  | 10.1       | 10.9       | 12.0       | 12.8       | 14.9       | 19.0        | .04  | .12          | .21          | .29          | .35          | .40          | .46          | .49          | .52         |
| 2800             | 9.68  | 10.4       | 11.2       | 12.3       | 13.1       | 15.3       | 19.4        | .04  | .13          | .21          | .29          | .36          | .42          | .47          | .51          | .54         |
| 2900             | 9.95  | 10.6       | 11.6       | 12.6       | 13.5       | 15.6       | 19.7        | .04  | .13          | .22          | .30          | .37          | .43          | .49          | .53          | .56         |
| 3000             | 10.2  | 10.9       | 11.8       | 13.0       | 13.8       | 16.0       | 20.0        | .04  | .13          | .23          | .31          | .38          | .45          | .50          | .55          | .58         |
| 3200             | 10.7  | 11.5       | 12.4       | 13.6       | 14.4       | 16.6       | 20.5        | .05  | .14          | .24          | .33          | .40          | .48          | .54          | .58          | .62         |
| 3400             | 11.2  | 12.0       | 13.0       | 14.1       | 15.0       | 17.2       | 20.8        | .05  | .15          | .26          | .36          | .43          | .50          | .57          | .62          | .66         |
| 3600             | 11.7  | 12.5       | 13.5       | 14.7       | 15.6       | 17.7       | 21.0        | .06  | .16          | .28          | .38          | .46          | .54          | .61          | .66          | .69         |
| 3800             | 12.2  | 12.9       | 14.0       | 15.2       | 16.1       | 18.2       | ...         | .06  | .17          | .29          | .40          | .48          | .57          | .64          | .69          | .74         |
| 4000             | 12.6  | 13.4       | 14.4       | 15.6       | 16.5       | 18.5       | ...         | .06  | .18          | .31          | .42          | .51          | .59          | .67          | .73          | .77         |
| 4200             | 13.0  | 13.8       | 14.8       | 16.0       | 16.9       | 18.8       | ...         | .07  | .19          | .32          | .44          | .54          | .63          | .71          | .77          | .82         |
| 4400             | 13.4  | 14.2       | 15.2       | 16.4       | 17.2       | 19.0       | ...         | .07  | .21          | .34          | .46          | .56          | .66          | .74          | .81          | .85         |
| 4600             | 13.7  | 14.5       | 15.6       | 16.7       | 17.5       | 19.1       | ...         | .07  | .21          | .36          | .47          | .58          | .68          | .77          | .84          | .89         |
| 4800             | 14.1  | 14.8       | 15.8       | 17.0       | 17.7       | 19.2       | ...         | .08  | .21          | .37          | .50          | .61          | .72          | .81          | .88          | .93         |
| 5000             | 14.3  | 15.1       | 16.1       | 17.2       | 17.9       | ...        | ...         | .08  | .22          | .39          | .53          | .64          | .75          | .83          | .92          | .97         |
| 5200             | 14.6  | 15.4       | 16.3       | 17.4       | 18.0       | ...        | ...         | .08  | .23          | .40          | .55          | .66          | .77          | .87          | .95          | 1.01        |
| 5400             | 14.8  | 15.6       | 16.5       | 17.4       | 18.0       | ...        | ...         | .09  | .24          | .41          | .57          | .69          | .81          | .91          | .99          | 1.05        |
| 5600             | 15.1  | 15.8       | 16.7       | 17.5       | ...        | ...        | ...         | .09  | .25          | .44          | .61          | .73          | .85          | .94          | 1.05         | 1.11        |
| 5800             | 15.2  | 15.9       | 16.7       | 17.5       | ...        | ...        | ...         | .09  | .26          | .45          | .61          | .74          | .86          | .97          | 1.06         | 1.13        |
| 6000             | 15.4  | 16.0       | 16.8       | ...        | ...        | ...        | ...         | .10  | .27          | .47          | .64          | .78          | .91          | 1.03         | 1.12         | 1.19        |
| 6200             | 15.5  | 16.1       | 16.8       | ...        | ...        | ...        | ...         | .10  | .28          | .47          | .66          | .81          | .94          | 1.06         | 1.16         | 1.21        |
| 6400             | 15.5  | 16.1       | 16.7       | ...        | ...        | ...        | ...         | .10  | .28          | .49          | .67          | .81          | .94          | 1.08         | 1.17         | 1.24        |
| 6600             | 15.6  | 16.1       | ...        | ...        | ...        | ...        | ...         | .11  | .29          | .51          | .69          | .84          | .99          | 1.11         | 1.18         | 1.29        |
| 6800             | 15.6  | 16.0       | ...        | ...        | ...        | ...        | ...         | .11  | .30          | .52          | .72          | .87          | 1.01         | 1.14         | 1.25         | 1.29        |
| 7000             | 15.5  | ...        | ...        | ...        | ...        | ...        | ...         | .11  | .31          | .52          | .74          | .89          | 1.04         | 1.18         | 1.29         | 1.36        |

Shaded areas indicate rim speeds exceeding 6500 FPM which may require higher strength sheaves.

TOTAL RATING = rated HP + "additional HP" from right hand column.

‡ Additional HP below 1.02 ratio equals zero.

$\Delta$  Subject to Arc and Length Corrections Factors on page PT7-47.

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets



## 5VX

## 5V

# BASIC HORSEPOWER RATINGS Δ

| Faster Shaft RPM | Rated HP per Belt for Small Sheave O.D. of: |       |       |       |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------------------|---|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                  | 4.4   | 4.65  | 4.9   | 5.5   | 6.3   | 6.7   | 7.1  |      | 7.5  |      | 8.0  |      | 8.5  |      | 9.0  |      | 9.25 |      | 9.75 |      | 10.3 |      |
|                  | 5VX   |       |       |       |       |       | 5VX  | 5V   | 5VX  | 5V   | 5VX  | 5V   | 5VX  | 5V   | 5VX  | 5V   | 5VX  | 5V   | 5VX  | 5V   | 5VX  | 5V   |
| 435              | 2.57  | 2.90  | 3.22  | 3.99  | 5.01  | 5.52  | 6.03 | 4.99 | 6.53 | 5.48 | 7.16 | 6.10 | 7.78 | 6.72 | 8.40 | 7.33 | 8.71 | 7.64 | 9.32 | 8.25 | 10.0 | 8.91 |
| 485              | 2.82  | 3.18  | 3.54  | 4.40  | 5.53  | 6.09  | 6.65 | 5.48 | 7.20 | 6.03 | 7.90 | 6.71 | 8.58 | 7.39 | 9.27 | 8.07 | 9.61 | 8.41 | 10.3 | 9.08 | 11.0 | 9.81 |
| 585              | 3.27  | 3.69  | 4.11  | 5.11  | 6.43  | 7.09  | 7.87 | 6.44 | 8.53 | 7.09 | 9.35 | 7.91 | 10.2 | 8.71 | 11.0 | 9.51 | 11.4 | 9.91 | 12.2 | 10.7 | 13.1 | 11.6 |
| 690              | 3.82  | 4.32  | 4.81  | 6.00  | 7.57  | 8.34  | 9.12 | 7.42 | 9.88 | 8.17 | 10.8 | 9.12 | 11.8 | 10.0 | 12.7 | 11.0 | 13.2 | 11.4 | 14.1 | 12.4 | 15.2 | 13.4 |
| 725              | 3.98  | 4.50  | 5.02  | 6.27  | 7.90  | 8.72  | 9.53 | 7.74 | 10.3 | 8.53 | 11.3 | 9.51 | 12.3 | 10.5 | 13.3 | 11.4 | 13.8 | 11.9 | 14.8 | 12.9 | 15.8 | 13.9 |
| 870              | 4.64  | 5.26  | 5.88  | 7.35  | 9.28  | 10.24 | 11.2 | 9.02 | 12.1 | 9.95 | 13.3 | 11.1 | 14.5 | 12.2 | 15.7 | 13.4 | 16.2 | 13.9 | 17.4 | 15.1 | 18.6 | 16.3 |
| 950              | 5.00  | 5.67  | 6.34  | 7.93  | 10.03 | 11.07 | 12.1 | 9.70 | 13.1 | 10.7 | 14.4 | 11.9 | 15.6 | 13.2 | 16.9 | 14.4 | 17.6 | 15.0 | 18.8 | 16.2 | 20.1 | 17.5 |
| 1160             | 5.90  | 6.71  | 7.51  | 9.42  | 11.93 | 13.17 | 14.4 | 11.4 | 15.6 | 12.6 | 17.1 | 14.1 | 18.6 | 15.5 | 20.1 | 16.9 | 20.9 | 17.7 | 22.3 | 19.0 | 23.9 | 20.6 |
| 1425             | 6.98  | 7.95  | 8.92  | 11.21 | 14.23 | 15.71 | 17.2 | 13.4 | 18.6 | 14.8 | 20.4 | 16.5 | 22.2 | 18.2 | 24.0 | 19.9 | 24.9 | 20.7 | 26.6 | 22.3 | 28.5 | 24.1 |
| 1750             | 8.23  | 9.40  | 10.55 | 13.30 | 16.89 | 18.66 | 20.4 | 15.6 | 22.1 | 17.2 | 24.3 | 19.2 | 26.3 | 21.1 | 28.4 | 23.0 | 29.4 | 23.9 | 31.4 | 25.8 | 33.6 | 27.7 |
| 2850             | 11.86                                       | 13.62 | 15.35 | 19.42 | 24.64 | 27.15 | 29.6 | 20.5 | 32.0 | 22.5 | 34.8 | 24.9 | 37.6 | 27.0 | 40.2 | 29.0 | 41.5 | 29.9 | 43.9 | 31.6 | 46.5 | 33.2 |
| 3450             | 13.45                                       | 15.47 | 17.46 | 22.09 | 27.93 | 30.69 | 33.3 | 21.3 | 35.9 | 23.2 | 38.9 | 25.3 | 41.7 | 27.1 | 44.3 | 28.6 | 45.5 | 29.2 | 47.7 | 30.1 | 49.9 | 30.7 |
| 100              | 0.71  | 0.79  | 0.87  | 1.07  | 1.33  | 1.45  | 1.58 | 1.36 | 1.71 | 1.48 | 1.87 | 1.64 | 2.02 | 1.80 | 2.18 | 1.96 | 2.26 | 2.04 | 2.42 | 2.19 | 2.59 | 2.36 |
| 200              | 1.31  | 1.47  | 1.62  | 2.00  | 2.49  | 2.73  | 2.98 | 2.52 | 3.2  | 2.76 | 3.53 | 3.06 | 3.83 | 3.36 | 4.13 | 3.66 | 4.28 | 3.81 | 4.58 | 4.11 | 4.91 | 4.44 |
| 300              | 1.86  | 2.09  | 2.32  | 2.87  | 3.59  | 3.95  | 4.31 | 3.60 | 4.6  | 3.96 | 5.11 | 4.40 | 5.55 | 4.83 | 5.99 | 5.27 | 6.21 | 5.49 | 6.64 | 5.92 | 7.12 | 6.39 |
| 400              | 2.39  | 2.69  | 2.99  | 3.71  | 4.65  | 5.12  | 5.59 | 4.63 | 6.0  | 5.10 | 6.63 | 5.67 | 7.21 | 6.24 | 7.78 | 6.81 | 8.07 | 7.09 | 8.64 | 7.65 | 9.26 | 8.27 |
| 500              | 2.90  | 3.27  | 3.64  | 4.52  | 5.68  | 6.26  | 6.83 | 5.63 | 7.4  | 6.19 | 8.12 | 6.90 | 8.82 | 7.59 | 9.53 | 8.29 | 9.88 | 8.64 | 10.6 | 9.33 | 11.3 | 10.1 |
| 600              | 3.39  | 3.83  | 4.26  | 5.31  | 6.68  | 7.37  | 8.05 | 6.58 | 8.7  | 7.25 | 9.56 | 8.08 | 10.4 | 8.91 | 11.2 | 9.72 | 11.6 | 10.1 | 12.5 | 10.9 | 13.4 | 11.8 |
| 700              | 3.86  | 4.37  | 4.87  | 6.08  | 7.66  | 8.45  | 9.23 | 7.51 | 10.0 | 8.28 | 11.0 | 9.23 | 11.9 | 10.2 | 12.9 | 11.1 | 13.4 | 11.6 | 14.3 | 12.5 | 15.4 | 13.5 |
| 800              | 4.33  | 4.90  | 5.47  | 6.83  | 8.62  | 9.51  | 10.4 | 8.41 | 11.3 | 9.27 | 12.4 | 10.3 | 13.4 | 11.4 | 14.5 | 12.5 | 15.1 | 13.0 | 16.1 | 14.0 | 17.3 | 15.2 |
| 900              | 4.78  | 5.41  | 6.05  | 7.57  | 9.56  | 10.55 | 11.5 | 9.28 | 12.5 | 10.2 | 13.7 | 11.4 | 14.9 | 12.6 | 16.1 | 13.8 | 16.7 | 14.3 | 17.9 | 15.5 | 19.2 | 16.7 |
| 1000             | 5.22  | 5.92  | 6.62  | 8.29  | 10.49 | 11.57 | 12.7 | 10.1 | 13.7 | 11.2 | 15.1 | 12.5 | 16.4 | 13.7 | 17.7 | 15.0 | 18.4 | 15.6 | 19.6 | 16.9 | 21.1 | 18.3 |
| 1100             | 5.65  | 6.41  | 7.18  | 9.00  | 11.39 | 12.58 | 13.7 | 10.9 | 14.9 | 12.1 | 16.4 | 13.5 | 17.8 | 14.9 | 19.2 | 16.2 | 19.9 | 16.9 | 21.3 | 18.3 | 22.9 | 19.7 |
| 1200             | 3.07  | 6.90  | 7.72  | 9.69  | 12.28 | 13.56 | 14.8 | 11.7 | 16.1 | 12.9 | 17.6 | 14.5 | 19.2 | 15.9 | 20.7 | 17.4 | 21.5 | 18.1 | 23.0 | 19.6 | 24.6 | 21.1 |
| 1300             | 6.48  | 7.37  | 8.26  | 10.36 | 13.16 | 14.53 | 15.9 | 12.5 | 17.2 | 13.8 | 18.9 | 15.4 | 20.6 | 17.0 | 22.2 | 18.5 | 23.0 | 19.3 | 24.6 | 20.8 | 26.4 | 22.5 |
| 1400             | 6.88  | 7.84  | 8.79  | 11.05 | 14.01 | 15.48 | 16.9 | 1.32 | 18.4 | 14.6 | 20.1 | 16.3 | 21.9 | 18.0 | 23.6 | 19.6 | 24.5 | 20.4 | 26.2 | 22.0 | 28.1 | 23.8 |
| 1500             | 7.28  | 8.29  | 9.30  | 11.71 | 14.86 | 16.41 | 17.9 | 13.9 | 19.5 | 15.4 | 21.3 | 17.2 | 23.2 | 18.9 | 25.1 | 20.7 | 25.9 | 21.5 | 27.7 | 23.2 | 29.7 | 25.0 |
| 1600             | 7.66  | 8.74  | 9.81  | 12.35 | 15.68 | 17.32 | 18.9 | 14.6 | 20.5 | 1.62 | 22.5 | 18.0 | 24.5 | 19.8 | 26.4 | 21.6 | 27.4 | 22.5 | 29.3 | 24.3 | 31.3 | 26.1 |
| 1700             | 8.04  | 9.18  | 10.31 | 12.99 | 16.50 | 18.22 | 19.9 | 15.3 | 21.6 | 16.9 | 23.7 | 18.8 | 25.7 | 20.7 | 27.7 | 22.6 | 28.7 | 23.5 | 30.7 | 25.3 | 32.8 | 27.2 |
| 1800             | 8.42  | 9.61  | 10.80 | 13.61 | 17.29 | 19.10 | 20.8 | 15.9 | 22.6 | 17.6 | 24.8 | 19.6 | 26.9 | 21.5 | 29.1 | 23.5 | 30.1 | 24.4 | 32.1 | 26.2 | 34.3 | 28.2 |
| 1900             | 8.78  | 10.03 | 11.28 | 14.22 | 18.07 | 19.96 | 21.8 | 16.5 | 23.6 | 1.82 | 25.9 | 20.3 | 28.1 | 22.3 | 30.3 | 24.3 | 31.4 | 25.3 | 33.5 | 27.1 | 35.8 | 29.1 |
| 2000             | 9.14  | 10.45 | 11.74 | 14.82 | 18.33 | 20.80 | 22.7 | 17.1 | 24.6 | 1.88 | 27.0 | 21.0 | 29.3 | 23.1 | 31.5 | 25.1 | 32.6 | 26.0 | 34.8 | 27.9 | 37.2 | 29.9 |
| 2100             | 9.48  | 10.85 | 12.20 | 15.41 | 19.58 | 21.62 | 23.6 | 17.6 | 25.6 | 1.94 | 28.0 | 21.6 | 30.4 | 23.7 | 32.7 | 25.8 | 33.9 | 26.8 | 36.1 | 28.7 | 38.5 | 30.7 |
| 2200             | 9.83  | 11.25 | 12.66 | 15.99 | 20.31 | 22.43 | 24.5 | 18.1 | 26.5 | 2.00 | 29.0 | 22.2 | 31.5 | 24.4 | 33.9 | 26.4 | 35.0 | 27.4 | 37.3 | 29.3 | 39.7 | 31.3 |
| 2300             | 10.16                                       | 11.64 | 13.10 | 16.55 | 21.03 | 23.21 | 25.3 | 18.6 | 27.5 | 2.05 | 30.0 | 22.8 | 32.5 | 24.9 | 35.0 | 27.0 | 36.2 | 28.0 | 36.5 | 29.9 | 30.9 | 31.9 |
| 2400             | 10.49                                       | 12.01 | 13.53 | 17.10 | 21.72 | 23.97 | 26.2 | 19.0 | 28.3 | 2.09 | 31.0 | 23.3 | 33.5 | 25.5 | 36.0 | 27.5 | 37.2 | 28.5 | 39.6 | 30.4 | 42.1 | 32.4 |
| 2500             | 10.81                                       | 12.39 | 13.95 | 17.64 | 22.40 | 24.72 | 27.0 | 19.4 | 29.2 | 2.14 | 31.9 | 23.7 | 34.5 | 25.9 | 37.0 | 28.0 | 38.3 | 29.0 | 40.7 | 30.9 | 43.2 | 32.7 |
| 2600             | 11.12                                       | 12.75 | 14.36 | 18.16 | 23.06 | 25.44 | 27.7 | 19.8 | 30.0 | 2.17 | 32.8 | 24.1 | 35.5 | 26.3 | 38.0 | 28.4 | 39.3 | 29.4 | 41.7 | 31.2 | 44.2 | 33.0 |
| 2700             | 11.42                                       | 13.10 | 14.77 | 18.68 | 23.71 | 26.14 | 28.5 | 20.1 | 30.8 | 2.21 | 33.6 | 24.5 | 36.4 | 26.7 | 39.0 | 28.7 | 40.2 | 29.7 | 42.6 | 31.4 | 45.2 | 33.2 |
| 2800             | 11.72                                       | 13.45 | 15.16 | 19.18 | 24.33 | 26.82 | 29.2 | 20.4 | 31.6 | 2.24 | 34.5 | 24.8 | 37.2 | 26.9 | 39.8 | 28.9 | 41.1 | 29.9 | 43.5 | 31.6 | 46.1 | 33.3 |
| 2900             | 12.00                                       | 13.78 | 15.54 | 19.66 | 24.94 | 27.48 | 29.9 | 20.6 | 32.3 | 2.26 | 35.2 | 25.0 | 38.0 | 27.2 | 40.6 | 29.1 | 41.9 | 30.0 | 44.4 | 31.6 | 46.9 | 33.2 |
| 3000             | 12.28                                       | 14.11 | 15.91 | 20.14 | 25.53 | 28.12 | 30.6 | 20.8 | 33.1 | 2.28 | 36.0 | 25.2 | 38.8 | 27.3 | 41.4 | 29.2 | 42.7 | 30.1 | 45.1 | 31.6 | 47.6 | 33.0 |
| 3100             | 12.56                                       | 14.43 | 16.28 | 20.60 | 26.10 | 28.73 | 31.3 | 21.0 | 33.7 | 2.30 | 36.7 | 25.3 | 39.5 | 27.4 | 42.1 | 29.2 | 43.4 | 30.0 | 45.8 | 31.5 | 48.3 | 32.7 |
| 3200             | 12.82                                       | 14.74 | 16.63 | 21.04 | 26.65 | 29.32 | 31.9 | 21.1 | 34.4 | 2.31 | 37.3 | 25.4 | 40.2 | 27.4 | 42.8 | 29.1 | 41.1 | 29.9 | 46.5 | 31.2 | 48.8 | 32.3 |
| 3300             | 13.08                                       | 15.04 | 16.97 | 21.47 | 27.17 | 29.88 | 32.5 | 21.2 | 35.0 | 2.32 | 38.0 | 25.4 | 40.8 | 27.3 | 43.4 | 29.0 | 44.7 | 29.7 | 47.1 | 30.9 | 49.4 | 31.8 |
| 3400             | 13.33                                       | 15.33 | 17.30 | 21.89 | 27.68 | 30.43 | 33.1 | 21.3 | 35.6 | 2.32 | 38.6 | 25.3 | 41.4 | 27.2 | 44.1 | 28.7 | 45.2 | 29.4 | 47.5 | 30.4 | 49.8 | 31.1 |
| 3500             | 13.57                                       | 15.61 | 17.62 | 22.29 | 28.17 | 30.94 | 33.6 | 21.3 | 36.1 | 2.32 | 39.1 | 25.2 | 41.9 | 27.0 | 44.5 | 28.4 | 45.7 | 28.9 | 47.9 | 29.8 | 50.1 | 30.3 |
| 3600             | 13.80                                       | 15.88 | 17.93 | 22.68 | 28.63 | 31.43 | 34.1 | 21.2 | 36.6 | 2.31 | 39.6 | 25.1 | 42.4 | 26.7 | 45.0 | 27.9 | 46.1 | 28.4 | 48.3 | 29.1 | 50.4 | 29.4 |
| 3700             | 14.02                                       | 16.14 | 18.23 | 23.05 | 29.07 | 31.90 | 34.6 | 21.1 | 37.1 | 2.30 | 40.1 | 24.8 | 42.8 | 26.3 | 45.3 | 27.4 | 46.5 | 27.8 | 48.5 | 27.3 | 50.5 | 28.3 |
| 3800             | 14.23                                       | 16.40 | 18.51 | 23.41 | 29.49 | 32.33 | 35.0 | 21.0 | 37.6 | 2.27 | 40.5 | 24.5 | 43.2 | 25.8 | 45.7 | 26.3 | 46.8 | 27.1 | 48.7 | 27.4 | ...  | ...  |
| 3900             | 14.44                                       | 16.64 | 18.79 | 23.75 | 29.89 | 32.74 | 35.4 | 20.7 | 38.0 | 2.24 | 40.9 | 24.1 | 43.5 | 25.3 | 45.9 | 26.1 | 47.0 | 26.3 | 48.9 | 26.3 | ...  | ...  |
| 4000             | 14.64                                       | 16.87 | 19.05 | 24.07 | 30.26 | 33.13 | 35.8 | 20.5 | 38.3 | 2.21 | 41.2 | 23.6 | 43.8 | 24.7 | 46.1 | 25.3 | 47.1 | 25.3 | ...  | ...  | ...  | ...  |

Shaded areas indicate rim speeds exceeding 6500 FPM which may require higher strength sheaves.

TOTAL RATING = rated HP + "additional HP" from right hand column.

‡ Additional HP below 1.02 ratio equals zero.

Δ Subject to Arc and Length Corrections Factors on page PT7-47.

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).



## 5VX 5V BASIC HORSEPOWER RATINGS Δ

| Faster Shaft RPM | Rated HP per Belt for Small Sheave O.D. of: |      |      |      |      |      |      |      |      |      |      |       | Additional HP per Belt for Speed Ratio of: ‡ |      |              |              |              |              |              |              |              |              |             |
|------------------|---|------|------|------|------|------|------|------|------|------|------|-------|--|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|
|                  | 10.9  |      | 11.8 |      | 12.5 |      | 13.2 |      | 14.0 |      | 15.0 |       | 16.0   |      | 1.02 to 1.05 | 1.06 to 1.11 | 1.12 to 1.18 | 1.19 to 1.26 | 1.27 to 1.38 | 1.39 to 1.57 | 1.58 to 1.94 | 1.95 to 3.38 | 3.39 and up |
|                  | 5VX   | 5V   | 5VX  | 5V   | 5VX  | 5V   | 5VX  | 5V   | 5VX  | 5V   | 5VX  | 5V    | 5VX  | 5V   |              |              |              |              |              |              |              |              |             |
| 435              | 10.7  | 9.64 | 11.8 | 10.7 | 12.7 | 11.5 | 13.5 | 12.4 | 14.5 | 13.3 | 15.6 | 14.5  | 16.8   | 15.6 | .03          | .10          | .17          | .24          | .29          | .34          | .38          | .41          | .44         |
| 485              | 11.8  | 10.6 | 13.1 | 11.8 | 14.0 | 12.7 | 14.9 | 13.6 | 16.0 | 14.6 | 17.3 | 15.9  | 18.6   | 17.2 | .04          | .11          | .19          | .26          | .32          | .38          | .43          | .46          | .49         |
| 585              | 14.0  | 12.5 | 15.5 | 13.9 | 16.6 | 15.0 | 17.7 | 16.1 | 18.9 | 17.3 | 20.4 | 18.8  | 22.0   | 20.2 | .05          | .13          | .24          | .31          | .39          | .46          | .51          | .56          | .59         |
| 690              | 16.3  | 14.4 | 17.9 | 16.0 | 19.2 | 17.3 | 20.5 | 18.5 | 21.9 | 19.9 | 23.7 | 21.6  | 25.4   | 23.3 | .06          | .16          | .27          | .38          | .46          | .54          | .61          | .66          | .70         |
| 725              | 17.0  | 15.1 | 18.8 | 16.7 | 20.1 | 18.0 | 21.4 | 19.3 | 22.9 | 20.7 | 24.7 | 22.5  | 26.6   | 24.3 | .06          | .17          | .29          | .40          | .48          | .56          | .63          | .69          | .72         |
| 870              | 20.0  | 17.6 | 22.0 | 19.5 | 23.6 | 21.0 | 25.1 | 22.5 | 26.9 | 24.1 | 29.0 | 26.2  | 31.1   | 28.1 | .07          | .20          | .35          | .46          | .58          | .67          | .77          | .83          | .88         |
| 950              | 21.6  | 18.9 | 23.8 | 21.0 | 25.5 | 22.6 | 27.1 | 24.2 | 28.9 | 25.9 | 31.3 | 28.0  | 33.5   | 30.1 | .08          | .22          | .38          | .52          | .63          | .74          | .83          | .91          | .96         |
| 1160             | 25.7  | 22.2 | 28.2 | 24.6 | 30.2 | 26.4 | 32.1 | 28.2 | 34.3 | 30.2 | 36.9 | 32.5  | 39.5   | 34.8 | .10          | .26          | .47          | .63          | .77          | .90          | 1.02         | 1.11         | 1.17        |
| 1425             | 30.5  | 25.9 | 33.5 | 28.6 | 35.7 | 30.6 | 37.9 | 32.6 | 40.4 | 34.7 | 43.4 | 37.2  | 46.2   | 39.5 | .12          | .33          | .57          | .78          | .95          | 1.11         | 1.24         | 1.35         | 1.45        |
| 1750             | 35.9  | 29.7 | 39.3 | 32.6 | 41.8 | 34.7 | 44.2 | 36.7 | 46.9 | 38.7 | 50.1 | 41.1  | 53.0   | 43.1 | .15          | .40          | .70          | .96          | 1.17         | 1.37         | 1.50         | 1.68         | 1.77        |
| 2850             | 49.0  | 34.7 | 52.5 | 36.2 | 54.8 | 6.9  | 56.8 | 37.0 | ...  | ...  | ...  | ...   | ...  | ...  | .24          | .66          | 1.15         | 1.56         | 1.80         | 2.22         | 2.50         | 2.73         | 2.89        |
| 3450             | 52.0  | 30.9 | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...   | ...  | ...  | .29          | .80          | 1.39         | 1.90         | 2.20         | 2.69         | 3.03         | 3.30         | 3.50        |
| 100              | 2.77  | 2.55 | 3.05 | 2.83 | 3.27 | 3.04 | 3.48 | 3.26 | 3.73 | 3.50 | 4.03 | 3.80  | 4.33   | 4.11 | .01          | .02          | .04          | .05          | .07          | .08          | .09          | .10          |             |
| 200              | 5.26  | 4.79 | 5.80 | 5.32 | 6.21 | 5.73 | 6.62 | 6.14 | 7.09 | 6.60 | 7.67 | 7.18  | 8.25   | 7.75 | .01          | .04          | .08          | .11          | .13          | .16          | .17          | .19          | .20         |
| 300              | 7.64  | 6.91 | 8.42 | 7.68 | 9.02 | 8.27 | 9.62 | 8.86 | 10.3 | 9.54 | 11.1 | 10.37 | 12.0   | 11.2 | .02          | .07          | .12          | .16          | .20          | .23          | .26          | .29          | .30         |
| 400              | 9.94  | 8.94 | 10.9 | 9.94 | 11.7 | 10.7 | 12.5 | 11.5 | 13.4 | 12.3 | 14.5 | 13.4  | 15.6   | 14.5 | .03          | .09          | .16          | .22          | .26          | .31          | .35          | .38          | .40         |
| 500              | 12.2  | 10.9 | 13.4 | 12.1 | 14.4 | 13.0 | 15.3 | 14.0 | 16.4 | 15.0 | 17.7 | 16.3  | 19.1   | 17.7 | .04          | .11          | .20          | .27          | .33          | .39          | .44          | .46          | .50         |
| 600              | 14.3  | 12.8 | 15.8 | 14.2 | 16.9 | 15.3 | 18.1 | 16.4 | 19.3 | 17.6 | 20.9 | 19.2  | 22.5   | 20.7 | .05          | .14          | .24          | .33          | .40          | .47          | .53          | .57          | .61         |
| 700              | 16.5  | 14.6 | 18.2 | 16.2 | 19.5 | 17.5 | 20.7 | 18.7 | 22.2 | 20.1 | 24.0 | 21.8  | 25.8   | 23.6 | .06          | .16          | .28          | .38          | .47          | .55          | .62          | .67          | .71         |
| 800              | 18.6  | 16.4 | 20.5 | 18.2 | 21.9 | 19.6 | 23.3 | 21.0 | 24.9 | 22.5 | 27.0 | 24.4  | 28.9   | 26.1 | .07          | .18          | .32          | .44          | .53          | .62          | .70          | .77          | .81         |
| 900              | 20.6  | 18.1 | 22.7 | 20.1 | 24.3 | 21.6 | 25.9 | 23.1 | 27.7 | 24.8 | 29.9 | 26.9  | 32.0   | 28.9 | .08          | .21          | .36          | .49          | .60          | .70          | .79          | .86          | .91         |
| 1000             | 22.6  | 19.7 | 24.9 | 21.9 | 26.6 | 23.5 | 28.3 | 25.2 | 30.3 | 27.0 | 32.7 | 29.2  | 35.0   | 31.3 | .08          | .23          | .39          | .55          | .66          | .78          | .87          | .95          | 1.01        |
| 1100             | 24.5  | 21.3 | 27.0 | 23.6 | 28.9 | 25.3 | 30.7 | 27.1 | 32.8 | 29.0 | 35.4 | 31.3  | 37.8   | 33.6 | .09          | .25          | .44          | .60          | .73          | .86          | .96          | 1.05         | 1.11        |
| 1200             | 26.4  | 22.8 | 29.0 | 25.3 | 31.1 | 27.1 | 33.0 | 28.9 | 35.2 | 30.9 | 37.9 | 33.3  | 40.6   | 35.6 | .10          | .27          | .48          | .66          | .80          | .93          | 1.05         | 1.15         | 1.22        |
| 1300             | 28.3  | 24.2 | 31.1 | 26.8 | 33.2 | 28.7 | 35.3 | 30.6 | 37.6 | 32.7 | 40.4 | 35.2  | 43.2   | 37.5 | .11          | .30          | .52          | .71          | .86          | 1.01         | 1.14         | 1.24         | 1.32        |
| 1400             | 30.1  | 25.6 | 33.0 | 28.3 | 35.2 | 30.3 | 37.4 | 32.2 | 39.8 | 34.3 | 42.8 | 36.8  | 45.6   | 39.2 | .11          | .32          | .56          | .77          | .93          | 1.09         | 1.23         | 1.34         | 1.42        |
| 1500             | 31.8  | 26.9 | 34.9 | 29.6 | 37.2 | 31.7 | 39.5 | 33.6 | 42.0 | 35.8 | 45.0 | 38.3  | 47.9   | 40.6 | .12          | .34          | .61          | .82          | 1.00         | 1.18         | 1.32         | 1.44         | 1.52        |
| 1600             | 33.5  | 28.1 | 36.7 | 30.9 | 39.1 | 33.0 | 41.4 | 34.9 | 44.0 | 37.1 | 47.1 | 39.6  | 50.1   | 41.8 | .13          | .37          | .64          | .88          | 1.07         | 1.25         | 1.40         | 1.53         | 1.62        |
| 1700             | 35.1  | 29.2 | 38.4 | 32.1 | 40.9 | 34.1 | 43.3 | 36.1 | 46.0 | 38.2 | 49.1 | 40.6  | 52.1   | 42.7 | .14          | .39          | .69          | .93          | 1.13         | 1.32         | 1.49         | 1.61         | 1.72        |
| 1800             | 36.7  | 30.2 | 40.1 | 33.1 | 42.6 | 35.2 | 45.1 | 37.2 | 47.8 | 39.2 | 51.0 | 41.5  | 53.9   | 43.4 | .15          | .41          | .72          | .99          | 1.20         | 1.40         | 1.58         | 1.72         | 1.83        |
| 1900             | 38.2  | 31.2 | 41.7 | 34.0 | 44.3 | 36.1 | 46.8 | 38.0 | 49.5 | 40.0 | 52.7 | 42.1  | 55.6   | 43.9 | .16          | .44          | .77          | 1.04         | 1.26         | 1.48         | 1.67         | 1.82         | 1.93        |
| 2000             | 39.6  | 32.0 | 43.2 | 34.8 | 45.8 | 36.9 | 48.3 | 38.7 | 51.1 | 40.6 | 54.2 | 42.5  | 57.1   | 44.0 | .17          | .46          | .80          | 1.10         | 1.33         | 1.56         | 1.77         | 1.92         | 2.03        |
| 2100             | 41.0  | 32.7 | 44.6 | 35.5 | 47.3 | 37.5 | 49.8 | 39.2 | 52.5 | 40.9 | 55.6 | 42.7  | 58.3   | 43.8 | .18          | .48          | .85          | 1.15         | 1.40         | 1.64         | 1.85         | 2.01         | 2.13        |
| 2200             | 42.3  | 33.4 | 46.0 | 36.1 | 48.6 | 38.0 | 51.1 | 39.6 | 53.8 | 41.1 | 56.8 | 42.5  | 59.4   | 43.4 | .18          | .51          | .89          | 1.21         | 1.47         | 1.71         | 1.93         | 2.10         | 2.23        |
| 2300             | 43.6  | 33.9 | 47.2 | 36.5 | 49.9 | 38.3 | 52.4 | 39.7 | 55.0 | 41.1 | 57.8 | 42.1  | 60.3   | 42.6 | .19          | .52          | .93          | 1.26         | 1.53         | 1.79         | 2.02         | 2.20         | 2.33        |
| 2400             | 44.7  | 34.3 | 48.4 | 36.8 | 51.0 | 38.4 | 53.5 | 39.7 | 56.0 | 40.8 | 58.7 | 41.5  | 61.0   | 41.4 | .20          | .55          | .96          | 1.32         | 1.60         | 1.87         | 2.11         | 2.30         | 2.44        |
| 2500             | 45.8  | 34.6 | 49.5 | 36.9 | 52.1 | 38.4 | 54.4 | 39.5 | 56.8 | 40.3 | 59.4 | 40.5  | ...  | ...  | .21          | .57          | 1.01         | 1.38         | 1.67         | 1.95         | 2.20         | 2.39         | 2.54        |
| 2600             | 46.8  | 34.8 | 50.5 | 36.9 | 53.0 | 38.2 | 55.3 | 39.0 | 57.6 | 39.5 | ...  | ...   | ...  | ...  | .22          | .60          | 1.05         | 1.43         | 1.73         | 2.03         | 2.29         | 2.49         | 2.64        |
| 2700             | 47.8  | 34.9 | 51.3 | 36.8 | 53.8 | 37.8 | 56.0 | 38.4 | 58.1 | 38.5 | ...  | ...   | ...  | ...  | .23          | .62          | 1.09         | 1.48         | 1.80         | 2.11         | 2.37         | 2.59         | 2.74        |
| 2800             | 48.6  | 34.8 | 52.1 | 36.4 | 54.5 | 37.2 | 56.5 | 37.5 | ...  | ...  | ...  | ...   | ...  | ...  | .24          | .64          | 1.13         | 1.59         | 1.86         | 2.18         | 2.46         | 2.68         | 2.84        |
| 2900             | 49.4  | 34.6 | 52.8 | 35.9 | 55.0 | 36.4 | 56.9 | 36.4 | ...  | ...  | ...  | ...   | ...  | ...  | .24          | .67          | 1.17         | 1.60         | 1.93         | 2.26         | 2.55         | 2.78         | 2.94        |
| 3000             | 50.1  | 34.2 | 53.4 | 35.3 | 55.5 | 35.5 | ...  | ...  | ...  | ...  | ...  | ...   | ...  | ...  | .25          | .69          | 1.21         | 1.65         | 2.00         | 2.34         | 2.63         | 2.87         | 3.05        |
| 3100             | 50.7  | 33.7 | 53.8 | 34.5 | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...   | ...  | ...  | .26          | .72          | 1.25         | 1.70         | 2.07         | 2.42         | 2.72         | 2.97         | 3.15        |
| 3200             | 51.2  | 33.1 | 54.1 | 33.4 | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...   | ...  | ...  | .27          | .74          | 1.29         | 1.76         | 2.14         | 2.50         | 2.81         | 3.07         | 3.25        |
| 3300             | 51.6  | 32.3 | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...   | ...  | ...  | .28          | .77          | 1.33         | 1.81         | 2.20         | 2.58         | 2.90         | 3.16         | 3.35        |
| 3400             | 51.9  | 31.4 | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...   | ...  | ...  | .29          | .79          | 1.37         | 1.87         | 2.27         | 2.65         | 2.99         | 3.26         | 3.45        |
| 3500             | 52.1  | 30.3 | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...   | ...  | ...  | .30          | .81          | 1.41         | 1.92         | 2.33         | 2.73         | 3.08         | 3.35         | 3.55        |
| 3600             | ...   | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...   | ...  | ...  | .31          | .83          | 1.45         | 1.98         | 2.40         | 2.81         | 3.16         | 3.45         | 3.65        |
| 3700             | ...   | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...   | ...  | ...  | .32          | .86          | 1.49         | 2.03         | 2.47         | 2.89         | 3.25         | 3.54         | 3.76        |
| 3800             | ...   | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...   | ...  | ...  | .32          | .88          | 1.53         | 2.09         | 2.53         | 2.97         | 3.34         | 3.64         | 3.85        |
| 3900             | ...   | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...   | ...  | ...  | .33          | .90          | 1.57         | 2.14         | 2.60         | 3.05         | 3.43         | 3.74         | 3.96        |
| 4000             | ...   | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...   | ...  | ...  | .34          | .93          | 1.61         | 2.20         | 2.67         | 3.12         | 3.52         | 3.83         | 4.06        |

Shaded areas indicate rim speeds exceeding 6500 FPM which may require higher strength sheaves.

TOTAL RATING = rated HP + "additional HP" from right hand column.

‡ Additional HP below 1.02 ratio equals zero.

Δ Subject to Arc and Length Corrections Factors on page PT7-47.

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).



# SELECTION

## 8V

## BASIC HORSEPOWER RATINGS $\Delta$

| Faster Shaft RPM | Rated HP per Belt for Small Sheave O.D. of: |      |      |      |      |      |      |      |      |      |      |       | Additional HP per Belt for Speed Ratio of: ‡ |              |              |              |              |              |              |              |             |
|------------------|---|------|------|------|------|------|------|------|------|------|------|-------|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|
|                  | 12.5  | 13.2 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.0 | 20.0 | 21.2 | 22.4 | 24.8  | 1.02 to 1.05                                 | 1.06 to 1.11 | 1.12 to 1.18 | 1.19 to 1.26 | 1.27 to 1.38 | 1.39 to 1.57 | 1.58 to 1.94 | 1.95 to 3.38 | 3.39 and up |
| 435              | 20.1  | 22.3 | 24.8 | 27.8 | 30.9 | 33.9 | 36.8 | 39.8 | 42.7 | 46.2 | 49.7 | 56.4  | .20  | .56          | .97          | 1.32         | 1.60         | 1.87         | 2.11         | 2.30         | 2.43        |
| 485              | 22.0  | 24.4 | 27.1 | 30.5 | 33.8 | 37.1 | 40.4 | 43.6 | 46.9 | 50.7 | 54.4 | 61.8  | .23  | .62          | 1.08         | 1.47         | 1.78         | 2.09         | 2.35         | 2.56         | 2.71        |
| 585              | 25.7  | 28.5 | 31.7 | 35.6 | 39.5 | 43.4 | 47.2 | 50.9 | 54.6 | 59.0 | 63.3 | 71.6  | .27  | .75          | 1.30         | 1.77         | 2.15         | 2.52         | 2.83         | 3.09         | 3.27        |
| 690              | 29.3  | 32.6 | 36.2 | 40.7 | 45.2 | 49.5 | 53.8 | 58.0 | 62.2 | 67.0 | 71.8 | 80.9  | .32  | .88          | 1.54         | 2.09         | 2.54         | 2.97         | 3.34         | 3.64         | 3.86        |
| 725              | 30.5  | 33.8 | 37.6 | 42.3 | 46.9 | 51.5 | 55.9 | 60.3 | 64.5 | 69.5 | 74.4 | 83.7  | .34  | .93          | 1.61         | 2.20         | 2.67         | 3.12         | 3.51         | 3.83         | 4.06        |
| 870              | 35.0  | 38.9 | 43.2 | 48.6 | 53.8 | 58.9 | 63.9 | 68.7 | 73.4 | 78.8 | 84.0 | 93.8  | .41  | 1.11         | 1.94         | 2.64         | 3.20         | 3.74         | 4.22         | 4.59         | 4.87        |
| 950              | 37.3  | 41.4 | 46.0 | 51.7 | 57.2 | 62.6 | 67.7 | 72.8 | 77.6 | 83.1 | 88.4 | 98.1  | .45  | 1.21         | 2.11         | 2.88         | 3.49         | 4.09         | 4.60         | 5.02         | 5.32        |
| 1160             | 42.6  | 47.3 | 52.5 | 58.8 | 64.8 | 70.6 | 76.1 | 81.2 | 86.1 | 91.5 | 96.5 | 104.8 | .54  | 1.48         | 2.58         | 3.52         | 4.27         | 4.99         | 5.62         | 6.13         | 6.49        |
| 1425             | 47.6  | 52.7 | 58.4 | 65.0 | 71.2 | 76.9 | 82.1 | 86.8 | 90.9 | 95.0 | 98.3 | 102.1 | .67  | 1.82         | 3.17         | 4.32         | 5.24         | 6.13         | 6.91         | 7.52         | 7.97        |
| 1750             | 50.9  | 56.1 | 61.7 | 67.9 | 73.3 | 77.8 | 81.5 | 84.2 | 85.8 | 86.5 | ...  | ...   | .82  | 2.24         | 3.90         | 5.30         | 6.44         | 7.53         | 8.48         | 9.24         | 9.79        |
| 50               | 3.01  | 3.31 | 3.64 | 4.06 | 4.47 | 4.88 | 5.30 | 5.70 | 6.11 | 6.60 | 7.09 | 8.0   | .02  | .06          | .11          | .15          | .18          | .22          | .24          | .26          | .28         |
| 100              | 5.59  | 6.15 | 6.79 | 7.59 | 8.38 | 9.17 | 9.96 | 10.7 | 11.5 | 12.5 | 13.4 | 15.2  | .05  | .13          | .22          | .30          | .37          | .43          | .48          | .53          | .56         |
| 150              | 8.00  | 8.82 | 9.76 | 10.9 | 12.1 | 13.2 | 14.4 | 15.5 | 16.6 | 18.0 | 19.4 | 22.0  | .07  | .19          | .33          | .45          | .55          | .65          | .73          | .79          | .84         |
| 200              | 10.3  | 11.4 | 12.6 | 14.1 | 15.6 | 17.1 | 18.6 | 20.1 | 21.6 | 23.3 | 25.1 | 28.6  | .09  | .26          | .45          | .61          | .74          | .86          | .97          | 1.06         | 1.12        |
| 250              | 12.5  | 13.8 | 15.3 | 17.2 | 19.0 | 20.9 | 22.7 | 24.5 | 26.3 | 28.5 | 30.7 | 34.9  | .12  | .32          | .56          | .76          | .92          | 1.08         | 1.21         | 1.32         | 1.40        |
| 300              | 14.6  | 16.2 | 18.0 | 20.2 | 22.4 | 24.5 | 26.7 | 28.8 | 31.0 | 33.5 | 36.0 | 41.0  | .14  | .38          | .67          | .91          | 1.10         | 1.29         | 1.45         | 1.58         | 1.68        |
| 350              | 16.7  | 18.5 | 20.5 | 23.1 | 25.6 | 28.1 | 30.5 | 33.0 | 35.4 | 38.3 | 41.2 | 46.9  | .16  | .45          | .78          | 1.06         | 1.29         | 1.51         | 1.70         | 1.85         | 1.96        |
| 400              | 18.7  | 20.7 | 23.0 | 25.9 | 28.7 | 31.5 | 34.3 | 37.0 | 39.8 | 43.0 | 46.3 | 52.6  | .19  | .51          | .89          | 1.21         | 1.47         | 1.72         | 1.94         | 2.11         | 2.24        |
| 450              | 20.7  | 22.9 | 25.5 | 28.6 | 31.8 | 34.9 | 37.9 | 41.0 | 44.0 | 47.6 | 51.1 | 58.1  | .21  | .58          | 1.00         | 1.36         | 1.66         | 1.94         | 2.18         | 2.38         | 2.52        |
| 500              | 22.6  | 25.0 | 27.8 | 31.3 | 34.7 | 38.1 | 41.5 | 44.8 | 48.1 | 51.9 | 55.8 | 63.3  | .23  | .64          | 1.11         | 1.52         | 1.84         | 2.15         | 2.42         | 2.64         | 2.80        |
| 550              | 24.4  | 27.1 | 30.1 | 33.9 | 37.6 | 41.3 | 44.9 | 48.5 | 52.0 | 56.2 | 60.3 | 68.3  | .26  | .70          | 1.22         | 1.67         | 2.02         | 2.37         | 2.67         | 2.90         | 3.08        |
| 600              | 26.2  | 29.1 | 32.4 | 36.4 | 40.4 | 44.3 | 48.2 | 52.0 | 55.8 | 60.2 | 64.6 | 73.0  | .28  | .77          | 1.34         | 1.82         | 2.21         | 2.58         | 2.91         | 3.17         | 3.36        |
| 650              | 28.0  | 31.0 | 34.5 | 38.8 | 43.1 | 47.2 | 51.4 | 55.4 | 59.4 | 64.1 | 68.7 | 77.5  | .31  | .83          | 1.45         | 1.97         | 2.39         | 2.80         | 3.15         | 3.43         | 3.64        |
| 700              | 29.7  | 32.9 | 36.6 | 41.2 | 45.7 | 50.1 | 54.4 | 58.7 | 62.9 | 67.8 | 72.6 | 81.7  | .33  | .89          | 1.56         | 2.12         | 2.57         | 3.01         | 3.39         | 3.70         | 3.92        |
| 750              | 31.3  | 34.7 | 38.7 | 43.5 | 48.2 | 52.8 | 57.4 | 61.8 | 66.2 | 71.3 | 76.2 | 85.6  | .35  | .96          | 1.67         | 2.27         | 2.76         | 3.23         | 3.63         | 3.96         | 4.20        |
| 800              | 32.9  | 36.5 | 40.6 | 45.7 | 50.6 | 55.4 | 60.2 | 64.8 | 69.3 | 74.6 | 79.6 | 89.3  | .38  | 1.02         | 1.78         | 2.43         | 2.94         | 3.44         | 3.88         | 4.22         | 4.48        |
| 850              | 34.4  | 38.2 | 42.5 | 47.8 | 52.9 | 57.9 | 62.8 | 67.6 | 72.3 | 77.6 | 82.8 | 92.5  | .40  | 1.09         | 1.89         | 2.58         | 3.13         | 3.66         | 4.12         | 4.49         | 4.76        |
| 900              | 35.9  | 39.8 | 44.3 | 49.8 | 55.1 | 60.3 | 65.4 | 70.3 | 75.0 | 80.5 | 85.8 | 95.5  | .42  | 1.15         | 2.00         | 2.73         | 3.31         | 3.87         | 4.36         | 4.75         | 5.04        |
| 950              | 37.3  | 41.4 | 46.0 | 51.7 | 57.2 | 62.6 | 67.7 | 72.8 | 77.6 | 83.1 | 88.4 | 98.1  | .45  | 1.21         | 2.11         | 2.88         | 3.49         | 4.09         | 4.60         | 5.02         | 5.32        |
| 1000             | 38.7  | 42.9 | 47.7 | 53.5 | 59.2 | 64.7 | 70.0 | 75.1 | 80.0 | 85.6 | 90.8 | 100.3 | .47  | 1.28         | 2.23         | 3.03         | 3.68         | 4.30         | 4.85         | 5.28         | 5.60        |
| 1050             | 39.9  | 44.4 | 49.3 | 55.3 | 61.1 | 66.7 | 72.1 | 77.2 | 82.1 | 87.7 | 92.9 | 102.2 | .49  | 1.34         | 2.34         | 3.18         | 3.86         | 4.52         | 5.09         | 5.54         | 5.88        |
| 1100             | 41.2  | 45.7 | 50.8 | 56.9 | 62.9 | 68.5 | 74.0 | 79.2 | 84.1 | 89.6 | 94.7 | 103.6 | .52  | 1.41         | 2.45         | 3.33         | 4.05         | 4.73         | 5.33         | 5.81         | 6.16        |
| 1150             | 42.3  | 47.0 | 52.2 | 58.5 | 64.5 | 70.2 | 75.7 | 80.9 | 85.9 | 91.2 | 96.2 | 104.6 | .54  | 1.47         | 2.56         | 3.49         | 4.23         | 4.95         | 5.57         | 6.07         | 6.44        |
| 1200             | 43.5  | 48.2 | 53.5 | 59.9 | 65.0 | 71.8 | 77.3 | 82.5 | 87.3 | 92.6 | 97.4 | 105.2 | .56  | 1.53         | 2.67         | 3.64         | 4.41         | 5.17         | 5.82         | 6.34         | 6.71        |
| 1250             | 44.5  | 49.4 | 54.8 | 61.2 | 67.4 | 73.2 | 78.7 | 83.8 | 88.5 | 93.7 | 98.2 | 105.4 | .59  | 1.60         | 2.78         | 3.79         | 4.60         | 5.38         | 6.06         | 6.60         | 6.99        |
| 1300             | 45.5  | 50.4 | 55.9 | 62.5 | 68.7 | 74.5 | 79.9 | 84.9 | 89.5 | 94.5 | 98.7 | 105.1 | .61  | 1.66         | 2.89         | 3.94         | 4.78         | 5.60         | 6.30         | 6.86         | 7.27        |
| 1350             | 46.4  | 51.4 | 57.0 | 63.6 | 69.8 | 75.6 | 80.9 | 85.8 | 90.3 | 94.9 | 98.8 | 104.3 | .63  | 1.73         | 3.01         | 4.09         | 4.97         | 5.81         | 6.54         | 7.13         | 7.55        |
| 1400             | 47.2  | 52.3 | 57.9 | 64.5 | 70.8 | 76.5 | 81.7 | 86.5 | 90.7 | 95.1 | 98.6 | 102.9 | .66  | 1.79         | 3.12         | 4.24         | 5.15         | 6.03         | 6.78         | 7.39         | 7.83        |
| 1450             | 48.0  | 53.1 | 58.8 | 65.4 | 71.6 | 77.2 | 82.4 | 86.9 | 90.9 | 94.9 | 98.0 | 101.1 | .68  | 1.85         | 3.23         | 4.40         | 5.33         | 6.24         | 7.03         | 7.66         | 8.11        |
| 1500             | 48.7  | 53.9 | 59.5 | 66.2 | 72.3 | 77.8 | 82.8 | 87.1 | 90.8 | 94.4 | 97.0 | 98.8  | .70  | 1.92         | 3.34         | 4.55         | 5.52         | 6.46         | 7.27         | 7.92         | 8.39        |
| 1550             | 49.3  | 54.5 | 60.2 | 66.8 | 72.8 | 78.2 | 83.0 | 87.1 | 90.5 | 93.6 | 95.5 | 95.9  | .73  | 1.98         | 3.45         | 4.70         | 5.70         | 6.67         | 7.51         | 8.18         | 8.67        |
| 1600             | 49.8  | 55.1 | 60.7 | 67.2 | 73.2 | 78.4 | 82.9 | 86.7 | 89.8 | 92.3 | 93.7 | ...   | .75  | 2.05         | 3.56         | 4.85         | 5.88         | 6.89         | 7.75         | 8.45         | 8.95        |
| 1650             | 50.2  | 55.5 | 61.1 | 67.6 | 73.4 | 78.4 | 82.7 | 86.2 | 88.8 | 90.8 | 91.4 | ...   | .77  | 2.11         | 3.67         | 5.00         | 6.07         | 7.10         | 8.00         | 8.71         | 9.23        |
| 1700             | 50.6  | 55.9 | 61.5 | 67.8 | 73.4 | 78.2 | 82.2 | 85.3 | 87.5 | 88.8 | 88.7 | ...   | .80  | 2.17         | 3.78         | 5.15         | 6.25         | 7.32         | 8.24         | 8.98         | 9.51        |
| 1800             | 51.2  | 56.3 | 61.7 | 67.8 | 73.0 | 77.2 | 80.5 | 82.7 | 83.9 | 83.7 | ...  | ...   | .84  | 2.30         | 4.01         | 5.46         | 6.62         | 7.75         | 8.72         | 9.5          | 10.1        |
| 1900             | 51.2  | 56.3 | 61.5 | 67.2 | 71.8 | 75.4 | 77.8 | 79.0 | 78.9 | ...  | ...  | ...   | .89  | 2.43         | 4.23         | 5.76         | 6.99         | 8.18         | 9.21         | 10.0         | 10.6        |
| 2000             | 51.0  | 55.9 | 60.8 | 65.9 | 69.9 | 72.6 | 74.0 | 74.0 | ...  | ...  | ...  | ...   | .94  | 2.56         | 4.45         | 6.06         | 7.36         | 8.61         | 9.69         | 10.6         | 11.2        |
| 2200             | 49.4  | 53.7 | 57.7 | 61.5 | 63.7 | 64.2 | ...  | ...  | ...  | ...  | ...  | ...   | 1.03   | 2.81         | 4.90         | 6.67         | 8.09         | 9.47         | 10.7         | 11.6         | 12.3        |
| 2400             | 46.0  | 49.5 | 52.4 | 54.2 | 54.1 | ...  | ...  | ...  | ...  | ...  | ...  | ...   | 1.13   | 3.07         | 5.34         | 7.28         | 8.83         | 10.3         | 11.6         | 12.7         | 13.4        |
| 2600             | 40.9  | 43.2 | 44.5 | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...   | 1.22   | 3.32         | 5.79         | 7.88         | 9.56         | 11.2         | 12.6         | 13.7         | 14.5        |

Shaded areas indicate rim speeds exceeding 6500 FPM which may require higher strength sheaves.

TOTAL RATING = rated HP + "additional HP" from right hand column.

‡ Additional HP below 1.02 ratio equals zero.

$\Delta$  Subject to Arc and Length Corrections Factors on page PT7-47.

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).



# SELECTION



**5VF**

## BASIC HORSEPOWER RATINGS $\Delta$ Aramide Cord Belt

**SEE CAUTION BELOW**

| Faster Shaft RPM | Rated HP per Belt for Small Sheave O.D. of: |      |      |      |      |      |      |      |      |      |      |      |      |      | Additional HP per Belt for Speed Ratio of $\ddagger$ : |              |              |              |             |
|------------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--------------|--------------|--------------|-------------|
|                  | 7.1   | 8.0  | 8.5  | 9.0  | 9.75 | 10.3 | 10.9 | 11.3 | 11.8 | 12.5 | 13.2 | 14.0 | 15.0 | 16.0 | 1.02 to 1.20   | 1.21 to 1.50 | 1.51 to 2.19 | 2.20 to 3.32 | 3.33 and up |
|                  | 200   | 3.55 | 4.42 | 4.91 | 5.39 | 6.11 | 6.63 | 7.2  | 7.58 | 8.05 | 8.71 | 9.36 | 10.1 | 11.0 | 11.9   | .10          | .24          | .33          | .37         |
| 300              | 5.01  | 6.29 | 6.99 | 7.69 | 8.74 | 9.5  | 10.3 | 10.9 | 11.5 | 12.5 | 13.5 | 14.5 | 15.9 | 17.2 | .15  | .36          | .50          | .55          | .57         |
| 400              | 6.39  | 8.05 | 8.97 | 9.88 | 11.2 | 12.2 | 13.3 | 14.0 | 14.9 | 16.1 | 17.4 | 18.8 | 20.5 | 22.2 | .19  | .47          | .66          | .74          | .76         |
| 500              | 7.71  | 9.74 | 10.9 | 12.0 | 13.6 | 14.8 | 16.2 | 17.0 | 18.1 | 19.6 | 21.1 | 22.8 | 24.9 | 27.0 | .24  | .59          | .83          | .92          | .94         |
| 600              | 8.96  | 11.4 | 12.7 | 14.0 | 15.9 | 17.4 | 18.9 | 19.9 | 21.2 | 23.0 | 24.8 | 26.7 | 29.2 | 31.7 | .29  | .71          | .99          | 1.11         | 1.13        |
| 700              | 10.2  | 12.9 | 14.4 | 15.9 | 18.2 | 19.8 | 21.6 | 22.8 | 24.2 | 26.3 | 28.3 | 30.5 | 33.3 | 36.1 | .34  | .83          | 1.16         | 1.29         | 1.32        |
| 800              | 11.3  | 14.4 | 16.1 | 17.8 | 20.4 | 22.2 | 24.2 | 25.5 | 27.1 | 29.4 | 31.6 | 34.2 | 37.3 | 40.4 | .39  | .95          | 1.32         | 1.48         | 1.51        |
| 900              | 12.4  | 15.9 | 17.8 | 19.7 | 22.5 | 24.5 | 26.7 | 28.2 | 29.9 | 32.4 | 34.9 | 37.7 | 41.1 | 44.5 | .44  | 1.07         | 1.49         | 1.66         | 1.70        |
| 1000             | 13.5  | 17.3 | 19.4 | 21.5 | 24.5 | 26.7 | 29.1 | 30.7 | 32.7 | 35.4 | 38.0 | 41.1 | 44.8 | 48.4 | .49  | 1.18         | 1.65         | 1.85         | 1.89        |
| 1100             | 14.6  | 18.7 | 20.9 | 23.2 | 26.5 | 28.9 | 31.5 | 33.2 | 35.3 | 38.2 | 41.1 | 44.3 | 48.2 | 52.1 | .53  | 1.30         | 1.82         | 2.03         | 2.08        |
| 1200             | 15.6  | 20.0 | 22.4 | 24.8 | 28.4 | 30.9 | 33.7 | 35.5 | 37.8 | 40.9 | 43.9 | 47.4 | 51.5 | 55.6 | .58  | 1.42         | 1.99         | 2.22         | 2.27        |
| 1300             | 16.6  | 21.3 | 23.9 | 26.4 | 30.2 | 32.9 | 35.9 | 37.8 | 40.2 | 43.5 | 46.7 | 50.3 | 54.7 | 58.9 | .63  | 1.54         | 2.15         | 2.40         | 2.45        |
| 1400             | 17.5  | 22.5 | 25.3 | 28.0 | 32.0 | 34.9 | 37.9 | 40.0 | 42.5 | 45.9 | 49.3 | 53.0 | 57.6 | 61.9 | .68  | 1.66         | 2.32         | 2.59         | 2.64        |
| 1600             | 19.3  | 24.9 | 27.9 | 30.9 | 35.3 | 38.5 | 41.8 | 44.1 | 46.8 | 50.5 | 54.1 | 58.1 | 62.8 | 67.3 | .78  | 1.89         | 2.65         | 2.96         | 3.02        |
| 1800             | 20.9  | 27.0 | 30.3 | 33.6 | 38.4 | 41.7 | 45.4 | 47.7 | 50.6 | 54.5 | 58.2 | 62.3 | 67.2 | 71.6 | .88  | 2.13         | 2.98         | 3.32         | 3.40        |
| 2000             | 22.4  | 29.0 | 32.6 | 36.0 | 41.1 | 44.7 | 48.5 | 50.9 | 53.9 | 57.9 | 61.7 | 65.8 | 70.5 | 74.8 | .97  | 2.37         | 3.31         | 3.69         | 3.78        |
| 2200             | 23.8  | 30.8 | 34.5 | 38.2 | 43.5 | 47.2 | 51.2 | 53.7 | 56.7 | 60.7 | 64.5 | 68.5 | 72.9 | 76.7 | 1.07   | 2.60         | 3.64         | 4.06         | 4.15        |
| 2400             | 24.9  | 32.4 | 36.3 | 40.1 | 45.6 | 49.4 | 53.4 | 55.9 | 58.9 | 62.8 | 65.5 | 70.2 | 74.1 | 77.3 | 1.17   | 2.84         | 3.97         | 4.43         | 4.53        |
| 2600             | 26.0  | 33.7 | 37.8 | 41.7 | 47.3 | 51.1 | 55.1 | 57.6 | 60.5 | 64.3 | 67.6 | 70.9 | ...  | ...  | 1.26   | 3.08         | 4.30         | 4.80         | 4.91        |
| 2800             | 26.9  | 34.8 | 39.0 | 43.0 | 48.6 | 52.4 | 56.3 | 58.7 | 61.4 | 64.9 | 67.8 | ...  | ...  | ...  | 1.36   | 3.31         | 4.63         | 5.17         | 5.29        |
| 3000             | 27.6  | 35.8 | 40.0 | 44.0 | 49.6 | 53.3 | 56.9 | 59.2 | 61.7 | 64.7 | ...  | ...  | ...  | ...  | 1.46   | 3.55         | 4.96         | 5.54         | 5.66        |
| 3200             | 28.1  | 36.4 | 40.7 | 44.6 | 50.1 | 53.6 | 57.0 | 59.0 | 61.2 | ...  | ...  | ...  | ...  | ...  | 1.56   | 3.79         | 5.30         | 5.91         | 6.04        |
| 3400             | 28.4  | 36.8 | 41.0 | 44.9 | 50.1 | 53.4 | 56.5 | 58.2 | ...  | ...  | ...  | ...  | ...  | ...  | 1.65   | 4.02         | 5.63         | 6.28         | 6.42        |
| 3600             | 28.6  | 36.9 | 41.1 | 44.8 | 49.7 | 52.7 | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | 1.75   | 4.26         | 5.96         | 6.65         | 6.80        |

**8VF**

**SEE CAUTION BELOW**

| Faster Shaft RPM | Rated HP per Belt for Small Sheave O.D. of: |      |      |      |       |       |       |       |       |        |       |       | Additional HP per Belt for Speed Ratio of $\ddagger$ : |              |              |              |             |
|------------------|---|------|------|------|-------|-------|-------|-------|-------|--------|-------|-------|--|--------------|--------------|--------------|-------------|
|                  | 12.5  | 13.2 | 14.0 | 15.0 | 16.0  | 17.0  | 18.0  | 19.0  | 20.0  | 21.2   | 22.4  | 24.8  | 1.02 to 1.20   | 1.21 to 1.50 | 1.51 to 2.19 | 2.20 to 3.32 | 3.33 and up |
|                  | 200   | 12.6 | 14.5 | 16.6 | 19.3  | 21.9  | 24.6  | 27.2  | 29.8  | 32.433 | 35.5  | 38.6  | 44.7   | .59          | 1.43         | 2.00         | 2.24        |
| 250              | 15.0  | 17.4 | 20.0 | 23.3 | 26.5  | 29.7  | 33.0  | 36.2  | 39.4  | 43.2   | 46.9  | 54.5  | .74  | 1.79         | 2.51         | 2.80         | 2.86        |
| 300              | 17.4  | 20.1 | 23.2 | 27.1 | 30.9  | 34.7  | 38.5  | 42.3  | 46.1  | 50.5   | 55.0  | 63.8  | .88  | 2.15         | 3.01         | 3.36         | 3.43        |
| 350              | 19.6  | 22.7 | 26.3 | 30.7 | 35.2  | 39.6  | 43.9  | 48.3  | 52.6  | 57.7   | 62.8  | 72.9  | 1.03   | 2.51         | 3.51         | 3.91         | 4.00        |
| 400              | 21.7  | 25.2 | 29.3 | 34.3 | 39.3  | 44.2  | 49.1  | 54.0  | 58.9  | 64.6   | 70.4  | 81.7  | 1.18   | 2.87         | 4.01         | 4.47         | 4.57        |
| 450              | 23.7  | 27.7 | 32.2 | 37.7 | 43.2  | 48.7  | 54.2  | 59.6  | 65.0  | 71.4   | 77.7  | 90.2  | 1.33   | 3.23         | 4.51         | 5.03         | 5.15        |
| 500              | 25.6  | 30.0 | 34.9 | 41.0 | 47.1  | 53.1  | 59.1  | 65.0  | 70.9  | 77.8   | 84.8  | 98.4  | 1.47   | 3.58         | 5.01         | 5.59         | 5.72        |
| 600              | 29.3  | 34.4 | 40.1 | 47.3 | 54.4  | 61.4  | 68.4  | 75.3  | 82.2  | 90.2   | 98.2  | 113.9 | 1.77   | 4.30         | 6.01         | 6.71         | 6.86        |
| 700              | 32.6  | 38.4 | 45.0 | 51.2 | 61.2  | 69.2  | 77.1  | 84.9  | 92.6  | 101.7  | 110.7 | 128.1 | 2.06   | 5.02         | 7.01         | 7.83         | 8.00        |
| 800              | 35.6  | 42.1 | 49.5 | 58.6 | 67.6  | 76.5  | 85.2  | 93.8  | 102.3 | 112.3  | 122.1 | 141.1 | 2.36   | 5.73         | 8.02         | 8.95         | 9.15        |
| 900              | 38.3  | 45.5 | 53.6 | 63.6 | 73.5  | 83.1  | 92.7  | 102.0 | 111.2 | 121.9  | 132.4 | 152.5 | 2.65   | 6.45         | 9.02         | 10.1         | 10.3        |
| 1000             | 40.7  | 48.5 | 57.4 | 68.2 | 78.8  | 89.2  | 99.4  | 109.4 | 119.1 | 130.5  | 141.5 | 162.4 | 2.95   | 7.17         | 10.0         | 11.2         | 11.4        |
| 1100             | 42.9  | 51.3 | 60.7 | 72.3 | 83.6  | 94.7  | 105.5 | 116.0 | 126.2 | 138.0  | 149.4 | 170.7 | 3.24   | 7.89         | 11.0         | 12.3         | 12.6        |
| 1200             | 44.7  | 53.7 | 63.7 | 75.9 | 87.9  | 99.5  | 110.8 | 121.7 | 132.2 | 144.4  | 155.9 | 177.3 | 3.53   | 8.60         | 12.0         | 13.4         | 13.7        |
| 1300             | 46.2  | 55.7 | 66.3 | 79.2 | 91.6  | 103.7 | 115.3 | 126.5 | 137.3 | 149.5  | 161.1 | 181.9 | 3.83   | 9.32         | 13.1         | 14.5         | 14.8        |
| 1400             | 47.4  | 57.3 | 68.4 | 81.8 | 94.7  | 107.1 | 119.0 | 130.4 | 141.2 | 153.4  | 164.7 | 184.5 | 4.12   | 10.1         | 14.1         | 15.7         | 16.0        |
| 1500             | 48.3  | 58.6 | 70.1 | 83.9 | 97.1  | 109.8 | 121.8 | 133.2 | 143.9 | 155.8  | 165.7 | 184.9 | 4.42   | 10.7         | 15.0         | 16.8         | 17.1        |
| 1600             | 48.8  | 59.5 | 71.3 | 85.4 | 98.9  | 111.7 | 123.7 | 135.0 | 145.4 | 156.8  | 167.0 | ...   | 4.71   | 11.5         | 16.0         | 17.9         | 18.3        |
| 1700             | 49.0  | 59.0 | 72.0 | 86.4 | 100.0 | 112.8 | 124.7 | 135.7 | 145.6 | 156.3  | 165.5 | ...   | 5.01   | 12.2         | 17.0         | 19.0         | 19.4        |
| 1800             | 48.8  | 60.0 | 72.2 | 86.8 | 100.4 | 113.0 | 124.6 | 135.1 | 144.5 | 154.2  | ...   | ...   | 5.30   | 12.9         | 18.0         | 20.1         | 20.6        |
| 1900             | 48.2  | 59.5 | 71.9 | 86.5 | 100.0 | 112.4 | 123.5 | 133.4 | 141.9 | ...    | ...   | ...   | 5.60   | 13.6         | 19.0         | 21.2         | 21.7        |
| 2000             | 47.2  | 58.7 | 71.1 | 85.6 | 98.8  | 110.7 | 121.3 | 130.3 | ...   | ...    | ...   | ...   | 5.89   | 14.3         | 20.0         | 22.3         | 22.8        |
| 2100             | 45.8  | 57.3 | 69.7 | 84.0 | 96.8  | 108.1 | 117.9 | ...   | ...   | ...    | ...   | ...   | 6.19   | 15.0         | 21.0         | 23.5         | 24.0        |
| 2200             | 43.9  | 55.5 | 67.7 | 81.7 | 94.0  | 104.5 | ...   | ...   | ...   | ...    | ...   | ...   | 6.48   | 15.8         | 22.0         | 24.6         | 25.1        |

Shaded areas indicate rim speeds exceeding 6500 FPM which may require higher strength sheaves.

TOTAL RATING = rated HP + "additional HP" from right hand column.

$\ddagger$  Additional HP below 1.02 ratio equals zero.

$\Delta$  Subject to Arc and Length Corrections Factors on page PT7-47.

**CAUTION: Belt horsepower ratings may exceed design capacity of stock sheaves. Consult factory for recommendations.**

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).



## SELECTION

### Stock Classical Drives: Standard Motor Speeds

**Step 1 - Determine Service Factor.** Refer to Typical Service factors, Table 7. Locate type of Driven and Driver equipment. (If an idler is used, increase the factor by value indicated). Correct factor is determined by: 1. The extent and frequency of peak loads. 2. Number of operating hours/year, broken down in average hours/day of continuous service. 3. Proper service category: (Intermittent, Normal or Continuous). Select the one closest to the application conditions.

**Step 2 - Compute Design HP.** Multiply normal running HP required or nameplate rating by service factor obtained in Step 1.

**Step 3 - Choose Belt Section.** Using Table 6, below, read up from design HP figure obtained in Step 2 and over from the RPM of faster shaft. This intersection indicates belt sections.

**Step 4 - Select the Drive.** a) Using belt section from Step 3, refer to Stock Drive Selection Tables beginning on page PT7-90. b) Under appropriate driver speed column find Driven RPM nearest to the desired speed. To the right note HP per Belt. Read left for Driver/Driven Sheave information. (If driver is an electric motor be sure motor sheave diameter is not less than shown in Table 8.) c) Read onto opposite page and find figure nearest the required center distance. Note Arc-Length Correction Factor in the shaded row below the C.D. figure. d) Read to the top of the table for the belt size. e) **To determine number of belts**, multiply the HP per Belt value by the Arc Length Correction Factor. This is the corrected HP/ belt. Divide design HP by corrected HP figure to determine number of belts required.

#### EXAMPLE OF SELECTION

Select a classical drive for a continuous duty 3-piston compressor, with a 2-7/16, shaft, to run at about 284 RPM, driven by a 30 HP, 1160 RPM squirrel cage electric motor with a 2-1/8, shaft. Desired center distance is approximately 36".

**Step 1** - Service factor from Table 7 is 1.4.

**Step 2** - Design HP = 1.4 x 30 = 42 HP.

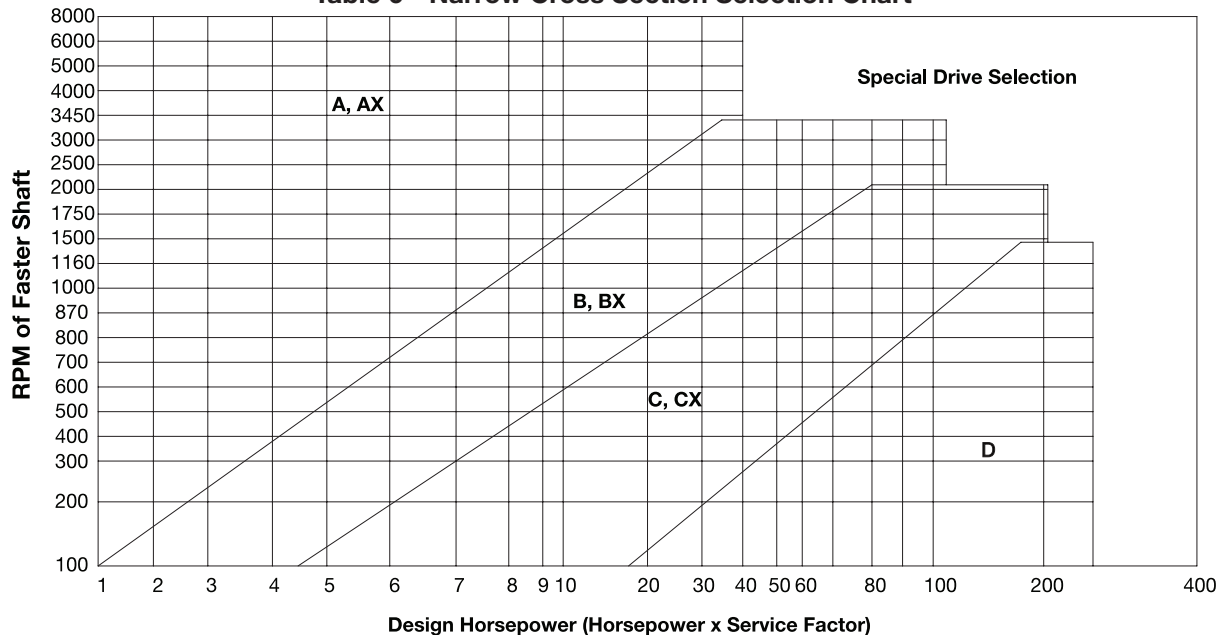
**Step 3** - A C-section belt is shown in Table 11 when reading to the right of 1160 RPM and up from 42 design HP.

**Step 4** - Turn to C-Stock Drive Selection Tables beginning on page PT7-124. Under 1160 RPM Driven, read down to find 285 RPM. One selection is 284 on page PT7-128. Note HP/belt as 15.47 for all SL Classic belts and Polyband belts over 116" and 19.34 for all Classic-Cog and Polyband under 116". Also note sheaves listed as a 8.5 Driver, 36.0 Driven. Table 8 shows driver is not undersize. Reading to opposite page the C.D. figure of 35.9 is closest to 36". Top of table shows belt size as C144.

The HP/belt for SL Classic is 15.47. This value x the .95 factor = 14.7 corrected HP/belt. 42 HP ÷ 14.7 = 2.85. Going to the next whole number the drive requires 3 SL Classic belts. (Center to center operating distance is 35.9 nominal.) **Order:** 1. 3 - C144 SL Classic Belts. 2. 1 - 3-groove C8.5 TAPER-LOCK Sheave. 3. 1 - 2-1/8, bore 2517 bushing. 4. 1 - 3-groove C36.0 TAPER-LOCK Sheave. 5. 1 - 2-7/16, bore 3535 bushing.

(The steps above may be used to figure a Classic-COG drive with higher HP ratings. This drive usually uses fewer grooves and will be more compact. The decision to use SL Classic, Classic-COG or POLYBAND belts involves economics, interchangeability, etc.).

**Table 6 - Narrow Cross Section Selection Chart**



**NOTE:** Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).





## SERVICE FACTORS

**Table 7 - Typical Service Factors**

| Driven Machine Types   | Driver: Normal Torque<br>NEMA Des. A or B Motors<br>DC Shunt Wound Motors<br>Multi-Cylinder Engines |        |         | Driver: High Torque<br>NEMA Des. C or D Motors<br>DC Series Wound Motors<br>Single Cylinder Engines |        |       |   |
|--|---|--------|---------|---|--------|-------|---|
|  | Service*  |        |         | Service*  |        |       |   |
|  | Intermit.   | Normal | Contin. | Intermit.   | Normal | Cont. |   |
| <b>Note: Certain machines may require flywheel sheaves or special construction to withstand heavy shock loads. Consult Mfg'r.</b><br>Agitators for Liquids<br>Blowers and Exhausters<br>Centrif. Pumps, Compressors<br>Fans up to 10HP<br>Light Duty Conveyors | 1.0   | 1.1    | 1.2     | 1.1   | 1.2    | 1.3   | <b>* Note:</b><br>Intermittent:<br>Up to 6 Hrs./Day<br>Normal:<br>6-16 Hrs./Day<br>Continuous:<br>16-24 Hrs./Day<br><br>Adder for Idlers:<br>Outside on slack side . . . . . 0.1<br>Inside on tight side . . . . . 0.1<br>Outside on tight side . . . . . 0.2 |
| Belt Conveyors, Bulk Mat'l<br>Dough Mixers<br>Fans over 10 HP<br>Generators<br>Line Shafts<br>Laundry Machinery<br>Machine Tools<br>Punches, Presses, Shears<br>Printing Machinery<br>Positive Displ. Rotary Pumps<br>Revolving & Vibrating Screens            | 1.1   | 1.2    | 1.3     | 1.2   | 1.3    | 1.4   |   |
| Brick Machinery<br>Bucket Elevators<br>Exciters<br>Piston Compressors<br>Conveyors: Drag, Pan, Screw<br>Hammer Mills<br>Paper Mill Beaters<br>Piston Pumps<br>Pos. Displacement Blowers<br>Pulverizers<br>Saw Mill, Woodworking Mach'y<br>Textile Machinery    | 1.2   | 1.3    | 1.4     | 1.4   | 1.5    | 1.6   |   |
| Crushers: Gyratory, Jaw, Roll<br>Mills: Ball, Rod, Tube<br>Hoists<br>Rubber Calendars, Extruders, Mills  | 1.3   | 1.4    | 1.5     | 1.6   | 1.7    | 1.8   |   |
| Chokable Equipment, Fire Hazard  | 2.0   | 2.0    | 2.0     | 2.0   | 2.0    | 2.0   |   |

**Table 8 - Min. Recommended Classical Groove Sheave Dia. for Drives Using Electric Motors**

| Motor RPM | A, B, C, D, V-belt Sheave | Motor Horsepower |     |     |       |     |     |     |       |     |     |      |      |      |      |      |      |      |      |      |
|-----------|---------------------------|------------------|-----|-----|-------|-----|-----|-----|-------|-----|-----|------|------|------|------|------|------|------|------|------|
|           |                           | 1/2              | 3/4 | 1   | 1-1/2 | 2   | 3   | 5   | 7-1/2 | 10  | 15  | 20   | 25   | 30   | 40   | 50   | 60   | 75   | 100  | 125  |
| 870       | Min. P.D.                 | 2.2              | 2.4 | 2.4 | 2.4   | 3.0 | 3.0 | 3.8 | 4.4   | 4.6 | 5.4 | 6.0  | 6.8  | 6.8  | 8.2  | 9.0  | 10.0 | 10.5 | 12.5 | ...  |
|           | Max. Face Width           | 4.3              | 4.3 | 5.3 | 5.3   | 6.5 | 6.5 | 7.8 | 7.8   | 9.0 | 9.0 | 10.3 | 10.3 | 11.5 | 11.5 | 14.3 | 14.3 | 16.8 | 16.8 | ...  |
| 1160      | Min. P.D.                 | ...              | 2.2 | 2.4 | 2.4   | 2.4 | 3.0 | 3.0 | 3.8   | 4.4 | 4.6 | 5.4  | 6.0  | 6.8  | 6.8  | 8.2  | 9.0  | 10.0 | 11.0 | 12.5 |
|           | Max. Face Width           | ...              | 4.3 | 4.3 | 5.3   | 5.3 | 6.5 | 6.5 | 7.8   | 7.8 | 9.0 | 9.0  | 10.3 | 10.3 | 11.5 | 11.5 | 14.3 | 14.3 | 16.8 | 16.8 |
| 1750      | Min. P.D.                 | ...              | ... | 2.2 | 2.4   | 2.4 | 2.4 | 3.0 | 3.0   | 3.8 | 4.4 | 4.6  | 5.0  | 5.4  | 6.0  | 6.8  | 7.4  | 9.0  | 10.0 | 11.5 |
|           | Max. Face Width           | ...              | ... | 4.3 | 4.3   | 4.3 | 5.3 | 5.3 | 6.5   | 6.5 | 7.8 | 7.8  | 9.0  | 9.0  | 10.3 | 10.3 | 11.5 | 11.5 | 14.3 | 14.3 |
| 3500      | Min. P.D.                 | ...              | ... | ... | 2.2   | 2.4 | 2.4 | 3.0 | 3.8   | 3.0 | 3.8 | 4.4  | 4.4  | ...  | ...  | ...  | ...  | ...  | ...  | ...  |
|           | Max. Face Width           | ...              | ... | ... | 4.3   | 4.3 | 4.3 | 5.3 | 5.3   | 6.5 | 6.5 | 7.8  | 7.8  | ...  | ...  | ...  | ...  | ...  | ...  | ...  |

Data is per NEMA Standard MG1-14.42. In areas where sheaves are not listed, consult motor manufacturer

**NOTE:** Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).



# SELECTION

## Stock Classical Drives: Non Standard Motor Speeds & Speed-Up Drives

For Speeds Other Than Standard Motor Speeds:

**Step 1 - Determine Speed Ratio** =  $\left( \frac{\text{Driver RPM}}{\text{Driven RPM}} \right)$

**Step 2 - Compute Design HP.** Multiply normal running HP required or nameplate rating by service factor from Table 2.

**Step 3 - Determine Maximum Diameter** of Driver Sheave

@ 6500 FPM: O.D. =  $\left( \frac{6500 \text{ RPM}}{.262 \times \text{RPM}} \right)$

**Step 4 - Select Belt Cross Section.** Using Table 6, read up from design HP figure obtained in Step 2 and over from the RPM of faster shaft. This intersection indicates belt section.

**Step 5 - Select Drive.** Using the belt section from Step 4, make a tentative sheave selection from **Stock Drive Selection Tables**. (Note that several choices are available in the ratio obtained from Step 1.) Other choices close to this ratio may also produce a functional drive. Read onto opposite page and find figure nearest the required center distance. The Arc-Length Correction Factor is listed in the shaded row below the C.D. figure. Read to the top of the table for the belt size.

**Step 6 - Size the Drive.** From Basic HP Tables beginning on page PT7-118, locate HP rating at intersection of RPM row and small sheave column. To this, add the "additional HP" figure based on drive ratio. This becomes the rated HP. Multiply this sum by the arc-length correction factor noted in Step 5. This becomes the corrected HP per belt. To find

Required number of belts :  $\frac{\text{Design HP}}{\text{Correction HP/Belt}}$

### EXAMPLE OF SELECTION

A V-drive is needed for a 15 HP, 2200 RPM gasoline engine, with a 1-5/8" shaft, running a reducer on a belt conveyor. 2-5/16" reducer input shaft shaft runs at 1490 RPM. Service is intermittent. Center distance is 36".

**Step 1 - Speed Ratio** =  $\frac{2200}{1785} = 1.48$

**Step 2 - Service Factor** = 1.2 Design HP = 15 x 1.1 = 16.5

**Step 3 - Driver Sheave Max. Dia.** =  $\frac{6500}{.262 \times 2200} = 11.3$

**Step 4 - Belt Cross Section** = Table 11 indicates A-AX.

**Step 5** - Turn to A, AX **Stock Drive Selection Tables** beginning on page PT7-106. Find the 1.48 ratio obtained in the Step 1 calculations. The most economical drive shows a 4.6 Driver,

**NOTE:** Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

7.0 Driven Sheave. The C.D. nearest 36" is 36.5. The correction factor below the C.D. figure is 1.07. Top of the table shows an A90 belt. Refer to Basic HP Tables on page PT7-134. From the 2200 RPM of the faster shaft row and down from the 4.6 smaller sheave:

5.80 HP/belt plus an additional HP of .44 in the 1.35 thru 1.99 ratio column. The sum = 6.24 HP/belt x 1.07 arc-length correction factor = 6.68 HP/belt.

Number of belts =  $\frac{16.5}{6.68} = 2.47$  or 3 belts

**Order:** 1- 3 groove A4.6 TAPER-LOCK Sheave, 1 to 1-5/8" bore 1610 bushing, 1-3 groove A7.0 sheave, 1 to 2-5/16" bore 2517 bushing, 3-A90 SL Classic Belts.

### Example of an "A" Speed-Up Drive

A 10 HP 1750 RPM AC motor, with a 1-3/8" shaft is to drive a high speed blower @ 4000 RPM. The blower shaft is 1-7/16", center distance 24" and equipment runs 24 hrs./day.

1. Service Factor from Table 12 is 1.2.
2. Design HP = 10 x 1.2 = 12 HP.
3. Speed Ratio =  $\frac{4000}{1750} = 2.29$
4. In Stock Drive Table, under 2.29 ratio, sheaves are listed as 3.4 Driver/8.2 Driven. (In a speed-up drive, the 3.4 sheave becomes the Driven, the 8.2 the Driver.) The opposite page of the table shows the closest center distance as 24.4 with an arc length correction factor of .96. Belt shown at top of table is A66.
5. From **Basic Horsepower Tables** a 3.4 sheave @ 4000 RPM = (4.38 + 1.00) = 5.38.  
5.38 x .96 = 5.16 corrected HP/belt.
6. **Number of Belts** =  $\frac{\text{Design HP}}{\text{Corrected HP}} = \frac{12}{5.16} = 2.33$   
or 3 belts.
7. **Order:** 1-3 groove A8.2 TAPER-LOCK Sheave, 1 to 1-3/8" bore 2517 bushing, 1-3 groove A3.4 TAPER-LOCK Sheave, 1 to 1-7/16" bore 1610 bushing, 3-A66 SL belts.

**NOTE:** To determine required belt length when center distance and sheave datum diameters are known, use the following formula.

$$L = 2C + 1.57(D + d) + \frac{(D - d)^2}{4c}$$

L = Belt Length In Inches

C = Center Distance

D = Datum Dia. of Large Sheave

d = Datum Dia. of Small Sheave

# SELECTION



## Belt Correction Factors

Table 9 - Classical Belt Length Correction Factors

| Datum Length   | Factor | Datum Length           | Factor | Datum Length           | Factor | Datum Length           | Factor | Datum Length           | Factor | Datum Length           | Factor | Datum Length           | Factor |
|----------------|--------|------------------------|--------|------------------------|--------|------------------------|--------|------------------------|--------|------------------------|--------|------------------------|--------|
| <b>A Belts</b> |        | <b>A Belts (Cont.)</b> |        | <b>A Belts (Cont.)</b> |        | <b>B Belts (Cont.)</b> |        | <b>B Belts (Cont.)</b> |        | <b>C Belts (Cont.)</b> |        | <b>D Belts (Cont.)</b> |        |
| 15.3           | 0.68   | 58.3                   | 0.96   | 113.3                  | 1.11   | 57.8                   | 0.90   | 101.8                  | 1.03   | 107.9                  | 0.94   | 213.3                  | 0.96   |
| 16.3           | 0.69   | 59.3                   | 0.97   | 121.3                  | 1.13   | 58.8                   | 0.90   | 102.8                  | 1.03   | 108.9                  | 0.94   | 225.8                  | 0.99   |
| 17.3           | 0.71   | 60.3                   | 0.97   | 129.3                  | 1.14   | 59.8                   | 0.91   | 104.8                  | 1.04   | 110.9                  | 0.94   | 240.8                  | 1.00   |
| 18.3           | 0.72   | 61.3                   | 0.98   | 134.3                  | 1.14   | 60.8                   | 0.91   | 106.8                  | 1.04   | 111.9                  | 0.94   | 255.8                  | 1.01   |
| 19.3           | 0.73   | 62.3                   | 0.98   | 137.3                  | 1.15   | 61.8                   | 0.92   | 109.8                  | 1.04   | 113.9                  | 0.94   | 270.8                  | 1.03   |
| 20.3           | 0.74   | 63.3                   | 0.98   | 145.3                  | 1.17   | 62.8                   | 0.92   | 112.8                  | 1.05   | 114.9                  | 0.95   | 285.8                  | 1.04   |
| 21.3           | 0.75   | 64.3                   | 0.98   | 159.3                  | 1.19   | 63.8                   | 0.92   | 113.8                  | 1.05   | 117.9                  | 0.95   | 300.8                  | 1.05   |
| 22.3           | 0.76   | 65.3                   | 0.99   | 174.3                  | 1.21   | 64.8                   | 0.92   | 117.8                  | 1.06   | 122.9                  | 0.97   | 315.8                  | 1.06   |
| 23.3           | 0.77   | 67.3                   | 0.99   | 181.3                  | 1.22   | 65.8                   | 0.93   | 121.8                  | 1.07   | 126.9                  | 0.97   | 330.8                  | 1.07   |
| 24.3           | 0.78   | 68.3                   | 0.99   | <b>B Belts</b>         |        | 66.8                   | 0.93   | 125.8                  | 1.07   | 130.9                  | 0.98   | 345.8                  | 1.08   |
| 25.3           | 0.79   | 69.3                   | 1.00   | 23.8                   | 0.71   | 67.8                   | 0.93   | 129.8                  | 1.08   | 138.9                  | 0.99   | 360.8                  | 1.09   |
| 26.3           | 0.80   | 70.3                   | 1.00   | 24.8                   | 0.72   | 68.8                   | 0.94   | 134.8                  | 1.09   | 146.9                  | 1.00   | 390.8                  | 1.11   |
| 27.3           | 0.81   | 71.3                   | 1.00   | 25.8                   | 0.73   | 69.8                   | 0.95   | 137.8                  | 1.09   | 152.9                  | 1.01   | 420.8                  | 1.12   |
| 28.3           | 0.81   | 72.3                   | 1.01   | 26.8                   | 0.74   | 70.8                   | 0.95   | 145.8                  | 1.11   | 160.9                  | 1.02   | 450.8                  | 1.14   |
| 29.3           | 0.82   | 73.3                   | 1.01   | 27.8                   | 0.75   | 71.8                   | 0.95   | 149.8                  | 1.11   | 164.9                  | 1.03   | 480.8                  | 1.16   |
| 30.3           | 0.82   | 74.3                   | 1.01   | 28.8                   | 0.75   | 72.8                   | 0.95   | 159.8                  | 1.13   | 175.9                  | 1.04   | 540.8                  | 1.18   |
| 31.3           | 0.83   | 75.3                   | 1.02   | 29.8                   | 0.76   | 73.8                   | 0.95   | 163.8                  | 1.13   | 182.9                  | 1.05   | 600.8                  | 1.20   |
| 32.3           | 0.84   | 76.3                   | 1.02   | 30.8                   | 0.77   | 74.8                   | 0.96   | 174.8                  | 1.15   | 197.9                  | 1.07   | E Belts #              |        |
| 33.3           | 0.84   | 77.3                   | 1.02   | 31.8                   | 0.77   | 75.8                   | 0.96   | 181.8                  | 1.16   | 212.9                  | 1.08   | 184.5                  | 0.91   |
| 34.3           | 0.85   | 78.3                   | 1.02   | 32.8                   | 0.78   | 76.8                   | 0.97   | 191.8                  | 1.16   | 225.9                  | 1.10   | 199.5                  | 0.92   |
| 35.3           | 0.86   | 79.3                   | 1.03   | 33.8                   | 0.79   | 77.8                   | 0.97   | 196.8                  | 1.18   | 240.9                  | 1.11   | 214.5                  | 0.94   |
| 36.3           | 0.87   | 80.3                   | 1.03   | 34.8                   | 0.79   | 78.8                   | 0.97   | 206.8                  | 1.19   | 255.9                  | 1.12   | 241.0                  | 0.96   |
| 37.3           | 0.87   | 81.3                   | 1.04   | 35.8                   | 0.80   | 79.8                   | 0.97   | 211.8                  | 1.19   | 270.9                  | 1.14   | 271.0                  | 0.99   |
| 38.3           | 0.87   | 82.3                   | 1.04   | 36.8                   | 0.81   | 80.8                   | 0.97   | 225.3                  | 1.21   | 285.9                  | 1.15   | 301.0                  | 1.01   |
| 39.3           | 0.88   | 83.3                   | 1.04   | 37.8                   | 0.81   | 81.8                   | 0.97   | 240.3                  | 1.22   | 300.9                  | 1.16   | 331.0                  | 1.03   |
| 40.3           | 0.89   | 84.3                   | 1.04   | 38.8                   | 0.82   | 82.8                   | 0.98   | 255.3                  | 1.24   | 315.9                  | 1.18   | 361.0                  | 1.05   |
| 41.3           | 0.89   | 85.3                   | 1.05   | 39.8                   | 0.83   | 83.8                   | 0.98   | 270.3                  | 1.25   | 330.9                  | 1.19   | 391.0                  | 1.07   |
| 42.3           | 0.90   | 86.3                   | 1.05   | 40.8                   | 0.83   | 84.8                   | 0.98   | 285.3                  | 1.26   | 345.9                  | 1.20   | 421.0                  | 1.09   |
| 42.3           | 0.90   | 87.3                   | 1.05   | 41.8                   | 0.83   | 85.8                   | 0.99   | 300.3                  | 1.27   | 360.9                  | 1.21   | 481.0                  | 1.12   |
| 43.3           | 0.91   | 88.3                   | 1.05   | 42.8                   | 0.84   | 86.8                   | 0.99   | 315.3                  | 1.29   | 390.9                  | 1.23   | 541.0                  | 1.14   |
| 44.3           | 0.91   | 89.3                   | 1.06   | 43.8                   | 0.85   | 87.8                   | 0.99   | <b>C Belts</b>         |        | 420.9                  | 1.24   | 601.0                  | 1.17   |
| 45.3           | 0.92   | 90.3                   | 1.06   | 44.8                   | 0.85   | 88.8                   | 0.99   | 53.9                   | 0.80   | 450.9                  | 1.26   | ...                    | ...    |
| 46.3           | 0.92   | 91.3                   | 1.06   | 45.8                   | 0.85   | 89.8                   | 1.00   | 57.9                   | 0.81   | 480.9                  | 1.27   | ...                    | ...    |
| 47.3           | 0.93   | 92.3                   | 1.06   | 46.8                   | 0.86   | 90.8                   | 1.00   | 62.9                   | 0.82   | <b>D Belts</b>         |        | ...                    | ...    |
| 48.3           | 0.93   | 93.3                   | 1.07   | 47.8                   | 0.87   | 91.8                   | 1.00   | 70.9                   | 0.85   | 108.3                  | 0.83   | ...                    | ...    |
| 49.3           | 0.93   | 94.3                   | 1.07   | 48.8                   | 0.87   | 92.8                   | 1.00   | 73.9                   | 0.87   | 115.3                  | 0.84   | ...                    | ...    |
| 50.3           | 0.94   | 95.3                   | 1.07   | 49.8                   | 0.87   | 93.8                   | 1.00   | 77.9                   | 0.89   | 123.3                  | 0.86   | ...                    | ...    |
| 51.3           | 0.94   | 96.3                   | 1.07   | 50.8                   | 0.88   | 94.8                   | 1.01   | 83.9                   | 0.90   | 131.3                  | 0.87   | ...                    | ...    |
| 52.3           | 0.95   | 97.3                   | 1.08   | 51.8                   | 0.88   | 95.8                   | 1.01   | 87.9                   | 0.91   | 147.3                  | 0.90   | ...                    | ...    |
| 53.3           | 0.95   | 98.3                   | 1.08   | 52.8                   | 0.89   | 96.8                   | 1.01   | 92.9                   | 0.92   | 161.3                  | 0.92   | ...                    | ...    |
| 54.3           | 0.96   | 99.3                   | 1.08   | 53.8                   | 0.89   | 97.8                   | 1.01   | 98.9                   | 0.92   | 165.3                  | 0.92   | ...                    | ...    |
| 55.3           | 0.96   | 101.3                  | 1.08   | 54.8                   | 0.89   | 98.8                   | 1.02   | 99.9                   | 0.92   | 176.3                  | 0.93   | ...                    | ...    |
| 56.6           | 0.96   | 106.3                  | 1.10   | 55.8                   | 0.89   | 99.8                   | 1.02   | 101.9                  | 0.92   | 183.3                  | 0.94   | ...                    | ...    |
| 57.3           | 0.96   | 111.3                  | 1.11   | 56.8                   | 0.90   | 100.8                  | 1.02   | 103.9                  | 0.94   | 198.3                  | 0.96   | ...                    | ...    |

# E Belts recommended for replacement only, not for new drive design

Table 10 - Arc Correction Factors

| D-d‡ | Approx. Arc of Contact on Small Shv. | Factor | D-d‡ | Approx. Arc of Contact on Small Shv. | Factor |
|------|--------------------------------------|--------|------|--------------------------------------|--------|
| .00  | 180°                                 | 1.00   | .80  | 133°                                 | .87    |
| .10  | 174°                                 | .99    | .90  | 127°                                 | .85    |
| .20  | 169°                                 | .97    | 1.00 | 120°                                 | .82    |
| .30  | 163°                                 | .96    | 1.10 | 113°                                 | .80    |
| .40  | 157°                                 | .94    | 1.20 | 106°                                 | .77    |
| .50  | 151°                                 | .93    | 1.30 | 99°                                  | .73    |
| .60  | 145°                                 | .91    | 1.40 | 91°                                  | .70    |
| .70  | 139°                                 | .89    | 1.50 | 83°                                  | .65    |

‡ D = Dia. of large sheave.  
d = Dia. of small sheave.  
C = Center distance

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).



# SELECTION

## A S-L CLASSIC      AX CLASSIC COG      STOCK DRIVE SELECTIONS

| Ratio                          | Stock Shv.  |        | 3500 RPM Driver |             |       | 1750 RPM Driver |             |      | 1160 RPM Driver |             |      | Belt Size/Center Distance |          |          |          |          |          |          |
|--------------------------------|-------------|--------|-----------------|-------------|-------|-----------------|-------------|------|-----------------|-------------|------|---------------------------|----------|----------|----------|----------|----------|----------|
|                                | Datum Diam. |        | Driven RPM      | HP Per Belt |       | Driven RPM      | HP Per Belt |      | Driven RPM      | HP Per Belt |      | A26 AX26                  | A31 AX31 | A33 AX33 | A35 AX35 | A38 AX38 | A42 AX42 | A46 AX46 |
|                                | Driver      | Driven |                 | A           | AX    |                 | A           | AX   |                 | A           | AX   |                           |          |          |          |          |          |          |
| 1.00                           | 3.0         | 3.0    | 3500            | 3.42        | 4.61  | 1750            | 2.37        | 3.08 | 1160            | 1.78        | 2.33 | 8.9                       | 11.4     | 12.4     | 13.4     | 14.9     | 16.9     | 18.9     |
| 1.00                           | 3.4         | 3.4    | 3500            | 4.60        | 5.68  | 1750            | 3.09        | 3.72 | 1160            | 2.29        | 2.79 | 8.3                       | 10.8     | 11.8     | 12.8     | 14.3     | 16.3     | 18.3     |
| 1.00                           | 3.8         | 3.8    | 3500            | 5.72        | 6.70  | 1750            | 3.80        | 4.35 | 1160            | 2.79        | 3.24 | 7.7                       | 10.2     | 11.2     | 12.2     | 13.7     | 15.7     | 17.7     |
| 1.00                           | 4.2         | 4.2    | 3500            | 6.77        | 7.68  | 1750            | 4.49        | 4.96 | 1160            | 3.29        | 3.69 | 7.1                       | 9.6      | 10.6     | 11.6     | 13.1     | 15.1     | 17.1     |
| 1.00                           | 4.6         | 4.6    | 3500            | 7.75        | 8.62  | 1750            | 5.16        | 5.56 | 1160            | 3.77        | 4.13 | 6.4                       | 8.9      | 9.9      | 10.9     | 12.4     | 14.4     | 16.4     |
| 1.00                           | 5.0         | 5.0    | 3500            | 8.66        | 9.52  | 1750            | 5.83        | 6.15 | 1160            | 4.25        | 4.56 | ---                       | 8.3      | 9.3      | 10.3     | 11.8     | 13.8     | 15.8     |
| 1.00                           | 5.2         | 5.2    | 3500            | 9.09        | 9.96  | 1750            | 6.15        | 6.44 | 1160            | 4.49        | 4.77 | ---                       | 8.0      | 9.0      | 10.0     | 11.5     | 13.5     | 15.5     |
| 1.00                           | 6.0         | 6.0    | 3500            | 10.60       | 11.59 | 1750            | 7.42        | 7.57 | 1160            | 5.43        | 5.60 | ---                       | ---      | 7.7      | 8.7      | 10.2     | 12.2     | 14.2     |
| 1.00                           | 7.0         | 7.0    | 3500            | ---         | ---   | 1750            | 8.92        | 8.92 | 1160            | 6.56        | 6.61 | ---                       | ---      | ---      | ---      | 8.7      | 10.7     | 12.7     |
| 1.03                           | 5.6         | 5.8    | 3387            | 10.02       | 10.93 | 1693            | 6.86        | 7.08 | 1122            | 5.01        | 5.23 | ---                       | 7.2      | 8.2      | 9.2      | 10.7     | 12.7     | 14.7     |
| 1.04                           | 5.0         | 5.2    | 3375            | 8.81        | 9.67  | 1687            | 5.90        | 6.23 | 1118            | 4.30        | 4.60 | 5.6                       | 8.1      | 9.1      | 10.1     | 11.6     | 13.6     | 15.6     |
| 1.04                           | 4.2         | 4.4    | 3354            | 6.94        | 7.85  | 1677            | 4.57        | 5.05 | 1111            | 3.34        | 3.75 | 6.9                       | 9.4      | 10.4     | 11.4     | 12.9     | 14.9     | 16.9     |
| 1.05                           | 3.6         | 3.8    | 3333            | 5.36        | 6.39  | 1666            | 3.54        | 4.13 | 1104            | 2.61        | 3.08 | 7.8                       | 10.3     | 11.3     | 12.3     | 13.8     | 15.8     | 17.8     |
| 1.06                           | 3.0         | 3.2    | 3304            | 3.64        | 4.83  | 1652            | 2.48        | 3.19 | 1095            | 1.86        | 2.40 | 8.8                       | 11.3     | 12.3     | 13.3     | 14.8     | 16.8     | 18.8     |
| 1.06                           | 6.0         | 6.4    | 3294            | 10.83       | 11.82 | 1647            | 7.54        | 7.69 | 1092            | 5.50        | 5.68 | ---                       | 6.4      | 7.4      | 8.4      | 9.9      | 11.9     | 13.9     |
| 1.07                           | 5.2         | 5.6    | 3266            | 9.35        | 10.22 | 1633            | 6.28        | 6.57 | 1082            | 4.58        | 4.85 | ---                       | 7.7      | 8.7      | 9.7      | 11.2     | 13.2     | 15.2     |
| 1.08                           | 4.6         | 5.0    | 3240            | 8.04        | 8.91  | 1620            | 5.31        | 5.71 | 1074            | 3.87        | 4.22 | 6.1                       | 8.6      | 9.6      | 10.6     | 12.1     | 14.1     | 16.1     |
| 1.09                           | 4.0         | 4.4    | 3207            | 6.57        | 7.51  | 1604            | 4.30        | 4.82 | 1063            | 3.14        | 3.57 | 7.1                       | 9.6      | 10.6     | 11.6     | 13.1     | 15.1     | 17.1     |
| 1.09                           | 6.0         | 6.6    | 3199            | 10.92       | 11.91 | 1600            | 7.58        | 7.73 | 1060            | 5.53        | 5.71 | ---                       | 6.3      | 7.3      | 8.3      | 9.8      | 11.8     | 13.8     |
| 1.10                           | 5.6         | 6.2    | 3181            | 10.23       | 11.13 | 1590            | 6.96        | 7.18 | 1054            | 5.07        | 5.30 | ---                       | 6.9      | 7.9      | 8.9      | 10.4     | 12.4     | 14.4     |
| 1.10                           | 3.6         | 4.0    | 3180            | 5.51        | 6.53  | 1590            | 3.61        | 4.21 | 1054            | 2.66        | 3.13 | 7.7                       | 10.2     | 11.2     | 12.2     | 13.7     | 15.7     | 17.7     |
| 1.11                           | 5.2         | 5.8    | 3160            | 9.45        | 10.31 | 1580            | 6.33        | 6.62 | 1047            | 4.61        | 4.89 | ---                       | 7.5      | 8.5      | 9.5      | 11.0     | 13.0     | 15.0     |
| 1.11                           | 3.2         | 3.6    | 3148            | 4.38        | 5.52  | 1574            | 2.92        | 3.59 | 1043            | 2.16        | 2.68 | 8.3                       | 10.8     | 11.8     | 12.8     | 14.3     | 16.3     | 18.3     |
| 1.12                           | 4.8         | 5.4    | 3137            | 8.60        | 9.46  | 1568            | 5.69        | 6.05 | 1040            | 4.14        | 4.47 | 5.6                       | 8.1      | 9.1      | 10.1     | 11.6     | 13.6     | 15.6     |
| 1.12                           | 3.0         | 3.4    | 3130            | 3.80        | 5.00  | 1565            | 2.56        | 3.27 | 1037            | 1.91        | 2.46 | 8.6                       | 11.1     | 12.1     | 13.1     | 14.6     | 16.6     | 18.6     |
| 1.13                           | 4.2         | 4.8    | 3095            | 7.18        | 8.10  | 1547            | 4.69        | 5.17 | 1026            | 3.42        | 3.83 | 6.6                       | 9.1      | 10.1     | 11.1     | 12.6     | 14.6     | 16.6     |
| 1.13                           | 5.6         | 6.4    | 3087            | 10.31       | 11.21 | 1544            | 7.00        | 7.22 | 1023            | 5.10        | 5.33 | ---                       | 6.7      | 7.7      | 8.7      | 10.2     | 12.2     | 14.2     |
| 1.14                           | 3.8         | 4.4    | 3061            | 6.16        | 7.14  | 1530            | 4.02        | 4.57 | 1014            | 2.94        | 3.39 | 7.2                       | 9.7      | 10.7     | 11.7     | 13.2     | 15.2     | 17.2     |
| 1.15                           | 5.0         | 5.8    | 3047            | 9.12        | 9.97  | 1523            | 6.05        | 6.38 | 1010            | 4.40        | 4.70 | ---                       | 7.7      | 8.7      | 9.7      | 11.2     | 13.2     | 15.2     |
| 1.15                           | 3.6         | 4.2    | 3041            | 5.62        | 6.65  | 1521            | 3.67        | 4.27 | 1008            | 2.69        | 3.17 | 7.5                       | 10.0     | 11.0     | 12.0     | 13.5     | 15.5     | 17.5     |
| ARC-LENGTH CORRECTION FACTOR → |             |        |                 |             |       |                 |             |      |                 |             |      | 0.74                      | 0.79     | 0.81     | 0.82     | 0.84     | 0.87     | 0.89     |
| 1.16                           | 6.0         | 7.0    | 3026            | 11.07       | 12.06 | 1513            | 7.65        | 7.80 | 1003            | 5.58        | 5.75 | ---                       | ---      | 6.9      | 7.9      | 9.4      | 11.4     | 13.4     |
| 1.16                           | 3.4         | 4.0    | 3021            | 5.07        | 6.15  | 1510            | 3.33        | 3.96 | 1001            | 2.45        | 2.95 | 7.8                       | 10.3     | 11.3     | 12.3     | 13.8     | 15.8     | 17.8     |
| 1.16                           | 4.6         | 5.4    | 3016            | 8.23        | 9.10  | 1508            | 5.40        | 5.80 | 999             | 3.93        | 4.28 | 5.8                       | 8.3      | 9.3      | 10.3     | 11.8     | 13.8     | 15.8     |
| 1.17                           | 3.2         | 3.8    | 2998            | 4.50        | 5.64  | 1499            | 2.98        | 3.65 | 993             | 2.20        | 2.72 | 8.1                       | 10.7     | 11.7     | 12.7     | 14.2     | 16.2     | 18.2     |
| 1.18                           | 3.0         | 3.6    | 2972            | 3.92        | 5.12  | 1486            | 2.62        | 3.34 | 985             | 1.95        | 2.50 | 8.5                       | 11.0     | 12.0     | 13.0     | 14.5     | 16.5     | 18.5     |
| 1.18                           | 4.0         | 4.8    | 2959            | 6.77        | 7.71  | 1480            | 4.40        | 4.92 | 981             | 3.21        | 3.64 | 6.7                       | 9.2      | 10.2     | 11.2     | 12.7     | 14.7     | 16.7     |
| 1.19                           | 5.0         | 6.0    | 2951            | 9.19        | 10.04 | 1476            | 6.09        | 6.41 | 978             | 4.43        | 4.73 | ---                       | 7.5      | 8.5      | 9.5      | 11.0     | 13.0     | 15.0     |
| 1.19                           | 3.8         | 4.6    | 2938            | 6.25        | 7.23  | 1469            | 4.06        | 4.62 | 974             | 2.97        | 3.42 | 7.0                       | 9.5      | 10.5     | 11.5     | 13.0     | 15.1     | 17.1     |
| 1.21                           | 3.4         | 4.2    | 2889            | 5.16        | 6.24  | 1444            | 3.37        | 4.01 | 957             | 2.48        | 2.98 | 7.7                       | 10.2     | 11.2     | 12.2     | 13.7     | 15.7     | 17.7     |
| 1.22                           | 5.2         | 6.4    | 2881            | 9.66        | 10.53 | 1440            | 6.44        | 6.73 | 955             | 4.68        | 4.96 | ---                       | 7.0      | 8.0      | 9.0      | 10.5     | 12.5     | 14.5     |
| 1.23                           | 4.0         | 5.0    | 2849            | 6.84        | 7.78  | 1425            | 4.44        | 4.95 | 944             | 3.23        | 3.66 | 6.6                       | 9.1      | 10.1     | 11.1     | 12.6     | 14.6     | 16.6     |
| 1.23                           | 5.6         | 7.0    | 2836            | 10.48       | 11.39 | 1418            | 7.09        | 7.31 | 940             | 5.16        | 5.38 | ---                       | 6.2      | 7.2      | 8.2      | 9.7      | 11.7     | 13.7     |
| 1.24                           | 3.0         | 3.8    | 2830            | 4.02        | 5.21  | 1415            | 2.67        | 3.38 | 938             | 1.98        | 2.53 | 8.3                       | 10.8     | 11.8     | 12.8     | 14.3     | 16.3     | 18.3     |
| 1.24                           | 3.8         | 4.8    | 2824            | 6.32        | 7.30  | 1412            | 4.10        | 4.65 | 936             | 2.99        | 3.44 | 6.9                       | 9.4      | 10.4     | 11.4     | 12.9     | 14.9     | 16.9     |
| 1.24                           | 4.6         | 5.8    | 2820            | 8.36        | 9.23  | 1410            | 5.47        | 5.87 | 935             | 3.97        | 4.33 | 5.5                       | 8.0      | 9.0      | 10.0     | 11.5     | 13.5     | 15.5     |
| 1.25                           | 5.2         | 6.6    | 2798            | 9.71        | 10.57 | 1399            | 6.46        | 6.75 | 927             | 4.70        | 4.97 | ---                       | 6.9      | 7.9      | 8.9      | 10.4     | 12.4     | 14.4     |
| 1.26                           | 4.2         | 5.4    | 2773            | 7.40        | 8.31  | 1387            | 4.80        | 5.28 | 919             | 3.50        | 3.90 | 6.1                       | 8.6      | 9.6      | 10.6     | 12.1     | 14.1     | 16.1     |
| 1.27                           | 6.4         | 8.2    | 2766            | 11.86       | 12.98 | 1383            | 8.35        | 8.44 | 917             | 6.10        | 6.22 | ---                       | ---      | ---      | ---      | 8.1      | 10.1     | 12.2     |
| 1.27                           | 4.8         | 6.2    | 2755            | 8.86        | 9.72  | 1378            | 5.82        | 6.18 | 913             | 4.23        | 4.55 | ---                       | 7.5      | 8.5      | 9.5      | 11.0     | 13.0     | 15.0     |
| 1.28                           | 4.6         | 6.0    | 2732            | 8.41        | 9.28  | 1366            | 5.49        | 5.89 | 905             | 3.99        | 4.34 | 5.3                       | 7.8      | 8.8      | 9.8      | 11.3     | 13.3     | 15.3     |
| 1.29                           | 3.8         | 5.0    | 2719            | 6.38        | 7.36  | 1360            | 4.13        | 4.68 | 901             | 3.01        | 3.46 | 6.7                       | 9.2      | 10.2     | 11.2     | 12.7     | 14.7     | 16.7     |
| 1.30                           | 3.0         | 4.0    | 2701            | 4.09        | 5.28  | 1350            | 2.71        | 3.42 | 895             | 2.01        | 2.55 | 8.1                       | 10.6     | 11.6     | 12.6     | 14.1     | 16.1     | 18.1     |
| 1.30                           | 3.6         | 4.8    | 2689            | 5.84        | 6.87  | 1345            | 3.78        | 4.38 | 891             | 2.77        | 3.24 | 7.0                       | 9.5      | 10.5     | 11.5     | 13.0     | 15.0     | 17.0     |
| 1.31                           | 4.8         | 6.4    | 2674            | 8.90        | 9.76  | 1337            | 5.84        | 6.20 | 886             | 4.24        | 4.57 | ---                       | 7.3      | 8.3      | 9.3      | 10.8     | 12.8     | 14.8     |
| 1.32                           | 4.0         | 5.4    | 2652            | 6.95        | 7.89  | 1326            | 4.49        | 5.01 | 879             | 3.27        | 3.70 | 6.2                       | 8.7      | 9.7      | 10.7     | 12.3     | 14.3     | 16.3     |
| 1.32                           | 5.2         | 7.0    | 2646            | 9.79        | 10.65 | 1323            | 6.50        | 6.79 | 877             | 4.72        | 5.00 | ---                       | 6.5      | 7.5      | 8.5      | 10.0     | 12.0     | 14.0     |
| 1.33                           | 5.6         | 7.6    | 2623            | 10.59       | 11.50 | 1311            | 7.15        | 7.36 | 869             | 5.20        | 5.42 | ---                       | ---      | 6.7      | 7.7      | 9.2      | 11.2     | 13.3     |
| 1.34                           | 3.2         | 4.4    | 2621            | 4.72        | 5.86  | 1311            | 3.09        | 3.76 | 869             | 2.27        | 2.80 | 7.7                       | 10.2     | 11.2     | 12.2     | 13.7     | 15.7     | 17.7     |
| 1.34                           | 6.0         | 8.2    | 2603            | 11.31       | 12.31 | 1301            | 7.78        | 7.93 | 863             | 5.66        | 5.84 | ---                       | ---      | ---      | 6.9      | 8.4      | 10.4     | 12.5     |
| 1.35                           | 4.2         | 5.8    | 2594            | 7.49        | 8.40  | 1297            | 4.85        | 5.32 | 860             | 3.52        | 3.93 | 5.7                       | 8.3      | 9.3      | 10.3     | 11.8     | 13.8     | 15.8     |
| ARC-LENGTH CORRECTION FACTOR → |             |        |                 |             |       |                 |             |      |                 |             |      | 0.74                      | 0.78     | 0.80     | 0.82     | 0.84     | 0.87     | 0.89     |

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

# SELECTION



## A S-L CLASSIC      AX CLASSIC COG      STOCK DRIVE SELECTIONS

| Ratio | Belt Size/Center Distance |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-------|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|       | A48 AX48                  | A51 AX51    | A53 AX53    | A55 AX55    | A60 AX60    | A64 AX64    | A66 AX66    | A68 AX68    | A71 AX71    | A75 AX75    | A78 AX78    | A80 AX80    | A85 AX85    | A90 AX90    | A96 AX96    | A105 AX105  | A112 AX112  | A120 AX120  | A128 AX128  |
| 1.00  | 19.9                      | 21.4        | 22.4        | 23.4        | 25.9        | 27.9        | 28.9        | 29.9        | 31.4        | 33.4        | 34.9        | 35.9        | 38.4        | 40.9        | 43.9        | 48.4        | 51.9        | 55.9        | 59.9        |
| 1.00  | 19.3                      | 20.8        | 21.8        | 22.8        | 25.3        | 27.3        | 28.3        | 29.3        | 30.8        | 32.8        | 34.3        | 35.3        | 37.8        | 40.3        | 43.3        | 47.8        | 51.3        | 55.3        | 59.3        |
| 1.00  | 18.7                      | 20.2        | 21.2        | 22.2        | 24.7        | 26.7        | 27.7        | 28.7        | 30.2        | 32.2        | 33.7        | 34.7        | 37.2        | 39.7        | 42.7        | 47.2        | 50.7        | 54.7        | 58.7        |
| 1.00  | 18.1                      | 19.6        | 20.6        | 21.6        | 24.1        | 26.1        | 27.1        | 28.1        | 29.6        | 31.6        | 33.1        | 34.1        | 36.6        | 39.1        | 42.1        | 46.6        | 50.1        | 54.1        | 58.1        |
| 1.00  | 17.4                      | 18.9        | 19.9        | 20.9        | 23.4        | 25.4        | 26.4        | 27.4        | 28.9        | 30.9        | 32.4        | 33.4        | 35.9        | 38.4        | 41.4        | 45.9        | 49.4        | 53.4        | 57.4        |
| 1.00  | 16.8                      | 18.3        | 19.3        | 20.3        | 22.8        | 24.8        | 25.8        | 26.8        | 28.3        | 30.3        | 31.8        | 32.8        | 35.3        | 37.8        | 40.8        | 45.3        | 48.8        | 52.8        | 56.8        |
| 1.00  | 16.5                      | 18.0        | 19.0        | 20.0        | 22.5        | 24.5        | 25.5        | 26.5        | 28.0        | 30.0        | 31.5        | 32.5        | 35.0        | 37.5        | 40.5        | 45.0        | 48.5        | 52.5        | 56.5        |
| 1.00  | 15.2                      | 16.7        | 17.7        | 18.7        | 21.2        | 23.2        | 24.2        | 25.2        | 26.7        | 28.7        | 30.2        | 31.2        | 33.7        | 36.2        | 39.2        | 43.7        | 47.2        | 51.2        | 55.2        |
| 1.00  | 13.7                      | 15.2        | 16.2        | 17.2        | 19.7        | 21.7        | 22.7        | 23.7        | 25.2        | 27.2        | 28.7        | 29.7        | 32.2        | 34.7        | 37.7        | 42.2        | 45.7        | 49.7        | 53.7        |
| 1.03  | 15.7                      | 17.2        | 18.2        | 19.2        | 21.7        | 23.7        | 24.7        | 25.7        | 27.2        | 29.2        | 30.7        | 31.7        | 34.2        | 36.7        | 39.7        | 44.2        | 47.7        | 51.7        | 55.7        |
| 1.04  | 16.6                      | 18.1        | 19.1        | 20.1        | 22.6        | 24.6        | 25.6        | 26.6        | 28.1        | 30.1        | 31.6        | 32.6        | 35.1        | 37.6        | 40.6        | 45.1        | 48.6        | 52.6        | 56.6        |
| 1.04  | 17.9                      | 19.4        | 20.4        | 21.4        | 23.9        | 25.9        | 26.9        | 27.9        | 29.4        | 31.4        | 32.9        | 33.9        | 36.4        | 38.9        | 41.9        | 46.4        | 49.9        | 53.9        | 57.9        |
| 1.05  | 18.8                      | 20.3        | 21.3        | 22.3        | 24.8        | 26.8        | 27.8        | 28.8        | 30.3        | 32.3        | 33.8        | 34.8        | 37.3        | 39.8        | 42.8        | 47.3        | 50.8        | 54.8        | 58.8        |
| 1.06  | 19.8                      | 21.3        | 22.3        | 23.3        | 25.8        | 27.8        | 28.8        | 29.8        | 31.3        | 33.3        | 34.8        | 35.8        | 38.3        | 40.8        | 43.8        | 48.3        | 51.8        | 55.8        | 59.8        |
| 1.06  | 14.9                      | 16.4        | 17.4        | 18.4        | 20.9        | 22.9        | 23.9        | 24.9        | 26.4        | 28.4        | 29.9        | 30.9        | 33.4        | 35.9        | 38.9        | 43.4        | 46.9        | 50.9        | 54.9        |
| 1.07  | 16.2                      | 17.7        | 18.7        | 19.7        | 22.2        | 24.2        | 25.2        | 26.2        | 27.7        | 29.7        | 31.2        | 32.2        | 34.7        | 37.2        | 40.2        | 44.7        | 48.2        | 52.2        | 56.2        |
| 1.08  | 17.1                      | 18.6        | 19.6        | 20.6        | 23.1        | 25.1        | 26.1        | 27.1        | 28.6        | 30.6        | 32.1        | 33.1        | 35.6        | 38.1        | 41.1        | 45.6        | 49.1        | 53.1        | 57.1        |
| 1.09  | 18.1                      | 19.6        | 20.6        | 21.6        | 24.1        | 26.1        | 27.1        | 28.1        | 29.6        | 31.6        | 33.1        | 34.1        | 36.6        | 39.1        | 42.1        | 46.6        | 50.1        | 54.1        | 58.1        |
| 1.09  | 14.8                      | 16.3        | 17.3        | 18.3        | 20.8        | 22.8        | 23.8        | 24.8        | 26.3        | 28.3        | 29.8        | 30.8        | 33.3        | 35.8        | 38.8        | 43.3        | 46.8        | 50.8        | 54.8        |
| 1.10  | 15.4                      | 16.9        | 17.9        | 18.9        | 21.4        | 23.4        | 24.4        | 25.4        | 26.9        | 28.9        | 30.4        | 31.4        | 33.9        | 36.4        | 39.4        | 43.9        | 47.4        | 51.4        | 55.4        |
| 1.10  | 18.7                      | 20.2        | 21.2        | 22.2        | 24.7        | 26.7        | 27.7        | 28.7        | 30.2        | 32.2        | 33.7        | 34.7        | 37.2        | 39.7        | 42.7        | 47.2        | 50.7        | 54.7        | 58.7        |
| 1.11  | 16.0                      | 17.5        | 18.5        | 19.5        | 22.0        | 24.0        | 25.0        | 26.0        | 27.5        | 29.5        | 31.0        | 32.0        | 34.5        | 37.0        | 40.0        | 44.5        | 48.0        | 52.0        | 56.0        |
| 1.11  | 19.3                      | 20.8        | 21.8        | 22.8        | 25.3        | 27.3        | 28.3        | 29.3        | 30.8        | 32.8        | 34.3        | 35.3        | 37.8        | 40.3        | 43.3        | 47.8        | 51.3        | 55.3        | 59.3        |
| 1.12  | 16.6                      | 18.1        | 19.1        | 20.1        | 22.6        | 24.6        | 25.6        | 26.6        | 28.1        | 30.1        | 31.6        | 32.6        | 35.1        | 37.6        | 40.6        | 45.1        | 48.6        | 52.6        | 56.6        |
| 1.12  | 19.6                      | 21.1        | 22.1        | 23.1        | 25.6        | 27.6        | 28.6        | 29.6        | 31.1        | 33.1        | 34.6        | 35.6        | 38.1        | 40.6        | 43.6        | 48.1        | 51.6        | 55.6        | 59.6        |
| 1.13  | 17.6                      | 19.1        | 20.1        | 21.1        | 23.6        | 25.6        | 26.6        | 27.6        | 29.1        | 31.1        | 32.6        | 33.6        | 36.1        | 38.6        | 41.6        | 46.1        | 49.6        | 53.6        | 57.6        |
| 1.13  | 15.2                      | 16.7        | 17.7        | 18.7        | 21.2        | 23.2        | 24.2        | 25.2        | 26.7        | 28.7        | 30.2        | 31.2        | 33.7        | 36.2        | 39.2        | 43.7        | 47.2        | 51.2        | 55.2        |
| 1.14  | 18.2                      | 19.7        | 20.7        | 21.7        | 24.2        | 26.2        | 27.2        | 28.2        | 29.7        | 31.7        | 33.2        | 34.2        | 36.7        | 39.2        | 42.2        | 46.7        | 50.2        | 54.2        | 58.2        |
| 1.15  | 16.2                      | 17.7        | 18.7        | 19.7        | 22.2        | 24.2        | 25.2        | 26.2        | 27.7        | 29.7        | 31.2        | 32.2        | 34.7        | 37.2        | 40.2        | 44.7        | 48.2        | 52.2        | 56.2        |
| 1.15  | 18.5                      | 20.0        | 21.0        | 22.0        | 24.5        | 26.5        | 27.5        | 28.5        | 30.0        | 32.0        | 33.5        | 34.5        | 37.0        | 39.5        | 42.5        | 47.0        | 50.5        | 54.5        | 58.5        |
|       | <b>0.90</b>               | <b>0.92</b> | <b>0.93</b> | <b>0.94</b> | <b>0.96</b> | <b>0.97</b> | <b>0.99</b> | <b>1.00</b> | <b>1.01</b> | <b>1.02</b> | <b>1.03</b> | <b>1.04</b> | <b>1.06</b> | <b>1.07</b> | <b>1.09</b> | <b>1.12</b> | <b>1.13</b> | <b>1.15</b> | <b>1.17</b> |
| 1.16  | 14.4                      | 15.9        | 16.9        | 17.9        | 20.4        | 22.4        | 23.4        | 24.4        | 25.9        | 27.9        | 29.4        | 30.4        | 32.9        | 35.4        | 38.4        | 42.9        | 46.4        | 50.4        | 54.4        |
| 1.16  | 18.8                      | 20.3        | 21.3        | 22.3        | 24.8        | 26.8        | 27.8        | 28.8        | 30.3        | 32.3        | 33.8        | 34.8        | 37.3        | 39.8        | 42.8        | 47.3        | 50.8        | 54.8        | 58.8        |
| 1.16  | 16.8                      | 18.3        | 19.3        | 20.3        | 22.8        | 24.8        | 25.8        | 26.8        | 28.3        | 30.3        | 31.8        | 32.8        | 35.3        | 37.8        | 40.8        | 45.3        | 48.8        | 52.8        | 56.8        |
| 1.17  | 19.2                      | 20.7        | 21.7        | 22.7        | 25.2        | 27.2        | 28.2        | 29.2        | 30.7        | 32.7        | 34.2        | 35.2        | 37.7        | 40.2        | 43.2        | 47.7        | 51.2        | 55.2        | 59.2        |
| 1.18  | 19.5                      | 21.0        | 22.0        | 23.0        | 25.5        | 27.5        | 28.5        | 29.5        | 31.0        | 33.0        | 34.5        | 35.5        | 38.0        | 40.5        | 43.5        | 48.0        | 51.5        | 55.5        | 59.5        |
| 1.18  | 17.7                      | 19.2        | 20.2        | 21.2        | 23.7        | 25.7        | 26.7        | 27.7        | 29.2        | 31.2        | 32.7        | 33.7        | 36.2        | 38.7        | 41.7        | 46.2        | 49.7        | 53.7        | 57.7        |
| 1.19  | 16.0                      | 17.5        | 18.5        | 19.5        | 22.0        | 24.0        | 25.0        | 26.0        | 27.5        | 29.5        | 31.0        | 32.0        | 34.5        | 37.0        | 40.0        | 44.5        | 48.0        | 52.0        | 56.0        |
| 1.19  | 18.1                      | 19.6        | 20.6        | 21.6        | 24.1        | 26.1        | 27.1        | 28.1        | 29.6        | 31.6        | 33.1        | 34.1        | 36.6        | 39.1        | 42.1        | 46.6        | 50.1        | 54.1        | 58.1        |
| 1.21  | 18.7                      | 20.2        | 21.2        | 22.2        | 24.7        | 26.7        | 27.7        | 28.7        | 30.2        | 32.2        | 33.7        | 34.7        | 37.2        | 39.7        | 42.7        | 47.2        | 50.7        | 54.7        | 58.7        |
| 1.22  | 15.5                      | 17.0        | 18.0        | 19.0        | 21.5        | 23.5        | 24.5        | 25.5        | 27.0        | 29.0        | 30.5        | 31.5        | 34.0        | 36.5        | 39.5        | 44.0        | 47.5        | 51.5        | 55.5        |
| 1.23  | 17.6                      | 19.1        | 20.1        | 21.1        | 23.6        | 25.6        | 26.6        | 27.6        | 29.1        | 31.1        | 32.6        | 33.6        | 36.1        | 38.6        | 41.6        | 46.1        | 49.6        | 53.6        | 57.6        |
| 1.23  | 14.7                      | 16.2        | 17.2        | 18.2        | 20.7        | 22.7        | 23.7        | 24.7        | 26.2        | 28.2        | 29.7        | 30.7        | 33.2        | 35.7        | 38.7        | 43.2        | 46.7        | 50.7        | 54.7        |
| 1.24  | 19.3                      | 20.8        | 21.8        | 22.8        | 25.3        | 27.3        | 28.3        | 29.3        | 30.8        | 32.8        | 34.3        | 35.3        | 37.8        | 40.3        | 43.3        | 47.8        | 51.3        | 55.3        | 59.3        |
| 1.24  | 17.9                      | 19.4        | 20.4        | 21.4        | 23.9        | 25.9        | 26.9        | 27.9        | 29.4        | 31.4        | 32.9        | 33.9        | 36.4        | 38.9        | 41.9        | 46.4        | 49.9        | 53.9        | 57.9        |
| 1.24  | 16.5                      | 18.0        | 19.0        | 20.0        | 22.5        | 24.5        | 25.5        | 26.5        | 28.0        | 30.0        | 31.5        | 32.5        | 35.0        | 37.5        | 40.5        | 45.0        | 48.5        | 52.5        | 56.5        |
| 1.25  | 15.4                      | 16.9        | 17.9        | 18.9        | 21.4        | 23.4        | 24.4        | 25.4        | 26.9        | 28.9        | 30.4        | 31.4        | 33.9        | 36.4        | 39.4        | 43.9        | 47.4        | 51.4        | 55.4        |
| 1.26  | 17.1                      | 18.6        | 19.6        | 20.6        | 23.1        | 25.1        | 26.1        | 27.1        | 28.6        | 30.6        | 32.1        | 33.1        | 35.6        | 38.1        | 41.1        | 45.6        | 49.1        | 53.1        | 57.1        |
| 1.27  | 13.2                      | 14.7        | 15.7        | 16.7        | 19.2        | 21.2        | 22.2        | 23.2        | 24.7        | 26.7        | 28.2        | 29.2        | 31.7        | 34.2        | 37.2        | 41.7        | 45.2        | 49.2        | 53.2        |
| 1.27  | 16.0                      | 17.5        | 18.5        | 19.5        | 22.0        | 24.0        | 25.0        | 26.0        | 27.5        | 29.5        | 31.0        | 32.0        | 34.5        | 37.0        | 40.0        | 44.5        | 48.0        | 52.0        | 56.0        |
| 1.28  | 16.3                      | 17.8        | 18.8        | 19.8        | 22.3        | 24.3        | 25.3        | 26.3        | 27.8        | 29.8        | 31.3        | 32.3        | 34.8        | 37.3        | 40.3        | 44.8        | 48.3        | 52.3        | 56.3        |
| 1.29  | 17.7                      | 19.2        | 20.2        | 21.2        | 23.7        | 25.7        | 26.7        | 27.7        | 29.2        | 31.2        | 32.7        | 33.7        | 36.2        | 38.7        | 41.7        | 46.2        | 49.7        | 53.7        | 57.7        |
| 1.30  | 19.1                      | 20.6        | 21.6        | 22.6        | 25.1        | 27.1        | 28.1        | 29.1        | 30.6        | 32.6        | 34.1        | 35.1        | 37.6        | 40.1        | 43.1        | 47.6        | 51.1        | 55.1        | 59.1        |
| 1.30  | 18.0                      | 19.5        | 20.5        | 21.5        | 24.0        | 26.0        | 27.0        | 28.0        | 29.5        | 31.5        | 33.0        | 34.0        | 36.5        | 39.0        | 42.0        | 46.5        | 50.0        | 54.0        | 58.0        |
| 1.31  | 15.8                      | 17.3        | 18.3        | 19.3        | 21.8        | 23.8        | 24.8        | 25.8        | 27.3        | 29.3        | 30.8        | 31.8        | 34.3        | 36.8        | 39.8        | 44.3        | 47.8        | 51.8        | 55.8        |
| 1.32  | 17.3                      | 18.8        | 19.8        | 20.8        | 23.3        | 25.3        | 26.3        | 27.3        | 28.8        | 30.8        | 32.3        | 33.3        | 35.8        | 38.3        | 41.3        | 45.8        | 49.3        | 53.3        | 57.3        |
| 1.32  | 15.0                      | 16.5        | 17.5        | 18.5        | 21.0        | 23.0        | 24.0        | 25.0        | 26.5        | 28.5        | 30.0        | 31.0        | 33.5        | 36.0        | 39.0        | 43.5        | 47.0        | 51.0        | 55.0        |
| 1.33  | 14.3                      | 15.8        | 16.8        | 17.8        | 20.3        | 22.3        | 23.3        | 24.3        | 25.8        | 27.8        | 29.3        | 30.3        | 32.8        | 35.3        | 38.3        | 42.8        | 46.3        | 50.3        | 54.3        |
| 1.34  | 18.7                      | 20.2        | 21.2        | 22.2        | 24.7        | 26.7        | 27.7        | 28.7        | 30.2        | 32.2        | 33.7        | 34.7        | 37.2        | 39.7        | 42.7        | 47.2        | 50.7        | 54.7        | 58.7        |
| 1.34  | 13.5                      | 15.0        | 16.0        | 17.0        | 19.5        | 21.5        | 22.5        | 23.5        | 25.0        | 27.0        | 28.5        | 29.5        | 32.0        | 34.5        | 37.5        | 42.0        | 45.5        | 49.5        | 53.5        |
| 1.35  | 16.8                      | 18.3        | 19.3        | 20.3        | 22.8        | 24.8        | 25.8        | 26.8        | 28.3        | 30.3        | 31.8        | 32.8        | 35.3        | 37.8        | 40.8        | 45.3        | 48.8        | 52.8        | 56.8        |
|       | <b>0.90</b>               | <b>0.92</b> | <b>0.93</b> | <b>0.94</b> | <b>0.96</b> | <b>0.97</b> | <b>0.99</b> | <b>1.00</b> | <b>1.01</b> | <b>1.02</b> | <b>1.03</b> | <b>1.04</b> | <b>1.06</b> | <b>1.07</b> | <b>1.09</b> | <b>1.11</b> | <b>1.13</b> | <b>1.15</b> | <b>1.17</b> |

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

V-Drives

FHP Drives

Drive Component Accessories





# SELECTION

## A S-L CLASSIC AX CLASSIC COG STOCK DRIVE SELECTIONS

| Ratio                          | Stock Shv.  |        | 3500 RPM Driver |             |       | 1750 RPM Driver |             |      | 1160 RPM Driver |             |      | Belt Size/Center Distance |          |          |          |          |          |          |
|--------------------------------|-------------|--------|-----------------|-------------|-------|-----------------|-------------|------|-----------------|-------------|------|---------------------------|----------|----------|----------|----------|----------|----------|
|                                | Datum Diam. |        | Driven RPM      | HP Per Belt |       | Driven RPM      | HP Per Belt |      | Driven RPM      | HP Per Belt |      | A26 AX26                  | A31 AX31 | A33 AX33 | A35 AX35 | A38 AX38 | A42 AX42 | A46 AX46 |
|                                | Driver      | Driven |                 | A           | AX    |                 | A           | AX   |                 | A           | AX   |                           |          |          |          |          |          |          |
| 1.36                           | 3.0         | 4.2    | 2583            | 4.14        | 5.34  | 1291            | 2.73        | 3.44 | 856             | 2.02        | 2.57 | 8.0                       | 10.5     | 11.5     | 12.5     | 14.0     | 16.0     | 18.0     |
| 1.36                           | 4.6         | 6.4    | 2571            | 8.48        | 9.35  | 1285            | 5.53        | 5.93 | 852             | 4.01        | 4.37 | ---                       | 7.5      | 8.5      | 9.5      | 11.0     | 13.0     | 15.0     |
| 1.37                           | 5.0         | 7.0    | 2551            | 9.40        | 10.26 | 1276            | 6.19        | 6.52 | 846             | 4.50        | 4.80 | ---                       | 6.7      | 7.7      | 8.7      | 10.2     | 12.2     | 14.2     |
| 1.38                           | 3.8         | 5.4    | 2531            | 6.46        | 7.45  | 1266            | 4.17        | 4.72 | 839             | 3.04        | 3.49 | 6.4                       | 8.9      | 9.9      | 10.9     | 12.4     | 14.4     | 16.4     |
| 1.38                           | 6.4         | 9.0    | 2530            | 11.97       | 13.09 | 1265            | 8.41        | 8.49 | 838             | 6.13        | 6.25 | ---                       | ---      | ---      | ---      | 7.4      | 9.5      | 11.5     |
| 1.40                           | 4.6         | 6.6    | 2497            | 8.51        | 9.38  | 1249            | 5.54        | 5.94 | 828             | 4.02        | 4.38 | ---                       | 7.3      | 8.3      | 9.3      | 10.8     | 12.8     | 14.8     |
| 1.40                           | 3.6         | 5.2    | 2496            | 5.92        | 6.95  | 1248            | 3.82        | 4.42 | 827             | 2.79        | 3.27 | 6.7                       | 9.2      | 10.2     | 11.2     | 12.7     | 14.7     | 16.7     |
| 1.41                           | 3.0         | 4.4    | 2475            | 4.18        | 5.38  | 1237            | 2.75        | 3.47 | 820             | 2.04        | 2.58 | 7.8                       | 10.3     | 11.3     | 12.3     | 13.8     | 15.8     | 17.8     |
| 1.42                           | 4.8         | 7.0    | 2457            | 8.99        | 9.85  | 1228            | 5.88        | 6.25 | 814             | 4.27        | 4.60 | ---                       | 6.8      | 7.8      | 8.8      | 10.3     | 12.3     | 14.3     |
| 1.43                           | 5.6         | 8.2    | 2439            | 10.66       | 11.57 | 1220            | 7.18        | 7.40 | 808             | 5.22        | 5.44 | ---                       | ---      | ---      | 7.2      | 8.7      | 10.7     | 12.8     |
| 1.44                           | 4.2         | 6.2    | 2436            | 7.55        | 8.46  | 1218            | 4.88        | 5.35 | 807             | 3.54        | 3.95 | 5.4                       | 7.9      | 8.9      | 9.9      | 11.4     | 13.4     | 15.5     |
| 1.45                           | 3.2         | 4.8    | 2419            | 4.80        | 5.94  | 1209            | 3.13        | 3.80 | 802             | 2.30        | 2.82 | 7.3                       | 9.8      | 10.8     | 11.8     | 13.3     | 15.3     | 17.4     |
| 1.47                           | 3.0         | 4.6    | 2376            | 4.22        | 5.41  | 1188            | 2.77        | 3.48 | 787             | 2.05        | 2.60 | 7.6                       | 10.2     | 11.2     | 12.2     | 13.7     | 15.7     | 17.7     |
| 1.48                           | 3.8         | 5.8    | 2367            | 6.52        | 7.50  | 1184            | 4.20        | 4.75 | 785             | 3.06        | 3.51 | 6.0                       | 8.6      | 9.6      | 10.6     | 12.1     | 14.1     | 16.1     |
| 1.48                           | 4.6         | 7.0    | 2362            | 8.56        | 9.43  | 1181            | 5.56        | 5.97 | 783             | 4.04        | 4.39 | ---                       | 6.9      | 8.0      | 9.0      | 10.5     | 12.5     | 14.5     |
| 1.50                           | 4.0         | 6.2    | 2330            | 7.07        | 8.01  | 1165            | 4.55        | 5.07 | 772             | 3.31        | 3.74 | 5.5                       | 8.1      | 9.1      | 10.1     | 11.6     | 13.6     | 15.6     |
| 1.50                           | 3.2         | 5.0    | 2329            | 4.83        | 5.97  | 1164            | 3.14        | 3.81 | 772             | 2.31        | 2.83 | 7.2                       | 9.7      | 10.7     | 11.7     | 13.2     | 15.2     | 17.2     |
| 1.53                           | 3.4         | 5.4    | 2289            | 5.42        | 6.50  | 1144            | 3.50        | 4.14 | 759             | 2.56        | 3.07 | 6.7                       | 9.2      | 10.2     | 11.2     | 12.7     | 14.7     | 16.7     |
| 1.53                           | 3.0         | 4.8    | 2284            | 4.24        | 5.44  | 1142            | 2.78        | 3.50 | 757             | 2.06        | 2.60 | 7.5                       | 10.0     | 11.0     | 12.0     | 13.5     | 15.5     | 17.5     |
| 1.54                           | 5.2         | 8.2    | 2276            | 9.92        | 10.79 | 1138            | 6.57        | 6.86 | 754             | 4.77        | 5.04 | ---                       | ---      | 6.5      | 7.5      | 9.0      | 11.0     | 13.0     |
| 1.55                           | 4.0         | 6.4    | 2261            | 7.08        | 8.03  | 1131            | 4.56        | 5.08 | 749             | 3.32        | 3.74 | 5.4                       | 7.9      | 8.9      | 9.9      | 11.4     | 13.4     | 15.4     |
| 1.56                           | 3.2         | 5.2    | 2246            | 4.85        | 5.99  | 1123            | 3.15        | 3.82 | 744             | 2.32        | 2.84 | 7.0                       | 9.5      | 10.5     | 11.5     | 13.0     | 15.0     | 17.0     |
| 1.57                           | 5.6         | 9.0    | 2231            | 10.73       | 11.64 | 1116            | 7.21        | 7.43 | 740             | 5.24        | 5.46 | ---                       | ---      | ---      | ---      | 8.0      | 10.0     | 12.1     |
| 1.59                           | 3.0         | 5.0    | 2199            | 4.27        | 5.46  | 1099            | 2.79        | 3.51 | 729             | 2.06        | 2.61 | 7.3                       | 9.8      | 10.8     | 11.8     | 13.3     | 15.3     | 17.3     |
| 1.59                           | 4.0         | 6.6    | 2196            | 7.10        | 8.05  | 1098            | 4.57        | 5.08 | 728             | 3.32        | 3.75 | ---                       | 7.7      | 8.7      | 9.7      | 11.3     | 13.3     | 15.3     |
| 1.59                           | 5.0         | 8.2    | 2195            | 9.51        | 10.37 | 1097            | 6.25        | 6.58 | 727             | 4.53        | 4.84 | ---                       | ---      | 6.6      | 7.6      | 9.1      | 11.2     | 13.2     |
| 1.60                           | 3.6         | 6.0    | 2183            | 6.02        | 7.05  | 1092            | 3.87        | 4.47 | 724             | 2.82        | 3.30 | 6.0                       | 8.5      | 9.5      | 10.5     | 12.1     | 14.1     | 16.1     |
| 1.61                           | 4.2         | 7.0    | 2172            | 7.62        | 8.54  | 1086            | 4.91        | 5.39 | 720             | 3.57        | 3.97 | ---                       | 7.2      | 8.2      | 9.3      | 10.8     | 12.8     | 14.8     |
| 1.61                           | 3.2         | 5.4    | 2168            | 4.87        | 6.01  | 1084            | 3.16        | 3.83 | 718             | 2.32        | 2.85 | 6.8                       | 9.3      | 10.3     | 11.3     | 12.9     | 14.9     | 16.9     |
| 1.65                           | 3.0         | 5.2    | 2120            | 4.28        | 5.48  | 1060            | 2.80        | 3.52 | 703             | 2.07        | 2.62 | 7.1                       | 9.7      | 10.7     | 11.7     | 13.2     | 15.2     | 17.2     |
| ARC-LENGTH CORRECTION FACTOR → |             |        |                 |             |       |                 |             |      |                 |             |      | 0.73                      | 0.78     | 0.80     | 0.81     | 0.83     | 0.86     | 0.89     |
| 1.65                           | 3.6         | 6.2    | 2117            | 6.03        | 7.06  | 1059            | 3.88        | 4.47 | 702             | 2.83        | 3.31 | 5.8                       | 8.4      | 9.4      | 10.4     | 11.9     | 13.9     | 15.9     |
| 1.66                           | 4.8         | 8.2    | 2113            | 9.09        | 9.95  | 1057            | 5.93        | 6.29 | 700             | 4.30        | 4.63 | ---                       | ---      | 6.7      | 7.8      | 9.3      | 11.3     | 13.3     |
| 1.67                           | 3.8         | 6.6    | 2096            | 6.59        | 7.57  | 1048            | 4.23        | 4.79 | 695             | 3.08        | 3.53 | 5.3                       | 7.9      | 8.9      | 9.9      | 11.4     | 13.4     | 15.4     |
| 1.68                           | 5.2         | 9.0    | 2082            | 9.97        | 10.83 | 1041            | 6.59        | 6.88 | 690             | 4.78        | 5.06 | ---                       | ---      | ---      | 6.7      | 8.3      | 10.3     | 12.4     |
| 1.69                           | 3.4         | 6.0    | 2074            | 5.47        | 6.55  | 1037            | 3.53        | 4.16 | 687             | 2.58        | 3.08 | 6.1                       | 8.7      | 9.7      | 10.7     | 12.2     | 14.2     | 16.2     |
| 1.71                           | 3.0         | 5.4    | 2047            | 4.30        | 5.49  | 1023            | 2.81        | 3.52 | 678             | 2.08        | 2.62 | 7.0                       | 9.5      | 10.5     | 11.5     | 13.0     | 15.0     | 17.0     |
| 1.72                           | 6.0         | 10.6   | 2034            | 11.48       | 12.47 | 1017            | 7.86        | 8.01 | 674             | 5.72        | 5.89 | ---                       | ---      | ---      | ---      | ---      | 8.3      | 10.4     |
| 1.72                           | 4.6         | 8.2    | 2031            | 8.64        | 9.51  | 1016            | 5.60        | 6.01 | 673             | 4.07        | 4.42 | ---                       | ---      | 6.9      | 7.9      | 9.4      | 11.5     | 13.5     |
| 1.74                           | 3.4         | 6.2    | 2011            | 5.49        | 6.57  | 1005            | 3.53        | 4.17 | 666             | 2.59        | 3.09 | 5.9                       | 8.5      | 9.5      | 10.5     | 12.0     | 14.0     | 16.1     |
| 1.77                           | 3.8         | 7.0    | 1982            | 6.61        | 7.59  | 991             | 4.24        | 4.80 | 657             | 3.09        | 3.54 | ---                       | 7.5      | 8.5      | 9.5      | 11.1     | 13.1     | 15.1     |
| 1.77                           | 3.0         | 5.6    | 1978            | 4.31        | 5.51  | 989             | 2.82        | 3.53 | 656             | 2.08        | 2.63 | 6.8                       | 9.3      | 10.3     | 11.3     | 12.8     | 14.8     | 16.8     |
| 1.79                           | 3.4         | 6.4    | 1951            | 5.50        | 6.58  | 976             | 3.54        | 4.17 | 647             | 2.59        | 3.09 | 5.8                       | 8.3      | 9.3      | 10.3     | 11.9     | 13.9     | 15.9     |
| 1.81                           | 4.8         | 9.0    | 1933            | 9.12        | 9.98  | 966             | 5.95        | 6.31 | 641             | 4.31        | 4.64 | ---                       | ---      | ---      | 7.0      | 8.6      | 10.6     | 12.6     |
| 1.82                           | 4.0         | 7.6    | 1921            | 7.15        | 8.10  | 961             | 4.59        | 5.11 | 637             | 3.34        | 3.77 | ---                       | 6.8      | 7.8      | 8.9      | 10.4     | 12.4     | 14.4     |
| 1.83                           | 3.0         | 5.8    | 1914            | 4.32        | 5.52  | 957             | 2.82        | 3.53 | 634             | 2.08        | 2.63 | 6.6                       | 9.1      | 10.1     | 11.2     | 12.7     | 14.7     | 16.7     |
| 1.84                           | 5.6         | 10.6   | 1906            | 10.79       | 11.70 | 953             | 7.25        | 7.46 | 632             | 5.26        | 5.49 | ---                       | ---      | ---      | ---      | ---      | 8.6      | 10.6     |
| 1.85                           | 3.4         | 6.6    | 1895            | 5.51        | 6.58  | 948             | 3.54        | 4.18 | 628             | 2.59        | 3.09 | 5.6                       | 8.1      | 9.2      | 10.2     | 11.7     | 13.7     | 15.7     |
| 1.87                           | 4.2         | 8.2    | 1868            | 7.68        | 8.59  | 934             | 4.94        | 5.42 | 619             | 3.59        | 3.99 | ---                       | 6.1      | 7.1      | 8.2      | 9.7      | 11.7     | 13.8     |
| 1.88                           | 4.6         | 9.0    | 1858            | 8.67        | 9.53  | 929             | 5.62        | 6.02 | 616             | 4.07        | 4.43 | ---                       | ---      | ---      | 7.1      | 8.7      | 10.7     | 12.8     |
| 1.89                           | 3.0         | 6.0    | 1854            | 4.33        | 5.53  | 927             | 2.83        | 3.54 | 615             | 2.09        | 2.63 | 6.4                       | 9.0      | 10.0     | 11.0     | 12.5     | 14.5     | 16.5     |
| 1.91                           | 3.8         | 7.6    | 1833            | 6.63        | 7.62  | 917             | 4.25        | 4.81 | 608             | 3.10        | 3.55 | ---                       | 6.9      | 8.0      | 9.0      | 10.5     | 12.6     | 14.6     |
| 1.95                           | 3.0         | 6.2    | 1798            | 4.34        | 5.53  | 899             | 2.83        | 3.54 | 596             | 2.09        | 2.64 | 6.2                       | 8.8      | 9.8      | 10.8     | 12.3     | 14.3     | 16.3     |
| 1.95                           | 3.4         | 7.0    | 1793            | 5.52        | 6.60  | 896             | 3.55        | 4.18 | 594             | 2.60        | 3.10 | 5.2                       | 7.8      | 8.8      | 9.8      | 11.3     | 13.4     | 15.4     |
| 1.96                           | 4.0         | 8.2    | 1787            | 7.17        | 8.12  | 893             | 4.60        | 5.12 | 592             | 3.35        | 3.77 | ---                       | 6.2      | 7.3      | 8.3      | 9.8      | 11.9     | 13.9     |
| 1.97                           | 5.2         | 10.6   | 1779            | 10.01       | 10.88 | 889             | 6.61        | 6.90 | 590             | 4.80        | 5.07 | ---                       | ---      | ---      | ---      | ---      | 8.8      | 10.9     |
| 2.00                           | 6.4         | 13.2   | 1747            | 12.15       | 13.27 | 874             | 8.50        | 8.58 | 579             | 6.19        | 6.31 | ---                       | ---      | ---      | ---      | ---      | ---      | ---      |
| 2.01                           | 3.6         | 7.6    | 1746            | 6.09        | 7.12  | 873             | 3.91        | 4.50 | 579             | 2.85        | 3.33 | ---                       | 7.1      | 8.1      | 9.1      | 10.7     | 12.7     | 14.7     |
| 2.01                           | 3.0         | 6.4    | 1745            | 4.34        | 5.54  | 872             | 2.83        | 3.55 | 578             | 2.09        | 2.64 | 6.0                       | 8.6      | 9.6      | 10.6     | 12.2     | 14.2     | 16.2     |
| 2.04                           | 5.0         | 10.6   | 1715            | 9.59        | 10.45 | 857             | 6.29        | 6.62 | 568             | 4.56        | 4.86 | ---                       | ---      | ---      | ---      | ---      | 9.0      | 11.0     |
| 2.05                           | 3.8         | 8.2    | 1705            | 6.65        | 7.63  | 853             | 4.26        | 4.82 | 565             | 3.10        | 3.55 | ---                       | 6.3      | 7.4      | 8.4      | 10.0     | 12.0     | 14.1     |
| ARC-LENGTH CORRECTION FACTOR → |             |        |                 |             |       |                 |             |      |                 |             |      | 0.73                      | 0.78     | 0.80     | 0.81     | 0.83     | 0.86     | 0.89     |

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

# SELECTION



|   |             |  |    |             |                        |
|---|-------------|--|----|-------------|------------------------|
| A | S-L CLASSIC |  | AX | CLASSIC COG | STOCK DRIVE SELECTIONS |
|---|-------------|--|----|-------------|------------------------|

| Ratio       | Belt Size/Center Distance |             |             |             |             |             |             |             |             |             |             |             |             |             |             |               |               |               |               |
|-------------|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|---------------|---------------|---------------|
|             | A48<br>AX48               | A51<br>AX51 | A53<br>AX53 | A55<br>AX55 | A60<br>AX60 | A64<br>AX64 | A66<br>AX66 | A68<br>AX68 | A71<br>AX71 | A75<br>AX75 | A78<br>AX78 | A80<br>AX80 | A85<br>AX85 | A90<br>AX90 | A96<br>AX96 | A105<br>AX105 | A112<br>AX112 | A120<br>AX120 | A128<br>AX128 |
| <b>1.36</b> | 19.0                      | 20.5        | 21.5        | 22.5        | 25.0        | 27.0        | 28.0        | 29.0        | 30.5        | 32.5        | 34.0        | 35.0        | 37.5        | 40.0        | 43.0        | 47.5          | 51.0          | 55.0          | 59.0          |
| <b>1.36</b> | 16.0                      | 17.5        | 18.5        | 19.5        | 22.0        | 24.0        | 25.0        | 26.0        | 27.5        | 29.5        | 31.0        | 32.0        | 34.5        | 37.0        | 40.0        | 44.5          | 48.0          | 52.0          | 56.0          |
| <b>1.37</b> | 15.2                      | 16.7        | 17.7        | 18.7        | 21.2        | 23.2        | 24.2        | 25.2        | 26.7        | 28.7        | 30.2        | 31.2        | 33.7        | 36.2        | 39.2        | 43.7          | 47.2          | 51.2          | 55.2          |
| <b>1.38</b> | 17.4                      | 18.9        | 19.9        | 20.9        | 23.4        | 25.4        | 26.4        | 27.4        | 28.9        | 30.9        | 32.4        | 33.4        | 35.9        | 38.4        | 41.4        | 45.9          | 49.4          | 53.4          | 57.4          |
| <b>1.38</b> | 12.5                      | 14.0        | 15.0        | 16.0        | 18.5        | 20.5        | 21.5        | 22.5        | 24.0        | 26.0        | 27.5        | 28.5        | 31.0        | 33.5        | 36.5        | 41.0          | 44.5          | 48.5          | 52.5          |
| <b>1.40</b> | 15.8                      | 17.3        | 18.3        | 19.3        | 21.8        | 23.8        | 24.8        | 25.8        | 27.3        | 29.3        | 30.8        | 31.8        | 34.3        | 36.8        | 39.8        | 44.3          | 47.8          | 51.8          | 55.8          |
| <b>1.40</b> | 17.7                      | 19.2        | 20.2        | 21.2        | 23.7        | 25.7        | 26.7        | 27.7        | 29.2        | 31.2        | 32.7        | 33.7        | 36.2        | 38.7        | 41.7        | 46.2          | 49.7          | 53.7          | 57.7          |
| <b>1.41</b> | 18.8                      | 20.3        | 21.3        | 22.3        | 24.8        | 26.8        | 27.8        | 28.8        | 30.3        | 32.3        | 33.8        | 34.8        | 37.3        | 39.8        | 42.8        | 47.3          | 50.8          | 54.8          | 58.8          |
| <b>1.42</b> | 15.3                      | 16.9        | 17.9        | 18.9        | 21.4        | 23.4        | 24.4        | 25.4        | 26.9        | 28.9        | 30.4        | 31.4        | 33.9        | 36.4        | 39.4        | 43.9          | 47.4          | 51.4          | 55.4          |
| <b>1.43</b> | 13.8                      | 15.3        | 16.3        | 17.3        | 19.8        | 21.8        | 22.8        | 23.8        | 25.3        | 27.3        | 28.8        | 29.8        | 32.3        | 34.8        | 37.8        | 42.3          | 45.8          | 49.8          | 53.8          |
| <b>1.44</b> | 16.5                      | 18.0        | 19.0        | 20.0        | 22.5        | 24.5        | 25.5        | 26.5        | 28.0        | 30.0        | 31.5        | 32.5        | 35.0        | 37.5        | 40.5        | 45.0          | 48.5          | 52.5          | 56.5          |
| <b>1.45</b> | 18.4                      | 19.9        | 20.9        | 21.9        | 24.4        | 26.4        | 27.4        | 28.4        | 29.9        | 31.9        | 33.4        | 34.4        | 36.9        | 39.4        | 42.4        | 46.9          | 50.4          | 54.4          | 58.4          |
| <b>1.47</b> | 18.7                      | 20.2        | 21.2        | 22.2        | 24.7        | 26.7        | 27.7        | 28.7        | 30.2        | 32.2        | 33.7        | 34.7        | 37.2        | 39.7        | 42.7        | 47.2          | 50.7          | 54.7          | 58.7          |
| <b>1.48</b> | 17.1                      | 18.6        | 19.6        | 20.6        | 23.1        | 25.1        | 26.1        | 27.1        | 28.6        | 30.6        | 32.1        | 33.1        | 35.6        | 38.1        | 41.1        | 45.6          | 49.1          | 53.1          | 57.1          |
| <b>1.48</b> | 15.5                      | 17.0        | 18.0        | 19.0        | 21.5        | 23.5        | 24.5        | 25.5        | 27.0        | 29.0        | 30.5        | 31.5        | 34.0        | 36.5        | 39.5        | 44.0          | 47.5          | 51.5          | 55.5          |
| <b>1.50</b> | 16.6                      | 18.1        | 19.1        | 20.1        | 22.6        | 24.6        | 25.6        | 26.6        | 28.1        | 30.1        | 31.6        | 32.6        | 35.1        | 37.6        | 40.6        | 45.1          | 48.6          | 52.6          | 56.6          |
| <b>1.50</b> | 18.2                      | 19.7        | 20.7        | 21.7        | 24.2        | 26.2        | 27.2        | 28.2        | 29.7        | 31.7        | 33.2        | 34.2        | 36.7        | 39.2        | 42.2        | 46.7          | 50.2          | 54.2          | 58.2          |
| <b>1.53</b> | 17.7                      | 19.2        | 20.2        | 21.2        | 23.7        | 25.7        | 26.7        | 27.7        | 29.2        | 31.2        | 32.7        | 33.7        | 36.2        | 38.7        | 41.7        | 46.2          | 49.7          | 53.7          | 57.7          |
| <b>1.53</b> | 18.5                      | 20.0        | 21.0        | 22.0        | 24.5        | 26.5        | 27.5        | 28.5        | 30.0        | 32.0        | 33.5        | 34.5        | 37.0        | 39.5        | 42.5        | 47.0          | 50.5          | 54.5          | 58.5          |
| <b>1.54</b> | 14.1                      | 15.6        | 16.6        | 17.6        | 20.1        | 22.1        | 23.1        | 24.1        | 25.6        | 27.6        | 29.1        | 30.1        | 32.6        | 35.1        | 38.1        | 42.6          | 46.1          | 50.1          | 54.1          |
| <b>1.55</b> | 16.4                      | 17.9        | 18.9        | 19.9        | 22.5        | 24.5        | 25.5        | 26.5        | 28.0        | 30.0        | 31.5        | 32.5        | 35.0        | 37.5        | 40.5        | 45.0          | 48.5          | 52.5          | 56.5          |
| <b>1.56</b> | 18.0                      | 19.5        | 20.5        | 21.5        | 24.0        | 26.0        | 27.0        | 28.0        | 29.5        | 31.5        | 33.0        | 34.0        | 36.5        | 39.0        | 42.0        | 46.5          | 50.0          | 54.0          | 58.0          |
| <b>1.57</b> | 13.1                      | 14.6        | 15.6        | 16.6        | 19.1        | 21.1        | 22.1        | 23.1        | 24.6        | 26.6        | 28.1        | 29.1        | 31.6        | 34.1        | 37.2        | 41.7          | 45.2          | 49.2          | 53.2          |
| <b>1.59</b> | 18.3                      | 19.8        | 20.8        | 21.8        | 24.3        | 26.4        | 27.4        | 28.4        | 29.9        | 31.9        | 33.4        | 34.4        | 36.9        | 39.4        | 42.4        | 46.9          | 50.4          | 54.4          | 58.4          |
| <b>1.59</b> | 16.3                      | 17.8        | 18.8        | 19.8        | 22.3        | 24.3        | 25.3        | 26.3        | 27.8        | 29.8        | 31.3        | 32.3        | 34.8        | 37.3        | 40.3        | 44.8          | 48.3          | 52.3          | 56.3          |
| <b>1.59</b> | 14.2                      | 15.7        | 16.7        | 17.7        | 20.2        | 22.2        | 23.2        | 24.2        | 25.7        | 27.7        | 29.2        | 30.2        | 32.7        | 35.3        | 38.3        | 42.8          | 46.3          | 50.3          | 54.3          |
| <b>1.60</b> | 17.1                      | 18.6        | 19.6        | 20.6        | 23.1        | 25.1        | 26.1        | 27.1        | 28.6        | 30.6        | 32.1        | 33.1        | 35.6        | 38.1        | 41.1        | 45.6          | 49.1          | 53.1          | 57.1          |
| <b>1.61</b> | 15.8                      | 17.3        | 18.3        | 19.3        | 21.8        | 23.8        | 24.8        | 25.8        | 27.3        | 29.3        | 30.8        | 31.8        | 34.3        | 36.8        | 39.8        | 44.3          | 47.8          | 51.8          | 55.8          |
| <b>1.61</b> | 17.9                      | 19.4        | 20.4        | 21.4        | 23.9        | 25.9        | 26.9        | 27.9        | 29.4        | 31.4        | 32.9        | 33.9        | 36.4        | 38.9        | 41.9        | 46.4          | 49.9          | 53.9          | 57.9          |
| <b>1.65</b> | 18.2                      | 19.7        | 20.7        | 21.7        | 24.2        | 26.2        | 27.2        | 28.2        | 29.7        | 31.7        | 33.2        | 34.2        | 36.7        | 39.2        | 42.2        | 46.7          | 50.2          | 54.2          | 58.2          |
|             | <b>0.90</b>               | <b>0.91</b> | <b>0.93</b> | <b>0.94</b> | <b>0.96</b> | <b>0.97</b> | <b>0.98</b> | <b>0.99</b> | <b>1.00</b> | <b>1.02</b> | <b>1.03</b> | <b>1.04</b> | <b>1.05</b> | <b>1.07</b> | <b>1.09</b> | <b>1.11</b>   | <b>1.13</b>   | <b>1.15</b>   | <b>1.17</b>   |
| <b>1.65</b> | 16.9                      | 18.4        | 19.4        | 20.4        | 22.9        | 24.9        | 25.9        | 26.9        | 28.4        | 30.4        | 31.9        | 32.9        | 35.4        | 37.9        | 40.9        | 45.4          | 48.9          | 52.9          | 56.9          |
| <b>1.66</b> | 14.3                      | 15.9        | 16.9        | 17.9        | 20.4        | 22.4        | 23.4        | 24.4        | 25.9        | 27.9        | 29.4        | 30.4        | 32.9        | 35.4        | 38.4        | 42.9          | 46.4          | 50.4          | 54.4          |
| <b>1.67</b> | 16.4                      | 17.9        | 18.9        | 19.9        | 22.4        | 24.4        | 25.4        | 26.4        | 28.0        | 30.0        | 31.5        | 32.5        | 35.0        | 37.5        | 40.5        | 45.0          | 48.5          | 52.5          | 56.5          |
| <b>1.68</b> | 13.4                      | 14.9        | 15.9        | 16.9        | 19.4        | 21.4        | 22.4        | 23.4        | 24.9        | 26.9        | 28.4        | 29.4        | 31.9        | 34.5        | 37.5        | 42.0          | 45.5          | 49.5          | 53.5          |
| <b>1.69</b> | 17.2                      | 18.7        | 19.7        | 20.7        | 23.2        | 25.2        | 26.2        | 27.2        | 28.7        | 30.7        | 32.2        | 33.2        | 35.7        | 38.2        | 41.3        | 45.8          | 49.3          | 53.3          | 57.3          |
| <b>1.71</b> | 18.0                      | 19.5        | 20.5        | 21.5        | 24.0        | 26.0        | 27.0        | 28.0        | 29.5        | 31.5        | 33.0        | 34.0        | 36.5        | 39.0        | 42.0        | 46.5          | 50.0          | 54.0          | 58.0          |
| <b>1.72</b> | 11.4                      | 12.9        | 13.9        | 14.9        | 17.5        | 19.5        | 20.5        | 21.5        | 23.0        | 25.0        | 26.5        | 27.5        | 30.0        | 32.5        | 35.5        | 40.1          | 43.6          | 47.6          | 51.6          |
| <b>1.72</b> | 14.5                      | 16.0        | 17.0        | 18.0        | 20.5        | 22.5        | 23.5        | 24.5        | 26.0        | 28.0        | 29.5        | 30.5        | 33.1        | 35.6        | 38.6        | 43.1          | 46.6          | 50.6          | 54.6          |
| <b>1.74</b> | 17.1                      | 18.6        | 19.6        | 20.6        | 23.1        | 25.1        | 26.1        | 27.1        | 28.6        | 30.6        | 32.1        | 33.1        | 35.6        | 38.1        | 41.1        | 45.6          | 49.1          | 53.1          | 57.1          |
| <b>1.77</b> | 16.1                      | 17.6        | 18.6        | 19.6        | 22.1        | 24.1        | 25.1        | 26.1        | 27.6        | 29.6        | 31.1        | 32.1        | 34.6        | 37.1        | 40.1        | 44.6          | 48.1          | 52.1          | 56.1          |
| <b>1.77</b> | 17.9                      | 19.4        | 20.4        | 21.4        | 23.9        | 25.9        | 26.9        | 27.9        | 29.4        | 31.4        | 32.9        | 33.9        | 36.4        | 38.9        | 41.9        | 46.4          | 49.9          | 53.9          | 57.9          |
| <b>1.79</b> | 16.9                      | 18.4        | 19.4        | 20.4        | 22.9        | 24.9        | 25.9        | 26.9        | 28.4        | 30.4        | 31.9        | 32.9        | 35.4        | 37.9        | 40.9        | 45.4          | 48.9          | 52.9          | 56.9          |
| <b>1.81</b> | 13.7                      | 15.2        | 16.2        | 17.2        | 19.7        | 21.7        | 22.7        | 23.7        | 25.2        | 27.2        | 28.7        | 29.7        | 32.2        | 34.8        | 37.8        | 42.3          | 45.8          | 49.8          | 53.8          |
| <b>1.82</b> | 15.4                      | 16.9        | 18.0        | 19.0        | 21.5        | 23.5        | 24.5        | 25.5        | 27.0        | 29.0        | 30.5        | 31.5        | 34.0        | 36.5        | 39.5        | 44.0          | 47.5          | 51.5          | 55.5          |
| <b>1.83</b> | 17.7                      | 19.2        | 20.2        | 21.2        | 23.7        | 25.7        | 26.7        | 27.7        | 29.2        | 31.2        | 32.7        | 33.7        | 36.2        | 38.7        | 41.7        | 46.2          | 49.7          | 53.7          | 57.7          |
| <b>1.84</b> | 11.7                      | 13.2        | 14.2        | 15.2        | 17.8        | 19.8        | 20.8        | 21.8        | 23.3        | 25.3        | 26.8        | 27.8        | 30.3        | 32.8        | 35.8        | 40.4          | 43.9          | 47.9          | 51.9          |
| <b>1.85</b> | 16.7                      | 18.2        | 19.2        | 20.2        | 22.7        | 24.7        | 25.7        | 26.7        | 28.2        | 30.2        | 31.7        | 32.7        | 35.2        | 37.7        | 40.7        | 45.2          | 48.7          | 52.7          | 56.7          |
| <b>1.87</b> | 14.8                      | 16.3        | 17.3        | 18.3        | 20.8        | 22.8        | 23.8        | 24.8        | 26.3        | 28.3        | 29.8        | 30.8        | 33.3        | 35.8        | 38.8        | 43.3          | 46.8          | 50.8          | 54.8          |
| <b>1.88</b> | 13.8                      | 15.3        | 16.3        | 17.3        | 19.8        | 21.8        | 22.8        | 23.8        | 25.3        | 27.3        | 28.8        | 29.8        | 32.3        | 34.8        | 37.8        | 42.3          | 45.8          | 49.8          | 53.8          |
| <b>1.89</b> | 17.5                      | 19.0        | 20.0        | 21.0        | 23.5        | 25.5        | 26.5        | 27.5        | 29.0        | 31.0        | 32.6        | 33.6        | 36.1        | 38.6        | 41.6        | 46.1          | 49.6          | 53.6          | 57.6          |
| <b>1.91</b> | 15.6                      | 17.1        | 18.1        | 19.1        | 21.6        | 23.6        | 24.6        | 25.6        | 27.1        | 29.1        | 30.6        | 31.6        | 34.1        | 36.6        | 39.6        | 44.1          | 47.6          | 51.6          | 55.6          |
| <b>1.95</b> | 17.4                      | 18.9        | 19.9        | 20.9        | 23.4        | 25.4        | 26.4        | 27.4        | 28.9        | 30.9        | 32.4        | 33.4        | 35.9        | 38.4        | 41.4        | 45.9          | 49.4          | 53.4          | 57.4          |
| <b>1.95</b> | 16.4                      | 17.9        | 18.9        | 19.9        | 22.4        | 24.4        | 25.4        | 26.4        | 27.9        | 29.9        | 31.4        | 32.4        | 34.9        | 37.4        | 40.4        | 44.9          | 48.4          | 52.4          | 56.4          |
| <b>1.96</b> | 14.9                      | 16.4        | 17.4        | 18.4        | 21.0        | 23.0        | 24.0        | 25.0        | 26.5        | 28.5        | 30.0        | 31.0        | 33.5        | 36.0        | 39.0        | 43.5          | 47.0          | 51.0          | 55.0          |
| <b>1.97</b> | 11.9                      | 13.5        | 14.5        | 15.5        | 18.0        | 20.1        | 21.1        | 22.1        | 23.6        | 25.6        | 27.1        | 28.1        | 30.6        | 33.1        | 36.1        | 40.7          | 44.2          | 48.2          | 52.2          |
| <b>2.00</b> | ---                       | 10.2        | 11.3        | 12.3        | 14.9        | 16.9        | 17.9        | 19.0        | 20.5        | 22.5        | 24.0        | 25.0        | 27.6        | 30.1        | 33.1        | 37.6          | 41.1          | 45.1          | 49.1          |
| <b>2.01</b> | 15.7                      | 17.2        | 18.2        | 19.3        | 21.8        | 23.8        | 24.8        | 25.8        | 27.3        | 29.3        | 30.8        | 31.8        | 34.3        | 36.8        | 39.8        | 44.3          | 47.8          | 51.8          | 55.8          |
| <b>2.01</b> | 17.2                      | 18.7        | 19.7        | 20.7        | 23.2        | 25.2        | 26.2        | 27.2        | 28.7        | 30.7        | 32.2        | 33.2        | 35.7        | 38.2        | 41.2        | 45.7          | 49.2          | 53.2          | 57.2          |
| <b>2.04</b> | 12.1                      | 13.6        | 14.6        | 15.7        | 18.2        | 20.2        | 21.2        | 22.2        | 23.7        | 25.7        | 27.3        | 28.3        | 30.8        | 33.3        | 36.3        | 40.8          | 44.3          | 48.3          | 52.3          |
| <b>2.05</b> | 15.1                      | 16.6        | 17.6        | 18.6        | 21.1        | 23.1        | 24.1        | 25.1        | 26.6        | 28.6        | 30.1        | 31.2        | 33.7        | 36.2        | 39.2        | 43.7          | 47.2          | 51.2          | 55.2          |
|             | <b>.89</b>                | <b>0.90</b> | <b>0.92</b> | <b>0.93</b> | <b>0</b>    |             |             |             |             |             |             |             |             |             |             |               |               |               |               |



# SELECTION



## A S-L CLASSIC      AX CLASSIC COG      STOCK DRIVE SELECTIONS

| Ratio                          | Stock Shv.  |        | 3500 RPM Driver |             |       | 1750 RPM Driver |             |      | 1160 RPM Driver |             |      | Belt Size/Center Distance |          |          |          |          |          |          |
|--------------------------------|-------------|--------|-----------------|-------------|-------|-----------------|-------------|------|-----------------|-------------|------|---------------------------|----------|----------|----------|----------|----------|----------|
|                                | Datum Diam. |        | Driven RPM      | HP Per Belt |       | Driven RPM      | HP Per Belt |      | Driven RPM      | HP Per Belt |      | A26 AX26                  | A31 AX31 | A33 AX33 | A35 AX35 | A38 AX38 | A42 AX42 | A46 AX46 |
|                                | Driver      | Driven |                 | A           | AX    |                 | A           | AX   |                 | A           | AX   |                           |          |          |          |          |          |          |
| 2.07                           | 3.0         | 6.6    | 1695            | 4.35        | 5.55  | 847             | 2.84        | 3.55 | 562             | 2.09        | 2.64 | 5.8                       | 8.4      | 9.4      | 10.5     | 12.0     | 14.0     | 16.0     |
| 2.07                           | 5.6         | 12.0   | 1691            | 10.82       | 11.73 | 845             | 7.26        | 7.48 | 560             | 5.27        | 5.50 | ---                       | ---      | ---      | ---      | ---      | ---      | 9.3      |
| 2.11                           | 3.4         | 7.6    | 1658            | 5.53        | 6.61  | 829             | 3.56        | 4.19 | 549             | 2.60        | 3.10 | ---                       | 7.2      | 8.2      | 9.3      | 10.8     | 12.8     | 14.9     |
| 2.12                           | 4.8         | 10.6   | 1651            | 9.15        | 10.01 | 826             | 5.96        | 6.33 | 547             | 4.32        | 4.65 | ---                       | ---      | ---      | ---      | 7.0      | 9.1      | 11.2     |
| 2.13                           | 6.0         | 13.2   | 1644            | 11.53       | 12.53 | 822             | 7.89        | 8.04 | 545             | 5.74        | 5.91 | ---                       | ---      | ---      | ---      | ---      | ---      | ---      |
| 2.14                           | 4.0         | 9.0    | 1634            | 7.19        | 8.13  | 817             | 4.61        | 5.13 | 542             | 3.35        | 3.78 | ---                       | ---      | 6.5      | 7.5      | 9.1      | 11.2     | 13.2     |
| 2.16                           | 3.6         | 8.2    | 1624            | 6.11        | 7.13  | 812             | 3.91        | 4.51 | 538             | 2.85        | 3.33 | ---                       | 6.5      | 7.5      | 8.6      | 10.1     | 12.2     | 14.2     |
| 2.18                           | 3.0         | 7.0    | 1603            | 4.36        | 5.55  | 801             | 2.84        | 3.55 | 531             | 2.09        | 2.64 | 5.4                       | 8.1      | 9.1      | 10.1     | 11.6     | 13.7     | 15.7     |
| 2.20                           | 4.6         | 10.6   | 1587            | 8.70        | 9.56  | 794             | 5.63        | 6.04 | 526             | 4.08        | 4.44 | ---                       | ---      | ---      | ---      | 7.1      | 9.2      | 11.3     |
| 2.22                           | 5.2         | 12.0   | 1578            | 10.03       | 10.90 | 789             | 6.62        | 6.91 | 523             | 4.80        | 5.08 | ---                       | ---      | ---      | ---      | ---      | ---      | 9.5      |
| 2.23                           | 3.2         | 7.6    | 1570            | 4.96        | 6.10  | 785             | 3.20        | 3.88 | 520             | 2.35        | 2.88 | ---                       | 7.3      | 8.4      | 9.4      | 11.0     | 13.0     | 15.0     |
| 2.27                           | 3.4         | 8.2    | 1542            | 5.55        | 6.62  | 771             | 3.56        | 4.20 | 511             | 2.60        | 3.11 | ---                       | 6.6      | 7.7      | 8.7      | 10.3     | 12.3     | 14.3     |
| 2.30                           | 5.0         | 12.0   | 1521            | 9.61        | 10.47 | 761             | 6.30        | 6.63 | 504             | 4.57        | 4.87 | ---                       | ---      | ---      | ---      | ---      | ---      | 9.7      |
| 2.36                           | 3.6         | 9.0    | 1485            | 6.12        | 7.15  | 743             | 3.92        | 4.51 | 492             | 2.86        | 3.33 | ---                       | ---      | 6.7      | 7.8      | 9.4      | 11.4     | 13.5     |
| 2.36                           | 3.0         | 7.6    | 1482            | 4.37        | 5.56  | 741             | 2.85        | 3.56 | 491             | 2.10        | 2.65 | ---                       | 7.5      | 8.5      | 9.6      | 11.1     | 13.1     | 15.2     |
| 2.39                           | 4.8         | 12.0   | 1464            | 9.17        | 10.03 | 732             | 5.97        | 6.34 | 485             | 4.33        | 4.66 | ---                       | ---      | ---      | ---      | ---      | ---      | 9.8      |
| 2.40                           | 3.2         | 8.2    | 1460            | 4.97        | 6.10  | 730             | 3.21        | 3.88 | 484             | 2.35        | 2.88 | ---                       | 6.7      | 7.8      | 8.8      | 10.4     | 12.4     | 14.5     |
| 2.40                           | 4.2         | 10.6   | 1460            | 7.72        | 8.63  | 730             | 4.96        | 5.44 | 484             | 3.60        | 4.00 | ---                       | ---      | ---      | ---      | 7.3      | 9.5      | 11.6     |
| 2.43                           | 5.2         | 13.2   | 1438            | 10.05       | 10.91 | 719             | 6.63        | 6.92 | 477             | 4.81        | 5.08 | ---                       | ---      | ---      | ---      | ---      | ---      | ---      |
| 2.48                           | 3.4         | 9.0    | 1410            | 5.55        | 6.63  | 705             | 3.57        | 4.20 | 467             | 2.61        | 3.11 | ---                       | ---      | 6.8      | 7.9      | 9.5      | 11.6     | 13.6     |
| 2.49                           | 4.6         | 12.0   | 1408            | 8.71        | 9.58  | 704             | 5.64        | 6.04 | 467             | 4.09        | 4.44 | ---                       | ---      | ---      | ---      | ---      | 7.7      | 9.9      |
| 2.51                           | 4.0         | 10.6   | 1396            | 7.21        | 8.15  | 698             | 4.62        | 5.14 | 463             | 3.36        | 3.79 | ---                       | ---      | ---      | ---      | 7.5      | 9.6      | 11.7     |
| 2.52                           | 5.0         | 13.2   | 1387            | 9.62        | 10.48 | 693             | 6.30        | 6.63 | 460             | 4.57        | 4.87 | ---                       | ---      | ---      | ---      | ---      | ---      | ---      |
| 2.54                           | 3.0         | 8.2    | 1379            | 4.38        | 5.57  | 689             | 2.85        | 3.56 | 457             | 2.10        | 2.65 | ---                       | 6.9      | 7.9      | 9.0      | 10.5     | 12.6     | 14.6     |
| 2.57                           | 5.6         | 15.0   | 1361            | 10.85       | 11.75 | 680             | 7.27        | 7.49 | 451             | 5.28        | 5.50 | ---                       | ---      | ---      | ---      | ---      | ---      | ---      |
| 2.62                           | 3.2         | 9.0    | 1336            | 4.98        | 6.11  | 668             | 3.21        | 3.89 | 443             | 2.36        | 2.88 | ---                       | 5.9      | 7.0      | 8.1      | 9.6      | 11.7     | 13.8     |
| 2.62                           | 4.8         | 13.2   | 1335            | 9.18        | 10.04 | 668             | 5.98        | 6.34 | 442             | 4.33        | 4.66 | ---                       | ---      | ---      | ---      | ---      | ---      | 8.5      |
| 2.63                           | 3.8         | 10.6   | 1332            | 6.68        | 7.66  | 666             | 4.28        | 4.83 | 442             | 3.11        | 3.56 | ---                       | ---      | ---      | ---      | 7.6      | 9.8      | 11.9     |
| 2.67                           | 5.6         | 15.6   | 1310            | 10.85       | 11.76 | 655             | 7.27        | 7.49 | 434             | 5.28        | 5.51 | ---                       | ---      | ---      | ---      | ---      | ---      | ---      |
| 2.70                           | 4.2         | 12.0   | 1295            | 7.73        | 8.65  | 647             | 4.97        | 5.45 | 429             | 3.60        | 4.01 | ---                       | ---      | ---      | ---      | ---      | 8.0      | 10.2     |
| ARC-LENGTH CORRECTION FACTOR → |             |        |                 |             |       |                 |             |      |                 |             |      | 0.70                      | 0.75     | 0.76     | 0.79     | 0.80     | 0.81     | 0.84     |
| 2.71                           | 6.4         | 18.0   | 1291            | 12.19       | 13.31 | 646             | 8.51        | 8.60 | 428             | 6.20        | 6.33 | ---                       | ---      | ---      | ---      | ---      | ---      | ---      |
| 2.73                           | 4.6         | 13.2   | 1284            | 8.72        | 9.59  | 642             | 5.64        | 6.05 | 425             | 4.09        | 4.45 | ---                       | ---      | ---      | ---      | ---      | ---      | 8.6      |
| 2.76                           | 3.6         | 10.6   | 1269            | 6.13        | 7.16  | 634             | 3.93        | 4.52 | 420             | 2.86        | 3.34 | ---                       | ---      | ---      | ---      | 7.7      | 9.9      | 12.0     |
| 2.78                           | 3.0         | 9.0    | 1261            | 4.38        | 5.58  | 631             | 2.85        | 3.56 | 418             | 2.10        | 2.65 | ---                       | 6.0      | 7.1      | 8.2      | 9.8      | 11.9     | 13.9     |
| 2.83                           | 4.0         | 12.0   | 1238            | 7.22        | 8.16  | 619             | 4.63        | 5.14 | 410             | 3.36        | 3.79 | ---                       | ---      | ---      | ---      | ---      | 8.1      | 10.3     |
| 2.86                           | 5.0         | 15.0   | 1224            | 9.63        | 10.49 | 612             | 6.31        | 6.64 | 406             | 4.57        | 4.88 | ---                       | ---      | ---      | ---      | ---      | ---      | ---      |
| 2.88                           | 6.0         | 18.0   | 1215            | 11.57       | 12.56 | 607             | 7.90        | 8.05 | 403             | 5.75        | 5.92 | ---                       | ---      | ---      | ---      | ---      | ---      | ---      |
| 2.90                           | 3.4         | 10.6   | 1205            | 5.57        | 6.65  | 602             | 3.57        | 4.21 | 399             | 2.61        | 3.11 | ---                       | ---      | ---      | ---      | 7.8      | 10.0     | 12.1     |
| 2.96                           | 3.8         | 12.0   | 1182            | 6.69        | 7.67  | 591             | 4.28        | 4.84 | 392             | 3.11        | 3.57 | ---                       | ---      | ---      | ---      | ---      | 8.2      | 10.4     |
| 2.97                           | 4.8         | 15.0   | 1179            | 9.19        | 10.05 | 589             | 5.98        | 6.34 | 391             | 4.33        | 4.66 | ---                       | ---      | ---      | ---      | ---      | ---      | ---      |
| 3.07                           | 3.2         | 10.6   | 1141            | 4.99        | 6.12  | 571             | 3.22        | 3.89 | 378             | 2.36        | 2.88 | ---                       | ---      | ---      | 6.2      | 8.0      | 10.1     | 12.3     |
| 3.09                           | 4.6         | 15.0   | 1133            | 8.72        | 9.59  | 567             | 5.65        | 6.05 | 376             | 4.09        | 4.45 | ---                       | ---      | ---      | ---      | ---      | ---      | ---      |
| 3.10                           | 4.0         | 13.2   | 1129            | 7.22        | 8.17  | 564             | 4.63        | 5.14 | 374             | 3.36        | 3.79 | ---                       | ---      | ---      | ---      | ---      | ---      | 9.0      |
| 3.11                           | 3.6         | 12.0   | 1125            | 6.14        | 7.17  | 563             | 3.93        | 4.52 | 373             | 2.86        | 3.34 | ---                       | ---      | ---      | ---      | ---      | 8.3      | 10.6     |
| 3.13                           | 6.0         | 19.6   | 1118            | 11.57       | 12.56 | 559             | 7.91        | 8.06 | 370             | 5.75        | 5.92 | ---                       | ---      | ---      | ---      | ---      | ---      | ---      |
| 3.21                           | 4.6         | 15.6   | 1091            | 8.73        | 9.60  | 545             | 5.65        | 6.05 | 362             | 4.10        | 4.45 | ---                       | ---      | ---      | ---      | ---      | ---      | ---      |
| 3.25                           | 3.0         | 10.6   | 1077            | 4.39        | 5.59  | 539             | 2.86        | 3.57 | 357             | 2.11        | 2.65 | ---                       | ---      | ---      | 6.3      | 8.1      | 10.3     | 12.4     |
| 3.25                           | 3.8         | 13.2   | 1077            | 6.69        | 7.67  | 539             | 4.28        | 4.84 | 357             | 3.11        | 3.57 | ---                       | ---      | ---      | ---      | ---      | ---      | 9.1      |
| 3.29                           | 5.2         | 18.0   | 1063            | 10.07       | 10.93 | 531             | 6.64        | 6.93 | 352             | 4.81        | 5.09 | ---                       | ---      | ---      | ---      | ---      | ---      | ---      |
| 3.36                           | 4.2         | 15.0   | 1042            | 7.74        | 8.66  | 521             | 4.97        | 5.45 | 345             | 3.61        | 4.01 | ---                       | ---      | ---      | ---      | ---      | ---      | ---      |
| 3.41                           | 3.6         | 13.2   | 1026            | 6.14        | 7.17  | 513             | 3.93        | 4.53 | 340             | 2.87        | 3.34 | ---                       | ---      | ---      | ---      | ---      | ---      | 9.2      |
| 3.42                           | 5.0         | 18.0   | 1024            | 9.64        | 10.50 | 512             | 6.31        | 6.64 | 340             | 4.58        | 4.88 | ---                       | ---      | ---      | ---      | ---      | ---      | ---      |
| 3.46                           | 3.2         | 12.0   | 1012            | 4.99        | 6.13  | 506             | 3.22        | 3.89 | 335             | 2.36        | 2.89 | ---                       | ---      | ---      | ---      | ---      | 8.6      | 10.8     |
| 3.49                           | 4.2         | 15.6   | 1003            | 7.75        | 8.66  | 502             | 4.97        | 5.45 | 332             | 3.61        | 4.01 | ---                       | ---      | ---      | ---      | ---      | ---      | ---      |
| 3.51                           | 4.0         | 15.0   | 997             | 7.23        | 8.17  | 498             | 4.63        | 5.15 | 330             | 3.36        | 3.79 | ---                       | ---      | ---      | ---      | ---      | ---      | ---      |
| 3.55                           | 4.8         | 18.0   | 986             | 9.19        | 10.05 | 493             | 5.98        | 6.35 | 327             | 4.34        | 4.66 | ---                       | ---      | ---      | ---      | ---      | ---      | ---      |
| 3.58                           | 5.2         | 19.6   | 977             | 10.07       | 10.93 | 489             | 6.64        | 6.93 | 324             | 4.81        | 5.09 | ---                       | ---      | ---      | ---      | ---      | ---      | ---      |
| 3.59                           | 3.4         | 13.2   | 974             | 5.58        | 6.66  | 487             | 3.58        | 4.21 | 323             | 2.62        | 3.12 | ---                       | ---      | ---      | ---      | ---      | ---      | 9.3      |
| 3.65                           | 4.0         | 15.6   | 959             | 7.23        | 8.17  | 480             | 4.63        | 5.15 | 318             | 3.36        | 3.79 | ---                       | ---      | ---      | ---      | ---      | ---      | ---      |
| 3.66                           | 3.0         | 12.0   | 956             | 4.40        | 5.59  | 478             | 2.86        | 3.57 | 317             | 2.11        | 2.65 | ---                       | ---      | ---      | ---      | ---      | 8.7      | 11.0     |
| ARC-LENGTH CORRECTION FACTOR → |             |        |                 |             |       |                 |             |      |                 |             |      | ---                       | 0.71     | 0.73     | 0.75     | 0.77     | 0.77     | 0.81     |

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

# SELECTION



## A S-L CLASSIC AX CLASSIC COG STOCK DRIVE SELECTIONS

| Ratio | Belt Size/Center Distance |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-------|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|       | A48 AX48                  | A51 AX51    | A53 AX53    | A55 AX55    | A60 AX60    | A64 AX64    | A66 AX66    | A68 AX68    | A71 AX71    | A75 AX75    | A78 AX78    | A80 AX80    | A85 AX85    | A90 AX90    | A96 AX96    | A105 AX105  | A112 AX112  | A120 AX120  | A128 AX128  |
| 2.07  | 17.0                      | 18.5        | 19.5        | 20.5        | 23.0        | 25.0        | 26.1        | 27.1        | 28.6        | 30.6        | 32.1        | 33.1        | 35.6        | 38.1        | 41.1        | 45.6        | 49.1        | 53.1        | 57.1        |
| 2.07  | 10.3                      | 11.9        | 12.9        | 14.0        | 16.5        | 18.6        | 19.6        | 20.6        | 22.1        | 24.1        | 25.6        | 26.6        | 29.2        | 31.7        | 34.7        | 39.2        | 42.7        | 46.7        | 50.7        |
| 2.11  | 15.9                      | 17.4        | 18.4        | 19.4        | 21.9        | 23.9        | 24.9        | 25.9        | 27.4        | 29.4        | 30.9        | 31.9        | 34.5        | 37.0        | 40.0        | 44.5        | 48.0        | 52.0        | 56.0        |
| 2.12  | 12.2                      | 13.8        | 14.8        | 15.8        | 18.3        | 20.4        | 21.4        | 22.4        | 23.9        | 25.9        | 27.4        | 28.4        | 30.9        | 33.4        | 36.4        | 41.0        | 44.5        | 48.5        | 52.5        |
| 2.13  | ---                       | 10.5        | 11.5        | 12.6        | 15.2        | 17.2        | 18.2        | 19.2        | 20.8        | 22.8        | 24.3        | 25.3        | 27.8        | 30.4        | 33.4        | 37.9        | 41.4        | 45.4        | 49.4        |
| 2.14  | 14.2                      | 15.7        | 16.8        | 17.8        | 20.3        | 22.3        | 23.3        | 24.3        | 25.8        | 27.8        | 29.3        | 30.3        | 32.8        | 35.4        | 38.4        | 42.9        | 46.4        | 50.4        | 54.4        |
| 2.16  | 15.2                      | 16.7        | 17.7        | 18.7        | 21.3        | 23.3        | 24.3        | 25.3        | 26.8        | 28.8        | 30.3        | 31.3        | 33.8        | 36.3        | 39.3        | 43.8        | 47.3        | 51.3        | 55.3        |
| 2.18  | 16.7                      | 18.2        | 19.2        | 20.2        | 22.7        | 24.7        | 25.7        | 26.7        | 28.2        | 30.2        | 31.7        | 32.7        | 35.2        | 37.7        | 40.8        | 45.3        | 48.8        | 52.8        | 56.8        |
| 2.20  | 12.4                      | 13.9        | 14.9        | 15.9        | 18.5        | 20.5        | 21.5        | 22.5        | 24.0        | 26.0        | 27.6        | 28.6        | 31.1        | 33.6        | 36.6        | 41.1        | 44.6        | 48.6        | 52.6        |
| 2.22  | 10.6                      | 12.2        | 13.2        | 14.2        | 16.8        | 18.8        | 19.9        | 20.9        | 22.4        | 24.4        | 25.9        | 26.9        | 29.5        | 32.0        | 35.0        | 39.5        | 43.0        | 47.0        | 51.0        |
| 2.23  | 16.0                      | 17.5        | 18.5        | 19.5        | 22.1        | 24.1        | 25.1        | 26.1        | 27.6        | 29.6        | 31.1        | 32.1        | 34.6        | 37.1        | 40.1        | 44.6        | 48.1        | 52.1        | 56.1        |
| 2.27  | 15.4                      | 16.9        | 17.9        | 18.9        | 21.4        | 23.4        | 24.4        | 25.4        | 26.9        | 28.9        | 30.4        | 31.5        | 34.0        | 36.5        | 39.5        | 44.0        | 47.5        | 51.5        | 55.5        |
| 2.30  | 10.7                      | 12.3        | 13.3        | 14.4        | 16.9        | 19.0        | 20.0        | 21.0        | 22.5        | 24.6        | 26.1        | 27.1        | 29.6        | 32.1        | 35.1        | 39.7        | 43.2        | 47.2        | 51.2        |
| 2.36  | 14.5                      | 16.0        | 17.0        | 18.1        | 20.6        | 22.6        | 23.6        | 24.6        | 26.1        | 28.1        | 29.6        | 30.6        | 33.1        | 35.7        | 38.7        | 43.2        | 46.7        | 50.7        | 54.7        |
| 2.36  | 16.2                      | 17.7        | 18.7        | 19.7        | 22.2        | 24.2        | 25.2        | 26.2        | 27.7        | 29.7        | 31.2        | 32.2        | 34.8        | 37.3        | 40.3        | 44.8        | 48.3        | 52.3        | 56.3        |
| 2.39  | 10.9                      | 12.4        | 13.5        | 14.5        | 17.1        | 19.1        | 20.1        | 21.2        | 22.7        | 24.7        | 26.2        | 27.2        | 29.7        | 32.3        | 35.3        | 39.8        | 43.3        | 47.3        | 51.3        |
| 2.40  | 15.5                      | 17.0        | 18.0        | 19.0        | 21.6        | 23.6        | 24.6        | 25.6        | 27.1        | 29.1        | 30.6        | 31.6        | 34.1        | 36.6        | 39.6        | 44.1        | 47.6        | 51.6        | 55.6        |
| 2.40  | 12.6                      | 14.2        | 15.2        | 16.2        | 18.8        | 20.8        | 21.8        | 22.8        | 24.3        | 26.3        | 27.8        | 28.9        | 31.4        | 33.9        | 36.9        | 41.4        | 44.9        | 48.9        | 52.9        |
| 2.43  | 9.4                       | 11.0        | 12.0        | 13.1        | 15.7        | 17.8        | 18.8        | 19.8        | 21.3        | 23.4        | 24.9        | 25.9        | 28.4        | 30.9        | 34.0        | 38.5        | 42.0        | 46.0        | 50.0        |
| 2.48  | 14.6                      | 16.2        | 17.2        | 18.2        | 20.7        | 22.7        | 23.8        | 24.8        | 26.3        | 28.3        | 29.8        | 30.8        | 33.3        | 35.8        | 38.8        | 43.3        | 46.8        | 50.8        | 54.8        |
| 2.49  | 11.0                      | 12.6        | 13.6        | 14.7        | 17.2        | 19.3        | 20.3        | 21.3        | 22.8        | 24.8        | 26.4        | 27.4        | 29.9        | 32.4        | 35.4        | 39.9        | 43.5        | 47.5        | 51.5        |
| 2.51  | 12.8                      | 14.3        | 15.3        | 16.4        | 18.9        | 20.9        | 21.9        | 23.0        | 24.5        | 26.5        | 28.0        | 29.0        | 31.5        | 34.0        | 37.0        | 41.6        | 45.1        | 49.1        | 53.1        |
| 2.52  | 9.5                       | 11.1        | 12.2        | 13.2        | 15.8        | 17.9        | 18.9        | 19.9        | 21.5        | 23.5        | 25.0        | 26.0        | 28.6        | 31.1        | 34.1        | 38.6        | 42.2        | 46.2        | 50.2        |
| 2.54  | 15.6                      | 17.2        | 18.2        | 19.2        | 21.7        | 23.7        | 24.7        | 25.7        | 27.2        | 29.2        | 30.7        | 31.8        | 34.3        | 36.8        | 39.8        | 44.3        | 47.8        | 51.8        | 55.8        |
| 2.57  | ---                       | ---         | 9.9         | 11.0        | 13.7        | 15.8        | 16.8        | 17.9        | 19.4        | 21.5        | 23.0        | 24.0        | 26.6        | 29.1        | 32.1        | 36.7        | 40.2        | 44.2        | 48.3        |
| 2.62  | 14.8                      | 16.3        | 17.3        | 18.3        | 20.9        | 22.9        | 23.9        | 24.9        | 26.4        | 28.4        | 29.9        | 30.9        | 33.4        | 36.0        | 39.0        | 43.5        | 47.0        | 51.0        | 55.0        |
| 2.62  | 9.6                       | 11.2        | 12.3        | 13.4        | 16.0        | 18.0        | 19.1        | 20.1        | 21.6        | 23.6        | 25.2        | 26.2        | 28.7        | 31.2        | 34.3        | 38.8        | 42.3        | 46.3        | 50.3        |
| 2.63  | 12.9                      | 14.4        | 15.5        | 16.5        | 19.0        | 21.1        | 22.1        | 23.1        | 24.6        | 26.6        | 28.1        | 29.1        | 31.7        | 34.2        | 37.2        | 41.7        | 45.2        | 49.2        | 53.2        |
| 2.67  | ---                       | ---         | ---         | ---         | 13.1        | 15.2        | 16.2        | 17.3        | 18.8        | 20.9        | 22.5        | 23.5        | 26.0        | 28.6        | 31.6        | 36.2        | 39.7        | 43.7        | 47.7        |
| 2.70  | 11.3                      | 12.8        | 13.9        | 14.9        | 17.5        | 19.5        | 20.6        | 21.6        | 23.1        | 25.1        | 26.6        | 27.7        | 30.2        | 32.7        | 35.7        | 40.2        | 43.8        | 47.8        | 51.8        |
|       | <b>0.86</b>               | <b>0.88</b> | <b>0.89</b> | <b>0.90</b> | <b>0.93</b> | <b>0.94</b> | <b>0.96</b> | <b>0.97</b> | <b>0.99</b> | <b>1.00</b> | <b>1.01</b> | <b>1.02</b> | <b>1.04</b> | <b>1.05</b> | <b>1.07</b> | <b>1.10</b> | <b>1.12</b> | <b>1.14</b> | <b>1.16</b> |
| 2.71  | ---                       | ---         | ---         | ---         | ---         | 12.1        | 13.2        | 14.3        | 15.9        | 18.1        | 19.6        | 20.7        | 23.3        | 25.8        | 28.9        | 33.5        | 37.0        | 41.1        | 45.1        |
| 2.73  | 9.7                       | 11.4        | 12.4        | 13.5        | 16.1        | 18.2        | 19.2        | 20.2        | 21.8        | 23.8        | 25.3        | 26.3        | 28.9        | 31.4        | 34.4        | 38.9        | 42.5        | 46.5        | 50.5        |
| 2.76  | 13.0                      | 14.6        | 15.6        | 16.6        | 19.2        | 21.2        | 22.2        | 23.2        | 24.8        | 26.8        | 28.3        | 29.3        | 31.8        | 34.3        | 37.3        | 41.9        | 45.4        | 49.4        | 53.4        |
| 2.78  | 14.9                      | 16.5        | 17.5        | 18.5        | 21.0        | 23.0        | 24.0        | 25.1        | 26.6        | 28.6        | 30.1        | 31.1        | 33.6        | 36.1        | 39.1        | 43.6        | 47.1        | 51.1        | 55.1        |
| 2.83  | 11.4                      | 13.0        | 14.0        | 15.1        | 17.6        | 19.7        | 20.7        | 21.7        | 23.2        | 25.3        | 26.8        | 27.8        | 30.3        | 32.8        | 35.9        | 40.4        | 43.9        | 47.9        | 51.9        |
| 2.86  | ---                       | ---         | 10.2        | 11.3        | 14.1        | 16.2        | 17.2        | 18.3        | 19.8        | 21.9        | 23.4        | 24.4        | 27.0        | 29.5        | 32.6        | 37.1        | 40.6        | 44.7        | 48.7        |
| 2.88  | ---                       | ---         | ---         | ---         | ---         | 12.4        | 13.5        | 14.6        | 16.2        | 18.3        | 19.9        | 21.0        | 23.5        | 26.1        | 29.2        | 33.8        | 37.3        | 41.4        | 45.4        |
| 2.90  | 13.2                      | 14.7        | 15.7        | 16.8        | 19.3        | 21.4        | 22.4        | 23.4        | 24.9        | 26.9        | 28.4        | 29.4        | 32.0        | 34.5        | 37.5        | 42.0        | 45.5        | 49.5        | 53.5        |
| 2.96  | 11.5                      | 13.1        | 14.2        | 15.2        | 17.8        | 19.8        | 20.8        | 21.9        | 23.4        | 25.4        | 26.9        | 27.9        | 30.5        | 33.0        | 36.0        | 40.5        | 44.1        | 48.1        | 52.1        |
| 2.97  | ---                       | 9.2         | 10.4        | 11.5        | 14.2        | 16.3        | 17.4        | 18.4        | 20.0        | 22.0        | 23.6        | 24.6        | 27.1        | 29.7        | 32.7        | 37.3        | 40.8        | 44.8        | 48.8        |
| 3.07  | 13.3                      | 14.9        | 15.9        | 16.9        | 19.5        | 21.5        | 22.5        | 23.5        | 25.0        | 27.1        | 28.6        | 29.6        | 32.1        | 34.6        | 37.6        | 42.2        | 45.7        | 49.7        | 53.7        |
| 3.09  | ---                       | 9.3         | 10.5        | 11.6        | 14.3        | 16.4        | 17.5        | 18.5        | 20.1        | 22.2        | 23.7        | 24.7        | 27.3        | 29.8        | 32.9        | 37.4        | 40.9        | 45.0        | 49.0        |
| 3.10  | 10.1                      | 11.7        | 12.8        | 13.9        | 16.5        | 18.6        | 19.6        | 20.6        | 22.2        | 24.2        | 25.7        | 26.8        | 29.3        | 31.8        | 34.8        | 39.4        | 42.9        | 46.9        | 50.9        |
| 3.11  | 11.6                      | 13.2        | 14.3        | 15.3        | 17.9        | 20.0        | 21.0        | 22.0        | 23.5        | 25.6        | 27.1        | 28.1        | 30.6        | 33.1        | 36.2        | 40.7        | 44.2        | 48.2        | 52.2        |
| 3.13  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | 12.7        | 14.5        | 16.7        | 18.3        | 19.4        | 22.0        | 24.6        | 27.7        | 32.3        | 35.9        | 40.0        | 44.0        |
| 3.21  | ---                       | ---         | ---         | 10.9        | 13.7        | 15.8        | 16.9        | 18.0        | 19.5        | 21.6        | 23.1        | 24.2        | 26.7        | 29.3        | 32.3        | 36.9        | 40.4        | 44.5        | 48.5        |
| 3.25  | 13.4                      | 15.0        | 16.0        | 17.1        | 19.6        | 21.6        | 22.7        | 23.7        | 25.2        | 27.2        | 28.7        | 29.7        | 32.3        | 34.8        | 37.8        | 42.3        | 45.8        | 49.8        | 53.8        |
| 3.25  | 10.2                      | 11.9        | 13.0        | 14.0        | 16.6        | 18.7        | 19.7        | 20.8        | 22.3        | 24.4        | 25.9        | 26.9        | 29.4        | 32.0        | 35.0        | 39.5        | 43.0        | 47.1        | 51.1        |
| 3.29  | ---                       | ---         | ---         | ---         | 10.5        | 12.8        | 14.0        | 15.1        | 16.7        | 18.9        | 20.4        | 21.5        | 24.1        | 26.7        | 29.7        | 34.3        | 37.9        | 41.9        | 46.0        |
| 3.36  | ---                       | 9.6         | 10.7        | 11.8        | 14.6        | 16.7        | 17.8        | 18.8        | 20.4        | 22.4        | 24.0        | 25.0        | 27.5        | 30.1        | 33.1        | 37.7        | 41.2        | 45.3        | 49.3        |
| 3.41  | 10.3                      | 12.0        | 13.1        | 14.1        | 16.8        | 18.9        | 19.9        | 20.9        | 22.4        | 24.5        | 26.0        | 27.0        | 29.6        | 32.1        | 35.1        | 39.7        | 43.2        | 47.2        | 51.2        |
| 3.42  | ---                       | ---         | ---         | ---         | 10.6        | 13.0        | 14.1        | 15.2        | 16.8        | 19.0        | 20.6        | 21.6        | 24.2        | 26.8        | 29.9        | 34.5        | 38.0        | 42.1        | 46.1        |
| 3.46  | 11.9                      | 13.5        | 14.6        | 15.6        | 18.2        | 20.2        | 21.3        | 22.3        | 23.8        | 25.8        | 27.4        | 28.4        | 30.9        | 33.4        | 36.5        | 41.0        | 44.5        | 48.5        | 52.5        |
| 3.49  | ---                       | ---         | 10.0        | 11.2        | 13.9        | 16.1        | 17.2        | 18.2        | 19.8        | 21.9        | 23.4        | 24.4        | 27.0        | 29.6        | 32.6        | 37.2        | 40.7        | 44.7        | 48.8        |
| 3.51  | ---                       | 9.7         | 10.8        | 12.0        | 14.7        | 16.8        | 17.9        | 18.9        | 20.5        | 22.6        | 24.1        | 25.1        | 27.7        | 30.2        | 33.3        | 37.8        | 41.4        | 45.4        | 49.4        |
| 3.55  | ---                       | ---         | ---         | ---         | 10.7        | 13.1        | 14.2        | 15.3        | 17.0        | 19.1        | 20.7        | 21.8        | 24.4        | 26.9        | 30.0        | 34.6        | 38.2        | 42.2        | 46.3        |
| 3.58  | ---                       | ---         | ---         | ---         | ---         | ---         | 12.0        | 13.2        | 14.9        | 17.2        | 18.8        | 19.9        | 22.5        | 25.2        | 28.3        | 32.9        | 36.5        | 40.5        | 44.6        |
| 3.59  | 10.5                      | 12.1        | 13.2        | 14.3        | 16.9        | 19.0        | 20.0        | 21.0        | 22.6        | 24.6        | 26.2        | 27.2        | 29.7        | 32.2        | 35.3        | 39.8        | 43.3        | 47.4        | 51.4        |
| 3.65  | ---                       | ---         | 10.1        | 11.3        | 14.1        | 16.2        | 17.3        | 18.3        | 19.9        | 22.0        | 23.5        | 24.6        | 27.1        | 29.7        | 32.8        | 37.3        | 40.9        | 44.9        | 48.9        |
| 3.66  | 12.0                      | 13.6        | 14.7        | 15.7        | 18.3        | 20.4        | 21.4        | 22.4        | 24.0        | 26.0        | 27.5        | 28.5        | 31.0        | 33.6        | 36.6        | 41.1        | 44.6        | 48.7        | 52.7        |
|       | <b>0.83</b>               | <b>0.86</b> | <b>0.87</b> | <b>0.88</b> | <b>0.91</b> | <b>0.92</b> | <b>0.94</b> | <b>0.96</b> | <b>0.97</b> | <b>0.99</b> | <b>1.00</b> | <b>1.01</b> | <b>1.03</b> | <b>1.04</b> | <b>1.06</b> | <b>1.09</b> | <b>1.11</b> | <b>1.13</b> | <b>1.15</b> |

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).



# SELECTION

## A S-L CLASSIC      AX CLASSIC COG      STOCK DRIVE SELECTIONS

| Ratio                          | Stock Shv.  |        | 3500 RPM Driver |             |       | 1750 RPM Driver |             |      | 1160 RPM Driver |             |      | Belt Size/Center Distance |          |          |          |          |          |          |      |
|--------------------------------|-------------|--------|-----------------|-------------|-------|-----------------|-------------|------|-----------------|-------------|------|---------------------------|----------|----------|----------|----------|----------|----------|------|
|                                | Datum Diam. |        | Driven RPM      | HP Per Belt |       | Driven RPM      | HP Per Belt |      | Driven RPM      | HP Per Belt |      | A26 AX26                  | A31 AX31 | A33 AX33 | A35 AX35 | A38 AX38 | A42 AX42 | A46 AX46 |      |
|                                | Driver      | Driven |                 | A           | AX    |                 | A           | AX   |                 | A           | AX   |                           |          |          |          |          |          |          |      |
| 3.69                           | 4.6         | 18.0   | 948             | 8.73        | 9.60  | 474             | 5.65        | 6.05 | 314             | 4.10        | 4.45 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 3.71                           | 5.0         | 19.6   | 942             | 9.64        | 10.50 | 471             | 6.31        | 6.64 | 312             | 4.58        | 4.88 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 3.79                           | 3.2         | 13.2   | 923             | 4.99        | 6.13  | 461             | 3.22        | 3.89 | 306             | 2.36        | 2.89 | ---                       | ---      | ---      | ---      | ---      | 9.5      |          |      |
| 3.82                           | 3.8         | 15.6   | 916             | 6.70        | 7.68  | 458             | 4.28        | 4.84 | 303             | 3.12        | 3.57 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 3.86                           | 3.6         | 15.0   | 906             | 6.15        | 7.17  | 453             | 3.93        | 4.53 | 300             | 2.87        | 3.34 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 3.92                           | 6.0         | 24.6   | 894             | 11.58       | 12.57 | 447             | 7.91        | 8.06 | 296             | 5.75        | 5.92 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 4.01                           | 4.2         | 18.0   | 872             | 7.75        | 8.66  | 436             | 4.98        | 5.45 | 289             | 3.61        | 4.01 | ---                       | ---      | ---      | ---      | ---      | 9.6      |          |      |
| 4.02                           | 3.0         | 13.2   | 871             | 4.40        | 5.59  | 436             | 2.86        | 3.57 | 289             | 2.11        | 2.66 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 4.07                           | 3.4         | 15.0   | 860             | 5.58        | 6.66  | 430             | 3.58        | 4.21 | 285             | 2.62        | 3.12 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 4.20                           | 4.0         | 18.0   | 834             | 7.23        | 8.18  | 417             | 4.63        | 5.15 | 276             | 3.36        | 3.79 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 4.23                           | 3.4         | 15.6   | 828             | 5.58        | 6.66  | 414             | 3.58        | 4.21 | 274             | 2.62        | 3.12 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 4.30                           | 3.2         | 15.0   | 815             | 5.00        | 6.13  | 407             | 3.22        | 3.90 | 270             | 2.36        | 2.89 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 4.36                           | 4.2         | 19.6   | 802             | 7.75        | 8.66  | 401             | 4.98        | 5.46 | 266             | 3.61        | 4.01 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 4.40                           | 3.8         | 18.0   | 796             | 6.70        | 7.68  | 398             | 4.29        | 4.84 | 264             | 3.12        | 3.57 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 4.46                           | 3.2         | 15.6   | 784             | 5.00        | 6.13  | 392             | 3.22        | 3.90 | 260             | 2.36        | 2.89 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| ARC-LENGTH CORRECTION FACTOR → |             |        |                 |             |       |                 |             |      |                 |             |      | ---                       | ---      | ---      | ---      | ---      | ---      | ---      | 0.76 |
| 4.48                           | 5.2         | 24.6   | 782             | 10.07       | 10.94 | 391             | 6.64        | 6.93 | 259             | 4.82        | 5.09 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 4.55                           | 3.0         | 15.0   | 769             | 4.40        | 5.60  | 385             | 2.86        | 3.57 | 255             | 2.11        | 2.66 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 4.56                           | 4.0         | 19.6   | 767             | 7.23        | 8.18  | 384             | 4.63        | 5.15 | 254             | 3.37        | 3.79 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 4.62                           | 3.6         | 18.0   | 758             | 6.15        | 7.18  | 379             | 3.94        | 4.53 | 251             | 2.87        | 3.35 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 4.64                           | 5.0         | 24.6   | 754             | 9.65        | 10.51 | 377             | 6.32        | 6.64 | 250             | 4.58        | 4.88 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 4.73                           | 3.0         | 15.6   | 740             | 4.40        | 5.60  | 370             | 2.86        | 3.57 | 245             | 2.11        | 2.66 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 4.78                           | 3.8         | 19.6   | 732             | 6.70        | 7.68  | 366             | 4.29        | 4.84 | 243             | 3.12        | 3.57 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 4.82                           | 4.8         | 24.6   | 726             | 9.20        | 10.06 | 363             | 5.99        | 6.35 | 241             | 4.34        | 4.67 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 4.86                           | 3.4         | 18.0   | 720             | 5.58        | 6.66  | 360             | 3.58        | 4.22 | 239             | 2.62        | 3.12 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 5.01                           | 5.6         | 29.6   | 698             | 10.87       | 11.78 | 349             | 7.29        | 7.50 | 231             | 5.29        | 5.51 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 5.02                           | 3.6         | 19.6   | 697             | 6.15        | 7.18  | 349             | 3.94        | 4.53 | 231             | 2.87        | 3.35 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 5.13                           | 3.2         | 18.0   | 682             | 5.00        | 6.14  | 341             | 3.22        | 3.90 | 226             | 2.36        | 2.89 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 5.29                           | 3.4         | 19.6   | 662             | 5.58        | 6.66  | 331             | 3.58        | 4.22 | 219             | 2.62        | 3.12 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 5.37                           | 5.2         | 29.6   | 651             | 10.08       | 10.94 | 326             | 6.64        | 6.93 | 216             | 4.82        | 5.09 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 5.44                           | 3.0         | 18.0   | 644             | 4.40        | 5.60  | 322             | 2.86        | 3.57 | 213             | 2.11        | 2.66 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| ARC-LENGTH CORRECTION FACTOR → |             |        |                 |             |       |                 |             |      |                 |             |      | ---                       | ---      | ---      | ---      | ---      | ---      | ---      | ---  |
| 5.45                           | 4.2         | 24.6   | 642             | 7.76        | 8.67  | 321             | 4.98        | 5.46 | 213             | 3.61        | 4.02 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 5.57                           | 5.0         | 29.6   | 628             | 9.65        | 10.51 | 314             | 6.32        | 6.64 | 208             | 4.58        | 4.88 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 5.58                           | 3.2         | 19.6   | 627             | 5.00        | 6.14  | 314             | 3.22        | 3.90 | 208             | 2.36        | 2.89 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 5.70                           | 4.0         | 24.6   | 614             | 7.24        | 8.18  | 307             | 4.64        | 5.15 | 203             | 3.37        | 3.79 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 5.79                           | 4.8         | 29.6   | 605             | 9.20        | 10.06 | 302             | 5.99        | 6.35 | 200             | 4.34        | 4.67 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 5.91                           | 3.0         | 19.6   | 592             | 4.40        | 5.60  | 296             | 2.86        | 3.57 | 196             | 2.11        | 2.66 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 5.98                           | 3.8         | 24.6   | 586             | 6.70        | 7.69  | 293             | 4.29        | 4.84 | 194             | 3.12        | 3.57 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 6.02                           | 4.6         | 29.6   | 581             | 8.74        | 9.61  | 291             | 5.66        | 6.06 | 193             | 4.10        | 4.45 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 6.28                           | 3.6         | 24.6   | 558             | 6.15        | 7.18  | 279             | 3.94        | 4.53 | 185             | 2.87        | 3.35 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 6.35                           | 5.6         | 37.6   | 551             | 10.87       | 11.78 | 276             | 7.29        | 7.50 | 183             | 5.29        | 5.51 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 6.55                           | 4.2         | 29.6   | 535             | 7.76        | 8.67  | 267             | 4.98        | 5.46 | 177             | 3.61        | 4.02 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 6.61                           | 3.4         | 24.6   | 530             | 5.59        | 6.67  | 265             | 3.58        | 4.22 | 176             | 2.62        | 3.12 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 6.81                           | 5.2         | 37.6   | 514             | 10.08       | 10.94 | 257             | 6.65        | 6.94 | 170             | 4.82        | 5.09 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 6.84                           | 4.0         | 29.6   | 511             | 7.24        | 8.18  | 256             | 4.64        | 5.15 | 169             | 3.37        | 3.80 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 6.98                           | 3.2         | 24.6   | 502             | 5.00        | 6.14  | 251             | 3.23        | 3.90 | 166             | 2.37        | 2.89 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| ARC-LENGTH CORRECTION FACTOR → |             |        |                 |             |       |                 |             |      |                 |             |      | ---                       | ---      | ---      | ---      | ---      | ---      | ---      | ---  |
| 7.06                           | 5.0         | 37.6   | 496             | 9.65        | 10.51 | 248             | 6.32        | 6.65 | 164             | 4.58        | 4.88 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 7.17                           | 3.8         | 29.6   | 488             | 6.70        | 7.69  | 244             | 4.29        | 4.84 | 162             | 3.12        | 3.57 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 7.33                           | 4.8         | 37.6   | 477             | 9.21        | 10.07 | 239             | 5.99        | 6.35 | 158             | 4.34        | 4.67 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 7.39                           | 3.0         | 24.6   | 474             | 4.41        | 5.60  | 237             | 2.86        | 3.58 | 157             | 2.11        | 2.66 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 7.53                           | 3.6         | 29.6   | 465             | 6.15        | 7.18  | 232             | 3.94        | 4.53 | 154             | 2.87        | 3.35 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 7.63                           | 4.6         | 37.6   | 459             | 8.74        | 9.61  | 229             | 5.66        | 6.06 | 152             | 4.10        | 4.45 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 7.93                           | 3.4         | 29.6   | 441             | 5.59        | 6.67  | 221             | 3.58        | 4.22 | 146             | 2.62        | 3.12 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 8.29                           | 4.2         | 37.6   | 422             | 7.76        | 8.67  | 211             | 4.98        | 5.46 | 140             | 3.61        | 4.02 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 8.37                           | 3.2         | 29.6   | 418             | 5.00        | 6.14  | 209             | 3.23        | 3.90 | 139             | 2.37        | 2.89 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 8.67                           | 4.0         | 37.6   | 404             | 7.24        | 8.19  | 202             | 4.64        | 5.15 | 134             | 3.37        | 3.80 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 8.87                           | 3.0         | 29.6   | 395             | 4.41        | 5.60  | 197             | 2.87        | 3.58 | 131             | 2.11        | 2.66 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 9.09                           | 3.8         | 37.6   | 385             | 6.71        | 7.69  | 193             | 4.29        | 4.85 | 128             | 3.12        | 3.57 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 9.54                           | 3.6         | 37.6   | 367             | 6.16        | 7.18  | 183             | 3.94        | 4.53 | 122             | 2.87        | 3.35 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 10.05                          | 3.4         | 37.6   | 348             | 5.59        | 6.67  | 174             | 3.58        | 4.22 | 115             | 2.62        | 3.12 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 10.61                          | 3.2         | 37.6   | 330             | 5.01        | 6.14  | 165             | 3.23        | 3.90 | 109             | 2.37        | 2.89 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| 11.24                          | 3.0         | 37.6   | 311             | 4.41        | 5.60  | 156             | 2.87        | 3.58 | 103             | 2.11        | 2.66 | ---                       | ---      | ---      | ---      | ---      | ---      |          |      |
| ARC-LENGTH CORRECTION FACTOR → |             |        |                 |             |       |                 |             |      |                 |             |      | ---                       | ---      | ---      | ---      | ---      | ---      | ---      | ---  |

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

# SELECTION



|   |             |    |             |                        |
|---|-------------|----|-------------|------------------------|
| A | S-L CLASSIC | AX | CLASSIC COG | STOCK DRIVE SELECTIONS |
|---|-------------|----|-------------|------------------------|

| Ratio | Belt Size/Center Distance |             |             |             |             |             |             |             |             |             |             |             |             |             |             |               |               |               |               |      |
|-------|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|---------------|---------------|---------------|------|
|       | A48<br>AX48               | A51<br>AX51 | A53<br>AX53 | A55<br>AX55 | A60<br>AX60 | A64<br>AX64 | A66<br>AX66 | A68<br>AX68 | A71<br>AX71 | A75<br>AX75 | A78<br>AX78 | A80<br>AX80 | A85<br>AX85 | A90<br>AX90 | A96<br>AX96 | A105<br>AX105 | A112<br>AX112 | A120<br>AX120 | A128<br>AX128 |      |
| 3.69  | ---                       | ---         | ---         | ---         | 10.8        | 13.2        | 14.3        | 15.5        | 17.1        | 19.2        | 20.8        | 21.9        | 24.5        | 27.1        | 30.2        | 34.8          | 38.3          | 42.4          | 46.4          |      |
| 3.71  | ---                       | ---         | ---         | ---         | ---         | ---         | 12.1        | 13.3        | 15.1        | 17.3        | 18.9        | 20.0        | 22.7        | 25.3        | 28.4        | 33.0          | 36.6          | 40.7          | 44.7          |      |
| 3.79  | 10.6                      | 12.3        | 13.3        | 14.4        | 17.0        | 19.1        | 20.2        | 21.2        | 22.7        | 24.8        | 26.3        | 27.3        | 29.9        | 32.4        | 35.4        | 40.0          | 43.5          | 47.5          | 51.5          |      |
| 3.82  | ---                       | ---         | 10.2        | 11.4        | 14.2        | 16.4        | 17.4        | 18.5        | 20.1        | 22.1        | 23.7        | 24.7        | 27.3        | 29.8        | 32.9        | 37.5          | 41.0          | 45.0          | 49.1          |      |
| 3.86  | ---                       | 9.9         | 11.1        | 12.2        | 15.0        | 17.1        | 18.2        | 19.2        | 20.8        | 22.8        | 24.4        | 25.4        | 28.0        | 30.5        | 33.6        | 38.1          | 41.7          | 45.7          | 49.7          |      |
| 3.92  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | 13.4        | 16.5        | 19.4        | 22.7        | 27.6          | 31.2          | 35.4          | 39.5          |      |
| 4.01  | ---                       | ---         | ---         | ---         | 11.1        | 13.5        | 14.6        | 15.7        | 17.4        | 19.5        | 21.1        | 22.1        | 24.8        | 27.4        | 30.4        | 35.0          | 38.6          | 42.7          | 46.7          |      |
| 4.02  | 10.7                      | 12.4        | 13.5        | 14.5        | 17.2        | 19.3        | 20.3        | 21.3        | 22.9        | 24.9        | 26.4        | 27.5        | 30.0        | 32.5        | 35.6        | 40.1          | 43.6          | 47.7          | 51.7          |      |
| 4.07  | ---                       | 10.0        | 11.2        | 12.3        | 15.1        | 17.2        | 18.3        | 19.3        | 20.9        | 23.0        | 24.5        | 25.5        | 28.1        | 30.7        | 33.7        | 38.3          | 41.8          | 45.8          | 49.9          |      |
| 4.20  | ---                       | ---         | ---         | ---         | 11.2        | 13.6        | 14.7        | 15.8        | 17.5        | 19.6        | 21.2        | 22.3        | 24.9        | 27.5        | 30.6        | 35.2          | 38.7          | 42.8          | 46.9          |      |
| 4.23  | ---                       | 9.2         | 10.5        | 11.6        | 14.4        | 16.6        | 17.7        | 18.7        | 20.3        | 22.4        | 24.0        | 25.0        | 27.6        | 30.1        | 33.2        | 37.7          | 41.3          | 45.3          | 49.4          |      |
| 4.30  | 8.3                       | 10.1        | 11.3        | 12.5        | 15.2        | 17.4        | 18.4        | 19.5        | 21.0        | 23.1        | 24.7        | 25.7        | 28.2        | 30.8        | 33.8        | 38.4          | 41.9          | 46.0          | 50.0          |      |
| 4.36  | ---                       | ---         | ---         | ---         | ---         | 11.4        | 12.6        | 13.8        | 15.6        | 17.8        | 19.4        | 20.5        | 23.2        | 25.8        | 28.9        | 33.6          | 37.2          | 41.2          | 45.3          |      |
| 4.40  | ---                       | ---         | ---         | ---         | 11.3        | 13.7        | 14.8        | 16.0        | 17.6        | 19.8        | 21.4        | 22.4        | 25.0        | 27.6        | 30.7        | 35.3          | 38.9          | 43.0          | 47.0          |      |
| 4.46  | ---                       | 9.3         | 10.6        | 11.8        | 14.6        | 16.7        | 17.8        | 18.9        | 20.5        | 22.5        | 24.1        | 25.1        | 27.7        | 30.3        | 33.3        | 37.9          | 41.4          | 45.5          | 49.5          |      |
|       | 0.78                      | 0.79        | 0.80        | 0.81        | 0.82        | 0.83        | 0.85        | 0.85        | 0.87        | 0.91        | 0.92        | 0.94        | 0.97        | 0.99        | 1.02        | 1.05          | 1.07          | 1.10          | 1.12          |      |
| 4.48  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | 12.5        | 13.9        | 17.0        | 19.9        | 23.2        | 28.1          | 31.8          | 35.9          | 40.1          |      |
| 4.55  | 8.4                       | 10.3        | 11.4        | 12.6        | 15.3        | 17.5        | 18.5        | 19.6        | 21.2        | 23.2        | 24.8        | 25.8        | 28.4        | 30.9        | 34.0        | 38.6          | 42.1          | 46.1          | 50.2          |      |
| 4.56  | ---                       | ---         | ---         | ---         | ---         | 11.5        | 12.7        | 13.9        | 15.7        | 17.9        | 19.6        | 20.7        | 23.3        | 26.0        | 29.1        | 33.7          | 37.3          | 41.4          | 45.5          |      |
| 4.62  | ---                       | ---         | ---         | ---         | 11.4        | 13.8        | 15.0        | 16.1        | 17.7        | 19.9        | 21.5        | 22.5        | 25.2        | 27.8        | 30.9        | 35.5          | 39.0          | 43.1          | 47.1          |      |
| 4.64  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | 12.6        | 14.0        | 17.1        | 20.0        | 23.4        | 28.2          | 31.9          | 36.1          | 40.2          |      |
| 4.73  | ---                       | 9.4         | 10.7        | 11.9        | 14.7        | 16.9        | 17.9        | 19.0        | 20.6        | 22.7        | 24.2        | 25.3        | 27.8        | 30.4        | 33.5        | 38.0          | 41.6          | 45.6          | 49.6          |      |
| 4.78  | ---                       | ---         | ---         | ---         | ---         | 11.6        | 12.9        | 14.1        | 15.8        | 18.1        | 19.7        | 20.8        | 23.5        | 26.1        | 29.2        | 33.9          | 37.4          | 41.5          | 45.6          |      |
| 4.82  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | 12.7        | 14.1        | 17.2        | 20.1        | 23.5        | 28.3          | 32.0          | 36.2          | 40.4          |      |
| 4.86  | ---                       | ---         | ---         | ---         | 11.5        | 13.9        | 15.1        | 16.2        | 17.9        | 20.0        | 21.6        | 22.7        | 25.3        | 27.9        | 31.0        | 35.6          | 39.2          | 43.2          | 47.3          |      |
| 5.01  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | 16.7        | 22.3          | 26.3          | 30.7          | 35.0          |      |
| 5.02  | ---                       | ---         | ---         | ---         | ---         | 11.7        | 13.0        | 14.2        | 15.9        | 18.2        | 19.8        | 20.9        | 23.6        | 26.2        | 29.3        | 34.0          | 37.6          | 41.7          | 45.7          |      |
| 5.13  | ---                       | ---         | ---         | ---         | 11.7        | 14.1        | 15.2        | 16.3        | 18.0        | 20.1        | 21.7        | 22.8        | 25.4        | 28.0        | 31.1        | 35.7          | 39.3          | 43.4          | 47.4          |      |
| 5.29  | ---                       | ---         | ---         | ---         | ---         | 11.8        | 13.1        | 14.3        | 16.1        | 18.3        | 20.0        | 21.0        | 23.7        | 26.4        | 29.5        | 34.1          | 37.7          | 41.8          | 45.9          |      |
| 5.37  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | 16.9        | 22.5          | 26.5          | 30.9          | 35.2          |      |
| 5.44  | ---                       | ---         | ---         | ---         | 11.8        | 14.2        | 15.3        | 16.5        | 18.1        | 20.3        | 21.9        | 22.9        | 25.6        | 28.2        | 31.3        | 35.9          | 39.5          | 43.5          | 47.6          |      |
|       | 0.78                      | 0.79        | 0.80        | 0.81        | 0.82        | 0.83        | 0.85        | 0.85        | 0.87        | 0.91        | 0.92        | 0.94        | 0.97        | 0.99        | 1.02        | 1.05          | 1.07          | 1.10          | 1.12          |      |
| 5.45  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | 13.1        | 14.4        | 17.6        | 20.5        | 23.9        | 28.7          | 32.4          | 36.6          | 40.8          |      |
| 5.57  | ---                       | ---         | ---         | ---         | ---         | 11.9        | 13.2        | 14.4        | 16.2        | 18.4        | ---         | ---         | ---         | ---         | 17.1        | 22.6          | 26.7          | 31.1          | 35.3          |      |
| 5.58  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | 20.1        | 21.2        | 23.8        | 26.5          | 29.6          | 34.3          | 37.9          | 42.0 |
| 5.70  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | 13.2        | 14.6        | 17.7        | 20.6        | 24.0          | 28.9          | 32.6          | 36.8          | 40.9 |
| 5.79  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | 17.2        | 22.8          | 26.8          | 31.2          | 35.5          |      |
| 5.91  | ---                       | ---         | ---         | ---         | ---         | 12.1        | 13.3        | 14.5        | 16.3        | 18.6        | 20.2        | 21.3        | 24.0        | 26.6        | 29.8        | 34.4          | 38.0          | 42.1          | 46.2          |      |
| 5.98  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | 13.3        | 14.7        | 17.8        | 20.7        | 24.1          | 29.0          | 32.7          | 36.9          | 41.0 |
| 6.02  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | 17.3        | 22.9          | 26.9          | 31.3          | 35.6          |      |
| 6.28  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | 13.4        | 14.8        | 17.9        | 20.9        | 24.2        | 29.1          | 32.8          | 37.0          | 41.2          |      |
| 6.35  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---           | ---           | 20.5          | 25.8          |      |
| 6.55  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | 17.5        | 23.1          | 27.1          | 31.6          | 35.9          |      |
| 6.61  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | 13.5        | 14.9        | 18.1        | 21.0        | 24.4        | 29.2          | 33.0          | 37.2          | 41.3          |      |
| 6.81  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---           | ---           | 20.7          | 26.0          |      |
| 6.84  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | 17.6        | 23.3          | 27.3          | 31.7          | 36.0          |      |
| 6.98  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | 13.6        | 15.0        | 18.2        | 21.1        | 24.5        | 29.4          | 33.1          | 37.3          | 41.4          |      |
|       | ---                       | ---         | ---         | ---         | ---         | 0.76        | 0.76        | 0.78        | 0.83        | 0.87        | 0.89        | 0.91        | 0.94        | 0.97        | 1.00        | 1.04          | 1.06          | 1.09          | 1.11          |      |
| 7.06  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---           | ---           | 20.8          | 26.1          |      |
| 7.17  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | 17.7        | 23.4          | 27.4          | 31.8          | 36.1          |      |
| 7.33  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---           | ---           | 20.9          | 26.2          |      |
| 7.39  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | 11.3        | 13.7        | 15.1        | 18.3        | 21.2        | 24.6        | 29.5          | 33.2          | 37.4          | 41.6          |      |
| 7.53  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | 17.9        | 23.5          | 27.5          | 31.9          | 36.3          |      |
| 7.63  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---           | ---           | 21.1          | 26.4          |      |
| 7.93  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | 18.0        | 23.6          | 27.6          | 32.1          | 36.4          |      |
| 8.29  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---           | ---           | 21.3          | 26.6          |      |
| 8.37  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | 18.1        | 23.7          | 27.8          | 32.2          | 36.5          |      |
| 8.67  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---           | ---           | 21.4          | 26.7          |      |
| 8.87  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | 18.2        | 23.9          | 27.9          | 32.3          | 36.6          |      |
| 9.09  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---           | ---           | 21.5          | 26.8          |      |
| 9.54  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---           | ---           | 21.6          | 26.9          |      |
| 10.05 | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---           | ---           | 21.7          | 27.1          |      |
| 10.61 | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---           | ---           | 21.9          | 27.2          |      |
| 11.24 | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---           | ---           | 22.0          | 27.3          |      |
|       | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         | ---         | 0.75        | 0.77        | 0.80        | 0.82        | 0.88        | 0.93        | 0.99          | 1.02          | 1.05          | 1.08          |      |

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets

# SELECTION



## B S-L CLASSIC BX CLASSIC COG STOCK DRIVE SELECTIONS

| Ratio                          | Stock Shv.  |        | 3500 RPM Driver |             |       | 1750 RPM Driver |             |       | 1160 RPM Driver |             |       | Belt Size/Center Distance |      |      |      |      |      |      |      |  |  |
|--------------------------------|-------------|--------|-----------------|-------------|-------|-----------------|-------------|-------|-----------------|-------------|-------|---------------------------|------|------|------|------|------|------|------|--|--|
|                                | Datum Diam. |        | Driven RPM      | HP Per Belt |       | Driven RPM      | HP Per Belt |       | Driven RPM      | HP Per Belt |       | B35                       | B38  | B42  | B46  | B51  | B55  | B60  | B64  |  |  |
|                                | Driver      | Driven |                 | B           | BX    |                 | B           | BX    |                 | B           | BX    | BX35                      | BX38 | BX42 | BX46 | BX51 | BX55 | BX60 | BX64 |  |  |
| 1.00                           | 3.40        | 3.40   | 3500            | 1.41        | 7.30  | 1750            | 1.95        | 4.99  | 1160            | 1.67        | 3.74  | 13.1                      | 14.6 | 16.6 | 18.6 | 21.1 | 23.1 | 25.6 | 27.6 |  |  |
| 1.00                           | 3.80        | 3.80   | 3500            | 3.20        | 8.67  | 1750            | 3.07        | 5.90  | 1160            | 2.47        | 4.40  | 12.4                      | 13.9 | 15.9 | 17.9 | 20.4 | 22.4 | 24.9 | 26.9 |  |  |
| 1.00                           | 4.20        | 4.20   | 3500            | 4.88        | 9.94  | 1750            | 4.18        | 6.78  | 1160            | 3.26        | 5.05  | 11.8                      | 13.3 | 15.3 | 17.3 | 19.8 | 21.8 | 24.3 | 26.3 |  |  |
| 1.00                           | 4.60        | 4.60   | 3500            | 6.45        | 11.11 | 1750            | 5.26        | 7.65  | 1160            | 4.03        | 5.68  | 11.2                      | 12.7 | 14.7 | 16.7 | 19.2 | 21.2 | 23.7 | 25.7 |  |  |
| 1.00                           | 5.00        | 5.00   | 3500            | 7.90        | 12.17 | 1750            | 6.32        | 8.49  | 1160            | 4.80        | 6.31  | 10.6                      | 12.1 | 14.1 | 16.1 | 18.6 | 20.6 | 23.1 | 25.1 |  |  |
| 1.00                           | 5.20        | 5.20   | 3500            | 8.58        | 12.66 | 1750            | 6.84        | 8.90  | 1160            | 5.18        | 6.62  | 10.2                      | 11.7 | 13.7 | 15.7 | 18.2 | 20.2 | 22.7 | 24.7 |  |  |
| 1.00                           | 5.40        | 5.40   | 3500            | 9.23        | 13.12 | 1750            | 7.36        | 9.31  | 1160            | 5.56        | 6.92  | 9.9                       | 11.4 | 13.4 | 15.4 | 17.9 | 19.9 | 22.4 | 24.4 |  |  |
| 1.00                           | 5.60        | 5.60   | 3500            | 9.85        | 13.55 | 1750            | 7.87        | 9.71  | 1160            | 5.94        | 7.22  | 9.6                       | 11.1 | 13.1 | 15.1 | 17.6 | 19.6 | 22.1 | 24.1 |  |  |
| 1.00                           | 6.00        | 6.00   | 3500            | 10.97       | 14.33 | 1750            | 8.87        | 10.49 | 1160            | 6.68        | 7.82  | 9.0                       | 10.5 | 12.5 | 14.5 | 17.0 | 19.0 | 21.5 | 23.5 |  |  |
| 1.00                           | 6.40        | 6.40   | 3500            | 11.96       | 14.99 | 1750            | 9.85        | 11.26 | 1160            | 7.41        | 8.41  | 8.4                       | 9.9  | 11.9 | 13.9 | 16.4 | 18.4 | 20.9 | 22.9 |  |  |
| 1.00                           | 6.80        | 6.80   | 3500            | 12.80       | 15.51 | 1750            | 10.81       | 11.99 | 1160            | 8.14        | 8.99  | 7.7                       | 9.2  | 11.2 | 13.2 | 15.7 | 17.7 | 20.2 | 22.2 |  |  |
| 1.00                           | 7.40        | 7.40   | 3500            | ---         | ---   | 1750            | 12.19       | 13.06 | 1160            | 9.20        | 9.84  | ---                       | 8.3  | 10.3 | 12.3 | 14.8 | 16.8 | 19.3 | 21.3 |  |  |
| 1.00                           | 8.60        | 8.60   | 3500            | ---         | ---   | 1750            | 14.79       | 15.03 | 1160            | 11.27       | 11.47 | ---                       | ---  | 10.4 | 12.9 | 14.9 | 17.4 | 19.4 | 21.4 |  |  |
| 1.00                           | 9.40        | 9.40   | 3500            | ---         | ---   | 1750            | 16.38       | 16.22 | 1160            | 12.59       | 12.50 | ---                       | ---  | ---  | 11.6 | 13.6 | 16.1 | 18.1 | 20.1 |  |  |
| 1.03                           | 6.80        | 7.00   | 3405            | 13.01       | 15.72 | 1702            | 10.91       | 12.10 | 1128            | 8.20        | 9.06  | 7.6                       | 9.1  | 11.1 | 13.1 | 15.6 | 17.6 | 20.1 | 22.1 |  |  |
| 1.03                           | 6.00        | 6.20   | 3393            | 11.21       | 14.57 | 1697            | 8.99        | 10.61 | 1125            | 6.76        | 7.90  | 8.8                       | 10.3 | 12.3 | 14.3 | 16.8 | 18.8 | 21.3 | 23.3 |  |  |
| 1.03                           | 5.40        | 5.60   | 3383            | 9.49        | 13.38 | 1691            | 7.49        | 9.43  | 1121            | 5.65        | 7.01  | 9.8                       | 11.3 | 13.3 | 15.3 | 17.8 | 19.8 | 22.3 | 24.3 |  |  |
| 1.04                           | 5.20        | 5.40   | 3378            | 8.85        | 12.92 | 1689            | 6.98        | 9.03  | 1120            | 5.27        | 6.70  | 10.1                      | 11.6 | 13.6 | 15.6 | 18.1 | 20.1 | 22.6 | 24.6 |  |  |
| 1.04                           | 4.60        | 4.80   | 3364            | 6.75        | 11.40 | 1682            | 5.41        | 7.79  | 1115            | 4.13        | 5.78  | 11.0                      | 12.5 | 14.5 | 16.5 | 19.0 | 21.0 | 23.5 | 25.5 |  |  |
| 1.04                           | 4.20        | 4.40   | 3353            | 5.20        | 10.25 | 1676            | 4.34        | 6.94  | 1111            | 3.36        | 5.15  | 11.6                      | 13.1 | 15.1 | 17.1 | 19.6 | 21.6 | 24.1 | 26.1 |  |  |
| 1.05                           | 4.00        | 4.20   | 3346            | 4.38        | 9.64  | 1673            | 3.79        | 6.51  | 1109            | 2.97        | 4.83  | 12.0                      | 13.5 | 15.5 | 17.5 | 20.0 | 22.0 | 24.5 | 26.5 |  |  |
| 1.05                           | 3.60        | 3.80   | 3332            | 2.68        | 8.36  | 1666            | 2.69        | 5.62  | 1104            | 2.19        | 4.19  | 12.6                      | 14.1 | 16.1 | 18.1 | 20.6 | 22.6 | 25.1 | 27.1 |  |  |
| 1.05                           | 3.40        | 3.60   | 3323            | 1.79        | 7.68  | 1662            | 2.13        | 5.18  | 1101            | 1.79        | 3.87  | 12.9                      | 14.4 | 16.4 | 18.4 | 20.9 | 22.9 | 25.4 | 27.4 |  |  |
| 1.06                           | 6.40        | 6.80   | 3304            | 12.37       | 15.40 | 1652            | 10.06       | 11.46 | 1095            | 7.55        | 8.55  | 8.0                       | 9.5  | 11.5 | 13.5 | 16.0 | 18.0 | 20.5 | 22.5 |  |  |
| 1.06                           | 6.00        | 6.40   | 3293            | 11.41       | 14.77 | 1646            | 9.09        | 10.71 | 1091            | 6.82        | 7.97  | 8.7                       | 10.2 | 12.2 | 14.2 | 16.7 | 18.7 | 21.2 | 23.2 |  |  |
| 1.07                           | 5.60        | 6.00   | 3280            | 10.30       | 14.01 | 1640            | 8.10        | 9.94  | 1087            | 6.09        | 7.38  | 9.3                       | 10.8 | 12.8 | 14.8 | 17.3 | 19.3 | 21.8 | 23.8 |  |  |
| 1.07                           | 5.00        | 5.40   | 3257            | 8.40        | 12.67 | 1628            | 6.57        | 8.74  | 1079            | 4.97        | 6.47  | 10.2                      | 11.7 | 13.7 | 15.7 | 18.2 | 20.2 | 22.7 | 24.7 |  |  |
| 1.08                           | 7.40        | 8.00   | 3249            | ---         | ---   | 1624            | 12.45       | 13.32 | 1077            | 9.37        | 10.01 | ---                       | 7.8  | 9.8  | 11.8 | 14.3 | 16.3 | 18.8 | 20.8 |  |  |
| 1.08                           | 4.60        | 5.00   | 3239            | 6.99        | 11.64 | 1619            | 5.53        | 7.91  | 1073            | 4.21        | 5.86  | 10.9                      | 12.4 | 14.4 | 16.4 | 18.9 | 20.9 | 23.4 | 25.4 |  |  |
| 1.09                           | 8.60        | 9.40   | 3213            | ---         | ---   | 1607            | 15.08       | 15.32 | 1065            | 11.46       | 11.66 | ---                       | ---  | 9.8  | 12.3 | 14.3 | 16.8 | 18.8 | 21.3 |  |  |
| 1.09                           | 4.00        | 4.40   | 3206            | 4.65        | 9.91  | 1603            | 3.92        | 6.64  | 1063            | 3.06        | 4.92  | 11.8                      | 13.3 | 15.3 | 17.3 | 19.8 | 21.8 | 24.3 | 26.3 |  |  |
| 1.09                           | 6.00        | 6.60   | 3198            | 11.58       | 14.94 | 1599            | 9.17        | 10.79 | 1060            | 6.88        | 8.02  | 8.5                       | 10.0 | 12.0 | 14.0 | 16.5 | 18.5 | 21.0 | 23.0 |  |  |
| 1.10                           | 5.60        | 6.20   | 3180            | 10.48       | 14.19 | 1590            | 8.19        | 10.03 | 1054            | 6.15        | 7.43  | 9.1                       | 10.6 | 12.6 | 14.6 | 17.1 | 19.1 | 21.6 | 23.6 |  |  |
| 1.10                           | 3.60        | 4.00   | 3179            | 2.96        | 8.63  | 1589            | 2.83        | 5.76  | 1054            | 2.28        | 4.28  | 12.4                      | 13.9 | 15.9 | 17.9 | 20.4 | 22.4 | 24.9 | 26.9 |  |  |
| 1.11                           | 3.40        | 3.80   | 3163            | 2.07        | 7.96  | 1582            | 2.28        | 5.32  | 1048            | 1.89        | 3.96  | 12.7                      | 14.2 | 16.2 | 18.2 | 20.7 | 22.7 | 25.2 | 27.2 |  |  |
| ARC-LENGTH CORRECTION FACTOR → |             |        |                 |             |       |                 |             |       |                 |             |       | 0.76                      | 0.78 | 0.81 | 0.83 | 0.86 | 0.88 | 0.90 | 0.92 |  |  |
| 1.11                           | 5.20        | 5.80   | 3159            | 9.25        | 13.33 | 1580            | 7.18        | 9.24  | 1047            | 5.41        | 6.84  | 9.8                       | 11.3 | 13.3 | 15.3 | 17.8 | 19.8 | 22.3 | 24.3 |  |  |
| 1.12                           | 4.60        | 5.20   | 3122            | 7.18        | 11.84 | 1561            | 5.63        | 8.01  | 1035            | 4.28        | 5.93  | 10.7                      | 12.2 | 14.2 | 16.2 | 18.7 | 20.7 | 23.2 | 25.2 |  |  |
| 1.13                           | 6.00        | 6.80   | 3109            | 11.72       | 15.08 | 1554            | 9.25        | 10.87 | 1030            | 6.93        | 8.07  | 8.3                       | 9.8  | 11.8 | 13.8 | 16.3 | 18.3 | 20.8 | 22.8 |  |  |
| 1.13                           | 4.20        | 4.80   | 3093            | 5.66        | 10.71 | 1547            | 4.57        | 7.17  | 1025            | 3.51        | 5.30  | 11.3                      | 12.8 | 14.8 | 16.8 | 19.3 | 21.3 | 23.8 | 25.8 |  |  |
| 1.13                           | 5.60        | 6.40   | 3086            | 10.63       | 14.34 | 1543            | 8.26        | 10.10 | 1023            | 6.20        | 7.48  | 9.0                       | 10.5 | 12.5 | 14.5 | 17.0 | 19.0 | 21.5 | 23.5 |  |  |
| 1.14                           | 5.40        | 6.20   | 3073            | 10.04       | 13.93 | 1537            | 7.76        | 9.71  | 1019            | 5.83        | 7.19  | 9.3                       | 10.8 | 12.8 | 14.8 | 17.3 | 19.3 | 21.8 | 23.8 |  |  |
| 1.14                           | 3.80        | 4.40   | 3059            | 4.03        | 9.49  | 1529            | 3.49        | 6.31  | 1014            | 2.74        | 4.67  | 12.0                      | 13.5 | 15.5 | 17.5 | 20.0 | 22.0 | 24.5 | 26.5 |  |  |
| 1.15                           | 5.00        | 5.80   | 3045            | 8.75        | 13.01 | 1523            | 6.74        | 8.91  | 1009            | 5.08        | 6.59  | 9.9                       | 11.4 | 13.4 | 15.4 | 17.9 | 19.9 | 22.4 | 24.4 |  |  |
| 1.15                           | 3.60        | 4.20   | 3039            | 3.17        | 8.85  | 1520            | 2.94        | 5.87  | 1007            | 2.35        | 4.36  | 12.3                      | 13.8 | 15.8 | 17.8 | 20.3 | 22.3 | 24.8 | 26.8 |  |  |
| 1.15                           | 7.40        | 8.60   | 3031            | ---         | ---   | 1516            | 12.63       | 13.49 | 1005            | 9.49        | 10.12 | ---                       | ---  | 9.3  | 11.3 | 13.8 | 15.8 | 18.3 | 20.3 |  |  |
| 1.16                           | 6.00        | 7.00   | 3024            | 11.85       | 15.21 | 1512            | 9.31        | 10.93 | 1002            | 6.97        | 8.11  | 8.2                       | 9.7  | 11.7 | 13.7 | 16.2 | 18.2 | 20.7 | 22.7 |  |  |
| 1.16                           | 3.40        | 4.00   | 3018            | 2.30        | 8.19  | 1509            | 2.39        | 5.43  | 1000            | 1.96        | 4.03  | 12.6                      | 14.1 | 16.1 | 18.1 | 20.6 | 22.6 | 25.1 | 27.1 |  |  |
| 1.16                           | 9.40        | 11.00  | 3007            | ---         | ---   | 1504            | 16.83       | 16.67 | 997             | 12.89       | 12.80 | ---                       | ---  | ---  | 10.4 | 12.4 | 14.9 | 16.9 | 18.9 |  |  |
| 1.17                           | 6.80        | 8.00   | 2998            | 13.71       | 16.43 | 1499            | 11.26       | 12.45 | 993             | 8.44        | 9.29  | ---                       | 8.3  | 10.3 | 12.3 | 14.8 | 16.8 | 19.3 | 21.3 |  |  |
| 1.17                           | 5.40        | 6.40   | 2982            | 10.17       | 14.06 | 1491            | 7.83        | 9.77  | 988             | 5.87        | 7.23  | 9.1                       | 10.6 | 12.6 | 14.6 | 17.1 | 19.1 | 21.6 | 23.6 |  |  |
| 1.18                           | 5.20        | 6.20   | 2966            | 9.54        | 13.61 | 1483            | 7.32        | 9.38  | 983             | 5.50        | 6.93  | 9.4                       | 10.9 | 12.9 | 14.9 | 17.4 | 19.4 | 21.9 | 23.9 |  |  |
| 1.18                           | 4.00        | 4.80   | 2957            | 5.02        | 10.28 | 1479            | 4.11        | 6.83  | 980             | 3.18        | 5.05  | 11.5                      | 13.0 | 15.0 | 17.0 | 19.5 | 21.5 | 24.0 | 26.0 |  |  |
| 1.19                           | 5.00        | 6.00   | 2950            | 8.88        | 13.15 | 1475            | 6.81        | 8.98  | 978             | 5.13        | 6.63  | 9.8                       | 11.3 | 13.3 | 15.3 | 17.8 | 19.8 | 22.3 | 24.3 |  |  |
| 1.19                           | 3.80        | 4.60   | 2935            | 4.19        | 9.66  | 1468            | 3.57        | 6.39  | 973             | 2.80        | 4.73  | 11.8                      | 13.3 | 15.3 | 17.3 | 19.8 | 21.8 | 24.3 | 26.3 |  |  |
| 1.20                           | 5.60        | 6.80   | 2913            | 10.87       | 14.58 | 1457            | 8.38        | 10.22 | 966             | 6.27        | 7.56  | 8.6                       | 10.1 | 12.2 | 14.2 | 16.7 | 18.7 | 21.2 | 23.2 |  |  |
| 1.20                           | 4.60        | 5.60   | 2913            | 7.48        | 12.13 | 1456            | 5.77        | 8.16  | 965             | 4.37        | 6.02  | 10.4                      | 11.9 | 13.9 | 15.9 | 18.4 | 20.4 | 22.9 | 24.9 |  |  |
| 1.20                           | 3.60        | 4.40   | 2912            | 3.34        | 9.02  | 1456            | 3.02        | 5.96  | 965             | 2.41        | 4.41  | 12.1                      | 13.6 | 15.6 | 17.6 | 20.1 | 22.1 | 24.6 | 26.6 |  |  |
| 1.21                           | 5.40        | 6.60   | 2897            | 10.27       | 14.16 | 1448            | 7.88        | 9.83  | 960             | 5.91        | 7.27  | 9.0                       | 10.5 | 12.5 | 14.5 | 17.0 | 19.0 | 21.5 | 23.5 |  |  |
| 1.21                           | 3.40        | 4.20   | 2886            | 2.47        | 8.36  | 1443            | 2.47        | 5.52  | 956             | 2.02        | 4.09  | 12.4                      | 13.9 | 15.9 | 17.9 | 20.4 | 22.4 | 24.9 | 26.9 |  |  |
| 1.22                           | 4.20        | 5.20   | 2871            | 5.96        | 11.01 | 1435            | 4.72        | 7.32  | 951             | 3.61        | 5.40  | 11.0                      | 12.5 | 14.5 | 16.5 | 19.0 | 21.0 | 23.5 | 25.5 |  |  |
| ARC-LENGTH CORRECTION FACTOR → |             |        |                 |             |       |                 |             |       |                 |             |       | 0.75                      | 0.77 | 0.80 | 0.82 | 0.85 | 0.87 | 0.89 | 0.90 |  |  |

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).



# SELECTION



|          |                    |           |                    |                               |
|----------|--------------------|-----------|--------------------|-------------------------------|
| <b>B</b> | <b>S-L CLASSIC</b> | <b>BX</b> | <b>CLASSIC COG</b> | <b>STOCK DRIVE SELECTIONS</b> |
|----------|--------------------|-----------|--------------------|-------------------------------|

| Ratio | Belt Size/Center Distance |             |             |             |             |             |               |               |               |               |               |               |               |               |               |               |               |               |
|-------|---------------------------|-------------|-------------|-------------|-------------|-------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|       | B68<br>BX68               | B75<br>BX75 | B81<br>BX81 | B85<br>BX85 | B90<br>BX90 | B97<br>BX97 | B105<br>BX105 | B112<br>BX112 | B120<br>BX120 | B128<br>BX128 | B144<br>BX144 | B158<br>BX158 | B173<br>BX173 | B180<br>BX180 | B195<br>BX195 | B210<br>BX210 | B240<br>BX240 | B270<br>BX270 |
| 1.00  | 29.6                      | 33.1        | 36.1        | 38.1        | 40.6        | 44.1        | 48.1          | 51.6          | 55.6          | 59.6          | 67.6          | 74.6          | 82.1          | 85.6          | 93.1          | 100.6         | 114.8         | 129.8         |
| 1.00  | 28.9                      | 32.4        | 35.4        | 37.4        | 39.9        | 43.4        | 47.4          | 50.9          | 54.9          | 58.9          | 66.9          | 73.9          | 81.4          | 84.9          | 92.4          | 99.9          | 114.2         | 129.2         |
| 1.00  | 28.3                      | 31.8        | 34.8        | 36.8        | 39.3        | 42.8        | 46.8          | 50.3          | 54.3          | 58.3          | 66.3          | 73.3          | 80.8          | 84.3          | 91.8          | 99.3          | 113.6         | 128.6         |
| 1.00  | 27.7                      | 31.2        | 34.2        | 36.2        | 38.7        | 42.2        | 46.2          | 49.7          | 53.7          | 57.7          | 65.7          | 72.7          | 80.2          | 83.7          | 91.2          | 98.7          | 112.9         | 127.9         |
| 1.00  | 27.1                      | 30.6        | 33.5        | 35.5        | 38.0        | 41.5        | 45.5          | 49.0          | 53.0          | 57.0          | 65.0          | 72.0          | 79.5          | 83.0          | 90.5          | 98.0          | 112.3         | 127.3         |
| 1.00  | 26.7                      | 30.2        | 33.2        | 35.2        | 37.7        | 41.2        | 45.2          | 48.7          | 52.7          | 56.7          | 64.7          | 71.7          | 79.2          | 82.7          | 90.2          | 97.7          | 112.0         | 127.0         |
| 1.00  | 26.4                      | 29.9        | 32.9        | 34.9        | 37.4        | 40.9        | 44.9          | 48.4          | 52.4          | 56.4          | 64.4          | 71.4          | 78.9          | 82.4          | 89.9          | 97.4          | 111.7         | 126.7         |
| 1.00  | 26.1                      | 29.6        | 32.6        | 34.6        | 37.1        | 40.6        | 44.6          | 48.1          | 52.1          | 56.1          | 64.1          | 71.1          | 78.6          | 82.1          | 89.6          | 97.1          | 111.4         | 126.4         |
| 1.00  | 25.5                      | 29.0        | 32.0        | 34.0        | 36.5        | 40.0        | 44.0          | 47.5          | 51.5          | 55.5          | 63.5          | 70.5          | 78.0          | 81.5          | 89.0          | 96.5          | 110.7         | 125.7         |
| 1.00  | 24.9                      | 28.4        | 31.4        | 33.4        | 35.9        | 39.4        | 43.4          | 46.9          | 50.9          | 54.9          | 62.9          | 69.9          | 77.4          | 80.9          | 88.4          | 95.9          | 110.1         | 125.1         |
| 1.00  | 24.2                      | 27.7        | 30.7        | 32.7        | 35.2        | 38.7        | 42.7          | 46.2          | 50.2          | 54.2          | 62.2          | 69.2          | 76.7          | 80.2          | 87.7          | 95.2          | 109.5         | 124.5         |
| 1.00  | 23.3                      | 26.8        | 29.8        | 31.8        | 34.3        | 37.8        | 41.8          | 45.3          | 49.3          | 53.3          | 61.3          | 68.3          | 75.8          | 79.3          | 86.8          | 94.3          | 108.5         | 123.5         |
| 1.00  | 21.4                      | 24.9        | 27.9        | 29.9        | 32.4        | 35.9        | 39.9          | 43.4          | 47.4          | 51.4          | 59.4          | 66.4          | 73.9          | 77.4          | 84.9          | 92.4          | 106.6         | 121.6         |
| 1.00  | 20.1                      | 23.6        | 26.6        | 28.6        | 31.1        | 34.6        | 38.6          | 42.1          | 46.1          | 50.1          | 58.1          | 65.1          | 72.6          | 76.1          | 83.6          | 91.1          | 105.4         | 120.4         |
| 1.03  | 24.1                      | 27.6        | 30.6        | 32.6        | 35.1        | 38.6        | 42.6          | 46.1          | 50.1          | 54.1          | 62.1          | 69.1          | 76.6          | 80.1          | 87.6          | 95.1          | 109.3         | 124.3         |
| 1.03  | 25.3                      | 28.8        | 31.8        | 33.8        | 36.3        | 39.8        | 43.8          | 47.3          | 51.3          | 55.3          | 63.3          | 70.3          | 77.8          | 81.3          | 88.8          | 96.3          | 110.6         | 125.6         |
| 1.03  | 26.3                      | 29.8        | 32.8        | 34.8        | 37.3        | 40.8        | 44.8          | 48.3          | 52.3          | 56.3          | 64.3          | 71.3          | 78.8          | 82.3          | 89.8          | 97.3          | 111.5         | 126.5         |
| 1.04  | 26.6                      | 30.1        | 33.1        | 35.1        | 37.6        | 41.1        | 45.1          | 48.6          | 52.6          | 56.6          | 64.6          | 71.6          | 79.1          | 82.6          | 90.1          | 97.6          | 111.8         | 126.8         |
| 1.04  | 27.5                      | 31.0        | 34.0        | 36.0        | 38.5        | 42.0        | 46.0          | 49.5          | 53.5          | 57.5          | 65.5          | 72.5          | 80.0          | 83.5          | 91.0          | 98.5          | 112.8         | 127.8         |
| 1.04  | 28.1                      | 31.6        | 34.6        | 36.6        | 39.1        | 42.6        | 46.6          | 50.1          | 54.1          | 58.1          | 66.1          | 73.1          | 80.6          | 84.1          | 91.6          | 99.1          | 113.4         | 128.4         |
| 1.05  | 28.5                      | 32.0        | 35.0        | 37.0        | 39.5        | 43.0        | 47.0          | 50.5          | 54.5          | 58.5          | 66.5          | 73.5          | 81.0          | 84.5          | 92.0          | 99.5          | 113.7         | 128.7         |
| 1.05  | 29.1                      | 32.6        | 35.6        | 37.6        | 40.1        | 43.6        | 47.6          | 51.1          | 55.1          | 59.1          | 67.1          | 74.1          | 81.6          | 85.1          | 92.6          | 100.1         | 114.3         | 129.3         |
| 1.05  | 29.4                      | 32.9        | 35.9        | 37.9        | 40.4        | 43.9        | 47.9          | 51.4          | 55.4          | 59.4          | 67.4          | 74.4          | 81.9          | 85.4          | 92.9          | 100.4         | 114.7         | 129.7         |
| 1.06  | 24.5                      | 28.0        | 31.0        | 33.0        | 35.5        | 39.0        | 43.0          | 46.5          | 50.5          | 54.5          | 62.5          | 69.5          | 77.0          | 80.5          | 88.0          | 95.5          | 109.8         | 124.8         |
| 1.06  | 25.2                      | 28.7        | 31.7        | 33.7        | 36.2        | 39.7        | 43.7          | 47.2          | 51.2          | 55.2          | 63.2          | 70.2          | 77.7          | 81.2          | 88.7          | 96.2          | 110.4         | 125.4         |
| 1.07  | 25.8                      | 29.3        | 32.3        | 34.3        | 36.8        | 40.3        | 44.3          | 47.8          | 51.8          | 55.8          | 63.8          | 70.8          | 78.3          | 81.8          | 89.3          | 96.8          | 111.0         | 126.0         |
| 1.07  | 26.7                      | 30.2        | 33.2        | 35.2        | 37.7        | 41.2        | 45.2          | 48.7          | 52.7          | 56.7          | 64.7          | 71.7          | 79.2          | 82.7          | 90.2          | 97.7          | 112.0         | 127.0         |
| 1.08  | 22.8                      | 26.3        | 29.3        | 31.3        | 33.8        | 37.3        | 41.3          | 44.8          | 48.8          | 52.8          | 60.8          | 67.8          | 75.3          | 78.8          | 86.3          | 93.8          | 108.1         | 123.1         |
| 1.08  | 27.4                      | 30.9        | 33.9        | 35.9        | 38.4        | 41.9        | 45.9          | 49.4          | 53.4          | 57.4          | 65.4          | 72.4          | 79.9          | 83.4          | 90.9          | 98.4          | 112.6         | 127.6         |
| 1.09  | 20.8                      | 24.3        | 27.3        | 29.3        | 31.8        | 35.3        | 39.3          | 42.8          | 46.8          | 50.8          | 58.8          | 65.8          | 73.3          | 76.8          | 84.3          | 91.8          | 106.0         | 121.0         |
| 1.09  | 28.3                      | 31.8        | 34.8        | 36.8        | 39.3        | 42.8        | 46.8          | 50.3          | 54.3          | 58.3          | 66.3          | 73.3          | 80.8          | 84.3          | 91.8          | 99.3          | 113.6         | 128.6         |
| 1.09  | 25.0                      | 28.5        | 31.5        | 33.5        | 36.0        | 39.5        | 43.5          | 47.0          | 51.0          | 55.0          | 63.0          | 70.0          | 77.5          | 81.0          | 88.5          | 96.0          | 110.3         | 125.3         |
| 1.10  | 25.6                      | 29.1        | 32.1        | 34.1        | 36.6        | 40.1        | 44.1          | 47.6          | 51.6          | 55.6          | 63.6          | 70.6          | 78.1          | 81.6          | 89.1          | 96.6          | 110.9         | 125.9         |
| 1.10  | 28.9                      | 32.4        | 35.4        | 37.4        | 39.9        | 43.4        | 47.4          | 50.9          | 54.9          | 58.9          | 66.9          | 73.9          | 81.4          | 84.9          | 92.4          | 99.9          | 114.2         | 129.2         |
| 1.11  | 29.2                      | 32.7        | 35.7        | 37.7        | 40.2        | 43.7        | 47.7          | 51.2          | 55.2          | 59.2          | 67.2          | 74.2          | 81.7          | 85.2          | 92.7          | 100.2         | 114.5         | 129.5         |
|       | <b>0.93</b>               | <b>0.95</b> | <b>0.97</b> | <b>0.98</b> | <b>1.00</b> | <b>1.02</b> | <b>1.04</b>   | <b>1.05</b>   | <b>1.07</b>   | <b>1.09</b>   | <b>1.12</b>   | <b>1.14</b>   | <b>1.16</b>   | <b>1.17</b>   | <b>1.19</b>   | <b>1.21</b>   | <b>1.24</b>   | <b>1.27</b>   |
| 1.11  | 26.3                      | 29.8        | 32.8        | 34.8        | 37.3        | 40.8        | 44.8          | 48.3          | 52.3          | 56.3          | 64.3          | 71.3          | 78.8          | 82.3          | 89.8          | 97.3          | 111.5         | 126.5         |
| 1.12  | 27.2                      | 30.7        | 33.7        | 35.7        | 38.2        | 41.7        | 45.7          | 49.2          | 53.2          | 57.2          | 65.2          | 72.2          | 79.7          | 83.2          | 90.7          | 98.2          | 112.5         | 127.5         |
| 1.13  | 24.8                      | 28.3        | 31.3        | 33.3        | 35.8        | 39.3        | 43.3          | 46.8          | 50.8          | 54.8          | 62.8          | 69.8          | 77.3          | 80.8          | 88.3          | 95.8          | 110.1         | 125.1         |
| 1.13  | 27.8                      | 31.3        | 34.3        | 36.3        | 38.8        | 42.3        | 46.3          | 49.8          | 53.8          | 57.8          | 65.8          | 72.8          | 80.3          | 83.8          | 91.3          | 98.8          | 113.1         | 128.1         |
| 1.13  | 25.5                      | 29.0        | 32.0        | 34.0        | 36.5        | 40.0        | 44.0          | 47.5          | 51.5          | 55.5          | 63.5          | 70.5          | 78.0          | 81.5          | 89.0          | 96.5          | 110.7         | 125.7         |
| 1.14  | 25.8                      | 29.3        | 32.3        | 34.3        | 36.8        | 40.3        | 44.3          | 47.8          | 51.8          | 55.8          | 63.8          | 70.8          | 78.3          | 81.8          | 89.3          | 96.8          | 111.0         | 126.0         |
| 1.14  | 28.5                      | 32.0        | 35.0        | 37.0        | 39.5        | 43.0        | 47.0          | 50.5          | 54.5          | 58.5          | 66.5          | 73.5          | 81.0          | 84.5          | 92.0          | 99.5          | 113.7         | 128.7         |
| 1.15  | 26.4                      | 29.9        | 32.9        | 34.9        | 37.4        | 40.9        | 44.9          | 48.4          | 52.4          | 56.4          | 64.4          | 71.4          | 78.9          | 82.4          | 89.9          | 97.4          | 111.7         | 126.7         |
| 1.15  | 28.8                      | 32.3        | 35.3        | 37.3        | 39.8        | 43.3        | 47.3          | 50.8          | 54.8          | 58.8          | 66.8          | 73.8          | 81.3          | 84.8          | 92.3          | 99.8          | 114.0         | 129.0         |
| 1.15  | 22.3                      | 25.8        | 28.8        | 30.8        | 33.3        | 36.8        | 40.8          | 44.3          | 48.3          | 52.3          | 60.3          | 67.3          | 74.8          | 78.3          | 85.8          | 93.3          | 107.6         | 122.6         |
| 1.16  | 24.7                      | 28.2        | 31.2        | 33.2        | 35.7        | 39.2        | 43.2          | 46.7          | 50.7          | 54.7          | 62.7          | 69.7          | 77.2          | 80.7          | 88.2          | 95.7          | 109.9         | 124.9         |
| 1.16  | 29.1                      | 32.6        | 35.6        | 37.6        | 40.1        | 43.6        | 47.6          | 51.1          | 55.1          | 59.1          | 67.1          | 74.1          | 81.6          | 85.1          | 92.6          | 100.1         | 114.3         | 129.3         |
| 1.16  | 18.9                      | 22.4        | 25.4        | 27.4        | 29.9        | 33.4        | 37.4          | 40.9          | 44.9          | 48.9          | 56.9          | 63.9          | 71.4          | 74.9          | 82.4          | 89.9          | 104.1         | 119.1         |
| 1.17  | 23.3                      | 26.8        | 29.8        | 31.8        | 34.3        | 37.8        | 41.8          | 45.3          | 49.3          | 53.3          | 61.3          | 68.3          | 75.8          | 79.3          | 86.8          | 94.3          | 108.5         | 123.5         |
| 1.17  | 25.6                      | 29.1        | 32.1        | 34.1        | 36.6        | 40.1        | 44.1          | 47.6          | 51.6          | 55.6          | 63.6          | 70.6          | 78.1          | 81.6          | 89.1          | 96.6          | 110.9         | 125.9         |
| 1.18  | 25.9                      | 29.4        | 32.4        | 34.4        | 36.9        | 40.4        | 44.4          | 47.9          | 51.9          | 55.9          | 63.9          | 70.9          | 78.4          | 81.9          | 89.4          | 96.9          | 111.2         | 126.2         |
| 1.18  | 28.0                      | 31.5        | 34.5        | 36.5        | 39.0        | 42.5        | 46.5          | 50.0          | 54.0          | 58.0          | 66.0          | 73.0          | 80.5          | 84.0          | 91.5          | 99.0          | 113.2         | 128.2         |
| 1.19  | 26.3                      | 29.8        | 32.8        | 34.8        | 37.3        | 40.8        | 44.8          | 48.3          | 52.3          | 56.3          | 64.3          | 71.3          | 78.8          | 82.3          | 89.8          | 97.3          | 111.5         | 126.5         |
| 1.19  | 28.3                      | 31.8        | 34.8        | 36.8        | 39.3        | 42.8        | 46.8          | 50.3          | 54.3          | 58.3          | 66.3          | 73.3          | 80.8          | 84.3          | 91.8          | 99.3          | 113.6         | 128.6         |
| 1.20  | 25.2                      | 28.7        | 31.7        | 33.7        | 36.2        | 39.7        | 43.7          | 47.2          | 51.2          | 55.2          | 63.2          | 70.2          | 77.7          | 81.2          | 88.7          | 96.2          | 110.4         | 125.4         |
| 1.20  | 26.9                      | 30.4        | 33.4        | 35.4        | 37.9        | 41.4        | 45.4          | 48.9          | 52.9          | 56.9          | 64.9          | 71.9          | 79.4          | 82.9          | 90.4          | 97.9          | 112.1         | 127.1         |
| 1.20  | 28.6                      | 32.1        | 35.1        | 37.1        | 39.6        | 43.1        | 47.1          | 50.6          | 54.6          | 58.6          | 66.6          | 73.6          | 81.1          | 84.6          | 92.1          | 99.6          | 113.9         | 128.9         |
| 1.21  | 25.5                      | 29.0        | 32.0        | 34.0        | 36.5        | 40.0        | 44.0          | 47.5          | 51.5          | 55.5          | 63.5          | 70.5          | 78.0          | 81.5          | 89.0          | 96.5          | 110.7         | 125.7         |
| 1.21  | 28.9                      | 32.4        | 35.4        | 37.4        | 39.9        | 43.4        | 47.4          | 50.9          | 54.9          | 58.9          | 66.9          | 73.9          | 81.4          | 84.9          | 92.4          | 99.9          | 114.2         | 129.2         |
| 1.22  | 27.5                      | 31.0        | 34.0        | 36.0        | 38.5        | 42.0        | 46.0          | 49.5          | 53.5          | 57.5          | 65.5          | 72.5          | 80.0          | 83.5          | 91.0          | 98.5          | 112.8         | 127.8         |
|       | <b>0.92</b>               | <b>0.95</b> | <b>0.97</b> | <b>0.98</b> | <b>0.99</b> | <b>1.01</b> | <b>1.03</b>   | <b>1.05</b>   | <b>1.07</b>   | <b>1.08</b>   | <b>1.11</b>   | <b>1.14</b>   | <b>1.16</b>   | <b>1.17</b>   | <b>1.19</b>   | <b>1.21</b>   | <b>1.24</b>   | <b>1.27</b>   |

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

V-Drives  
 FHP Drives  
 Drive Component Accessories  
 DYNA-SYNC  
 HT200/HTD Synchronous Drives  
 HT500 Synchronous Drives  
 Roller Chain Sprockets

# SELECTION



## B S-L CLASSIC BX CLASSIC COG STOCK DRIVE SELECTIONS

| Ratio                          | Stock Shv.  |        | 3500 RPM Driver |       |             | 1750 RPM Driver |       |             | 1160 RPM Driver |       |             | Belt Size/Center Distance |      |      |      |      |      |      |      |  |  |
|--------------------------------|-------------|--------|-----------------|-------|-------------|-----------------|-------|-------------|-----------------|-------|-------------|---------------------------|------|------|------|------|------|------|------|--|--|
|                                | Datum Diam. |        | Driven          |       | HP Per Belt | Driven          |       | HP Per Belt | Driven          |       | HP Per Belt | B35                       | B38  | B42  | B46  | B51  | B55  | B60  | B64  |  |  |
|                                | Driver      | Driven | RPM             | B     | BX          | RPM             | B     | BX          | RPM             | B     | BX          | BX35                      | BX38 | BX42 | BX46 | BX51 | BX55 | BX60 | BX64 |  |  |
| 1.22                           | 6.00        | 7.40   | 2869            | 12.05 | 15.41       | 1434            | 9.41  | 11.03       | 951             | 7.04  | 8.18        | 7.8                       | 9.4  | 11.4 | 13.4 | 15.9 | 17.9 | 20.4 | 22.4 |  |  |
| 1.22                           | 5.00        | 6.20   | 2860            | 8.99  | 13.26       | 1430            | 6.86  | 9.03        | 948             | 5.16  | 6.67        | 9.6                       | 11.1 | 13.1 | 15.1 | 17.6 | 19.6 | 22.1 | 24.1 |  |  |
| 1.23                           | 4.00        | 5.00   | 2847            | 5.16  | 10.42       | 1424            | 4.18  | 6.89        | 944             | 3.23  | 5.09        | 11.3                      | 12.8 | 14.8 | 16.8 | 19.3 | 21.3 | 23.8 | 25.8 |  |  |
| 1.23                           | 5.60        | 7.00   | 2834            | 10.96 | 14.67       | 1417            | 8.43  | 10.27       | 939             | 6.31  | 7.59        | 8.5                       | 10.0 | 12.0 | 14.0 | 16.5 | 18.5 | 21.0 | 23.0 |  |  |
| 1.24                           | 6.40        | 8.00   | 2830            | 13.08 | 16.11       | 1415            | 10.41 | 11.81       | 938             | 7.78  | 8.78        | ---                       | 8.6  | 10.6 | 12.6 | 15.1 | 17.1 | 19.6 | 21.6 |  |  |
| 1.24                           | 3.80        | 4.80   | 2822            | 4.33  | 9.80        | 1411            | 3.64  | 6.46        | 935             | 2.84  | 4.77        | 11.6                      | 13.1 | 15.1 | 17.1 | 19.6 | 21.6 | 24.1 | 26.1 |  |  |
| 1.24                           | 4.60        | 5.80   | 2818            | 7.59  | 12.24       | 1409            | 5.83  | 8.21        | 934             | 4.41  | 6.06        | 10.2                      | 11.7 | 13.7 | 15.7 | 18.2 | 20.2 | 22.7 | 24.7 |  |  |
| 1.24                           | 5.40        | 6.80   | 2816            | 10.37 | 14.26       | 1408            | 7.93  | 9.87        | 933             | 5.94  | 7.30        | 8.8                       | 10.3 | 12.3 | 14.3 | 16.8 | 18.8 | 21.3 | 23.3 |  |  |
| 1.25                           | 6.80        | 8.60   | 2797            | 13.95 | 16.67       | 1398            | 11.38 | 12.57       | 927             | 8.52  | 9.37        | ---                       | 7.8  | 9.8  | 11.8 | 14.3 | 16.3 | 18.8 | 20.8 |  |  |
| 1.25                           | 5.20        | 6.60   | 2796            | 9.74  | 13.82       | 1398            | 7.42  | 9.48        | 927             | 5.57  | 7.00        | 9.1                       | 10.6 | 12.6 | 14.6 | 17.1 | 19.1 | 21.6 | 23.6 |  |  |
| 1.25                           | 3.60        | 4.60   | 2794            | 3.48  | 9.16        | 1397            | 3.09  | 6.02        | 926             | 2.45  | 4.46        | 12.0                      | 13.5 | 15.5 | 17.5 | 20.0 | 22.0 | 24.5 | 26.5 |  |  |
| 1.26                           | 7.40        | 9.40   | 2783            | ---   | ---         | 1391            | 12.78 | 13.65       | 922             | 9.59  | 10.22       | ---                       | ---  | 8.7  | 10.7 | 13.2 | 15.2 | 17.7 | 19.7 |  |  |
| 1.26                           | 5.00        | 6.40   | 2775            | 9.08  | 13.35       | 1388            | 6.91  | 9.08        | 920             | 5.19  | 6.70        | 9.4                       | 10.9 | 12.9 | 14.9 | 17.4 | 19.4 | 21.9 | 23.9 |  |  |
| 1.26                           | 4.20        | 5.40   | 2771            | 6.07  | 11.12       | 1385            | 4.77  | 7.38        | 918             | 3.65  | 5.44        | 10.8                      | 12.3 | 14.4 | 16.4 | 18.9 | 20.9 | 23.4 | 25.4 |  |  |
| 1.27                           | 8.60        | 11.00  | 2761            | ---   | ---         | 1380            | 15.39 | 15.63       | 915             | 11.66 | 11.86       | ---                       | ---  | ---  | ---  | 10.9 | 13.0 | 15.5 | 17.5 |  |  |
| 1.28                           | 4.60        | 6.00   | 2730            | 7.68  | 12.33       | 1365            | 5.87  | 8.26        | 905             | 4.44  | 6.09        | 10.1                      | 11.6 | 13.6 | 15.6 | 18.1 | 20.1 | 22.6 | 24.6 |  |  |
| 1.29                           | 5.20        | 6.80   | 2718            | 9.82  | 13.89       | 1359            | 7.46  | 9.52        | 901             | 5.59  | 7.03        | 8.9                       | 10.4 | 12.5 | 14.5 | 17.0 | 19.0 | 21.5 | 23.5 |  |  |
| 1.29                           | 3.80        | 5.00   | 2716            | 4.44  | 9.91        | 1358            | 3.69  | 6.52        | 900             | 2.88  | 4.81        | 11.5                      | 13.0 | 15.0 | 17.0 | 19.5 | 21.5 | 24.0 | 26.0 |  |  |
| 1.30                           | 5.60        | 7.40   | 2688            | 11.11 | 14.82       | 1344            | 8.50  | 10.34       | 891             | 6.35  | 7.64        | 8.1                       | 9.7  | 11.7 | 13.7 | 16.2 | 18.2 | 20.7 | 22.7 |  |  |
| 1.31                           | 4.20        | 5.60   | 2678            | 6.15  | 11.21       | 1339            | 4.81  | 7.42        | 888             | 3.68  | 5.47        | 10.7                      | 12.2 | 14.2 | 16.2 | 18.7 | 20.7 | 23.2 | 25.2 |  |  |
| 1.31                           | 9.40        | 12.40  | 2677            | ---   | ---         | 1339            | 17.02 | 16.86       | 887             | 13.01 | 12.93       | ---                       | ---  | ---  | ---  | 11.2 | 13.7 | 15.7 | 17.7 |  |  |
| 1.31                           | 6.00        | 8.00   | 2663            | 12.26 | 15.62       | 1331            | 9.52  | 11.14       | 882             | 7.11  | 8.25        | 7.3                       | 8.9  | 10.9 | 12.9 | 15.4 | 17.4 | 19.9 | 21.9 |  |  |
| 1.32                           | 3.40        | 4.60   | 2653            | 2.71  | 8.60        | 1327            | 2.59  | 5.64        | 879             | 2.10  | 4.17        | 12.1                      | 13.6 | 15.6 | 17.6 | 20.1 | 22.1 | 24.6 | 26.6 |  |  |
| 1.32                           | 4.60        | 6.20   | 2646            | 7.75  | 12.41       | 1323            | 5.91  | 8.30        | 877             | 4.47  | 6.11        | 9.9                       | 11.4 | 13.4 | 15.4 | 17.9 | 19.9 | 22.4 | 24.4 |  |  |
| 1.33                           | 6.40        | 8.60   | 2641            | 13.27 | 16.29       | 1320            | 10.50 | 11.91       | 875             | 7.84  | 8.84        | ---                       | 8.0  | 10.1 | 12.1 | 14.6 | 16.6 | 19.1 | 21.1 |  |  |
| 1.34                           | 5.00        | 6.80   | 2620            | 9.23  | 13.49       | 1310            | 6.98  | 9.15        | 868             | 5.24  | 6.75        | 9.1                       | 10.6 | 12.6 | 14.6 | 17.1 | 19.1 | 21.6 | 23.6 |  |  |
| 1.35                           | 5.40        | 7.40   | 2598            | 10.57 | 14.46       | 1299            | 8.03  | 9.98        | 861             | 6.01  | 7.37        | 8.3                       | 9.8  | 11.8 | 13.8 | 16.3 | 18.3 | 20.8 | 22.8 |  |  |
| 1.35                           | 4.20        | 5.80   | 2591            | 6.23  | 11.28       | 1295            | 4.85  | 7.46        | 859             | 3.70  | 5.49        | 10.5                      | 12.0 | 14.0 | 16.0 | 18.5 | 20.5 | 23.0 | 25.0 |  |  |
| 1.36                           | 4.60        | 6.40   | 2568            | 7.82  | 12.47       | 1284            | 5.94  | 8.33        | 851             | 4.49  | 6.14        | 9.7                       | 11.2 | 13.2 | 15.2 | 17.7 | 19.7 | 22.2 | 24.2 |  |  |
| 1.36                           | 6.80        | 9.40   | 2568            | 14.16 | 16.88       | 1284            | 11.49 | 12.68       | 851             | 8.59  | 9.44        | ---                       | ---  | 9.1  | 11.1 | 13.6 | 15.6 | 18.1 | 20.1 |  |  |
| 1.37                           | 3.40        | 4.80   | 2550            | 2.79  | 8.68        | 1275            | 2.63  | 5.68        | 845             | 2.12  | 4.20        | 11.9                      | 13.4 | 15.4 | 17.4 | 20.0 | 22.0 | 24.5 | 26.5 |  |  |
| 1.37                           | 5.00        | 7.00   | 2549            | 9.28  | 13.55       | 1274            | 7.01  | 9.18        | 845             | 5.26  | 6.76        | 8.9                       | 10.4 | 12.4 | 14.4 | 17.0 | 19.0 | 21.5 | 23.5 |  |  |
| 1.39                           | 4.20        | 6.00   | 2509            | 6.29  | 11.35       | 1255            | 4.88  | 7.49        | 832             | 3.72  | 5.51        | 10.4                      | 11.9 | 13.9 | 15.9 | 18.4 | 20.4 | 22.9 | 24.9 |  |  |
| 1.40                           | 5.60        | 8.00   | 2495            | 11.26 | 14.97       | 1248            | 8.58  | 10.42       | 827             | 6.41  | 7.69        | 7.6                       | 9.1  | 11.2 | 13.2 | 15.7 | 17.7 | 20.2 | 22.2 |  |  |
| 1.40                           | 4.60        | 6.60   | 2494            | 7.87  | 12.52       | 1247            | 5.97  | 8.36        | 827             | 4.51  | 6.15        | 9.6                       | 11.1 | 13.1 | 15.1 | 17.6 | 19.6 | 22.1 | 24.1 |  |  |
| ARC-LENGTH CORRECTION FACTOR → |             |        |                 |       |             |                 |       |             |                 |       |             | 0.75                      | 0.77 | 0.80 | 0.82 | 0.85 | 0.87 | 0.89 | 0.90 |  |  |
| 1.40                           | 3.60        | 5.20   | 2493            | 3.74  | 9.42        | 1246            | 3.22  | 6.16        | 826             | 2.54  | 4.54        | 11.5                      | 13.0 | 15.0 | 17.0 | 19.5 | 21.5 | 24.0 | 26.0 |  |  |
| 1.41                           | 6.00        | 8.60   | 2484            | 12.40 | 15.76       | 1242            | 9.59  | 11.21       | 823             | 7.15  | 8.29        | ---                       | 8.3  | 10.4 | 12.4 | 14.9 | 16.9 | 19.4 | 21.4 |  |  |
| 1.42                           | 8.60        | 12.40  | 2458            | ---   | ---         | 1229            | 15.51 | 15.75       | 815             | 11.75 | 11.94       | ---                       | ---  | ---  | ---  | ---  | 11.8 | 14.3 | 16.3 |  |  |
| 1.43                           | 3.40        | 5.00   | 2455            | 2.86  | 8.75        | 1228            | 2.67  | 5.71        | 814             | 2.15  | 4.22        | 11.8                      | 13.3 | 15.3 | 17.3 | 19.8 | 21.8 | 24.3 | 26.3 |  |  |
| 1.43                           | 9.40        | 13.60  | 2447            | ---   | ---         | 1223            | 17.11 | 16.95       | 811             | 13.07 | 12.98       | ---                       | ---  | ---  | ---  | ---  | ---  | 12.7 | 14.7 |  |  |
| 1.44                           | 6.40        | 9.40   | 2424            | 13.43 | 16.45       | 1212            | 10.58 | 11.99       | 803             | 7.90  | 8.90        | ---                       | ---  | 9.4  | 11.4 | 13.9 | 15.9 | 18.4 | 20.4 |  |  |
| 1.45                           | 5.40        | 8.00   | 2411            | 10.70 | 14.59       | 1206            | 8.10  | 10.04       | 799             | 6.05  | 7.41        | 7.8                       | 9.3  | 11.3 | 13.3 | 15.8 | 17.8 | 20.3 | 22.3 |  |  |
| 1.46                           | 4.00        | 6.00   | 2399            | 5.54  | 10.80       | 1200            | 4.37  | 7.08        | 795             | 3.35  | 5.22        | 10.5                      | 12.0 | 14.0 | 16.0 | 18.5 | 20.5 | 23.0 | 25.0 |  |  |
| 1.46                           | 7.40        | 11.00  | 2391            | ---   | ---         | 1195            | 12.94 | 13.80       | 792             | 9.69  | 10.33       | ---                       | ---  | ---  | 9.3  | 11.8 | 13.8 | 16.4 | 18.4 |  |  |
| 1.48                           | 3.40        | 5.20   | 2367            | 2.91  | 8.80        | 1183            | 2.70  | 5.74        | 784             | 2.16  | 4.24        | 11.6                      | 13.1 | 15.1 | 17.1 | 19.6 | 21.6 | 24.1 | 26.1 |  |  |
| 1.48                           | 4.20        | 6.40   | 2361            | 6.39  | 11.44       | 1180            | 4.93  | 7.54        | 782             | 3.75  | 5.55        | 10.0                      | 11.5 | 13.5 | 15.5 | 18.0 | 20.0 | 22.6 | 24.6 |  |  |
| 1.50                           | 5.60        | 8.60   | 2328            | 11.37 | 15.08       | 1164            | 8.63  | 10.47       | 772             | 6.44  | 7.73        | ---                       | 8.6  | 10.6 | 12.7 | 15.7 | 17.2 | 19.7 | 21.7 |  |  |
| 1.51                           | 3.60        | 5.60   | 2326            | 3.84  | 9.52        | 1163            | 3.27  | 6.21        | 771             | 2.57  | 4.58        | 11.1                      | 12.6 | 14.6 | 16.6 | 19.2 | 21.2 | 23.7 | 25.7 |  |  |
| 1.53                           | 4.20        | 6.60   | 2293            | 6.42  | 11.48       | 1147            | 4.95  | 7.55        | 760             | 3.77  | 5.56        | 9.8                       | 11.4 | 13.4 | 15.4 | 17.9 | 19.9 | 22.4 | 24.4 |  |  |
| 1.53                           | 6.00        | 9.40   | 2281            | 12.52 | 15.88       | 1140            | 9.65  | 11.27       | 756             | 7.19  | 8.33        | ---                       | ---  | 9.7  | 11.7 | 14.2 | 16.2 | 18.7 | 20.7 |  |  |
| 1.55                           | 4.00        | 6.40   | 2257            | 5.61  | 10.87       | 1129            | 4.41  | 7.12        | 748             | 3.38  | 5.24        | 10.2                      | 11.7 | 13.7 | 15.7 | 18.2 | 20.2 | 22.7 | 24.7 |  |  |
| 1.56                           | 3.60        | 5.80   | 2250            | 3.88  | 9.56        | 1125            | 3.29  | 6.23        | 746             | 2.59  | 4.59        | 11.0                      | 12.5 | 14.5 | 16.5 | 19.0 | 21.0 | 23.5 | 25.5 |  |  |
| 1.56                           | 8.60        | 13.60  | 2246            | ---   | ---         | 1123            | 15.57 | 15.81       | 745             | 11.79 | 11.98       | ---                       | ---  | ---  | ---  | ---  | ---  | 13.2 | 15.3 |  |  |
| 1.56                           | 4.60        | 7.40   | 2237            | 8.02  | 12.67       | 1119            | 6.05  | 8.43        | 741             | 4.55  | 6.20        | 8.9                       | 10.4 | 12.4 | 14.4 | 16.9 | 18.9 | 21.4 | 23.4 |  |  |
| 1.57                           | 4.20        | 6.80   | 2229            | 6.45  | 11.51       | 1115            | 4.96  | 7.57        | 739             | 3.78  | 5.57        | 9.7                       | 11.2 | 13.2 | 15.2 | 17.7 | 19.7 | 22.2 | 24.2 |  |  |
| 1.59                           | 3.40        | 5.60   | 2208            | 2.99  | 8.88        | 1104            | 2.74  | 5.78        | 732             | 2.19  | 4.27        | 11.3                      | 12.8 | 14.8 | 16.8 | 19.3 | 21.3 | 23.8 | 25.8 |  |  |
| 1.59                           | 6.80        | 11.00  | 2206            | 14.38 | 17.10       | 1103            | 11.60 | 12.79       | 731             | 8.66  | 9.51        | ---                       | ---  | ---  | 9.7  | 12.2 | 14.3 | 16.8 | 18.8 |  |  |
| 1.60                           | 4.00        | 6.60   | 2193            | 5.64  | 10.90       | 1096            | 4.42  | 7.14        | 727             | 3.39  | 5.25        | 10.0                      | 11.5 | 13.5 | 15.5 | 18.0 | 20.0 | 22.5 | 24.5 |  |  |
| 1.61                           | 3.60        | 6.00   | 2179            | 3.91  | 9.59        | 1090            | 3.31  | 6.24        | 722             | 2.60  | 4.60        | 10.8                      | 12.3 | 14.3 | 16.3 | 18.8 | 20.8 | 23.3 | 25.3 |  |  |
| 1.61                           | 5.20        | 8.60   | 2172            | 10.18 | 14.26       | 1086            | 7.64  | 9.70        | 720             | 5.71  | 7.15        | 7.4                       | 8.9  | 10.9 | 13.0 | 15.5 | 17.5 | 20.0 | 22.0 |  |  |
| ARC-LENGTH CORRECTION FACTOR → |             |        |                 |       |             |                 |       |             |                 |       |             | 0.74                      | 0.76 | 0.79 | 0.81 | 0.84 | 0.86 | 0.88 | 0.90 |  |  |

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).



# SELECTION



|   |             |    |             |                        |
|---|-------------|----|-------------|------------------------|
| B | S-L CLASSIC | BX | CLASSIC COG | STOCK DRIVE SELECTIONS |
|---|-------------|----|-------------|------------------------|

| Ratio | Belt Size/Center Distance |             |             |             |             |             |               |               |               |               |               |               |               |               |               |               |               |               |
|-------|---------------------------|-------------|-------------|-------------|-------------|-------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|       | B68<br>BX68               | B75<br>BX75 | B81<br>BX81 | B85<br>BX85 | B90<br>BX90 | B97<br>BX97 | B105<br>BX105 | B112<br>BX112 | B120<br>BX120 | B128<br>BX128 | B144<br>BX144 | B158<br>BX158 | B173<br>BX173 | B180<br>BX180 | B195<br>BX195 | B210<br>BX210 | B240<br>BX240 | B270<br>BX270 |
| 1.22  | 24.4                      | 27.9        | 30.9        | 32.9        | 35.4        | 38.9        | 42.9          | 46.4          | 50.4          | 54.4          | 62.4          | 69.4          | 76.9          | 80.4          | 87.9          | 95.4          | 109.6         | 124.6         |
| 1.22  | 26.1                      | 29.6        | 32.6        | 34.6        | 37.1        | 40.6        | 44.6          | 48.1          | 52.1          | 56.1          | 64.1          | 71.1          | 78.6          | 82.1          | 89.6          | 97.1          | 111.4         | 126.4         |
| 1.23  | 27.8                      | 31.3        | 34.3        | 36.3        | 38.8        | 42.3        | 46.3          | 49.8          | 53.8          | 57.8          | 65.8          | 72.8          | 80.3          | 83.8          | 91.3          | 98.8          | 113.1         | 128.1         |
| 1.23  | 25.0                      | 28.5        | 31.5        | 33.5        | 36.0        | 39.5        | 43.5          | 47.0          | 51.0          | 55.0          | 63.0          | 70.0          | 77.5          | 81.0          | 88.5          | 96.0          | 110.3         | 125.3         |
| 1.24  | 23.6                      | 27.1        | 30.1        | 32.1        | 34.6        | 38.1        | 42.1          | 45.6          | 49.6          | 53.6          | 61.6          | 68.6          | 76.1          | 79.6          | 87.1          | 94.6          | 108.8         | 123.8         |
| 1.24  | 28.1                      | 31.6        | 34.6        | 36.6        | 39.1        | 42.6        | 46.6          | 50.1          | 54.1          | 58.1          | 66.1          | 73.1          | 80.6          | 84.1          | 91.6          | 99.1          | 113.4         | 128.4         |
| 1.24  | 26.7                      | 30.2        | 33.2        | 35.2        | 37.7        | 41.2        | 45.2          | 48.7          | 52.7          | 56.7          | 64.7          | 71.7          | 79.2          | 82.7          | 90.2          | 97.7          | 112.0         | 127.0         |
| 1.24  | 25.3                      | 28.8        | 31.8        | 33.8        | 36.3        | 39.8        | 43.8          | 47.3          | 51.3          | 55.3          | 63.3          | 70.3          | 77.8          | 81.3          | 88.8          | 96.3          | 110.6         | 125.6         |
| 1.25  | 22.8                      | 26.3        | 29.3        | 31.3        | 33.8        | 37.3        | 41.3          | 44.8          | 48.8          | 52.8          | 60.8          | 67.8          | 75.3          | 78.8          | 86.3          | 93.8          | 108.1         | 123.1         |
| 1.25  | 25.6                      | 29.1        | 32.1        | 34.1        | 36.6        | 40.1        | 44.1          | 47.6          | 51.6          | 55.6          | 63.6          | 70.6          | 78.1          | 81.6          | 89.1          | 96.6          | 110.9         | 125.9         |
| 1.25  | 28.5                      | 32.0        | 35.0        | 37.0        | 39.5        | 43.0        | 47.0          | 50.5          | 54.5          | 58.5          | 66.5          | 73.5          | 81.0          | 84.5          | 92.0          | 99.5          | 113.7         | 128.7         |
| 1.26  | 21.7                      | 25.2        | 28.2        | 30.2        | 32.7        | 36.2        | 40.2          | 43.7          | 47.7          | 51.7          | 59.7          | 66.7          | 74.2          | 77.7          | 85.2          | 92.7          | 107.0         | 122.0         |
| 1.26  | 25.9                      | 29.4        | 32.4        | 34.4        | 36.9        | 40.4        | 44.4          | 47.9          | 51.9          | 55.9          | 63.9          | 70.9          | 78.4          | 81.9          | 89.4          | 96.9          | 111.2         | 126.2         |
| 1.26  | 27.4                      | 30.9        | 33.9        | 35.9        | 38.4        | 41.9        | 45.9          | 49.4          | 53.4          | 57.4          | 65.4          | 72.4          | 79.9          | 83.4          | 90.9          | 98.4          | 112.6         | 127.6         |
| 1.27  | 19.5                      | 23.0        | 26.0        | 28.0        | 30.5        | 34.0        | 38.0          | 41.5          | 45.5          | 49.5          | 57.5          | 64.5          | 72.0          | 75.5          | 83.0          | 90.5          | 104.8         | 119.8         |
| 1.28  | 26.6                      | 30.1        | 33.1        | 35.1        | 37.6        | 41.1        | 45.1          | 48.6          | 52.6          | 56.6          | 64.6          | 71.6          | 79.1          | 82.6          | 90.1          | 97.6          | 111.8         | 126.8         |
| 1.29  | 25.5                      | 29.0        | 32.0        | 34.0        | 36.5        | 40.0        | 44.0          | 47.5          | 51.5          | 55.5          | 63.5          | 70.5          | 78.0          | 81.5          | 89.0          | 96.5          | 110.7         | 125.7         |
| 1.29  | 28.0                      | 31.5        | 34.5        | 36.5        | 39.0        | 42.5        | 46.5          | 50.0          | 54.0          | 58.0          | 66.0          | 73.0          | 80.5          | 84.0          | 91.5          | 99.0          | 113.2         | 128.2         |
| 1.30  | 24.7                      | 28.2        | 31.2        | 33.2        | 35.7        | 39.2        | 43.2          | 46.7          | 50.7          | 54.7          | 62.7          | 69.7          | 77.2          | 80.7          | 88.2          | 95.7          | 109.9         | 124.9         |
| 1.31  | 27.2                      | 30.7        | 33.7        | 35.7        | 38.2        | 41.7        | 45.7          | 49.2          | 53.2          | 57.2          | 65.2          | 72.2          | 79.7          | 83.2          | 90.7          | 98.2          | 112.5         | 127.5         |
| 1.31  | 17.7                      | 21.2        | 24.2        | 26.2        | 28.7        | 32.3        | 36.3          | 39.8          | 43.8          | 47.8          | 55.8          | 62.8          | 70.3          | 73.8          | 81.3          | 88.8          | 103.0         | 118.0         |
| 1.31  | 23.9                      | 27.4        | 30.4        | 32.4        | 34.9        | 38.4        | 42.4          | 45.9          | 49.9          | 53.9          | 61.9          | 68.9          | 76.4          | 79.9          | 87.4          | 94.9          | 109.2         | 124.2         |
| 1.32  | 28.6                      | 32.1        | 35.1        | 37.1        | 39.6        | 43.1        | 47.1          | 50.6          | 54.6          | 58.6          | 66.6          | 73.6          | 81.1          | 84.6          | 92.1          | 99.6          | 113.9         | 128.9         |
| 1.32  | 26.4                      | 29.9        | 32.9        | 34.9        | 37.4        | 40.9        | 44.9          | 48.4          | 52.4          | 56.4          | 64.4          | 71.4          | 78.9          | 82.4          | 89.9          | 97.4          | 111.7         | 126.7         |
| 1.33  | 23.1                      | 26.6        | 29.6        | 31.6        | 34.1        | 37.6        | 41.6          | 45.1          | 49.1          | 53.1          | 61.1          | 68.1          | 75.6          | 79.1          | 86.6          | 94.1          | 108.4         | 123.4         |
| 1.34  | 25.6                      | 29.1        | 32.1        | 34.1        | 36.6        | 40.1        | 44.1          | 47.6          | 51.6          | 55.6          | 63.6          | 70.6          | 78.1          | 81.6          | 89.1          | 96.6          | 110.9         | 125.9         |
| 1.35  | 24.8                      | 28.3        | 31.3        | 33.3        | 35.8        | 39.3        | 43.3          | 46.8          | 50.8          | 54.8          | 62.8          | 69.8          | 77.3          | 80.8          | 88.3          | 95.8          | 110.1         | 125.1         |
| 1.35  | 27.0                      | 30.5        | 33.5        | 35.5        | 38.0        | 41.5        | 45.5          | 49.0          | 53.0          | 57.0          | 65.0          | 72.0          | 79.5          | 83.0          | 90.5          | 98.0          | 112.3         | 127.3         |
| 1.36  | 26.2                      | 29.8        | 32.8        | 34.8        | 37.3        | 40.8        | 44.8          | 48.3          | 52.3          | 56.3          | 64.3          | 71.3          | 78.8          | 82.3          | 89.8          | 97.3          | 111.5         | 126.5         |
| 1.36  | 22.1                      | 25.7        | 28.7        | 30.7        | 33.2        | 36.7        | 40.7          | 44.2          | 48.2          | 52.2          | 60.2          | 67.2          | 74.7          | 78.2          | 85.7          | 93.2          | 107.4         | 122.4         |
| 1.37  | 28.5                      | 32.0        | 35.0        | 37.0        | 39.5        | 43.0        | 47.0          | 50.5          | 54.5          | 58.5          | 66.5          | 73.5          | 81.0          | 84.5          | 92.0          | 99.5          | 113.7         | 128.7         |
| 1.37  | 25.5                      | 29.0        | 32.0        | 34.0        | 36.5        | 40.0        | 44.0          | 47.5          | 51.5          | 55.5          | 63.5          | 70.5          | 78.0          | 81.5          | 89.0          | 96.5          | 110.7         | 125.7         |
| 1.39  | 26.9                      | 30.4        | 33.4        | 35.4        | 37.9        | 41.4        | 45.4          | 48.9          | 52.9          | 56.9          | 64.9          | 71.9          | 79.4          | 82.9          | 90.4          | 97.9          | 112.1         | 127.1         |
| 1.40  | 24.2                      | 27.7        | 30.7        | 32.7        | 35.2        | 38.7        | 42.7          | 46.2          | 50.2          | 54.2          | 62.2          | 69.2          | 76.7          | 80.2          | 87.7          | 95.2          | 109.5         | 124.5         |
| 1.40  | 26.1                      | 29.6        | 32.6        | 34.6        | 37.1        | 40.6        | 44.6          | 48.1          | 52.1          | 56.1          | 64.1          | 71.1          | 78.6          | 82.1          | 89.6          | 97.1          | 111.4         | 126.4         |
|       | 0.92                      | 0.95        | 0.97        | 0.98        | 0.99        | 1.01        | 1.03          | 1.05          | 1.07          | 1.08          | 1.11          | 1.14          | 1.16          | 1.17          | 1.19          | 1.21          | 1.24          | 1.27          |
| 1.40  | 28.0                      | 31.5        | 34.5        | 36.5        | 39.0        | 42.5        | 46.5          | 50.0          | 54.0          | 58.0          | 66.0          | 73.0          | 80.5          | 84.0          | 91.5          | 99.0          | 113.2         | 128.2         |
| 1.41  | 23.4                      | 26.9        | 29.9        | 31.9        | 34.4        | 37.9        | 41.9          | 45.4          | 49.4          | 53.4          | 61.4          | 68.4          | 75.9          | 79.4          | 86.9          | 94.4          | 108.7         | 123.7         |
| 1.42  | 18.3                      | 21.8        | 24.8        | 26.8        | 29.4        | 32.9        | 36.9          | 40.4          | 44.4          | 48.4          | 56.4          | 63.4          | 70.9          | 74.4          | 81.9          | 89.4          | 103.6         | 118.6         |
| 1.43  | 28.3                      | 31.8        | 34.8        | 36.8        | 39.3        | 42.8        | 46.8          | 50.3          | 54.3          | 58.3          | 66.3          | 73.3          | 80.8          | 84.3          | 91.8          | 99.3          | 113.6         | 128.6         |
| 1.43  | 16.7                      | 20.2        | 23.3        | 25.3        | 27.8        | 31.3        | 35.3          | 38.8          | 42.8          | 46.8          | 54.8          | 61.8          | 69.3          | 72.8          | 80.3          | 87.8          | 102.1         | 117.1         |
| 1.44  | 22.4                      | 26.0        | 29.0        | 31.0        | 33.5        | 37.0        | 41.0          | 44.5          | 48.5          | 52.5          | 60.5          | 67.5          | 75.0          | 78.5          | 86.0          | 93.5          | 107.7         | 122.7         |
| 1.45  | 24.3                      | 27.9        | 30.9        | 32.9        | 35.4        | 38.9        | 42.9          | 46.4          | 50.4          | 54.4          | 62.4          | 69.4          | 76.9          | 80.4          | 87.9          | 95.4          | 109.6         | 124.6         |
| 1.46  | 27.0                      | 30.5        | 33.5        | 35.5        | 38.0        | 41.5        | 45.5          | 49.0          | 53.0          | 57.0          | 65.0          | 72.0          | 79.5          | 83.0          | 90.5          | 98.0          | 112.3         | 127.3         |
| 1.46  | 20.4                      | 23.9        | 26.9        | 28.9        | 31.4        | 34.9        | 38.9          | 42.4          | 46.4          | 50.4          | 58.4          | 65.4          | 72.9          | 76.4          | 83.9          | 91.4          | 105.7         | 120.7         |
| 1.48  | 28.1                      | 31.6        | 34.6        | 36.6        | 39.1        | 42.6        | 46.6          | 50.1          | 54.1          | 58.1          | 66.1          | 73.1          | 80.6          | 84.1          | 91.6          | 99.1          | 113.4         | 128.4         |
| 1.48  | 26.6                      | 30.1        | 33.1        | 35.1        | 37.6        | 41.1        | 45.1          | 48.6          | 52.6          | 56.6          | 64.6          | 71.6          | 79.1          | 82.6          | 90.1          | 97.6          | 111.8         | 126.8         |
| 1.50  | 23.7                      | 27.2        | 30.2        | 32.2        | 34.7        | 38.2        | 42.2          | 45.7          | 49.7          | 53.7          | 61.7          | 68.7          | 76.2          | 79.7          | 87.2          | 94.7          | 109.0         | 124.0         |
| 1.51  | 27.7                      | 31.2        | 34.2        | 36.2        | 38.7        | 42.2        | 46.2          | 49.7          | 53.7          | 57.7          | 65.7          | 72.7          | 80.2          | 83.7          | 91.2          | 98.7          | 112.9         | 127.9         |
| 1.53  | 26.4                      | 29.9        | 32.9        | 34.9        | 37.4        | 40.9        | 44.9          | 48.4          | 52.4          | 56.4          | 64.4          | 71.4          | 78.9          | 82.4          | 89.9          | 97.4          | 111.7         | 126.7         |
| 1.53  | 22.7                      | 26.3        | 29.3        | 31.3        | 33.8        | 37.3        | 41.3          | 44.8          | 48.8          | 52.8          | 60.8          | 67.8          | 75.3          | 78.8          | 86.3          | 93.8          | 108.0         | 123.0         |
| 1.55  | 26.7                      | 30.2        | 33.2        | 35.2        | 37.7        | 41.2        | 45.2          | 48.7          | 52.7          | 56.7          | 64.7          | 71.7          | 79.2          | 82.7          | 90.2          | 97.7          | 112.0         | 127.0         |
| 1.56  | 27.5                      | 31.0        | 34.0        | 36.0        | 38.5        | 42.0        | 46.0          | 49.5          | 53.5          | 57.5          | 65.5          | 72.5          | 80.0          | 83.5          | 91.0          | 98.5          | 112.8         | 127.8         |
| 1.56  | 17.3                      | 20.8        | 23.8        | 25.8        | 28.4        | 31.9        | 35.9          | 39.4          | 43.4          | 47.4          | 55.4          | 62.4          | 69.9          | 73.4          | 80.9          | 88.4          | 102.7         | 117.7         |
| 1.56  | 25.4                      | 28.9        | 31.9        | 34.0        | 36.5        | 40.0        | 44.0          | 47.5          | 51.5          | 55.5          | 63.5          | 70.5          | 78.0          | 81.5          | 89.0          | 96.5          | 110.7         | 125.7         |
| 1.57  | 26.2                      | 29.7        | 32.7        | 34.7        | 37.2        | 40.7        | 44.7          | 48.2          | 52.2          | 56.2          | 64.2          | 71.2          | 78.7          | 82.2          | 89.7          | 97.2          | 111.5         | 126.5         |
| 1.59  | 27.8                      | 31.3        | 34.3        | 36.3        | 38.8        | 42.3        | 46.3          | 49.8          | 53.8          | 57.8          | 65.8          | 72.8          | 80.3          | 83.8          | 91.3          | 98.8          | 113.1         | 128.1         |
| 1.59  | 20.8                      | 24.3        | 27.3        | 29.4        | 31.9        | 35.4        | 39.4          | 42.9          | 46.9          | 50.9          | 58.9          | 65.9          | 73.4          | 76.9          | 84.4          | 91.9          | 106.2         | 121.2         |
| 1.60  | 26.5                      | 30.1        | 33.1        | 35.1        | 37.6        | 41.1        | 45.1          | 48.6          | 52.6          | 56.6          | 64.6          | 71.6          | 79.1          | 82.6          | 90.1          | 97.6          | 111.8         | 126.8         |
| 1.61  | 27.3                      | 30.8        | 33.8        | 35.8        | 38.3        | 41.8        | 45.8          | 49.3          | 53.3          | 57.3          | 65.3          | 72.3          | 79.8          | 83.3          | 90.8          | 98.3          | 112.6         | 127.6         |
| 1.61  | 24.0                      | 27.5        | 30.5        | 32.5        | 35.0        | 38.5        | 42.5          | 46.0          | 50.0          | 54.0          | 62.0          | 69.0          | 76.5          | 80.0          | 87.5          | 95.0          | 109.3         | 124.3         |
|       | 0.92                      | 0.94        | 0.96        | 0.98        | 0.99        | 1.01        | 1.03          | 1.05          | 1.06          | 1.08          | 1.11          | 1.13          | 1.16          | 1.17          | 1.19          | 1.21          | 1.24          | 1.27          |

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets

# SELECTION



## B S-L CLASSIC BX CLASSIC COG STOCK DRIVE SELECTIONS

| Ratio                          | Stock Shv. |        | 3500 RPM Driver |             |       | 3500 RPM Driver |             |       | 3500 RPM Driver |             |       | Belt Size/Center Distance |      |      |      |      |      |      |      |
|--------------------------------|------------|--------|-----------------|-------------|-------|-----------------|-------------|-------|-----------------|-------------|-------|---------------------------|------|------|------|------|------|------|------|
|                                | Datum      | Diam.  | Driven          | HP Per Belt |       | Driven          | HP Per Belt |       | Driven          | HP Per Belt |       | B35                       | B38  | B42  | B46  | B51  | B55  | B60  | B64  |
|                                | Driver     | Driven | RPM             | B           | BX    | RPM             | B           | BX    | RPM             | B           | BX    | BX35                      | BX38 | BX42 | BX46 | BX51 | BX55 | BX60 | BX64 |
| 1.61                           | 9.40       | 15.40  | 2168            | ---         | ---   | 1084            | 17.18       | 17.02 | 718             | 13.12       | 13.03 | ---                       | ---  | ---  | ---  | ---  | ---  | ---  | 13.1 |
| 1.64                           | 5.60       | 9.40   | 2137            | 11.46       | 15.17 | 1069            | 8.68        | 10.51 | 708             | 6.47        | 7.76  | ---                       | 7.9  | 9.9  | 12.0 | 14.5 | 16.5 | 19.0 | 21.0 |
| 1.64                           | 3.40       | 5.80   | 2136            | 3.02        | 8.91  | 1068            | 2.75        | 5.79  | 708             | 2.20        | 4.28  | 11.1                      | 12.6 | 14.6 | 16.6 | 19.1 | 21.1 | 23.6 | 25.6 |
| 1.64                           | 7.40       | 12.40  | 2129            | ---         | ---   | 1064            | 13.00       | 13.87 | 705             | 9.74        | 10.37 | ---                       | ---  | ---  | ---  | 10.6 | 12.6 | 15.2 | 17.2 |
| 1.67                           | 5.00       | 8.60   | 2094            | 9.53        | 13.80 | 1047            | 7.14        | 9.30  | 694             | 5.34        | 6.85  | 7.5                       | 9.0  | 11.1 | 13.1 | 15.6 | 17.6 | 20.1 | 22.2 |
| 1.67                           | 3.80       | 6.60   | 2092            | 4.83        | 10.30 | 1046            | 3.89        | 6.71  | 693             | 3.01        | 4.94  | 10.1                      | 11.7 | 13.7 | 15.7 | 18.2 | 20.2 | 22.7 | 24.7 |
| 1.68                           | 9.40       | 16.00  | 2088            | ---         | ---   | 1044            | 17.20       | 17.04 | 692             | 13.13       | 13.04 | ---                       | ---  | ---  | ---  | ---  | ---  | ---  | ---  |
| 1.68                           | 6.40       | 11.00  | 2083            | 13.59       | 16.62 | 1041            | 10.67       | 12.07 | 690             | 7.95        | 8.95  | ---                       | ---  | ---  | 10.0 | 12.5 | 14.6 | 17.1 | 19.1 |
| 1.69                           | 4.60       | 8.00   | 2077            | 8.09        | 12.74 | 1038            | 6.08        | 8.46  | 688             | 4.58        | 6.23  | 8.3                       | 9.9  | 11.9 | 13.9 | 16.4 | 18.4 | 20.9 | 22.9 |
| 1.69                           | 3.40       | 6.00   | 2069            | 3.05        | 8.94  | 1035            | 2.76        | 5.81  | 686             | 2.21        | 4.28  | 10.9                      | 12.5 | 14.5 | 16.5 | 19.0 | 21.0 | 23.5 | 25.5 |
| 1.69                           | 5.40       | 9.40   | 2066            | 10.87       | 14.76 | 1033            | 8.18        | 10.13 | 685             | 6.10        | 7.46  | ---                       | 8.0  | 10.1 | 12.1 | 14.6 | 16.7 | 19.2 | 21.2 |
| 1.70                           | 4.20       | 7.40   | 2057            | 6.53        | 11.58 | 1028            | 5.00        | 7.60  | 682             | 3.80        | 5.59  | 9.2                       | 10.7 | 12.7 | 14.7 | 17.2 | 19.2 | 21.7 | 23.7 |
| 1.72                           | 3.80       | 6.80   | 2034            | 4.85        | 10.32 | 1017            | 3.90        | 6.72  | 674             | 3.01        | 4.95  | 10.0                      | 11.5 | 13.5 | 15.5 | 18.0 | 20.0 | 22.5 | 24.5 |
| 1.74                           | 3.40       | 6.20   | 2006            | 3.07        | 8.96  | 1003            | 2.78        | 5.82  | 665             | 2.22        | 4.29  | 10.8                      | 12.3 | 14.3 | 16.3 | 18.8 | 20.8 | 23.3 | 25.3 |
| 1.76                           | 5.20       | 9.40   | 1994            | 10.25       | 14.32 | 997             | 7.68        | 9.73  | 661             | 5.73        | 7.17  | ---                       | 8.2  | 10.2 | 12.3 | 14.8 | 16.8 | 19.3 | 21.3 |
| 1.76                           | 8.60       | 15.40  | 1990            | ---         | ---   | 995             | 15.62       | 15.86 | 659             | 11.82       | 12.02 | ---                       | ---  | ---  | ---  | ---  | ---  | ---  | 13.6 |
| 1.77                           | 3.80       | 7.00   | 1978            | 4.87        | 10.34 | 989             | 3.91        | 6.73  | 656             | 3.02        | 4.95  | 9.8                       | 11.3 | 13.3 | 15.3 | 17.9 | 19.9 | 22.4 | 24.4 |
| 1.78                           | 4.00       | 7.40   | 1966            | 5.73        | 10.99 | 983             | 4.47        | 7.18  | 652             | 3.42        | 5.28  | 9.3                       | 10.8 | 12.8 | 14.9 | 17.4 | 19.4 | 21.9 | 23.9 |
| 1.78                           | 6.80       | 12.40  | 1964            | 14.47       | 17.19 | 982             | 11.64       | 12.83 | 651             | 8.69        | 9.54  | ---                       | ---  | ---  | ---  | 11.0 | 13.0 | 15.6 | 17.6 |
| 1.79                           | 6.00       | 11.00  | 1960            | 12.65       | 16.01 | 980             | 9.71        | 11.33 | 649             | 7.23        | 8.38  | ---                       | ---  | ---  | 10.3 | 12.8 | 14.8 | 17.4 | 19.4 |
| 1.80                           | 3.40       | 6.40   | 1947            | 3.09        | 8.98  | 973             | 2.79        | 5.83  | 645             | 2.22        | 4.30  | 10.6                      | 12.1 | 14.1 | 16.1 | 18.6 | 20.7 | 23.2 | 25.2 |
| 1.80                           | 7.40       | 13.60  | 1946            | ---         | ---   | 973             | 13.03       | 13.90 | 645             | 9.76        | 10.39 | ---                       | ---  | ---  | ---  | ---  | 11.5 | 14.1 | 16.1 |
| 1.81                           | 4.60       | 8.60   | 1937            | 8.13        | 12.79 | 969             | 6.10        | 8.49  | 642             | 4.59        | 6.24  | 7.8                       | 9.3  | 11.4 | 13.4 | 15.9 | 17.9 | 20.4 | 22.4 |
| 1.83                           | 8.60       | 16.00  | 1917            | ---         | ---   | 958             | 15.63       | 15.87 | 635             | 11.83       | 12.03 | ---                       | ---  | ---  | ---  | ---  | ---  | ---  | 13.1 |
| 1.83                           | 4.20       | 8.00   | 1909            | 6.57        | 11.63 | 955             | 5.02        | 7.63  | 633             | 3.82        | 5.61  | 8.6                       | 10.1 | 12.2 | 14.2 | 16.7 | 18.7 | 21.2 | 23.2 |
| ARC-LENGTH CORRECTION FACTOR → |            |        |                 |             |       |                 |             |       |                 |             |       | 0.74                      | 0.76 | 0.79 | 0.81 | 0.84 | 0.86 | 0.88 | 0.90 |
| 1.85                           | 3.40       | 6.60   | 1891            | 3.11        | 9.00  | 945             | 2.79        | 5.84  | 627             | 2.23        | 4.30  | 10.4                      | 11.9 | 14.0 | 16.0 | 18.5 | 20.5 | 23.0 | 25.0 |
| 1.87                           | 3.80       | 7.40   | 1876            | 4.90        | 10.37 | 938             | 3.92        | 6.75  | 622             | 3.03        | 4.96  | 9.4                       | 11.0 | 13.0 | 15.0 | 17.5 | 19.5 | 22.0 | 24.0 |
| 1.89                           | 6.40       | 12.40  | 1854            | 13.67       | 16.69 | 927             | 10.70       | 12.11 | 615             | 7.98        | 8.98  | ---                       | ---  | ---  | ---  | 11.2 | 13.3 | 15.9 | 17.9 |
| 1.90                           | 3.40       | 6.80   | 1838            | 3.12        | 9.01  | 919             | 2.80        | 5.84  | 609             | 2.23        | 4.31  | 10.3                      | 11.8 | 13.8 | 15.8 | 18.3 | 20.3 | 22.8 | 24.8 |
| 1.91                           | 5.60       | 11.00  | 1836            | 11.56       | 15.26 | 918             | 8.72        | 10.56 | 609             | 6.50        | 7.79  | ---                       | ---  | 8.4  | 10.5 | 13.1 | 15.1 | 17.7 | 19.7 |
| 1.92                           | 4.00       | 8.00   | 1825            | 5.77        | 11.03 | 913             | 4.48        | 7.20  | 605             | 3.43        | 5.29  | 8.8                       | 10.3 | 12.3 | 14.3 | 16.9 | 18.9 | 21.4 | 23.4 |
| 1.92                           | 9.40       | 18.40  | 1821            | ---         | ---   | 910             | 17.24       | 17.08 | 603             | 13.16       | 13.07 | ---                       | ---  | ---  | ---  | ---  | ---  | ---  | ---  |
| 1.95                           | 6.80       | 13.60  | 1795            | 14.52       | 17.23 | 898             | 11.67       | 12.85 | 595             | 8.71        | 9.56  | ---                       | ---  | ---  | ---  | ---  | 11.9 | 14.5 | 16.5 |
| 1.96                           | 3.40       | 7.00   | 1788            | 3.13        | 9.02  | 894             | 2.81        | 5.85  | 593             | 2.24        | 4.31  | 10.1                      | 11.6 | 13.6 | 15.6 | 18.1 | 20.2 | 22.7 | 24.7 |
| 1.96                           | 4.20       | 8.60   | 1781            | 6.61        | 11.66 | 891             | 5.04        | 7.64  | 590             | 3.83        | 5.62  | 8.1                       | 9.6  | 11.6 | 13.7 | 16.2 | 18.2 | 20.7 | 22.7 |
| 1.97                           | 4.60       | 9.40   | 1779            | 8.18        | 12.83 | 889             | 6.12        | 8.51  | 590             | 4.61        | 6.25  | ---                       | 8.6  | 10.6 | 12.7 | 15.2 | 17.2 | 19.8 | 21.8 |
| 1.97                           | 5.40       | 11.00  | 1775            | 10.96       | 14.85 | 887             | 8.22        | 10.17 | 588             | 6.13        | 7.49  | ---                       | ---  | 8.6  | 10.7 | 13.2 | 15.3 | 17.8 | 19.8 |
| 2.01                           | 6.00       | 12.40  | 1745            | 12.71       | 16.06 | 872             | 9.74        | 11.36 | 578             | 7.25        | 8.40  | ---                       | ---  | ---  | ---  | 11.5 | 13.6 | 16.1 | 18.2 |
| 2.01                           | 3.80       | 8.00   | 1742            | 4.93        | 10.40 | 871             | 3.94        | 6.76  | 577             | 3.04        | 4.97  | 8.9                       | 10.4 | 12.5 | 14.5 | 17.0 | 19.0 | 21.5 | 23.5 |
| 2.03                           | 7.40       | 15.40  | 1723            | ---         | ---   | 862             | 13.06       | 13.93 | 571             | 9.78        | 10.41 | ---                       | ---  | ---  | ---  | ---  | ---  | 12.4 | 14.4 |
| 2.04                           | 5.20       | 11.00  | 1713            | 10.32       | 14.40 | 857             | 7.71        | 9.77  | 568             | 5.76        | 7.19  | ---                       | ---  | 8.7  | 10.8 | 13.4 | 15.4 | 17.9 | 20.0 |
| 2.06                           | 4.00       | 8.60   | 1703            | 5.79        | 11.06 | 852             | 4.50        | 7.21  | 564             | 3.44        | 5.30  | 8.2                       | 9.7  | 11.8 | 13.8 | 16.3 | 18.4 | 20.9 | 22.9 |
| 2.07                           | 6.40       | 13.60  | 1695            | 13.70       | 16.73 | 847             | 10.72       | 12.13 | 562             | 7.99        | 8.99  | ---                       | ---  | ---  | ---  | 10.1 | 12.2 | 14.8 | 16.8 |
| 2.09                           | 8.60       | 18.40  | 1672            | ---         | ---   | 836             | 15.66       | 15.90 | 554             | 11.85       | 12.04 | ---                       | ---  | ---  | ---  | ---  | ---  | ---  | ---  |
| 2.11                           | 7.40       | 16.00  | 1660            | ---         | ---   | 830             | 13.07       | 13.93 | 550             | 9.78        | 10.42 | ---                       | ---  | ---  | ---  | ---  | ---  | 11.7 | 13.9 |
| ARC-LENGTH CORRECTION FACTOR → |            |        |                 |             |       |                 |             |       |                 |             |       | 0.72                      | 0.75 | 0.77 | 0.80 | 0.83 | 0.85 | 0.88 | 0.89 |
| 2.11                           | 3.60       | 8.00   | 1658            | 4.07        | 9.75  | 829             | 3.39        | 6.32  | 549             | 2.65        | 4.65  | 9.0                       | 10.6 | 12.6 | 14.6 | 17.2 | 19.2 | 21.7 | 23.7 |
| 2.12                           | 5.00       | 11.00  | 1651            | 9.65        | 13.92 | 826             | 7.20        | 9.36  | 547             | 5.38        | 6.89  | ---                       | ---  | 8.8  | 10.9 | 13.5 | 15.6 | 18.1 | 20.1 |
| 2.14                           | 4.20       | 9.40   | 1635            | 6.64        | 11.69 | 818             | 5.05        | 7.66  | 542             | 3.84        | 5.63  | 7.3                       | 8.8  | 10.9 | 13.0 | 15.5 | 17.5 | 20.1 | 22.1 |
| 2.14                           | 5.60       | 12.40  | 1635            | 11.60       | 15.31 | 817             | 8.75        | 10.58 | 542             | 6.52        | 7.81  | ---                       | ---  | 9.1  | 11.8 | 13.9 | 16.4 | 18.5 | 20.5 |
| 2.19                           | 6.00       | 13.60  | 1595            | 12.73       | 16.09 | 797             | 9.75        | 11.37 | 528             | 7.26        | 8.41  | ---                       | ---  | ---  | ---  | 10.3 | 12.4 | 15.0 | 17.1 |
| 2.20                           | 6.80       | 15.40  | 1590            | 14.56       | 17.28 | 795             | 11.69       | 12.87 | 527             | 8.72        | 9.57  | ---                       | ---  | ---  | ---  | ---  | ---  | 12.7 | 14.9 |
| 2.22                           | 5.40       | 12.40  | 1580            | 10.99       | 14.88 | 790             | 8.24        | 10.19 | 524             | 6.14        | 7.51  | ---                       | ---  | ---  | 9.3  | 11.9 | 14.0 | 16.6 | 18.6 |
| 2.22                           | 3.40       | 8.00   | 1574            | 3.17        | 9.06  | 787             | 2.83        | 5.87  | 522             | 2.25        | 4.33  | 9.2                       | 10.7 | 12.7 | 14.8 | 17.3 | 19.3 | 21.8 | 23.8 |
| 2.24                           | 4.00       | 9.40   | 1564            | 5.82        | 11.08 | 782             | 4.51        | 7.23  | 518             | 3.45        | 5.31  | 7.4                       | 9.0  | 11.1 | 13.1 | 15.6 | 17.7 | 20.2 | 22.2 |
| 2.27                           | 8.60       | 20.00  | 1540            | ---         | ---   | 770             | 15.67       | 15.92 | 510             | 11.85       | 12.05 | ---                       | ---  | ---  | ---  | ---  | ---  | ---  | ---  |
| 2.28                           | 6.80       | 16.00  | 1532            | 14.57       | 17.28 | 766             | 11.69       | 12.88 | 508             | 8.72        | 9.57  | ---                       | ---  | ---  | ---  | ---  | ---  | 12.1 | 14.3 |
| 2.29                           | 4.60       | 11.00  | 1528            | 8.22        | 12.88 | 764             | 6.15        | 8.53  | 506             | 4.62        | 6.27  | ---                       | ---  | 9.1  | 11.2 | 13.8 | 15.8 | 18.4 | 20.4 |
| 2.29                           | 5.20       | 12.40  | 1525            | 10.35       | 14.43 | 763             | 7.73        | 9.79  | 505             | 5.77        | 7.20  | ---                       | ---  | ---  | 9.4  | 12.0 | 14.1 | 16.7 | 18.7 |
| 2.33                           | 6.40       | 15.40  | 1501            | 13.74       | 16.76 | 751             | 10.74       | 12.14 | 498             | 8.00        | 9.00  | ---                       | ---  | ---  | ---  | ---  | ---  | 13.0 | 15.1 |
| 2.34                           | 5.60       | 13.60  | 1494            | 11.62       | 15.33 | 747             | 8.76        | 10.60 | 495             | 6.52        | 7.81  | ---                       | ---  | ---  | ---  | 10.6 | 12.7 | 15.3 | 17.4 |
| ARC-LENGTH CORRECTION FACTOR → |            |        |                 |             |       |                 |             |       |                 |             |       | 0.71                      | 0.73 | 0.75 | 0.76 | 0.80 | 0.82 | 0.85 | 0.87 |

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

# SELECTION



|   |             |    |             |                        |
|---|-------------|----|-------------|------------------------|
| B | S-L CLASSIC | BX | CLASSIC COG | STOCK DRIVE SELECTIONS |
|---|-------------|----|-------------|------------------------|

| Ratio | Belt Size/Center Distance |             |             |             |             |             |               |               |               |               |               |               |               |               |               |               |               |               |
|-------|---------------------------|-------------|-------------|-------------|-------------|-------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|       | B68<br>BX68               | B75<br>BX75 | B81<br>BX81 | B85<br>BX85 | B90<br>BX90 | B97<br>BX97 | B105<br>BX105 | B112<br>BX112 | B120<br>BX120 | B128<br>BX128 | B144<br>BX144 | B158<br>BX158 | B173<br>BX173 | B180<br>BX180 | B195<br>BX195 | B210<br>BX210 | B240<br>BX240 | B270<br>BX270 |
| 1.61  | 15.1                      | 18.7        | 21.7        | 23.7        | 26.3        | 29.8        | 33.8          | 37.3          | 41.3          | 45.3          | 53.3          | 60.4          | 67.9          | 71.4          | 78.9          | 86.4          | 100.6         | 115.6         |
| 1.64  | 23.0                      | 26.6        | 29.6        | 31.6        | 34.1        | 37.6        | 41.6          | 45.1          | 49.1          | 53.1          | 61.1          | 68.1          | 75.6          | 79.1          | 86.6          | 94.1          | 108.4         | 123.4         |
| 1.64  | 27.7                      | 31.2        | 34.2        | 36.2        | 38.7        | 42.2        | 46.2          | 49.7          | 53.7          | 57.7          | 65.7          | 72.7          | 80.2          | 83.7          | 91.2          | 98.7          | 112.9         | 127.9         |
| 1.64  | 19.2                      | 22.7        | 25.7        | 27.7        | 30.3        | 33.8        | 37.8          | 41.3          | 45.3          | 49.3          | 57.3          | 64.3          | 71.8          | 75.3          | 82.8          | 90.3          | 104.6         | 119.6         |
| 1.67  | 24.2                      | 27.7        | 30.7        | 32.7        | 35.2        | 38.7        | 42.7          | 46.2          | 50.2          | 54.2          | 62.2          | 69.2          | 76.7          | 80.2          | 87.7          | 95.2          | 109.5         | 124.5         |
| 1.67  | 26.7                      | 30.2        | 33.2        | 35.2        | 37.7        | 41.2        | 45.2          | 48.7          | 52.7          | 56.7          | 64.7          | 71.7          | 79.2          | 82.7          | 90.2          | 97.7          | 112.0         | 127.0         |
| 1.68  | 14.6                      | 18.2        | 21.2        | 23.2        | 25.7        | 29.3        | 33.3          | 36.8          | 40.8          | 44.8          | 52.9          | 59.9          | 67.4          | 70.9          | 78.4          | 85.9          | 100.2         | 115.2         |
| 1.68  | 21.1                      | 24.6        | 27.6        | 29.7        | 32.2        | 35.7        | 39.7          | 43.2          | 47.2          | 51.2          | 59.2          | 66.2          | 73.7          | 77.2          | 84.7          | 92.2          | 106.5         | 121.5         |
| 1.69  | 25.0                      | 28.5        | 31.5        | 33.5        | 36.0        | 39.5        | 43.5          | 47.0          | 51.0          | 55.0          | 63.0          | 70.0          | 77.5          | 81.0          | 88.5          | 96.0          | 110.2         | 125.2         |
| 1.69  | 27.5                      | 31.0        | 34.0        | 36.0        | 38.5        | 42.0        | 46.0          | 49.5          | 53.5          | 57.5          | 65.5          | 72.5          | 80.0          | 83.5          | 91.0          | 98.5          | 112.8         | 127.8         |
| 1.69  | 23.2                      | 26.7        | 29.7        | 31.7        | 34.2        | 37.7        | 41.7          | 45.2          | 49.2          | 53.2          | 61.2          | 68.3          | 75.8          | 79.3          | 86.8          | 94.3          | 108.5         | 123.5         |
| 1.70  | 25.7                      | 29.3        | 32.3        | 34.3        | 36.8        | 40.3        | 44.3          | 47.8          | 51.8          | 55.8          | 63.8          | 70.8          | 78.3          | 81.8          | 89.3          | 96.8          | 111.0         | 126.0         |
| 1.72  | 26.5                      | 30.0        | 33.0        | 35.0        | 37.5        | 41.1        | 45.1          | 48.6          | 52.6          | 56.6          | 64.6          | 71.6          | 79.1          | 82.6          | 90.1          | 97.6          | 111.8         | 126.8         |
| 1.74  | 27.3                      | 30.8        | 33.8        | 35.8        | 38.3        | 41.8        | 45.8          | 49.3          | 53.3          | 57.3          | 65.3          | 72.4          | 79.9          | 83.4          | 90.9          | 98.4          | 112.6         | 127.6         |
| 1.76  | 23.3                      | 26.9        | 29.9        | 31.9        | 34.4        | 37.9        | 41.9          | 45.4          | 49.4          | 53.4          | 61.4          | 68.4          | 75.9          | 79.4          | 86.9          | 94.4          | 108.7         | 123.7         |
| 1.76  | 15.7                      | 19.3        | 22.3        | 24.3        | 26.8        | 30.4        | 34.4          | 37.9          | 41.9          | 45.9          | 54.0          | 61.0          | 68.5          | 72.0          | 79.5          | 87.0          | 101.3         | 116.3         |
| 1.77  | 26.4                      | 29.9        | 32.9        | 34.9        | 37.4        | 40.9        | 44.9          | 48.4          | 52.4          | 56.4          | 64.4          | 71.4          | 78.9          | 82.4          | 89.9          | 97.4          | 111.7         | 126.7         |
| 1.78  | 25.9                      | 29.4        | 32.4        | 34.4        | 36.9        | 40.4        | 44.4          | 47.9          | 51.9          | 55.9          | 63.9          | 70.9          | 78.4          | 81.9          | 89.4          | 96.9          | 111.2         | 126.2         |
| 1.78  | 19.6                      | 23.2        | 26.2        | 28.2        | 30.7        | 34.2        | 38.2          | 41.7          | 45.7          | 49.7          | 57.8          | 64.8          | 72.3          | 75.8          | 83.3          | 90.8          | 105.0         | 120.0         |
| 1.79  | 21.4                      | 24.9        | 27.9        | 30.0        | 32.5        | 36.0        | 40.0          | 43.5          | 47.5          | 51.5          | 59.5          | 66.5          | 74.0          | 77.5          | 85.0          | 92.5          | 106.8         | 121.8         |
| 1.80  | 27.2                      | 30.7        | 33.7        | 35.7        | 38.2        | 41.7        | 45.7          | 49.2          | 53.2          | 57.2          | 65.2          | 72.2          | 79.7          | 83.2          | 90.7          | 98.2          | 112.4         | 127.4         |
| 1.80  | 18.2                      | 21.7        | 24.7        | 26.7        | 29.3        | 32.8        | 36.8          | 40.3          | 44.3          | 48.3          | 56.3          | 63.3          | 70.8          | 74.4          | 81.9          | 89.4          | 103.6         | 118.6         |
| 1.81  | 24.5                      | 28.0        | 31.0        | 33.0        | 35.5        | 39.0        | 43.0          | 46.5          | 50.5          | 54.5          | 62.5          | 69.5          | 77.0          | 80.5          | 88.0          | 95.5          | 109.8         | 124.8         |
| 1.83  | 15.1                      | 18.7        | 21.8        | 23.8        | 26.3        | 29.9        | 33.9          | 37.4          | 41.4          | 45.4          | 53.5          | 60.5          | 68.0          | 71.5          | 79.0          | 86.5          | 100.8         | 115.8         |
| 1.83  | 25.3                      | 28.8        | 31.8        | 33.8        | 36.3        | 39.8        | 43.8          | 47.3          | 51.3          | 55.3          | 63.3          | 70.3          | 77.8          | 81.3          | 88.8          | 96.3          | 110.6         | 125.6         |
|       | <b>0.92</b>               | <b>0.94</b> | <b>0.96</b> | <b>0.98</b> | <b>0.99</b> | <b>1.01</b> | <b>1.03</b>   | <b>1.05</b>   | <b>1.06</b>   | <b>1.08</b>   | <b>1.11</b>   | <b>1.13</b>   | <b>1.16</b>   | <b>1.17</b>   | <b>1.19</b>   | <b>1.21</b>   | <b>1.24</b>   | <b>1.27</b>   |
| 1.85  | 27.0                      | 30.5        | 33.5        | 35.5        | 38.0        | 41.5        | 45.5          | 49.0          | 53.0          | 57.0          | 65.0          | 72.0          | 79.5          | 83.0          | 90.5          | 98.0          | 112.3         | 127.3         |
| 1.87  | 26.0                      | 29.6        | 32.6        | 34.6        | 37.1        | 40.6        | 44.6          | 48.1          | 52.1          | 56.1          | 64.1          | 71.1          | 78.6          | 82.1          | 89.6          | 97.1          | 111.3         | 126.3         |
| 1.89  | 19.9                      | 23.5        | 26.5        | 28.5        | 31.0        | 34.5        | 38.5          | 42.0          | 46.0          | 50.1          | 58.1          | 65.1          | 72.6          | 76.1          | 83.6          | 91.1          | 105.3         | 120.4         |
| 1.90  | 26.8                      | 30.3        | 33.3        | 35.4        | 37.9        | 41.4        | 45.4          | 48.9          | 52.9          | 56.9          | 64.9          | 71.9          | 79.4          | 82.9          | 90.4          | 97.9          | 112.1         | 127.1         |
| 1.91  | 21.7                      | 25.2        | 28.2        | 30.2        | 32.8        | 36.3        | 40.3          | 43.8          | 47.8          | 51.8          | 59.8          | 66.8          | 74.3          | 77.8          | 85.3          | 92.8          | 107.1         | 122.1         |
| 1.92  | 25.4                      | 28.9        | 31.9        | 33.9        | 36.4        | 39.9        | 43.9          | 47.4          | 51.4          | 55.4          | 63.4          | 70.5          | 78.0          | 81.5          | 89.0          | 96.5          | 110.7         | 125.7         |
| 1.92  | ---                       | 15.9        | 19.0        | 21.1        | 23.6        | 27.2        | 31.3          | 34.8          | 38.8          | 42.8          | 50.9          | 57.9          | 65.4          | 68.9          | 76.4          | 84.0          | 98.2          | 113.2         |
| 1.95  | 18.6                      | 22.1        | 25.2        | 27.2        | 29.7        | 33.2        | 37.2          | 40.7          | 44.8          | 48.8          | 56.8          | 63.8          | 71.3          | 74.8          | 82.3          | 89.8          | 104.1         | 119.1         |
| 1.96  | 26.7                      | 30.2        | 33.2        | 35.2        | 37.7        | 41.2        | 45.2          | 48.7          | 52.7          | 56.7          | 64.7          | 71.7          | 79.2          | 82.7          | 90.2          | 97.7          | 112.0         | 127.0         |
| 1.96  | 24.8                      | 28.3        | 31.3        | 33.3        | 35.8        | 39.3        | 43.3          | 46.8          | 50.8          | 54.8          | 62.8          | 69.8          | 77.3          | 80.8          | 88.3          | 95.8          | 110.1         | 125.1         |
| 1.97  | 23.8                      | 27.3        | 30.3        | 32.3        | 34.8        | 38.3        | 42.3          | 45.8          | 49.9          | 53.9          | 61.9          | 68.9          | 76.4          | 79.9          | 87.4          | 94.9          | 109.1         | 124.1         |
| 1.97  | 21.8                      | 25.4        | 28.4        | 30.4        | 32.9        | 36.4        | 40.4          | 43.9          | 47.9          | 52.0          | 60.0          | 67.0          | 74.5          | 78.0          | 85.5          | 93.0          | 107.2         | 122.2         |
| 2.01  | 20.2                      | 23.7        | 26.8        | 28.8        | 31.3        | 34.8        | 38.8          | 42.3          | 46.3          | 50.4          | 58.4          | 65.4          | 72.9          | 76.4          | 83.9          | 91.4          | 105.7         | 120.7         |
| 2.01  | 25.6                      | 29.1        | 32.1        | 34.1        | 36.6        | 40.1        | 44.1          | 47.6          | 51.6          | 55.6          | 63.6          | 70.6          | 78.1          | 81.6          | 89.1          | 96.6          | 110.9         | 125.9         |
| 2.03  | 16.5                      | 20.1        | 23.2        | 25.2        | 27.7        | 31.2        | 35.3          | 38.8          | 42.8          | 46.8          | 54.9          | 61.9          | 69.4          | 72.9          | 80.4          | 87.9          | 102.2         | 117.2         |
| 2.04  | 22.0                      | 25.5        | 28.5        | 30.5        | 33.1        | 36.6        | 40.6          | 44.1          | 48.1          | 52.1          | 60.1          | 67.1          | 74.6          | 78.1          | 85.6          | 93.1          | 107.4         | 122.4         |
| 2.06  | 24.9                      | 28.4        | 31.4        | 33.4        | 35.9        | 39.4        | 43.4          | 47.0          | 51.0          | 55.0          | 63.0          | 70.0          | 77.5          | 81.0          | 88.5          | 96.0          | 110.2         | 125.2         |
| 2.07  | 18.9                      | 22.4        | 25.4        | 27.5        | 30.0        | 33.5        | 37.5          | 41.0          | 45.1          | 49.1          | 57.1          | 64.1          | 71.6          | 75.1          | 82.6          | 90.1          | 104.4         | 119.4         |
| 2.09  | ---                       | 16.5        | 19.6        | 21.7        | 24.2        | 27.8        | 31.8          | 35.4          | 39.4          | 43.4          | 51.5          | 58.5          | 66.0          | 69.5          | 77.0          | 84.6          | 98.8          | 113.8         |
| 2.11  | 16.0                      | 19.6        | 22.6        | 24.7        | 27.2        | 30.7        | 34.8          | 38.3          | 42.3          | 46.3          | 54.4          | 61.4          | 68.9          | 72.4          | 79.9          | 87.4          | 101.7         | 116.7         |
|       | <b>0.91</b>               | <b>0.94</b> | <b>0.96</b> | <b>0.97</b> | <b>0.98</b> | <b>1.00</b> | <b>1.02</b>   | <b>1.04</b>   | <b>1.06</b>   | <b>1.08</b>   | <b>1.11</b>   | <b>1.13</b>   | <b>1.15</b>   | <b>1.17</b>   | <b>1.19</b>   | <b>1.21</b>   | <b>1.24</b>   | <b>1.27</b>   |
| 2.11  | 25.7                      | 29.2        | 32.2        | 34.2        | 36.7        | 40.2        | 44.2          | 47.7          | 51.7          | 55.8          | 63.8          | 70.8          | 78.3          | 81.8          | 89.3          | 96.8          | 111.0         | 126.0         |
| 2.12  | 22.1                      | 25.7        | 28.7        | 30.7        | 33.2        | 36.7        | 40.7          | 44.2          | 48.2          | 52.3          | 60.3          | 67.3          | 74.8          | 78.3          | 85.8          | 93.3          | 107.5         | 122.6         |
| 2.14  | 24.1                      | 27.6        | 30.6        | 32.6        | 35.1        | 38.6        | 42.6          | 46.2          | 50.2          | 54.2          | 62.2          | 69.2          | 76.7          | 80.2          | 87.7          | 95.2          | 109.4         | 124.4         |
| 2.14  | 20.5                      | 24.0        | 27.1        | 29.1        | 31.6        | 35.1        | 39.1          | 42.6          | 46.6          | 50.7          | 58.7          | 65.7          | 73.2          | 76.7          | 84.2          | 91.7          | 106.0         | 121.0         |
| 2.19  | 19.1                      | 22.7        | 25.7        | 27.8        | 30.3        | 33.8        | 37.8          | 41.3          | 45.4          | 49.4          | 57.4          | 64.4          | 71.9          | 75.4          | 82.9          | 90.4          | 104.7         | 119.7         |
| 2.20  | 16.9                      | 20.5        | 23.6        | 25.6        | 28.1        | 31.7        | 35.7          | 39.2          | 43.3          | 47.3          | 55.3          | 62.3          | 69.8          | 73.3          | 80.9          | 88.4          | 102.6         | 117.6         |
| 2.22  | 20.6                      | 24.2        | 27.2        | 29.2        | 31.7        | 35.3        | 39.3          | 42.8          | 46.8          | 50.8          | 58.8          | 65.8          | 73.3          | 76.8          | 84.4          | 91.9          | 106.1         | 121.1         |
| 2.22  | 25.8                      | 29.4        | 32.4        | 34.4        | 36.9        | 40.4        | 44.4          | 47.9          | 51.9          | 55.9          | 63.9          | 70.9          | 78.4          | 81.9          | 89.4          | 96.9          | 111.2         | 126.2         |
| 2.24  | 24.2                      | 27.7        | 30.8        | 32.8        | 35.3        | 38.8        | 42.8          | 46.3          | 50.3          | 54.3          | 62.3          | 69.3          | 76.8          | 80.3          | 87.8          | 95.3          | 109.6         | 124.6         |
| 2.27  | ---                       | 14.9        | 18.0        | 20.1        | 22.7        | 26.3        | 30.4          | 34.0          | 38.0          | 42.1          | 50.1          | 57.2          | 64.7          | 68.2          | 75.7          | 83.3          | 97.5          | 112.6         |
| 2.28  | 16.4                      | 20.0        | 23.0        | 25.1        | 27.6        | 31.2        | 35.2          | 38.7          | 42.8          | 46.8          | 54.8          | 61.8          | 69.3          | 72.9          | 80.4          | 87.9          | 102.1         | 117.2         |
| 2.29  | 22.4                      | 26.0        | 29.0        | 31.0        | 33.5        | 37.0        | 41.0          | 44.5          | 48.5          | 52.6          | 60.6          | 67.6          | 75.1          | 78.6          | 86.1          | 93.6          | 107.9         | 122.9         |
| 2.29  | 20.8                      | 24.3        | 27.3        | 29.4        | 31.9        | 35.4        | 39.4          | 42.9          | 46.9          | 51.0          | 59.0          | 66.0          | 73.5          | 77.0          | 84.5          | 92.0          | 106.3         | 121.3         |
| 2.33  | 17.2                      | 20.8        | 23.9        | 25.9        | 28.4        | 32.0        | 36.0          | 39.5          | 43.6          | 47.6          | 55.6          | 62.6          | 70.1          | 73.6          | 81.2          | 88.7          | 102.9         | 118.0         |
| 2.34  | 19.4                      | 23.0        | 26.0        | 28.0        | 30.6        | 34.1        | 38.1          | 41.6          | 45.7          | 49.7          | 57.7          | 64.7          | 72.2          | 75.7          | 83.2          | 90.7          | 105.0         | 120.0         |
|       | <b>0.89</b>               | <b>0.92</b> | <b>0.94</b> | <b>0.96</b> | <b>0.97</b> | <b>.99</b>  | <b>1.01</b>   | <b>1.03</b>   | <b>1.05</b>   | <b>1.07</b>   | <b>1.10</b>   | <b>1.12</b>   | <b>1.15</b>   | <b>1.16</b>   | <b>1.18</b>   | <b>1.20</b>   | <b>1.23</b>   | <b>1.26</b>   |

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

V-Drives

FHP Drives

# SELECTION



## B S-L CLASSIC BX CLASSIC COG STOCK DRIVE SELECTIONS

| Ratio                                 | Stock Shv.  |        | 3500 RPM Driver |             |       | 1750 RPM Driver |             |       | 1160 RPM Driver |             |       | Belt Size/Center Distance |             |             |             |             |             |             |             |
|---------------------------------------|-------------|--------|-----------------|-------------|-------|-----------------|-------------|-------|-----------------|-------------|-------|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                                       | Datum Diam. |        | Driven RPM      | HP Per Belt |       | Driven RPM      | HP Per Belt |       | Driven RPM      | HP Per Belt |       | B35 BX35                  | B38 BX38    | B42 BX42    | B46 BX46    | B51 BX51    | B55 BX55    | B60 BX60    | B64 BX64    |
|                                       | Driver      | Driven |                 | B           | BX    |                 | B           | BX    |                 | B           | BX    |                           |             |             |             |             |             |             |             |
| <b>2.35</b>                           | 3.80        | 9.40   | 1492            | 4.98        | 10.44 | 746             | 3.96        | 6.79  | 494             | 3.06        | 4.99  | 7.5                       | 9.1         | 11.2        | 13.2        | 15.8        | 17.8        | 20.3        | 22.4        |
| <b>2.38</b>                           | 5.00        | 12.40  | 1470            | 9.68        | 13.95 | 735             | 7.21        | 9.38  | 487             | 5.39        | 6.90  | ---                       | ---         | ---         | 9.5         | 12.2        | 14.3        | 16.8        | 18.9        |
| <b>2.38</b>                           | 3.40        | 8.60   | 1469            | 3.19        | 9.08  | 734             | 2.84        | 5.88  | 487             | 2.26        | 4.33  | 8.6                       | 10.1        | 12.2        | 14.2        | 16.8        | 18.8        | 21.3        | 23.3        |
| <b>2.42</b>                           | 7.40        | 18.40  | 1448            | ---         | ---   | 724             | 13.08       | 13.95 | 480             | 9.79        | 10.43 | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         |
| <b>2.42</b>                           | 5.40        | 13.60  | 1444            | 11.01       | 14.90 | 722             | 8.25        | 10.20 | 479             | 6.15        | 7.51  | ---                       | ---         | ---         | ---         | 10.7        | 12.8        | 15.4        | 17.5        |
| <b>2.46</b>                           | 3.60        | 9.40   | 1420            | 4.10        | 9.78  | 710             | 3.41        | 6.34  | 471             | 2.66        | 4.66  | 7.6                       | 9.2         | 11.3        | 13.4        | 15.9        | 18.0        | 20.5        | 22.5        |
| <b>2.48</b>                           | 6.00        | 15.40  | 1412            | 12.76       | 16.12 | 706             | 9.77        | 11.39 | 468             | 7.27        | 8.41  | ---                       | ---         | ---         | ---         | ---         | ---         | 13.3        | 15.4        |
| <b>2.49</b>                           | 4.20        | 11.00  | 1405            | 6.67        | 11.73 | 702             | 5.07        | 7.68  | 466             | 3.85        | 5.64  | ---                       | ---         | 9.3         | 11.5        | 14.1        | 16.1        | 18.7        | 20.7        |
| <b>2.51</b>                           | 5.20        | 13.60  | 1394            | 10.37       | 14.45 | 697             | 7.74        | 9.79  | 462             | 5.78        | 7.21  | ---                       | ---         | ---         | ---         | 10.8        | 13.0        | 15.6        | 17.6        |
| <b>2.57</b>                           | 6.00        | 16.00  | 1361            | 12.77       | 16.13 | 680             | 9.77        | 11.39 | 451             | 7.27        | 8.42  | ---                       | ---         | ---         | ---         | ---         | ---         | 12.6        | 14.8        |
| <b>2.57</b>                           | 4.60        | 12.40  | 1361            | 8.25        | 12.90 | 680             | 6.16        | 8.54  | 451             | 4.63        | 6.28  | ---                       | ---         | ---         | 9.8         | 12.4        | 14.5        | 17.1        | 19.2        |
| <b>2.60</b>                           | 3.40        | 9.40   | 1348            | 3.21        | 9.10  | 674             | 2.84        | 5.88  | 447             | 2.26        | 4.34  | 7.8                       | 9.4         | 11.5        | 13.5        | 16.1        | 18.1        | 20.6        | 22.7        |
| <b>2.60</b>                           | 9.40        | 25.00  | 1347            | ---         | ---   | 674             | 17.28       | 17.12 | 446             | 13.19       | 13.10 | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         |
| <b>2.61</b>                           | 4.00        | 11.00  | 1343            | 5.85        | 11.11 | 672             | 4.53        | 7.24  | 445             | 3.46        | 5.32  | ---                       | ---         | 9.5         | 11.6        | 14.2        | 16.2        | 18.8        | 20.8        |
| <b>2.62</b>                           | 6.80        | 18.40  | 1336            | 14.59       | 17.31 | 668             | 11.70       | 12.89 | 443             | 8.73        | 9.58  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         |
| <b>2.62</b>                           | 7.40        | 20.00  | 1334            | ---         | ---   | 667             | 13.09       | 13.96 | 442             | 9.80        | 10.43 | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         |
| <b>2.64</b>                           | 5.60        | 15.40  | 1324            | 11.64       | 15.35 | 662             | 8.77        | 10.61 | 439             | 6.53        | 7.82  | ---                       | ---         | ---         | ---         | 10.8        | 13.5        | 15.6        | 17.6        |
| <b>2.73</b>                           | 3.80        | 11.00  | 1282            | 5.00        | 10.47 | 641             | 3.97        | 6.80  | 425             | 3.06        | 5.00  | ---                       | 7.4         | 9.6         | 11.7        | 14.3        | 16.4        | 18.9        | 21.0        |
| <b>2.74</b>                           | 5.40        | 15.40  | 1279            | 11.03       | 14.92 | 640             | 8.26        | 10.21 | 424             | 6.16        | 7.52  | ---                       | ---         | ---         | ---         | 10.9        | 13.7        | 15.8        | 17.8        |
| <b>2.78</b>                           | 6.40        | 18.40  | 1261            | 13.76       | 16.79 | 631             | 10.75       | 12.16 | 418             | 8.01        | 9.01  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         |
| <b>ARC-LENGTH CORRECTION FACTOR →</b> |             |        |                 |             |       |                 |             |       |                 |             |       | <b>0.71</b>               | <b>0.73</b> | <b>0.75</b> | <b>0.76</b> | <b>0.80</b> | <b>0.82</b> | <b>0.85</b> | <b>0.87</b> |
| <b>2.80</b>                           | 4.20        | 12.40  | 1251            | 6.69        | 11.74 | 625             | 5.08        | 7.69  | 415             | 3.85        | 5.65  | ---                       | ---         | ---         | 10.0        | 12.7        | 14.8        | 17.4        | 19.4        |
| <b>2.81</b>                           | 4.60        | 13.60  | 1244            | 8.26        | 12.91 | 622             | 6.16        | 8.55  | 412             | 4.63        | 6.28  | ---                       | ---         | ---         | ---         | 11.2        | 13.4        | 16.0        | 18.1        |
| <b>2.83</b>                           | 5.20        | 15.40  | 1235            | 10.39       | 14.46 | 617             | 7.75        | 9.80  | 409             | 5.78        | 7.21  | ---                       | ---         | ---         | ---         | 11.1        | 13.8        | 15.9        | 17.9        |
| <b>2.84</b>                           | 5.40        | 16.00  | 1232            | 11.04       | 14.93 | 616             | 8.26        | 10.21 | 408             | 6.16        | 7.52  | ---                       | ---         | ---         | ---         | ---         | ---         | 13.0        | 15.2        |
| <b>2.84</b>                           | 6.80        | 20.00  | 1231            | 14.60       | 17.32 | 615             | 11.71       | 12.90 | 408             | 8.73        | 9.59  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         |
| <b>2.87</b>                           | 3.60        | 11.00  | 1220            | 4.13        | 9.80  | 610             | 3.42        | 6.35  | 404             | 2.67        | 4.67  | ---                       | 7.5         | 9.7         | 11.9        | 14.5        | 16.5        | 19.1        | 21.1        |
| <b>2.93</b>                           | 4.00        | 12.40  | 1196            | 5.86        | 11.12 | 598             | 4.53        | 7.25  | 396             | 3.46        | 5.33  | ---                       | ---         | ---         | 10.2        | 12.8        | 14.9        | 17.5        | 19.6        |
| <b>2.94</b>                           | 5.00        | 15.40  | 1190            | 9.71        | 13.98 | 595             | 7.23        | 9.39  | 395             | 5.40        | 6.91  | ---                       | ---         | ---         | ---         | 11.2        | 13.9        | 16.0        | 18.0        |
| <b>2.95</b>                           | 6.00        | 18.40  | 1187            | 12.78       | 16.14 | 593             | 9.78        | 11.40 | 393             | 7.28        | 8.42  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         |
| <b>3.01</b>                           | 6.40        | 20.00  | 1162            | 13.77       | 16.80 | 581             | 10.76       | 12.16 | 385             | 8.01        | 9.01  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         |
| <b>3.02</b>                           | 3.40        | 11.00  | 1158            | 3.22        | 9.11  | 579             | 2.85        | 5.89  | 384             | 2.27        | 4.34  | ---                       | 7.7         | 9.9         | 12.0        | 14.6        | 16.7        | 19.2        | 21.3        |
| <b>3.05</b>                           | 5.00        | 16.00  | 1147            | 9.72        | 13.98 | 573             | 7.23        | 9.39  | 380             | 5.40        | 6.91  | ---                       | ---         | ---         | ---         | ---         | ---         | 13.3        | 15.4        |
| <b>3.06</b>                           | 4.20        | 13.60  | 1143            | 6.70        | 11.75 | 572             | 5.09        | 7.69  | 379             | 3.86        | 5.65  | ---                       | ---         | ---         | ---         | 11.5        | 13.6        | 16.2        | 18.3        |
| <b>3.07</b>                           | 3.80        | 12.40  | 1141            | 5.01        | 10.48 | 571             | 3.98        | 6.80  | 378             | 3.07        | 5.00  | ---                       | ---         | ---         | 10.3        | 13.0        | 15.1        | 17.7        | 19.7        |
| <b>3.11</b>                           | 9.40        | 30.00  | 1125            | ---         | ---   | 563             | 17.29       | 17.13 | 373             | 13.19       | 13.11 | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         |
| <b>3.15</b>                           | 5.60        | 18.40  | 1112            | 11.66       | 15.37 | 556             | 8.78        | 10.62 | 369             | 6.54        | 7.83  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | 12.4        |
| <b>3.18</b>                           | 4.60        | 15.40  | 1102            | 8.27        | 12.92 | 551             | 6.17        | 8.56  | 365             | 4.64        | 6.29  | ---                       | ---         | ---         | ---         | ---         | 11.4        | 14.2        | 16.3        |
| <b>3.20</b>                           | 6.00        | 20.00  | 1093            | 12.79       | 16.15 | 547             | 9.78        | 11.40 | 362             | 7.28        | 8.42  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         |
| <b>3.20</b>                           | 4.00        | 13.60  | 1093            | 5.87        | 11.13 | 547             | 4.54        | 7.25  | 362             | 3.47        | 5.33  | ---                       | ---         | ---         | ---         | 11.6        | 13.7        | 16.4        | 18.5        |
| <b>3.22</b>                           | 3.60        | 12.40  | 1086            | 4.14        | 9.82  | 543             | 3.42        | 6.35  | 360             | 2.67        | 4.67  | ---                       | ---         | 8.2         | 10.4        | 13.1        | 15.2        | 17.8        | 19.9        |
| <b>3.26</b>                           | 5.40        | 18.40  | 1075            | 11.05       | 14.94 | 537             | 8.27        | 10.22 | 356             | 6.16        | 7.52  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | 12.5        |
| <b>3.27</b>                           | 7.40        | 25.00  | 1071            | ---         | ---   | 535             | 13.10       | 13.97 | 355             | 9.80        | 10.44 | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         |
| <b>3.30</b>                           | 4.60        | 16.00  | 1061            | 8.27        | 12.93 | 531             | 6.17        | 8.56  | 352             | 4.64        | 6.29  | ---                       | ---         | ---         | ---         | ---         | 10.7        | 13.5        | 15.7        |
| <b>3.36</b>                           | 3.80        | 13.60  | 1043            | 5.02        | 10.49 | 521             | 3.98        | 6.81  | 346             | 3.07        | 5.00  | ---                       | ---         | ---         | 8.9         | 11.7        | 13.9        | 16.5        | 18.6        |
| <b>3.37</b>                           | 5.20        | 18.40  | 1037            | 10.41       | 14.48 | 519             | 7.75        | 9.81  | 344             | 5.79        | 7.22  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | 12.7        |
| <b>ARC-LENGTH CORRECTION FACTOR →</b> |             |        |                 |             |       |                 |             |       |                 |             |       | ---                       | <b>0.70</b> | <b>0.72</b> | <b>0.74</b> | <b>0.77</b> | <b>0.80</b> | <b>0.83</b> | <b>0.86</b> |
| <b>3.39</b>                           | 3.40        | 12.40  | 1031            | 3.23        | 9.12  | 516             | 2.86        | 5.90  | 342             | 2.27        | 4.34  | ---                       | ---         | 8.3         | 10.5        | 13.2        | 15.3        | 17.9        | 20.0        |
| <b>3.42</b>                           | 5.60        | 20.00  | 1025            | 11.67       | 15.38 | 512             | 8.78        | 10.62 | 340             | 6.54        | 7.83  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         |
| <b>3.46</b>                           | 4.20        | 15.40  | 1013            | 6.71        | 11.76 | 506             | 5.09        | 7.70  | 336             | 3.86        | 5.65  | ---                       | ---         | ---         | ---         | ---         | 11.7        | 14.4        | 16.6        |
| <b>3.50</b>                           | 5.00        | 18.40  | 1000            | 9.73        | 13.99 | 500             | 7.23        | 9.40  | 331             | 5.41        | 6.91  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | 12.8        |
| <b>3.53</b>                           | 3.60        | 13.60  | 993             | 4.14        | 9.82  | 496             | 3.42        | 6.36  | 329             | 2.67        | 4.68  | ---                       | ---         | ---         | 9.0         | 11.8        | 14.0        | 16.6        | 18.7        |
| <b>3.53</b>                           | 5.40        | 20.00  | 990             | 11.06       | 14.95 | 495             | 8.27        | 10.22 | 328             | 6.17        | 7.53  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         |
| <b>3.54</b>                           | 6.80        | 25.00  | 988             | 14.62       | 17.34 | 494             | 11.72       | 12.91 | 328             | 8.74        | 9.59  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         |
| <b>3.61</b>                           | 4.00        | 15.40  | 968             | 5.88        | 11.14 | 484             | 4.54        | 7.26  | 321             | 3.47        | 5.33  | ---                       | ---         | ---         | ---         | ---         | 11.8        | 14.6        | 16.7        |
| <b>3.66</b>                           | 5.20        | 20.00  | 956             | 10.41       | 14.49 | 478             | 7.76        | 9.81  | 317             | 5.79        | 7.22  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         |
| <b>3.71</b>                           | 3.40        | 13.60  | 943             | 3.24        | 9.13  | 471             | 2.86        | 5.90  | 312             | 2.27        | 4.35  | ---                       | ---         | ---         | 9.1         | 12.0        | 14.1        | 16.8        | 18.9        |
| <b>3.75</b>                           | 6.40        | 25.00  | 933             | 13.79       | 16.82 | 466             | 10.77       | 12.17 | 309             | 8.02        | 9.02  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         |
| <b>3.75</b>                           | 4.00        | 16.00  | 933             | 5.88        | 11.14 | 466             | 4.54        | 7.26  | 309             | 3.47        | 5.33  | ---                       | ---         | ---         | ---         | ---         | 11.1        | 13.9        | 16.1        |
| <b>3.78</b>                           | 4.60        | 18.40  | 925             | 8.28        | 12.93 | 463             | 6.18        | 8.56  | 307             | 4.64        | 6.29  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | 13.0        |
| <b>3.79</b>                           | 3.80        | 15.40  | 924             | 5.03        | 10.50 | 462             | 3.99        | 6.81  | 306             | 3.07        | 5.01  | ---                       | ---         | ---         | ---         | ---         | 11.9        | 14.7        | 16.8        |
| <b>3.80</b>                           | 5.00        | 20.00  | 921             | 9.73        | 14.00 | 461             | 7.24        | 9.40  | 305             | 5.41        | 6.91  | ---                       | ---         | ---         | ---         | ---         | ---         | ---         | ---         |
| <b>ARC-LENGTH CORRECTION FACTOR →</b> |             |        |                 |             |       |                 |             |       |                 |             |       | ---                       | ---         | <b>0.70</b> | <b>0.72</b> | <b>0.75</b> | <b>0.78</b> | <b>0.81</b> | <b>0.83</b> |

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

# SELECTION



|          |                    |           |                    |                               |
|----------|--------------------|-----------|--------------------|-------------------------------|
| <b>B</b> | <b>S-L CLASSIC</b> | <b>BX</b> | <b>CLASSIC COG</b> | <b>STOCK DRIVE SELECTIONS</b> |
|----------|--------------------|-----------|--------------------|-------------------------------|

| Ratio | Belt Size/Center Distance |             |             |             |             |             |               |               |               |               |               |               |               |               |               |               |               |               |
|-------|---------------------------|-------------|-------------|-------------|-------------|-------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|       | B68<br>BX68               | B75<br>BX75 | B81<br>BX81 | B85<br>BX85 | B90<br>BX90 | B97<br>BX97 | B105<br>BX105 | B112<br>BX112 | B120<br>BX120 | B128<br>BX128 | B144<br>BX144 | B158<br>BX158 | B173<br>BX173 | B180<br>BX180 | B195<br>BX195 | B210<br>BX210 | B240<br>BX240 | B270<br>BX270 |
| 2.35  | 24.4                      | 27.9        | 30.9        | 32.9        | 35.4        | 38.9        | 42.9          | 46.5          | 50.5          | 54.5          | 62.5          | 69.5          | 77.0          | 80.5          | 88.0          | 95.5          | 109.8         | 124.8         |
| 2.38  | 20.9                      | 24.5        | 27.5        | 29.5        | 32.0        | 35.5        | 39.6          | 43.1          | 47.1          | 51.1          | 59.1          | 66.1          | 73.6          | 77.2          | 84.7          | 92.2          | 106.4         | 121.4         |
| 2.38  | 25.3                      | 28.9        | 31.9        | 33.9        | 36.4        | 39.9        | 43.9          | 47.4          | 51.4          | 55.4          | 63.4          | 70.4          | 77.9          | 81.4          | 88.9          | 96.4          | 110.7         | 125.7         |
| 2.42  | 13.5                      | 17.3        | 20.4        | 22.5        | 25.0        | 28.6        | 32.7          | 36.2          | 40.3          | 44.3          | 52.4          | 59.4          | 66.9          | 70.4          | 78.0          | 85.5          | 99.7          | 114.8         |
| 2.42  | 19.6                      | 23.1        | 26.2        | 28.2        | 30.7        | 34.2        | 38.3          | 41.8          | 45.8          | 49.8          | 57.8          | 64.9          | 72.4          | 75.9          | 83.4          | 90.9          | 105.2         | 120.2         |
| 2.46  | 24.5                      | 28.0        | 31.1        | 33.1        | 35.6        | 39.1        | 43.1          | 46.6          | 50.6          | 54.6          | 62.6          | 69.6          | 77.1          | 80.6          | 88.1          | 95.7          | 109.9         | 124.9         |
| 2.48  | 17.5                      | 21.1        | 24.1        | 26.2        | 28.7        | 32.3        | 36.3          | 39.8          | 43.8          | 47.9          | 55.9          | 62.9          | 70.4          | 74.0          | 81.5          | 89.0          | 103.2         | 118.3         |
| 2.49  | 22.7                      | 26.2        | 29.3        | 31.3        | 33.8        | 37.3        | 41.3          | 44.8          | 48.8          | 52.9          | 60.9          | 67.9          | 75.4          | 78.9          | 86.4          | 93.9          | 108.2         | 123.2         |
| 2.51  | 19.7                      | 23.3        | 26.3        | 28.3        | 30.9        | 34.4        | 38.4          | 41.9          | 46.0          | 50.0          | 58.0          | 65.0          | 72.5          | 76.0          | 83.5          | 91.0          | 105.3         | 120.3         |
| 2.57  | 16.9                      | 20.5        | 23.6        | 25.6        | 28.2        | 31.7        | 35.8          | 39.3          | 43.3          | 47.4          | 55.4          | 62.4          | 70.0          | 73.5          | 81.0          | 88.5          | 102.8         | 117.8         |
| 2.57  | 21.2                      | 24.7        | 27.8        | 29.8        | 32.3        | 35.8        | 39.9          | 43.4          | 47.4          | 51.4          | 59.4          | 66.4          | 74.0          | 77.5          | 85.0          | 92.5          | 106.7         | 121.7         |
| 2.60  | 24.7                      | 28.2        | 31.2        | 33.2        | 35.7        | 39.2        | 43.2          | 46.8          | 50.8          | 54.8          | 62.8          | 69.8          | 77.3          | 80.8          | 88.3          | 95.8          | 110.1         | 125.1         |
| 2.60  | ---                       | ---         | ---         | ---         | ---         | 20.9        | 25.2          | 28.8          | 33.0          | 37.1          | 45.2          | 52.3          | 59.9          | 63.4          | 71.0          | 78.5          | 92.8          | 107.9         |
| 2.61  | 22.9                      | 26.4        | 29.4        | 31.4        | 33.9        | 37.5        | 41.5          | 45.0          | 49.0          | 53.0          | 61.0          | 68.0          | 75.5          | 79.0          | 86.6          | 94.1          | 108.3         | 123.3         |
| 2.62  | 13.9                      | 17.7        | 20.8        | 22.9        | 25.5        | 29.0        | 33.1          | 36.7          | 40.7          | 44.7          | 52.8          | 59.8          | 67.4          | 70.9          | 78.4          | 85.9          | 100.2         | 115.2         |
| 2.62  | ---                       | 15.6        | 18.8        | 20.9        | 23.5        | 27.2        | 31.3          | 34.8          | 38.9          | 42.9          | 51.0          | 58.0          | 65.6          | 69.1          | 76.6          | 84.2          | 98.4          | 113.5         |
| 2.64  | 17.7                      | 21.4        | 24.4        | 26.5        | 29.0        | 32.5        | 36.6          | 40.1          | 44.1          | 48.2          | 56.2          | 63.2          | 70.7          | 74.3          | 81.8          | 89.3          | 103.5         | 118.6         |
| 2.73  | 23.0                      | 26.5        | 29.6        | 31.6        | 34.1        | 37.6        | 41.6          | 45.1          | 49.2          | 53.2          | 61.2          | 68.2          | 75.7          | 79.2          | 86.7          | 94.2          | 108.5         | 123.5         |
| 2.74  | 17.9                      | 21.5        | 24.6        | 26.6        | 29.1        | 32.7        | 36.7          | 40.3          | 44.3          | 48.3          | 56.4          | 63.4          | 70.9          | 74.4          | 81.9          | 89.4          | 103.7         | 118.7         |
| 2.78  | 14.2                      | 17.9        | 21.1        | 23.2        | 25.7        | 29.3        | 33.4          | 36.9          | 41.0          | 45.0          | 53.1          | 60.1          | 67.7          | 71.2          | 78.7          | 86.2          | 100.5         | 115.5         |
|       | <b>0.89</b>               | <b>0.92</b> | <b>0.94</b> | <b>0.96</b> | <b>0.97</b> | <b>0.99</b> | <b>1.01</b>   | <b>1.03</b>   | <b>1.05</b>   | <b>1.07</b>   | <b>1.10</b>   | <b>1.12</b>   | <b>1.15</b>   | <b>1.16</b>   | <b>1.18</b>   | <b>1.20</b>   | <b>1.23</b>   | <b>1.26</b>   |
| 2.80  | 21.5                      | 25.0        | 28.1        | 30.1        | 32.6        | 36.1        | 40.2          | 43.7          | 47.7          | 51.7          | 59.7          | 66.7          | 74.3          | 77.8          | 85.3          | 92.8          | 107.0         | 122.1         |
| 2.81  | 20.1                      | 23.7        | 26.7        | 28.8        | 31.3        | 34.8        | 38.9          | 42.4          | 46.4          | 50.4          | 58.4          | 65.4          | 73.0          | 76.5          | 84.0          | 91.5          | 105.8         | 120.8         |
| 2.83  | 18.0                      | 21.6        | 24.7        | 26.7        | 29.3        | 32.8        | 36.9          | 40.4          | 44.4          | 48.5          | 56.5          | 63.5          | 71.0          | 74.6          | 82.1          | 89.6          | 103.9         | 118.9         |
| 2.84  | 17.3                      | 20.9        | 24.0        | 26.1        | 28.6        | 32.2        | 36.2          | 39.7          | 43.8          | 47.8          | 55.8          | 62.9          | 70.4          | 73.9          | 81.4          | 88.9          | 103.2         | 118.2         |
| 2.84  | ---                       | 16.0        | 19.2        | 21.3        | 24.0        | 27.6        | 31.7          | 35.2          | 39.3          | 43.4          | 51.4          | 58.5          | 66.0          | 69.5          | 77.1          | 84.6          | 98.9          | 113.9         |
| 2.87  | 23.1                      | 26.7        | 29.7        | 31.7        | 34.2        | 37.8        | 41.8          | 45.3          | 49.3          | 53.3          | 61.3          | 68.3          | 75.8          | 79.4          | 86.9          | 94.4          | 108.6         | 123.6         |
| 2.93  | 21.6                      | 25.2        | 28.2        | 30.2        | 32.8        | 36.3        | 40.3          | 43.8          | 47.8          | 51.9          | 59.9          | 66.9          | 74.4          | 77.9          | 85.4          | 92.9          | 107.2         | 122.2         |
| 2.94  | 18.1                      | 21.8        | 24.8        | 26.9        | 29.4        | 33.0        | 37.0          | 40.6          | 44.6          | 48.6          | 56.6          | 63.7          | 71.2          | 74.7          | 82.2          | 89.7          | 104.0         | 119.0         |
| 2.95  | 14.4                      | 18.2        | 21.3        | 23.4        | 26.0        | 29.6        | 33.7          | 37.2          | 41.3          | 45.3          | 53.4          | 60.4          | 68.0          | 71.5          | 79.0          | 86.5          | 100.8         | 115.8         |
| 3.01  | ---                       | 16.3        | 19.5        | 21.6        | 24.2        | 27.8        | 32.0          | 35.5          | 39.6          | 43.6          | 51.7          | 58.8          | 66.3          | 69.8          | 77.4          | 84.9          | 99.2          | 114.2         |
| 3.02  | 23.3                      | 26.8        | 29.9        | 31.9        | 34.4        | 37.9        | 41.9          | 45.4          | 49.4          | 53.5          | 61.5          | 68.5          | 76.0          | 79.5          | 87.0          | 94.5          | 108.8         | 123.8         |
| 3.05  | 17.6                      | 21.2        | 24.3        | 26.3        | 28.9        | 32.4        | 36.5          | 40.0          | 44.1          | 48.1          | 56.1          | 63.2          | 70.7          | 74.2          | 81.7          | 89.2          | 103.5         | 118.5         |
| 3.06  | 20.4                      | 24.0        | 27.0        | 29.0        | 31.6        | 35.1        | 39.1          | 42.7          | 46.7          | 50.7          | 58.7          | 65.8          | 73.3          | 76.8          | 84.3          | 91.8          | 106.1         | 121.1         |
| 3.07  | 21.8                      | 25.3        | 28.4        | 30.4        | 32.9        | 36.4        | 40.5          | 44.0          | 48.0          | 52.0          | 60.0          | 67.0          | 74.6          | 78.1          | 85.6          | 93.1          | 107.3         | 122.4         |
| 3.11  | ---                       | ---         | ---         | ---         | ---         | ---         | 19.8          | 23.7          | 28.1          | 32.3          | 40.7          | 47.9          | 55.5          | 59.1          | 66.7          | 74.3          | 88.6          | 103.7         |
| 3.15  | 14.7                      | 18.4        | 21.6        | 23.7        | 26.3        | 29.9        | 34.0          | 37.5          | 41.6          | 45.6          | 53.7          | 60.7          | 68.3          | 71.8          | 79.3          | 86.8          | 101.1         | 116.1         |
| 3.18  | 18.4                      | 22.0        | 25.1        | 27.2        | 29.7        | 33.3        | 37.3          | 40.8          | 44.9          | 48.9          | 56.9          | 64.0          | 71.5          | 75.0          | 82.5          | 90.0          | 104.3         | 119.3         |
| 3.20  | ---                       | 16.5        | 19.7        | 21.9        | 24.5        | 28.1        | 32.2          | 35.8          | 39.9          | 43.9          | 52.0          | 59.1          | 66.6          | 70.1          | 77.7          | 85.2          | 99.5          | 114.5         |
| 3.20  | 20.5                      | 24.1        | 27.2        | 29.2        | 31.7        | 35.3        | 39.3          | 42.8          | 46.8          | 50.9          | 58.9          | 65.9          | 73.4          | 76.9          | 84.4          | 92.0          | 106.2         | 121.2         |
| 3.22  | 21.9                      | 25.5        | 28.5        | 30.5        | 33.0        | 36.6        | 40.6          | 44.1          | 48.1          | 52.2          | 60.2          | 67.2          | 74.7          | 78.2          | 85.7          | 93.2          | 107.5         | 122.5         |
| 3.26  | 14.8                      | 18.6        | 21.7        | 23.8        | 26.4        | 30.0        | 34.1          | 37.7          | 41.7          | 45.8          | 53.8          | 60.9          | 68.4          | 71.9          | 79.5          | 87.0          | 101.3         | 116.3         |
| 3.27  | ---                       | ---         | ---         | ---         | 18.4        | 22.2        | 26.5          | 30.2          | 34.3          | 38.5          | 46.6          | 53.7          | 61.3          | 64.9          | 72.4          | 80.0          | 94.3          | 109.4         |
| 3.30  | 17.8                      | 21.5        | 24.6        | 26.6        | 29.2        | 32.7        | 36.8          | 40.3          | 44.4          | 48.4          | 56.4          | 63.5          | 71.0          | 74.5          | 82.0          | 89.5          | 103.8         | 118.8         |
| 3.36  | 20.7                      | 24.2        | 27.3        | 29.3        | 31.9        | 35.4        | 39.4          | 43.0          | 47.0          | 51.0          | 59.0          | 66.1          | 73.6          | 77.1          | 84.6          | 92.1          | 106.4         | 121.4         |
| 3.37  | 14.9                      | 18.7        | 21.9        | 24.0        | 26.6        | 30.2        | 34.2          | 37.8          | 41.9          | 45.9          | 54.0          | 61.0          | 68.6          | 72.1          | 79.6          | 87.1          | 101.4         | 116.4         |
|       | <b>0.88</b>               | <b>0.90</b> | <b>0.93</b> | <b>0.95</b> | <b>0.97</b> | <b>0.99</b> | <b>1.01</b>   | <b>1.03</b>   | <b>1.05</b>   | <b>1.07</b>   | <b>1.10</b>   | <b>1.12</b>   | <b>1.15</b>   | <b>1.16</b>   | <b>1.18</b>   | <b>1.20</b>   | <b>1.23</b>   | <b>1.26</b>   |
| 3.39  | 22.0                      | 25.6        | 28.6        | 30.7        | 33.2        | 36.7        | 40.7          | 44.3          | 48.3          | 52.3          | 60.3          | 67.3          | 74.9          | 78.4          | 85.9          | 93.4          | 107.7         | 122.7         |
| 3.42  | ---                       | 16.8        | 20.0        | 22.1        | 24.8        | 28.4        | 32.5          | 36.1          | 40.2          | 44.2          | 52.3          | 59.4          | 66.9          | 70.4          | 78.0          | 85.5          | 99.8          | 114.8         |
| 3.46  | 18.7                      | 22.3        | 25.4        | 27.4        | 30.0        | 33.5        | 37.6          | 41.1          | 45.2          | 49.2          | 57.2          | 64.3          | 71.8          | 75.3          | 82.8          | 90.3          | 104.6         | 119.6         |
| 3.50  | 15.0                      | 18.8        | 22.0        | 24.1        | 26.7        | 30.3        | 34.4          | 37.9          | 42.0          | 46.0          | 54.1          | 61.2          | 68.7          | 72.2          | 79.7          | 87.3          | 101.6         | 116.6         |
| 3.53  | 20.8                      | 24.4        | 27.4        | 29.5        | 32.0        | 35.5        | 39.6          | 43.1          | 47.1          | 51.2          | 59.2          | 66.2          | 73.7          | 77.2          | 84.8          | 92.3          | 106.5         | 121.5         |
| 3.53  | 12.9                      | 16.9        | 20.1        | 22.3        | 24.9        | 28.5        | 32.6          | 36.2          | 40.3          | 44.4          | 52.5          | 59.5          | 67.1          | 70.6          | 78.1          | 85.6          | 99.9          | 114.9         |
| 3.54  | ---                       | ---         | ---         | ---         | 18.7        | 22.6        | 26.9          | 30.6          | 34.7          | 38.9          | 47.1          | 54.2          | 61.8          | 65.3          | 72.9          | 80.4          | 94.8          | 109.8         |
| 3.61  | 18.8                      | 22.4        | 25.5        | 27.6        | 30.1        | 33.7        | 37.7          | 41.3          | 45.3          | 49.3          | 57.4          | 64.4          | 71.9          | 75.5          | 83.0          | 90.5          | 104.8         | 119.8         |
| 3.66  | 13.0                      | 17.0        | 20.3        | 22.4        | 25.0        | 28.7        | 32.8          | 36.4          | 40.4          | 44.5          | 52.6          | 59.7          | 67.2          | 70.7          | 78.3          | 85.8          | 100.1         | 115.1         |
| 3.71  | 20.9                      | 24.5        | 27.6        | 29.6        | 32.2        | 35.7        | 39.7          | 43.3          | 47.3          | 51.3          | 59.3          | 66.4          | 73.9          | 77.4          | 84.9          | 92.4          | 106.7         | 121.7         |
| 3.75  | ---                       | ---         | ---         | 16.1        | 19.0        | 22.9        | 27.2          | 30.8          | 35.0          | 39.1          | 47.3          | 54.5          | 62.1          | 65.6          | 73.2          | 80.7          | 95.0          | 110.1         |
| 3.75  | 18.2                      | 21.9        | 25.0        | 27.0        | 29.6        | 33.2        | 37.2          | 40.8          | 44.8          | 48.8          | 56.9          | 63.9          | 71.4          | 75.0          | 82.5          | 90.0          | 104.3         | 119.3         |
| 3.78  | 15.3                      | 19.1        | 22.3        | 24.4        | 27.0        | 30.6        | 34.7          | 38.2          | 42.3          | 46.3          | 54.4          | 61.5          | 69.0          | 72.5          | 80.0          | 87.6          | 101.9         | 116.9         |
| 3.79  | 18.9                      | 22.6        | 25.7        | 27.7        | 30.3        | 33.8        | 37.9          | 41.4          | 45.5          | 49.5          | 57.5          | 64.6          | 72.1          | 75.6          | 83.1          | 90.6          | 104.9         | 119.9         |
| 3.80  | 13.1                      | 17.1        | 20.4        | 22.5        | 25.2        | 28.8        | 32.9          | 36.5          | 40.6          | 44.6          | 52.7          | 59.8          | 67.4          | 70.9          | 78.4          | 85.9          | 100.2         | 115.3         |
|       | <b>0.85</b>               | <b>0.88</b> | <b>0.92</b> | <b>0.93</b> | <b>0.95</b> | <b>0.97</b> | <b>0.99</b>   | <b>1.00</b>   | <b>1.02</b>   | <b>1.04</b>   | <b>1.08</b>   | <b>1.10</b>   | <b>1.13</b>   | <b>1.14</b>   | <b>1.16</b>   | <b>1.18</b>   | <b>1.22</b>   | <b>1.25</b>   |

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives



# SELECTION



## **B** **S-L CLASSIC** **BX** **CLASSIC COG** STOCK DRIVE SELECTIONS

| Ratio                                 | Stock Shv.  |        | 3500 RPM Driver |             |       | 1750 RPM Driver |             |       | 1160 RPM Driver |             |       | Belt Size/Center Distance |          |          |          |             |             |             |             |
|---------------------------------------|-------------|--------|-----------------|-------------|-------|-----------------|-------------|-------|-----------------|-------------|-------|---------------------------|----------|----------|----------|-------------|-------------|-------------|-------------|
|                                       | Datum Diam. |        | Driven RPM      | HP Per Belt |       | Driven RPM      | HP Per Belt |       | Driven RPM      | HP Per Belt |       | B35 BX35                  | B38 BX38 | B42 BX42 | B46 BX46 | B51 BX51    | B55 BX55    | B60 BX60    | B64 BX64    |
|                                       | Driver      | Driven |                 | B           | BX    |                 | B           | BX    |                 | B           | BX    |                           |          |          |          |             |             |             |             |
| <b>3.91</b>                           | 7.40        | 30.00  | 895             | ---         | ---   | 447             | 13.11       | 13.98 | 296             | 9.81        | 10.44 | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>3.93</b>                           | 3.80        | 16.00  | 890             | 5.03        | 10.50 | 445             | 3.99        | 6.81  | 295             | 3.07        | 5.01  | ---                       | ---      | ---      | ---      | 11.2        | 14.0        | 16.2        |             |
| <b>3.98</b>                           | 3.60        | 15.40  | 879             | 4.15        | 9.83  | 440             | 3.43        | 6.36  | 291             | 2.68        | 4.68  | ---                       | ---      | ---      | 9.7      | 12.0        | 14.8        | 17.0        |             |
| <b>3.99</b>                           | 6.00        | 25.00  | 878             | 12.81       | 16.16 | 439             | 9.79        | 11.41 | 291             | 7.29        | 8.43  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>4.10</b>                           | 4.60        | 20.00  | 853             | 8.28        | 12.94 | 426             | 6.18        | 8.56  | 283             | 4.64        | 6.29  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>4.11</b>                           | 4.20        | 18.40  | 851             | 6.71        | 11.77 | 425             | 5.09        | 7.70  | 282             | 3.86        | 5.65  | ---                       | ---      | ---      | ---      | ---         | ---         | 13.3        |             |
| <b>4.13</b>                           | 3.60        | 16.00  | 847             | 4.15        | 9.83  | 424             | 3.43        | 6.36  | 281             | 2.68        | 4.68  | ---                       | ---      | ---      | ---      | 11.3        | 14.2        | 16.3        |             |
| <b>4.19</b>                           | 3.40        | 15.40  | 835             | 3.24        | 9.13  | 418             | 2.86        | 5.90  | 277             | 2.27        | 4.35  | ---                       | ---      | ---      | 9.8      | 12.2        | 14.9        | 17.1        |             |
| <b>4.24</b>                           | 6.80        | 30.00  | 825             | 14.63       | 17.35 | 413             | 11.72       | 12.91 | 274             | 8.74        | 9.60  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>4.26</b>                           | 5.60        | 25.00  | 823             | 11.68       | 15.39 | 411             | 8.79        | 10.62 | 273             | 6.54        | 7.83  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>4.28</b>                           | 8.60        | 38.00  | 818             | ---         | ---   | 409             | 15.71       | 15.95 | 271             | 11.87       | 12.07 | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>4.30</b>                           | 4.00        | 18.40  | 813             | 5.89        | 11.15 | 407             | 4.55        | 7.26  | 270             | 3.47        | 5.33  | ---                       | ---      | ---      | ---      | ---         | ---         | 13.4        |             |
| <b>4.35</b>                           | 3.40        | 16.00  | 804             | 3.25        | 9.14  | 402             | 2.86        | 5.91  | 267             | 2.28        | 4.35  | ---                       | ---      | ---      | ---      | 11.4        | 14.3        | 16.5        |             |
| <b>4.40</b>                           | 5.40        | 25.00  | 795             | 11.07       | 14.96 | 397             | 8.28        | 10.22 | 263             | 6.17        | 7.53  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>4.46</b>                           | 4.20        | 20.00  | 784             | 6.72        | 11.77 | 392             | 5.10        | 7.70  | 260             | 3.86        | 5.66  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>4.49</b>                           | 6.40        | 30.00  | 779             | 13.80       | 16.82 | 390             | 10.77       | 12.17 | 258             | 8.02        | 9.02  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>4.51</b>                           | 3.80        | 18.40  | 776             | 5.04        | 10.50 | 388             | 3.99        | 6.82  | 257             | 3.08        | 5.01  | ---                       | ---      | ---      | ---      | ---         | ---         | 13.5        |             |
| <b>4.56</b>                           | 5.20        | 25.00  | 767             | 10.42       | 14.50 | 384             | 7.76        | 9.82  | 254             | 5.79        | 7.22  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>4.67</b>                           | 4.00        | 20.00  | 750             | 5.89        | 11.15 | 375             | 4.55        | 7.26  | 248             | 3.47        | 5.33  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>4.73</b>                           | 5.00        | 25.00  | 740             | 9.74        | 14.01 | 370             | 7.24        | 9.41  | 245             | 5.41        | 6.92  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>4.74</b>                           | 3.60        | 18.40  | 739             | 4.16        | 9.83  | 369             | 3.43        | 6.36  | 245             | 2.68        | 4.68  | ---                       | ---      | ---      | ---      | ---         | 11.2        | 13.6        |             |
| <b>4.77</b>                           | 6.00        | 30.00  | 733             | 12.81       | 16.17 | 367             | 9.79        | 11.41 | 243             | 7.29        | 8.43  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>4.89</b>                           | 3.80        | 20.00  | 715             | 5.04        | 10.51 | 358             | 3.99        | 6.82  | 237             | 3.08        | 5.01  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>4.94</b>                           | 7.40        | 38.00  | 708             | ---         | ---   | 354             | 13.11       | 13.98 | 235             | 9.81        | 10.45 | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>4.99</b>                           | 3.40        | 18.40  | 701             | 3.25        | 9.14  | 351             | 2.87        | 5.91  | 232             | 2.28        | 4.35  | ---                       | ---      | ---      | ---      | ---         | 11.3        | 13.7        |             |
| <b>ARC-LENGTH CORRECTION FACTOR →</b> |             |        |                 |             |       |                 |             |       |                 |             |       | ---                       | ---      | ---      | ---      | <b>0.75</b> | <b>0.77</b> | <b>0.80</b> | <b>0.82</b> |
| <b>5.09</b>                           | 5.60        | 30.00  | 687             | 11.69       | 15.39 | 344             | 8.79        | 10.63 | 228             | 6.55        | 7.83  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>5.11</b>                           | 4.60        | 25.00  | 685             | 8.29        | 12.95 | 342             | 6.18        | 8.57  | 227             | 4.64        | 6.29  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>5.14</b>                           | 3.60        | 20.00  | 681             | 4.16        | 9.84  | 340             | 3.43        | 6.37  | 226             | 2.68        | 4.68  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>5.27</b>                           | 5.40        | 30.00  | 664             | 11.07       | 14.96 | 332             | 8.28        | 10.23 | 220             | 6.17        | 7.53  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>5.36</b>                           | 6.80        | 38.00  | 653             | 14.64       | 17.35 | 327             | 11.73       | 12.91 | 217             | 8.75        | 9.60  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>5.41</b>                           | 3.40        | 20.00  | 646             | 3.25        | 9.14  | 323             | 2.87        | 5.91  | 214             | 2.28        | 4.35  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>5.46</b>                           | 5.20        | 30.00  | 641             | 10.42       | 14.50 | 320             | 7.76        | 9.82  | 212             | 5.79        | 7.23  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>5.56</b>                           | 4.20        | 25.00  | 629             | 6.72        | 11.78 | 315             | 5.10        | 7.70  | 209             | 3.87        | 5.66  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>5.66</b>                           | 5.00        | 30.00  | 618             | 9.75        | 14.01 | 309             | 7.24        | 9.41  | 205             | 5.41        | 6.92  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>5.67</b>                           | 6.40        | 38.00  | 617             | 13.80       | 16.83 | 308             | 10.77       | 12.18 | 204             | 8.02        | 9.02  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>ARC-LENGTH CORRECTION FACTOR →</b> |             |        |                 |             |       |                 |             |       |                 |             |       | ---                       | ---      | ---      | ---      | ---         | ---         | ---         | ---         |
| <b>5.82</b>                           | 4.00        | 25.00  | 602             | 5.90        | 11.16 | 301             | 4.55        | 7.26  | 199             | 3.47        | 5.34  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>6.03</b>                           | 6.00        | 38.00  | 580             | 12.82       | 16.18 | 290             | 9.79        | 11.41 | 192             | 7.29        | 8.43  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>6.10</b>                           | 3.80        | 25.00  | 574             | 5.04        | 10.51 | 287             | 3.99        | 6.82  | 190             | 3.08        | 5.01  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>6.12</b>                           | 4.60        | 30.00  | 572             | 8.30        | 12.95 | 286             | 6.18        | 8.57  | 190             | 4.65        | 6.29  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>6.40</b>                           | 3.60        | 25.00  | 547             | 4.16        | 9.84  | 273             | 3.43        | 6.37  | 181             | 2.68        | 4.68  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>6.44</b>                           | 5.60        | 38.00  | 544             | 11.69       | 15.40 | 272             | 8.79        | 10.63 | 180             | 6.55        | 7.84  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>6.66</b>                           | 4.20        | 30.00  | 526             | 6.73        | 11.78 | 263             | 5.10        | 7.71  | 174             | 3.87        | 5.66  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>6.74</b>                           | 3.40        | 25.00  | 519             | 3.26        | 9.15  | 259             | 2.87        | 5.91  | 172             | 2.28        | 4.35  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>6.90</b>                           | 5.20        | 38.00  | 507             | 10.43       | 14.50 | 254             | 7.77        | 9.82  | 168             | 5.79        | 7.23  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>6.96</b>                           | 4.00        | 30.00  | 503             | 5.90        | 11.16 | 251             | 4.55        | 7.27  | 167             | 3.47        | 5.34  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>ARC-LENGTH CORRECTION FACTOR →</b> |             |        |                 |             |       |                 |             |       |                 |             |       | ---                       | ---      | ---      | ---      | ---         | ---         | ---         | ---         |
| <b>7.16</b>                           | 5.00        | 38.00  | 489             | 9.75        | 14.01 | 245             | 7.24        | 9.41  | 162             | 5.41        | 6.92  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>7.30</b>                           | 3.80        | 30.00  | 480             | 5.05        | 10.51 | 240             | 4.00        | 6.82  | 159             | 3.08        | 5.01  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>7.67</b>                           | 3.60        | 30.00  | 457             | 4.17        | 9.84  | 228             | 3.44        | 6.37  | 151             | 2.68        | 4.68  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>7.73</b>                           | 4.60        | 38.00  | 453             | 8.30        | 12.95 | 226             | 6.18        | 8.57  | 150             | 4.65        | 6.30  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>8.07</b>                           | 3.40        | 30.00  | 433             | 3.26        | 9.15  | 217             | 2.87        | 5.91  | 144             | 2.28        | 4.35  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>8.41</b>                           | 4.20        | 38.00  | 416             | 6.73        | 11.79 | 208             | 5.10        | 7.71  | 138             | 3.87        | 5.66  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>8.80</b>                           | 4.00        | 38.00  | 398             | 5.90        | 11.16 | 199             | 4.55        | 7.27  | 132             | 3.48        | 5.34  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>9.22</b>                           | 3.80        | 38.00  | 380             | 5.05        | 10.52 | 190             | 4.00        | 6.82  | 126             | 3.08        | 5.01  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>9.69</b>                           | 3.60        | 38.00  | 361             | 4.17        | 9.85  | 181             | 3.44        | 6.37  | 120             | 2.68        | 4.68  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>10.20</b>                          | 3.40        | 38.00  | 343             | 3.26        | 9.15  | 172             | 2.87        | 5.91  | 114             | 2.28        | 4.35  | ---                       | ---      | ---      | ---      | ---         | ---         | ---         |             |
| <b>ARC-LENGTH CORRECTION FACTOR →</b> |             |        |                 |             |       |                 |             |       |                 |             |       | ---                       | ---      | ---      | ---      | ---         | ---         | ---         | ---         |

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

# SELECTION



|          |                    |           |                    |                               |
|----------|--------------------|-----------|--------------------|-------------------------------|
| <b>B</b> | <b>S-L CLASSIC</b> | <b>BX</b> | <b>CLASSIC COG</b> | <b>STOCK DRIVE SELECTIONS</b> |
|----------|--------------------|-----------|--------------------|-------------------------------|

| Ratio | Belt Size/Center Distance |             |             |             |             |             |               |               |               |               |               |               |               |               |               |               |               |               |
|-------|---------------------------|-------------|-------------|-------------|-------------|-------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|       | B68<br>BX68               | B75<br>BX75 | B81<br>BX81 | B85<br>BX85 | B90<br>BX90 | B97<br>BX97 | B105<br>BX105 | B112<br>BX112 | B120<br>BX120 | B128<br>BX128 | B144<br>BX144 | B158<br>BX158 | B173<br>BX173 | B180<br>BX180 | B195<br>BX195 | B210<br>BX210 | B240<br>BX240 | B270<br>BX270 |
| 3.91  | ---                       | ---         | ---         | ---         | ---         | ---         | 21.0          | 25.0          | 29.4          | 33.6          | 42.0          | 49.2          | 56.9          | 60.5          | 68.1          | 75.7          | 90.1          | 105.2         |
| 3.93  | 18.3                      | 22.0        | 25.1        | 27.2        | 29.7        | 33.3        | 37.4          | 40.9          | 44.9          | 49.0          | 57.0          | 64.1          | 71.6          | 75.1          | 82.6          | 90.2          | 104.4         | 119.5         |
| 3.98  | 19.1                      | 22.7        | 25.8        | 27.9        | 30.4        | 34.0        | 38.0          | 41.6          | 45.6          | 49.6          | 57.7          | 64.7          | 72.2          | 75.8          | 83.3          | 90.8          | 105.1         | 120.1         |
| 3.99  | ---                       | ---         | ---         | 16.3        | 19.2        | 23.1        | 27.4          | 31.1          | 35.3          | 39.4          | 47.6          | 54.7          | 62.3          | 65.9          | 73.5          | 81.0          | 95.3          | 110.4         |
| 4.10  | 13.4                      | 17.4        | 20.7        | 22.8        | 25.4        | 29.1        | 33.2          | 36.8          | 40.9          | 44.9          | 53.0          | 60.1          | 67.7          | 71.2          | 78.7          | 86.2          | 100.5         | 115.6         |
| 4.11  | 15.5                      | 19.4        | 22.5        | 24.6        | 27.2        | 30.8        | 34.9          | 38.5          | 42.6          | 46.6          | 54.7          | 61.8          | 69.3          | 72.8          | 80.3          | 87.9          | 102.2         | 117.2         |
| 4.13  | 18.5                      | 22.1        | 25.3        | 27.3        | 29.9        | 33.4        | 37.5          | 41.0          | 45.1          | 49.1          | 57.2          | 64.2          | 71.7          | 75.3          | 82.8          | 90.3          | 104.6         | 119.6         |
| 4.19  | 19.2                      | 22.9        | 25.9        | 28.0        | 30.6        | 34.1        | 38.2          | 41.7          | 45.7          | 49.8          | 57.8          | 64.9          | 72.4          | 75.9          | 83.4          | 90.9          | 105.2         | 120.2         |
| 4.24  | ---                       | ---         | ---         | ---         | ---         | ---         | 21.4          | 25.4          | 29.8          | 34.0          | 42.4          | 49.7          | 57.3          | 60.9          | 68.5          | 76.1          | 90.5          | 105.6         |
| 4.26  | ---                       | ---         | ---         | 16.5        | 19.5        | 23.4        | 27.7          | 31.4          | 35.6          | 39.7          | 47.9          | 55.0          | 62.6          | 66.2          | 73.7          | 81.3          | 95.6          | 110.7         |
| 4.28  | ---                       | ---         | ---         | ---         | ---         | ---         | ---           | ---           | 23.8          | 33.0          | 40.7          | 48.6          | 52.3          | 60.0          | 67.7          | 82.3          | 97.5          | ---           |
| 4.30  | 15.7                      | 19.5        | 22.7        | 24.8        | 27.4        | 31.0        | 35.1          | 38.6          | 42.7          | 46.8          | 54.8          | 61.9          | 69.4          | 73.0          | 80.5          | 88.0          | 102.3         | 117.3         |
| 4.35  | 18.6                      | 22.3        | 25.4        | 27.4        | 30.0        | 33.6        | 37.6          | 41.2          | 45.2          | 49.3          | 57.3          | 64.4          | 71.9          | 75.4          | 82.9          | 90.5          | 104.7         | 119.8         |
| 4.40  | ---                       | ---         | ---         | 16.7        | 19.6        | 23.5        | 27.8          | 31.5          | 35.7          | 39.8          | 48.0          | 55.2          | 62.8          | 66.3          | 73.9          | 81.4          | 95.8          | 110.9         |
| 4.46  | 13.6                      | 17.6        | 20.9        | 23.0        | 25.7        | 29.3        | 33.5          | 37.1          | 41.1          | 45.2          | 53.3          | 60.4          | 67.9          | 71.5          | 79.0          | 86.5          | 100.8         | 115.9         |
| 4.49  | ---                       | ---         | ---         | ---         | ---         | ---         | 21.6          | 25.6          | 30.0          | 34.3          | 42.7          | 49.9          | 57.6          | 61.2          | 68.8          | 76.4          | 90.8          | 105.9         |
| 4.51  | 15.8                      | 19.6        | 22.8        | 24.9        | 27.5        | 31.1        | 35.2          | 38.8          | 42.9          | 46.9          | 55.0          | 62.0          | 69.6          | 73.1          | 80.6          | 88.2          | 102.5         | 117.5         |
| 4.56  | ---                       | ---         | ---         | 16.8        | 19.7        | 23.6        | 27.9          | 31.6          | 35.8          | 40.0          | 48.2          | 55.3          | 62.9          | 66.5          | 74.0          | 81.6          | 95.9          | 111.0         |
| 4.67  | 13.7                      | 17.8        | 21.0        | 23.2        | 25.8        | 29.5        | 33.6          | 37.2          | 41.3          | 45.4          | 53.5          | 60.5          | 68.1          | 71.6          | 79.2          | 86.7          | 101.0         | 116.0         |
| 4.73  | ---                       | ---         | ---         | 16.9        | 19.8        | 23.7        | 28.1          | 31.8          | 36.0          | 40.1          | 48.3          | 55.4          | 63.1          | 66.6          | 74.2          | 81.7          | 96.1          | 111.2         |
| 4.74  | 15.9                      | 19.7        | 22.9        | 25.0        | 27.6        | 31.3        | 35.4          | 38.9          | 43.0          | 47.0          | 55.1          | 62.2          | 69.7          | 73.3          | 80.8          | 88.3          | 102.6         | 117.6         |
| 4.77  | ---                       | ---         | ---         | ---         | ---         | ---         | 21.8          | 25.9          | 30.3          | 34.6          | 43.0          | 50.2          | 57.9          | 61.5          | 69.1          | 76.7          | 91.1          | 106.2         |
| 4.89  | 13.8                      | 17.9        | 21.2        | 23.3        | 26.0        | 29.6        | 33.7          | 37.3          | 41.4          | 45.5          | 53.6          | 60.7          | 68.2          | 71.8          | 79.3          | 86.8          | 101.1         | 116.2         |
| 4.94  | ---                       | ---         | ---         | ---         | ---         | ---         | ---           | ---           | ---           | 24.5          | 33.8          | 41.4          | 49.4          | 53.1          | 60.8          | 68.6          | 83.1          | 98.3          |
| 4.99  | 16.0                      | 19.9        | 23.1        | 25.2        | 27.8        | 31.4        | 35.5          | 39.1          | 43.1          | 47.2          | 55.3          | 62.3          | 69.9          | 73.4          | 80.9          | 88.5          | 102.8         | 117.8         |
|       | <b>0.85</b>               | <b>0.88</b> | <b>0.89</b> | <b>0.90</b> | <b>0.92</b> | <b>0.95</b> | <b>0.98</b>   | <b>1.00</b>   | <b>1.02</b>   | <b>1.04</b>   | <b>1.08</b>   | <b>1.10</b>   | <b>1.13</b>   | <b>1.14</b>   | <b>1.16</b>   | <b>1.18</b>   | <b>1.22</b>   | <b>1.25</b>   |
| 5.09  | ---                       | ---         | ---         | ---         | ---         | ---         | 22.1          | 26.1          | 30.5          | 34.8          | 43.2          | 50.5          | 58.2          | 61.7          | 69.4          | 77.0          | 91.4          | 106.5         |
| 5.11  | 14.0                      | 18.0        | 21.3        | 17.1        | 20.1        | 24.0        | 28.3          | 32.0          | 36.2          | 40.4          | 48.6          | 55.7          | 63.3          | 66.9          | 74.5          | 82.0          | 96.4          | 111.4         |
| 5.14  | ---                       | ---         | ---         | 23.4        | 26.1        | 29.7        | 33.9          | 37.5          | 41.6          | 45.6          | 53.7          | 60.8          | 68.4          | 71.9          | 79.5          | 87.0          | 101.3         | 116.3         |
| 5.27  | ---                       | ---         | ---         | ---         | ---         | ---         | 22.2          | 26.2          | 30.6          | 34.9          | 43.4          | 50.6          | 58.3          | 61.9          | 69.5          | 77.1          | 91.5          | 106.7         |
| 5.36  | ---                       | ---         | ---         | ---         | ---         | ---         | ---           | ---           | ---           | 24.8          | 34.2          | 41.8          | 49.8          | 53.5          | 61.2          | 69.0          | 83.5          | 98.7          |
| 5.41  | 14.1                      | 18.1        | 21.4        | 23.6        | 26.2        | 29.9        | 34.0          | 37.6          | 41.7          | 45.8          | 53.9          | 61.0          | 68.5          | 72.1          | 79.6          | 87.1          | 101.4         | 116.5         |
| 5.46  | ---                       | ---         | ---         | ---         | ---         | ---         | 22.3          | 26.4          | 30.8          | 35.1          | 43.5          | 50.8          | 58.5          | 62.0          | 69.7          | 77.3          | 91.7          | 106.8         |
| 5.56  | ---                       | ---         | 14.8        | 17.4        | 20.3        | 24.2        | 28.6          | 32.3          | 36.5          | 40.6          | 48.9          | 56.0          | 63.6          | 67.2          | 74.8          | 82.3          | 96.7          | 111.7         |
| 5.66  | ---                       | ---         | ---         | ---         | ---         | ---         | 22.4          | 26.5          | 30.9          | 35.2          | 43.6          | 50.9          | 58.6          | 62.2          | 69.8          | 77.4          | 91.8          | 106.9         |
| 5.67  | ---                       | ---         | ---         | ---         | ---         | ---         | ---           | ---           | ---           | 25.1          | 34.4          | 42.1          | 50.1          | 53.7          | 61.5          | 69.2          | 83.8          | 99.0          |
|       | <b>0.78</b>               | <b>0.81</b> | <b>0.84</b> | <b>0.88</b> | <b>0.90</b> | <b>0.93</b> | <b>0.96</b>   | <b>0.99</b>   | <b>1.01</b>   | <b>1.03</b>   | <b>1.07</b>   | <b>1.10</b>   | <b>1.12</b>   | <b>1.14</b>   | <b>1.16</b>   | <b>1.18</b>   | <b>1.22</b>   | <b>1.25</b>   |
| 5.82  | ---                       | ---         | 14.9        | 17.5        | 20.4        | 24.4        | 28.7          | 32.4          | 36.6          | 40.8          | 49.0          | 56.2          | 63.8          | 67.3          | 74.9          | 82.5          | 96.8          | 111.9         |
| 6.03  | ---                       | ---         | ---         | ---         | ---         | ---         | ---           | ---           | ---           | 25.3          | 34.7          | 42.3          | 50.3          | 54.0          | 61.8          | 69.5          | 84.1          | 99.3          |
| 6.10  | ---                       | ---         | 15.1        | 17.6        | 20.6        | 24.5        | 28.8          | 32.6          | 36.8          | 40.9          | 49.1          | 56.3          | 63.9          | 67.5          | 75.0          | 82.6          | 97.0          | 112.0         |
| 6.12  | ---                       | ---         | ---         | ---         | ---         | 17.7        | 22.7          | 26.7          | 31.2          | 35.5          | 43.9          | 51.2          | 58.9          | 62.4          | 70.1          | 77.7          | 92.1          | 107.2         |
| 6.40  | ---                       | ---         | 15.2        | 17.7        | 20.7        | 24.6        | 29.0          | 32.7          | 36.9          | 41.1          | 49.3          | 56.4          | 64.1          | 67.6          | 75.2          | 82.8          | 97.1          | 112.2         |
| 6.44  | ---                       | ---         | ---         | ---         | ---         | ---         | ---           | ---           | ---           | 25.5          | 34.9          | 42.6          | 50.6          | 54.3          | 62.1          | 69.8          | 84.4          | 99.6          |
| 6.66  | ---                       | ---         | ---         | ---         | ---         | 17.9        | 22.9          | 27.0          | 31.4          | 35.7          | 44.2          | 51.4          | 59.1          | 62.7          | 70.4          | 78.0          | 92.4          | 107.5         |
| 6.74  | ---                       | ---         | 15.3        | 17.8        | 20.8        | 24.7        | 29.1          | 32.8          | 37.0          | 41.2          | 49.4          | 56.6          | 64.2          | 67.7          | 75.3          | 82.9          | 97.3          | 112.3         |
| 6.90  | ---                       | ---         | ---         | ---         | ---         | ---         | ---           | ---           | ---           | 25.8          | 35.2          | 42.8          | 50.8          | 54.5          | 62.3          | 70.1          | 84.6          | 99.9          |
| 6.96  | ---                       | ---         | ---         | ---         | ---         | 18.0        | 23.0          | 27.1          | 31.5          | 35.9          | 44.3          | 51.6          | 59.3          | 62.9          | 70.5          | 78.1          | 92.5          | 107.7         |
|       | ---                       | ---         | <b>0.70</b> | <b>0.75</b> | <b>0.81</b> | <b>0.87</b> | <b>0.91</b>   | <b>0.95</b>   | <b>0.98</b>   | <b>1.00</b>   | <b>1.05</b>   | <b>1.08</b>   | <b>1.11</b>   | <b>1.12</b>   | <b>1.15</b>   | <b>1.17</b>   | <b>1.21</b>   | <b>1.24</b>   |
| 7.16  | ---                       | ---         | ---         | ---         | ---         | ---         | ---           | ---           | ---           | 25.9          | 35.3          | 43.0          | 51.0          | 54.7          | 62.5          | 70.2          | 84.8          | 100.0         |
| 7.30  | ---                       | ---         | ---         | ---         | ---         | 18.1        | 23.2          | 27.2          | 31.7          | 36.0          | 44.4          | 51.7          | 59.4          | 63.0          | 70.7          | 78.3          | 92.7          | 107.8         |
| 7.67  | ---                       | ---         | ---         | ---         | ---         | 18.3        | 23.3          | 27.3          | 31.8          | 36.1          | 44.6          | 51.8          | 59.6          | 63.1          | 70.8          | 78.4          | 92.8          | 108.0         |
| 7.73  | ---                       | ---         | ---         | ---         | ---         | ---         | ---           | ---           | ---           | 26.1          | 35.5          | 43.2          | 51.2          | 54.9          | 62.7          | 70.5          | 85.1          | 100.3         |
| 8.07  | ---                       | ---         | ---         | ---         | ---         | 18.4        | 23.4          | 27.5          | 31.9          | 36.2          | 44.7          | 52.0          | 59.7          | 63.3          | 70.9          | 78.6          | 93.0          | 108.1         |
| 8.41  | ---                       | ---         | ---         | ---         | ---         | ---         | ---           | ---           | ---           | 26.4          | 35.8          | 43.5          | 51.5          | 55.2          | 63.0          | 70.8          | 85.3          | 100.6         |
| 8.80  | ---                       | ---         | ---         | ---         | ---         | ---         | ---           | ---           | 21.1          | 26.5          | 35.9          | 43.6          | 51.6          | 55.3          | 63.1          | 70.9          | 85.5          | 100.7         |
| 9.22  | ---                       | ---         | ---         | ---         | ---         | ---         | ---           | ---           | 21.2          | 26.6          | 36.0          | 43.7          | 51.8          | 55.5          | 63.3          | 71.0          | 85.6          | 100.9         |
| 9.69  | ---                       | ---         | ---         | ---         | ---         | ---         | ---           | ---           | 21.3          | 26.7          | 36.2          | 43.9          | 51.9          | 55.6          | 63.4          | 71.2          | 85.8          | 101.0         |
| 10.20 | ---                       | ---         | ---         | ---         | ---         | ---         | ---           | ---           | 21.4          | 26.8          | 36.3          | 44.0          | 52.0          | 55.7          | 63.5          | 71.3          | 85.9          | 101.2         |
|       | ---                       | ---         | ---         | ---         | ---         | <b>0.77</b> | <b>0.82</b>   | <b>0.88</b>   | <b>0.92</b>   | <b>0.96</b>   | <b>1.02</b>   | <b>1.05</b>   | <b>1.09</b>   | <b>1.10</b>   | <b>1.13</b>   | <b>1.15</b>   | <b>1.19</b>   | <b>1.23</b>   |

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets



# SELECTION



## C S-L CLASSIC CX CLASSIC COG STOCK DRIVE SELECTIONS

| Ratio                            | Stock Shv.  |        | 1750 RPM Driver |             |       | 1160 RPM Driver |             |       | 870 RPM Driver |             |       | Belt Size/Center Distance |      |      |      |      |      |      |      |       |      |
|----------------------------------|-------------|--------|-----------------|-------------|-------|-----------------|-------------|-------|----------------|-------------|-------|---------------------------|------|------|------|------|------|------|------|-------|------|
|                                  | Datum Diam. |        | Driven RPM      | HP Per Belt |       | Driven RPM      | HP Per Belt |       | Driven RPM     | HP Per Belt |       | C51                       | C60  | C68  | C75  | C81  | C85  | C90  | C96  | C105  |      |
|                                  | Driver      | Driven |                 | C           | CX    |                 | C           | CX    |                | C           | CX    | CX51                      | CX60 | CX68 | CX75 | CX81 | CX85 | CX90 | CX96 | CX105 |      |
| 1.00                             | 7.0         | 7.0    | 1750            | 12.09       | 18.97 | 1160            | 9.69        | 14.22 | 870            | 7.98        | 11.39 | 16.0                      | 20.5 | 24.5 | 28.0 | 31.0 | 33.0 | 35.5 | 38.5 | 43.0  |      |
| 1.00                             | 7.5         | 7.5    | 1750            | 14.00       | 20.59 | 1160            | 11.17       | 15.48 | 870            | 9.16        | 12.40 | 15.2                      | 19.7 | 23.7 | 27.2 | 30.2 | 32.2 | 34.7 | 37.7 | 42.2  |      |
| 1.00                             | 8.0         | 8.0    | 1750            | 15.84       | 22.15 | 1160            | 12.62       | 16.71 | 870            | 10.33       | 13.40 | 14.4                      | 18.9 | 22.9 | 26.4 | 29.4 | 31.4 | 33.9 | 36.9 | 41.4  |      |
| 1.00                             | 8.5         | 8.5    | 1750            | 17.62       | 23.65 | 1160            | 14.05       | 17.93 | 870            | 11.48       | 14.39 | 13.6                      | 18.1 | 22.1 | 25.6 | 28.6 | 30.6 | 33.1 | 36.1 | 40.6  |      |
| 1.00                             | 9.0         | 9.0    | 1750            | 19.32       | 25.09 | 1160            | 15.45       | 19.11 | 870            | 12.62       | 15.36 | 12.8                      | 17.3 | 21.3 | 24.8 | 27.8 | 29.8 | 32.3 | 35.3 | 39.8  |      |
| 1.00                             | 9.5         | 9.5    | 1750            | 20.94       | 26.47 | 1160            | 16.82       | 20.28 | 870            | 13.74       | 16.32 | 12.0                      | 16.5 | 20.5 | 24.0 | 27.0 | 29.0 | 31.5 | 34.5 | 39.0  |      |
| 1.00                             | 10.0        | 10.0   | 1750            | 22.49       | 27.78 | 1160            | 18.17       | 21.42 | 870            | 14.85       | 17.26 | 11.3                      | 15.8 | 19.7 | 23.3 | 26.3 | 28.3 | 30.8 | 33.8 | 38.3  |      |
| 1.00                             | 10.5        | 10.5   | 1750            | 23.96       | 29.02 | 1160            | 19.49       | 22.54 | 870            | 15.95       | 18.20 | ---                       | 15.0 | 19.0 | 22.5 | 25.5 | 27.5 | 30.0 | 33.0 | 37.5  |      |
| 1.00                             | 11.0        | 11.0   | 1750            | 25.35       | 30.20 | 1160            | 20.78       | 23.63 | 870            | 17.03       | 19.12 | ---                       | 14.2 | 18.2 | 21.7 | 24.7 | 26.7 | 29.2 | 32.2 | 36.7  |      |
| 1.00                             | 12.0        | 12.0   | 1750            | 27.86       | 32.34 | 1160            | 23.27       | 25.74 | 870            | 19.15       | 20.92 | ---                       | 12.6 | 16.6 | 20.1 | 23.1 | 25.1 | 27.6 | 30.6 | 35.1  |      |
| 1.00                             | 13.0        | 13.0   | 1750            | 30.00       | 34.18 | 1160            | 25.64       | 27.75 | 870            | 21.21       | 22.66 | ---                       | ---  | 15.0 | 18.5 | 21.5 | 23.5 | 26.0 | 29.0 | 33.5  |      |
| 1.00                             | 14.0        | 14.0   | 1750            | 31.76       | 35.70 | 1160            | 27.88       | 29.64 | 870            | 23.20       | 24.36 | ---                       | ---  | ---  | 17.0 | 20.0 | 22.0 | 24.5 | 27.5 | 32.0  |      |
| 1.00                             | 16.0        | 16.0   | 1750            | ---         | ---   | 1160            | 31.96       | 33.10 | 870            | 27.00       | 27.57 | ---                       | ---  | ---  | ---  | 16.8 | 18.8 | 21.3 | 24.3 | 28.8  |      |
| 1.05                             | 10.5        | 11.0   | 1673            | 24.35       | 29.41 | 1109            | 19.74       | 22.79 | 832            | 16.14       | 18.39 | ---                       | 14.6 | 18.6 | 22.1 | 25.1 | 27.1 | 29.6 | 32.6 | 37.1  |      |
| 1.05                             | 10.0        | 10.5   | 1670            | 22.89       | 28.18 | 1107            | 18.44       | 21.69 | 830            | 15.05       | 17.45 | 10.9                      | 15.4 | 19.4 | 22.9 | 25.9 | 27.9 | 30.4 | 33.4 | 37.9  |      |
| 1.05                             | 9.5         | 10.0   | 1666            | 21.36       | 26.88 | 1104            | 17.10       | 20.56 | 828            | 13.95       | 16.53 | 11.6                      | 16.1 | 20.1 | 23.6 | 26.6 | 28.6 | 31.1 | 34.1 | 38.6  |      |
| 1.05                             | 9.0         | 9.5    | 1662            | 19.75       | 25.53 | 1101            | 15.74       | 19.40 | 826            | 12.83       | 15.58 | 12.4                      | 16.9 | 20.9 | 24.4 | 27.4 | 29.4 | 31.9 | 34.9 | 39.4  |      |
| 1.06                             | 8.5         | 9.0    | 1657            | 18.07       | 24.11 | 1098            | 14.36       | 18.23 | 824            | 11.71       | 14.61 | 13.2                      | 17.7 | 21.7 | 25.2 | 28.2 | 30.2 | 32.7 | 35.7 | 40.2  |      |
| 1.06                             | 8.0         | 8.5    | 1652            | 16.32       | 22.63 | 1095            | 12.94       | 17.03 | 821            | 10.57       | 13.64 | 14.0                      | 18.5 | 22.5 | 26.0 | 29.0 | 31.0 | 33.5 | 36.5 | 41.0  |      |
| 1.06                             | 7.5         | 8.0    | 1646            | 14.51       | 21.10 | 1091            | 11.51       | 15.81 | 818            | 9.41        | 12.65 | 14.8                      | 19.3 | 23.3 | 26.8 | 29.8 | 31.8 | 34.3 | 37.3 | 41.8  |      |
| 1.07                             | 7.0         | 7.5    | 1639            | 12.62       | 19.51 | 1087            | 10.05       | 14.57 | 815            | 8.24        | 11.65 | 15.6                      | 20.1 | 24.1 | 27.6 | 30.6 | 32.6 | 35.1 | 38.1 | 42.6  |      |
| 1.07                             | 13.0        | 14.0   | 1628            | 30.50       | 34.76 | 1079            | 26.03       | 28.13 | 810            | 21.50       | 22.95 | ---                       | ---  | 14.2 | 17.7 | 20.7 | 22.7 | 25.3 | 28.3 | 32.8  |      |
| 1.08                             | 12.0        | 13.0   | 1619            | 28.48       | 32.96 | 1073            | 23.68       | 26.15 | 805            | 19.46       | 21.23 | ---                       | ---  | 15.8 | 19.3 | 22.3 | 24.3 | 26.8 | 29.8 | 34.3  |      |
| 1.09                             | 11.0        | 12.0   | 1609            | 26.01       | 30.86 | 1066            | 21.22       | 24.07 | 800            | 17.36       | 19.45 | ---                       | ---  | 13.4 | 17.4 | 20.9 | 23.9 | 25.9 | 28.4 | 31.4  | 35.9 |
| 1.10                             | 10.0        | 11.0   | 1596            | 23.21       | 28.49 | 1058            | 18.65       | 21.90 | 794            | 15.21       | 17.62 | ---                       | ---  | 15.0 | 19.0 | 22.5 | 25.5 | 30.0 | 33.0 | 37.5  |      |
| ARC-LENGTH CORRECTION FACTOR --> |             |        |                 |             |       |                 |             |       |                |             |       | 0.77                      | 0.81 | 0.83 | 0.85 | 0.87 | 0.88 | 0.89 | 0.91 | 0.93  |      |
| 1.10                             | 9.5         | 10.5   | 1589            | 21.69       | 27.21 | 1054            | 17.32       | 20.77 | 790            | 14.11       | 16.69 | 11.2                      | 15.7 | 19.7 | 23.2 | 26.2 | 28.2 | 30.7 | 33.7 | 38.2  |      |
| 1.11                             | 9.0         | 10.0   | 1582            | 20.09       | 25.86 | 1048            | 15.96       | 19.63 | 786            | 13.00       | 15.74 | 12.0                      | 16.5 | 20.5 | 24.0 | 27.0 | 29.0 | 31.5 | 34.5 | 39.0  |      |
| 1.11                             | 8.5         | 9.5    | 1573            | 18.42       | 24.46 | 1043            | 14.58       | 18.46 | 782            | 11.88       | 14.79 | 12.8                      | 17.3 | 21.3 | 24.8 | 27.8 | 29.8 | 32.3 | 35.3 | 39.8  |      |
| 1.12                             | 8.0         | 9.0    | 1564            | 16.66       | 22.99 | 1037            | 13.18       | 17.27 | 777            | 10.74       | 13.82 | 13.6                      | 18.1 | 22.1 | 25.6 | 28.6 | 30.6 | 33.1 | 36.1 | 40.6  |      |
| 1.12                             | 16.0        | 18.0   | 1560            | ---         | ---   | 1034            | 32.53       | 33.67 | 775            | 27.43       | 28.00 | ---                       | ---  | ---  | ---  | ---  | 17.2 | 19.7 | 22.7 | 27.2  |      |
| 1.13                             | 7.5         | 8.5    | 1553            | 14.86       | 21.47 | 1030            | 11.75       | 16.06 | 772            | 9.59        | 12.84 | 14.4                      | 18.9 | 22.9 | 26.4 | 29.4 | 31.4 | 33.9 | 36.9 | 41.4  |      |
| 1.14                             | 7.0         | 8.0    | 1542            | 13.01       | 19.89 | 1022            | 10.30       | 14.83 | 766            | 8.43        | 11.84 | 15.2                      | 19.7 | 23.7 | 27.2 | 30.2 | 32.2 | 34.7 | 37.7 | 42.2  |      |
| 1.14                             | 10.5        | 12.0   | 1538            | 24.89       | 29.96 | 1020            | 20.11       | 23.16 | 765            | 16.41       | 18.66 | ---                       | 13.8 | 17.8 | 21.3 | 24.3 | 26.3 | 28.8 | 31.8 | 36.3  |      |
| 1.14                             | 14.0        | 16.0   | 1537            | 32.70       | 36.64 | 1019            | 28.51       | 30.26 | 764            | 23.67       | 24.82 | ---                       | ---  | ---  | 15.4 | 18.4 | 20.4 | 22.9 | 25.9 | 30.4  |      |
| 1.15                             | 9.5         | 11.0   | 1520            | 21.94       | 27.46 | 1007            | 17.49       | 20.94 | 756            | 14.24       | 16.81 | 10.8                      | 15.3 | 19.3 | 22.8 | 25.8 | 27.8 | 30.3 | 33.3 | 37.9  |      |
| 1.16                             | 9.0         | 10.5   | 1509            | 20.35       | 26.12 | 1000            | 16.13       | 19.80 | 750            | 13.13       | 15.87 | 11.6                      | 16.1 | 20.1 | 23.6 | 26.6 | 28.6 | 31.1 | 34.1 | 38.6  |      |
| 1.16                             | 12.0        | 14.0   | 1507            | 28.90       | 33.38 | 999             | 23.96       | 26.43 | 749            | 19.66       | 21.43 | ---                       | ---  | 15.0 | 18.5 | 21.5 | 23.5 | 26.0 | 29.0 | 33.5  |      |
| 1.17                             | 8.5         | 10.0   | 1498            | 18.68       | 24.72 | 993             | 14.76       | 18.63 | 745            | 12.01       | 14.92 | 12.4                      | 16.9 | 20.9 | 24.4 | 27.4 | 29.4 | 31.9 | 34.9 | 39.4  |      |
| 1.18                             | 11.0        | 13.0   | 1489            | 26.44       | 31.30 | 987             | 21.51       | 24.36 | 740            | 17.57       | 19.66 | ---                       | 12.6 | 16.6 | 20.1 | 23.1 | 25.1 | 27.6 | 30.6 | 35.1  |      |
| 1.18                             | 8.0         | 9.5    | 1486            | 16.95       | 23.26 | 984             | 13.36       | 17.45 | 738            | 10.88       | 13.95 | 13.2                      | 17.7 | 21.7 | 25.2 | 28.2 | 30.2 | 32.7 | 35.7 | 40.2  |      |
| 1.19                             | 7.5         | 9.0    | 1471            | 15.15       | 21.74 | 975             | 11.93       | 16.24 | 731            | 9.73        | 12.97 | 14.0                      | 18.5 | 22.5 | 26.0 | 29.0 | 31.0 | 33.5 | 36.5 | 41.0  |      |
| 1.19                             | 10.0        | 12.0   | 1468            | 23.65       | 28.94 | 973             | 18.94       | 22.19 | 730            | 15.43       | 17.84 | ---                       | 14.1 | 18.2 | 21.7 | 24.7 | 26.7 | 29.2 | 32.2 | 36.7  |      |
| 1.20                             | 7.0         | 8.5    | 1455            | 13.28       | 20.17 | 964             | 10.49       | 15.01 | 723            | 8.57        | 11.98 | 14.8                      | 18.3 | 22.3 | 26.8 | 29.8 | 31.8 | 34.3 | 37.3 | 41.8  |      |
| 1.21                             | 9.0         | 11.0   | 1443            | 20.65       | 26.32 | 956             | 16.27       | 19.93 | 717            | 13.23       | 15.97 | 11.2                      | 15.7 | 19.7 | 23.2 | 26.2 | 28.2 | 30.7 | 33.7 | 38.2  |      |
| 1.22                             | 13.0        | 16.0   | 1430            | 31.27       | 35.45 | 948             | 26.48       | 28.58 | 711            | 21.84       | 23.29 | ---                       | ---  | ---  | 16.1 | 19.1 | 21.1 | 23.6 | 26.6 | 31.1  |      |
| 1.22                             | 8.5         | 10.5   | 1429            | 18.89       | 24.92 | 947             | 14.89       | 18.77 | 710            | 12.11       | 15.02 | 12.0                      | 16.5 | 20.5 | 24.0 | 27.0 | 29.0 | 31.5 | 34.5 | 39.0  |      |
| 1.23                             | 10.5        | 13.0   | 1424            | 25.24       | 30.31 | 944             | 20.34       | 23.39 | 708            | 16.59       | 18.84 | ---                       | 12.9 | 17.0 | 20.5 | 23.5 | 25.5 | 28.0 | 31.0 | 35.5  |      |
| 1.24                             | 8.0         | 10.0   | 1413            | 17.15       | 23.48 | 937             | 13.49       | 17.58 | 703            | 10.98       | 14.05 | 12.8                      | 17.3 | 21.3 | 24.8 | 27.8 | 29.8 | 32.3 | 35.3 | 39.8  |      |
| 1.24                             | 16.0        | 20.0   | 1407            | ---         | ---   | 933             | 32.84       | 33.98 | 699            | 27.66       | 28.23 | ---                       | ---  | ---  | ---  | ---  | ---  | 18.1 | 21.1 | 25.6  |      |
| 1.25                             | 9.5         | 12.0   | 1397            | 22.29       | 27.82 | 926             | 17.72       | 21.18 | 695            | 14.41       | 16.99 | ---                       | 14.5 | 18.5 | 22.0 | 25.0 | 27.0 | 29.5 | 32.5 | 37.1  |      |
| 1.25                             | 7.5         | 9.5    | 1396            | 15.35       | 21.94 | 926             | 12.07       | 16.37 | 694            | 9.83        | 13.07 | 13.6                      | 18.1 | 22.1 | 25.6 | 28.6 | 30.6 | 33.1 | 36.1 | 40.6  |      |
| 1.26                             | 11.0        | 14.0   | 1385            | 26.73       | 31.58 | 918             | 21.69       | 24.55 | 689            | 17.72       | 19.80 | ---                       | ---  | 15.8 | 19.3 | 22.3 | 24.3 | 26.8 | 29.8 | 34.3  |      |
| 1.27                             | 7.0         | 9.0    | 1378            | 13.48       | 20.37 | 913             | 10.62       | 15.14 | 685            | 8.67        | 12.08 | 14.4                      | 18.9 | 22.9 | 26.4 | 29.4 | 31.4 | 33.9 | 36.9 | 41.4  |      |
| 1.28                             | 14.0        | 18.0   | 1370            | 33.18       | 37.12 | 908             | 28.82       | 30.58 | 681            | 23.91       | 25.06 | ---                       | ---  | ---  | ---  | 16.7 | 18.7 | 21.2 | 24.2 | 28.8  |      |
| 1.28                             | 8.5         | 11.0   | 1366            | 19.04       | 25.07 | 906             | 14.99       | 18.87 | 679            | 12.19       | 15.09 | 11.6                      | 16.1 | 20.1 | 23.6 | 26.6 | 28.6 | 31.1 | 34.1 | 38.6  |      |
| 1.29                             | 10.0        | 13.0   | 1358            | 23.93       | 29.22 | 900             | 19.13       | 22.38 | 675            | 15.57       | 17.98 | ---                       | 13.3 | 17.3 | 20.8 | 23.8 | 25.9 | 28.4 | 31.4 | 35.9  |      |
| 1.30                             | 8.0         | 10.5   | 1349            | 17.31       | 23.61 | 894             | 13.59       | 17.68 | 670            | 11.05       | 14.13 | 12.4                      | 16.9 | 20.9 | 24.4 | 27.4 | 29.4 | 31.9 | 34.9 | 39.4  |      |
| 1.32                             | 7.5         | 10.0   | 1329            | 15.50       | 22.09 | 881             | 12.17       | 16.47 | 661            | 9.91        | 13.15 | 13.2                      | 17.7 | 21.7 | 25.2 | 28.2 | 30.2 | 32.7 | 35.7 | 40.2  |      |
| 1.32                             | 9.0         | 12.0   | 1327            | 20.83       | 26.60 | 879             | 16.45       | 20.12 | 660            | 13.37       | 16.11 | ---                       | 14.9 | 18.9 | 22.4 | 25.4 | 27.4 | 29.9 | 32.9 | 37.4  |      |
| 1.32                             | 10.5        | 14.0   | 1325            | 25.47       | 30.54 | 878             | 20.49       | 23.54 | 659            | 16.70       | 18.95 | ---                       | ---  | 16.1 | 19.6 | 22.6 | 24.7 | 27.2 | 30.2 | 34.7  |      |
| 1.32                             | 12.0        | 16.0   | 1323            | 29.37       | 3     |                 |             |       |                |             |       |                           |      |      |      |      |      |      |      |       |      |

# SELECTION



|   |             |    |             |                        |
|---|-------------|----|-------------|------------------------|
| C | S-L CLASSIC | CX | CLASSIC COG | STOCK DRIVE SELECTIONS |
|---|-------------|----|-------------|------------------------|

| Ratio       | Belt Size/Center Distance |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |
|-------------|---------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|             | C112<br>CX112             | C120<br>CX120 | C128<br>CX128 | C136<br>CX136 | C144<br>CX144 | C158<br>CX158 | C162<br>CX162 | C173<br>CX173 | C180<br>CX180 | C195<br>CX195 | C210<br>CX210 | C240<br>CX240 | C270<br>CX270 | C300<br>CX300 | C330<br>CX330 | C360<br>CX360 | C390<br>CX390 | C420<br>CX420 |
| 1.00        | 46.5                      | 50.5          | 54.5          | 58.5          | 62.5          | 69.5          | 71.5          | 77.0          | 80.5          | 88.0          | 95.5          | 109.5         | 124.5         | 139.5         | 154.5         | 169.5         | 184.5         | 199.5         |
| 1.00        | 45.7                      | 49.7          | 53.7          | 57.7          | 61.7          | 68.7          | 70.7          | 76.2          | 79.7          | 87.2          | 94.7          | 108.7         | 123.7         | 138.7         | 153.7         | 168.7         | 183.7         | 198.7         |
| 1.00        | 44.9                      | 48.9          | 52.9          | 56.9          | 60.9          | 67.9          | 69.9          | 75.4          | 78.9          | 86.4          | 93.9          | 107.9         | 122.9         | 137.9         | 152.9         | 167.9         | 182.9         | 197.9         |
| 1.00        | 44.1                      | 48.1          | 52.1          | 56.1          | 60.1          | 67.1          | 69.1          | 74.6          | 78.1          | 85.6          | 93.1          | 107.1         | 122.1         | 137.1         | 152.1         | 167.1         | 182.1         | 197.1         |
| 1.00        | 43.3                      | 47.3          | 51.3          | 55.3          | 59.3          | 66.3          | 68.3          | 73.8          | 77.3          | 84.8          | 92.3          | 106.3         | 121.3         | 136.3         | 151.3         | 166.3         | 181.3         | 196.3         |
| 1.00        | 42.5                      | 46.5          | 50.5          | 54.5          | 58.5          | 65.5          | 67.5          | 73.0          | 76.5          | 84.0          | 91.5          | 105.5         | 120.5         | 135.5         | 150.5         | 165.5         | 180.5         | 195.5         |
| 1.00        | 41.8                      | 45.8          | 49.7          | 53.7          | 57.7          | 64.8          | 66.8          | 72.3          | 75.8          | 83.3          | 90.8          | 104.8         | 119.7         | 134.8         | 149.7         | 164.8         | 179.8         | 194.7         |
| 1.00        | 41.0                      | 45.0          | 49.0          | 53.0          | 57.0          | 64.0          | 66.0          | 71.5          | 75.0          | 82.5          | 90.0          | 104.0         | 119.0         | 134.0         | 149.0         | 164.0         | 179.0         | 194.0         |
| 1.00        | 40.2                      | 44.2          | 48.2          | 52.2          | 56.2          | 63.2          | 65.2          | 70.7          | 74.2          | 81.7          | 89.2          | 103.2         | 118.2         | 133.2         | 148.2         | 163.2         | 178.2         | 193.2         |
| 1.00        | 38.6                      | 42.6          | 46.6          | 50.6          | 54.6          | 61.6          | 63.6          | 69.1          | 72.6          | 80.1          | 87.6          | 101.6         | 116.6         | 131.6         | 146.6         | 161.6         | 176.6         | 191.6         |
| 1.00        | 37.0                      | 41.0          | 45.0          | 49.0          | 53.0          | 60.0          | 62.0          | 67.5          | 71.0          | 78.5          | 86.0          | 100.0         | 115.0         | 130.0         | 145.0         | 160.0         | 175.0         | 190.0         |
| 1.00        | 35.5                      | 39.5          | 43.5          | 47.5          | 51.5          | 58.5          | 60.5          | 66.0          | 69.5          | 77.0          | 84.5          | 98.5          | 113.5         | 128.5         | 143.5         | 158.5         | 173.5         | 188.5         |
| 1.00        | 32.3                      | 35.3          | 40.3          | 44.3          | 48.3          | 55.3          | 57.3          | 62.8          | 66.3          | 73.8          | 81.3          | 95.3          | 110.3         | 125.3         | 140.3         | 155.3         | 170.3         | 185.3         |
| 1.05        | 40.6                      | 44.6          | 48.6          | 52.6          | 56.6          | 63.6          | 65.6          | 71.1          | 74.6          | 82.1          | 89.6          | 103.6         | 118.6         | 133.6         | 148.6         | 163.6         | 178.6         | 193.6         |
| 1.05        | 41.4                      | 45.4          | 49.4          | 53.4          | 57.4          | 64.4          | 66.4          | 71.9          | 75.4          | 82.9          | 90.4          | 104.4         | 119.4         | 134.4         | 149.4         | 164.4         | 179.4         | 194.4         |
| 1.05        | 42.1                      | 46.1          | 50.1          | 54.1          | 58.1          | 65.1          | 67.1          | 72.6          | 76.1          | 83.6          | 91.1          | 105.1         | 120.1         | 135.1         | 150.1         | 165.1         | 180.1         | 195.1         |
| 1.05        | 42.9                      | 46.9          | 50.9          | 54.9          | 58.9          | 65.9          | 67.9          | 73.4          | 76.9          | 84.4          | 91.9          | 105.9         | 120.9         | 135.9         | 150.9         | 165.9         | 180.9         | 195.9         |
| 1.06        | 43.7                      | 47.7          | 51.7          | 55.7          | 59.7          | 66.7          | 68.7          | 74.2          | 77.7          | 85.2          | 92.7          | 106.7         | 121.7         | 136.7         | 151.7         | 166.7         | 181.7         | 196.7         |
| 1.06        | 44.5                      | 48.5          | 52.5          | 56.5          | 60.5          | 67.5          | 69.5          | 75.0          | 78.5          | 86.0          | 93.5          | 107.5         | 122.5         | 137.5         | 152.5         | 167.5         | 182.5         | 197.5         |
| 1.06        | 45.3                      | 49.3          | 53.3          | 57.3          | 61.3          | 68.3          | 70.3          | 75.8          | 79.3          | 86.8          | 94.3          | 108.3         | 123.3         | 138.3         | 153.3         | 168.3         | 183.3         | 198.3         |
| 1.07        | 48.1                      | 50.1          | 54.1          | 58.1          | 62.1          | 69.1          | 71.1          | 76.6          | 80.1          | 87.6          | 95.1          | 109.1         | 124.1         | 139.1         | 154.1         | 169.1         | 184.1         | 199.1         |
| 1.07        | 36.3                      | 40.3          | 44.3          | 48.3          | 52.3          | 59.3          | 61.3          | 66.8          | 70.3          | 77.8          | 85.3          | 99.3          | 114.3         | 129.3         | 144.3         | 159.3         | 174.3         | 189.3         |
| 1.08        | 37.8                      | 41.8          | 45.8          | 49.8          | 53.8          | 60.8          | 62.8          | 68.3          | 71.8          | 79.3          | 86.8          | 100.8         | 115.8         | 130.8         | 145.8         | 160.8         | 175.8         | 190.8         |
| 1.09        | 39.4                      | 43.4          | 47.4          | 51.4          | 55.4          | 62.4          | 64.4          | 69.9          | 73.4          | 80.9          | 88.4          | 102.4         | 117.4         | 132.4         | 147.4         | 162.4         | 177.4         | 192.4         |
| 1.10        | 41.0                      | 45.0          | 49.0          | 53.0          | 57.0          | 64.0          | 66.0          | 71.5          | 75.0          | 82.5          | 90.0          | 104.0         | 119.0         | 134.0         | 149.0         | 164.0         | 179.0         | 194.0         |
| <b>0.94</b> | <b>0.96</b>               | <b>0.97</b>   | <b>0.99</b>   | <b>1.00</b>   | <b>1.02</b>   | <b>1.03</b>   | <b>1.04</b>   | <b>1.05</b>   | <b>1.07</b>   | <b>1.08</b>   | <b>1.11</b>   | <b>1.14</b>   | <b>1.16</b>   | <b>1.18</b>   | <b>1.20</b>   | <b>1.22</b>   | <b>1.24</b>   | <b>1.24</b>   |
| 1.10        | 41.7                      | 45.7          | 49.7          | 53.7          | 57.7          | 64.7          | 66.7          | 72.2          | 75.7          | 83.2          | 90.7          | 104.7         | 119.7         | 134.7         | 149.7         | 164.7         | 179.7         | 194.7         |
| 1.11        | 42.5                      | 46.5          | 50.5          | 54.5          | 58.5          | 65.5          | 67.5          | 73.0          | 76.5          | 84.0          | 91.5          | 105.5         | 120.5         | 135.5         | 150.5         | 165.5         | 180.5         | 195.5         |
| 1.11        | 43.3                      | 47.3          | 51.3          | 55.3          | 59.3          | 66.3          | 68.3          | 73.8          | 77.3          | 84.8          | 92.3          | 106.3         | 121.3         | 136.3         | 151.3         | 166.3         | 181.3         | 196.3         |
| 1.12        | 44.1                      | 48.1          | 52.1          | 56.1          | 60.1          | 67.1          | 69.1          | 74.6          | 78.1          | 85.6          | 93.1          | 107.1         | 122.1         | 137.1         | 152.1         | 167.1         | 182.1         | 197.1         |
| 1.12        | 30.7                      | 34.7          | 38.7          | 42.7          | 46.7          | 53.8          | 55.8          | 61.3          | 64.8          | 72.3          | 79.8          | 93.8          | 108.8         | 123.8         | 138.8         | 153.8         | 168.8         | 183.8         |
| 1.13        | 44.9                      | 48.9          | 52.9          | 56.9          | 60.9          | 67.9          | 69.9          | 75.4          | 78.9          | 86.4          | 93.9          | 107.9         | 122.9         | 137.9         | 152.9         | 167.9         | 182.9         | 197.9         |
| 1.14        | 45.7                      | 49.7          | 53.7          | 57.7          | 61.7          | 68.7          | 70.7          | 76.2          | 79.7          | 87.2          | 94.7          | 108.7         | 123.7         | 138.7         | 153.7         | 168.7         | 183.7         | 198.7         |
| 1.14        | 39.8                      | 43.8          | 47.8          | 51.8          | 55.8          | 62.8          | 64.8          | 70.3          | 73.8          | 81.3          | 88.8          | 102.8         | 117.8         | 132.8         | 147.8         | 162.8         | 177.8         | 192.8         |
| 1.14        | 33.9                      | 37.9          | 41.9          | 45.9          | 49.9          | 56.9          | 58.9          | 64.4          | 67.9          | 75.4          | 82.9          | 96.9          | 111.9         | 126.9         | 141.9         | 156.9         | 171.9         | 186.9         |
| 1.15        | 41.4                      | 45.4          | 49.4          | 53.4          | 57.4          | 64.4          | 66.4          | 71.9          | 75.4          | 82.9          | 90.4          | 104.4         | 119.4         | 134.4         | 149.4         | 164.4         | 179.4         | 194.4         |
| 1.16        | 42.1                      | 46.1          | 50.1          | 54.1          | 58.1          | 65.1          | 67.1          | 72.6          | 76.1          | 83.6          | 91.1          | 105.1         | 120.1         | 135.1         | 150.1         | 165.1         | 180.1         | 195.1         |
| 1.16        | 37.0                      | 41.0          | 45.0          | 49.0          | 53.0          | 60.0          | 62.0          | 67.5          | 71.0          | 78.5          | 86.0          | 100.0         | 115.0         | 130.0         | 145.0         | 160.0         | 175.0         | 190.0         |
| 1.17        | 42.9                      | 46.9          | 50.9          | 54.9          | 58.9          | 65.9          | 67.9          | 73.4          | 76.9          | 84.4          | 91.9          | 105.9         | 120.9         | 135.9         | 150.9         | 165.9         | 180.9         | 195.9         |
| 1.18        | 38.6                      | 42.6          | 46.6          | 50.6          | 54.6          | 61.6          | 63.6          | 69.1          | 72.6          | 80.1          | 87.6          | 101.6         | 116.6         | 131.6         | 146.6         | 161.6         | 176.6         | 191.6         |
| 1.18        | 43.7                      | 47.7          | 51.7          | 55.7          | 59.7          | 66.7          | 68.7          | 74.2          | 77.7          | 85.2          | 92.7          | 106.7         | 121.7         | 136.7         | 151.7         | 166.7         | 181.7         | 196.7         |
| 1.19        | 44.5                      | 48.5          | 52.5          | 56.5          | 60.5          | 67.5          | 69.5          | 75.0          | 78.5          | 86.0          | 93.5          | 107.5         | 122.5         | 137.5         | 152.5         | 167.5         | 182.5         | 197.5         |
| 1.19        | 40.2                      | 44.2          | 48.2          | 52.2          | 56.2          | 63.2          | 65.2          | 70.7          | 74.2          | 81.7          | 89.2          | 103.2         | 118.2         | 133.2         | 148.2         | 163.2         | 178.2         | 193.2         |
| 1.20        | 45.3                      | 49.3          | 53.3          | 57.3          | 61.3          | 68.3          | 70.3          | 75.8          | 79.3          | 86.8          | 94.3          | 108.3         | 123.3         | 138.3         | 153.3         | 168.3         | 183.3         | 198.3         |
| 1.21        | 41.7                      | 45.7          | 49.7          | 53.7          | 57.7          | 64.7          | 66.7          | 72.2          | 75.7          | 83.2          | 90.7          | 104.7         | 119.7         | 134.7         | 149.7         | 164.7         | 179.7         | 194.7         |
| 1.22        | 34.7                      | 38.7          | 42.7          | 46.7          | 50.7          | 57.7          | 59.7          | 65.2          | 68.7          | 76.2          | 83.7          | 97.7          | 112.7         | 127.7         | 142.7         | 157.7         | 172.7         | 187.7         |
| 1.22        | 42.5                      | 46.5          | 50.5          | 54.5          | 58.5          | 65.5          | 67.5          | 73.0          | 76.5          | 84.0          | 91.5          | 105.5         | 120.5         | 135.5         | 150.5         | 165.5         | 180.5         | 195.5         |
| 1.23        | 39.0                      | 43.0          | 47.0          | 51.0          | 55.0          | 62.0          | 64.0          | 69.5          | 73.0          | 80.5          | 88.0          | 102.0         | 117.0         | 132.0         | 147.0         | 162.0         | 177.0         | 192.0         |
| 1.24        | 43.3                      | 47.3          | 51.3          | 55.3          | 59.3          | 66.3          | 68.3          | 73.8          | 77.3          | 84.8          | 92.3          | 106.3         | 121.3         | 136.3         | 151.3         | 166.3         | 181.3         | 196.3         |
| 1.24        | 29.1                      | 33.1          | 37.1          | 41.1          | 45.1          | 52.2          | 54.2          | 59.7          | 63.2          | 70.7          | 78.2          | 92.2          | 107.2         | 122.2         | 137.2         | 152.2         | 167.2         | 182.2         |
| 1.25        | 40.6                      | 44.6          | 48.6          | 52.6          | 56.6          | 63.6          | 65.6          | 71.1          | 74.6          | 82.1          | 89.6          | 103.6         | 118.6         | 133.6         | 148.6         | 163.6         | 178.6         | 193.6         |
| 1.25        | 44.1                      | 48.1          | 52.1          | 56.1          | 60.1          | 67.1          | 69.1          | 74.6          | 78.1          | 85.6          | 93.1          | 107.1         | 122.1         | 137.1         | 152.1         | 167.1         | 182.1         | 197.1         |
| 1.26        | 37.8                      | 41.8          | 45.8          | 49.8          | 53.8          | 60.8          | 62.8          | 68.3          | 71.8          | 79.3          | 86.8          | 100.8         | 115.8         | 130.8         | 145.8         | 160.8         | 175.8         | 190.8         |
| 1.27        | 44.9                      | 48.9          | 52.9          | 56.9          | 60.9          | 67.9          | 69.9          | 75.4          | 78.9          | 86.4          | 93.9          | 107.9         | 122.9         | 137.9         | 152.9         | 167.9         | 182.9         | 197.9         |
| 1.28        | 32.3                      | 36.3          | 40.3          | 44.3          | 48.3          | 55.3          | 57.3          | 62.8          | 66.3          | 73.8          | 81.3          | 95.3          | 110.3         | 125.3         | 140.3         | 155.3         | 170.3         | 185.3         |
| 1.28        | 42.1                      | 46.1          | 50.1          | 54.1          | 58.1          | 65.1          | 67.1          | 72.6          | 76.1          | 83.6          | 91.1          | 105.1         | 120.1         | 135.1         | 150.1         | 165.1         | 180.1         | 195.1         |
| 1.29        | 39.4                      | 43.4          | 47.4          | 51.4          | 55.4          | 62.4          | 64.4          | 69.9          | 73.4          | 80.9          | 88.4          | 102.4         | 117.4         | 132.4         | 147.4         | 162.4         | 177.4         | 192.4         |
| 1.30        | 42.9                      | 46.9          | 50.9          | 54.9          | 58.9          | 65.9          | 67.9          | 73.4          | 76.9          | 84.4          | 91.9          | 105.9         | 120.9         | 135.9         | 150.9         | 165.9         | 180.9         | 195.9         |
| 1.32        | 43.7                      | 47.7          | 51.7          | 55.7          | 59.7          | 66.7          | 68.7          | 74.2          | 77.7          | 85.2          | 92.7          | 106.7         | 121.7         | 136.7         | 151.7         | 166.7         | 181.7         | 196.7         |
| 1.32        | 40.9                      | 44.9          | 48.9          | 52.9          | 56.9          | 63.9          | 65.9          | 71.4          | 74.9          | 82.4          | 89.9          | 103.9         | 118.9         | 133.9         | 148.9         | 163.9         | 178.9         | 193.9         |
| 1.32        | 38.2                      | 42.2          | 46.2          | 50.2          | 54.2          | 61.2          | 63.2          | 68.7          | 72.2          | 79.7          | 87.2          | 101.2         | 116.2         | 131.2         | 146.2         | 161.2         | 176.2         | 191.2         |
| 1.32        | 35.4                      | 39.4          | 43.4          | 47.4          | 51.4          | 58.4          | 60.4          | 65.9          | 69.4          | 76.9          | 84.4          | 98.4          | 113.4         | 128.4         | 143.4         | 158.4         | 173.4         | 188.4         |
| 1.34        | 44.5                      | 48.5          | 52.5          | 56.5          | 60.5          | 67.5          | 69.5          | 75.0          | 78.5          | 86.0          | 93.5          | 107.5         | 122.5         | 137.5         | 152.5         | 167.5         | 182.5         | 197.5         |
| 1.35        | 39.7                      | 43.7          | 47.7          | 51.7          | 55.7          | 62.7          | 64.7          | 70.2          | 73            |               |               |               |               |               |               |               |               |               |

# SELECTION



## C S-L CLASSIC CX CLASSIC COG STOCK DRIVE SELECTIONS

| Ratio                            | Stock Shv. Datum Diam. |        | 1750 RPM Driver |             |       | 1160 RPM Driver |             |       | 870 RPM Driver |             |       | Belt Size/Center Distance |      |      |      |      |      |      |      |      |      |
|----------------------------------|------------------------|--------|-----------------|-------------|-------|-----------------|-------------|-------|----------------|-------------|-------|---------------------------|------|------|------|------|------|------|------|------|------|
|                                  | Driver                 | Driven | RPM             | HP Per Belt |       | RPM             | HP Per Belt |       | RPM            | HP Per Belt |       | C51                       | C60  | C68  | C75  | C81  | C85  | C90  | C96  | C105 |      |
|                                  |                        |        |                 | C           | CX    |                 | C           | CX    |                | C           | CX    |                           |      |      |      |      |      |      |      |      | CX51 |
| 1.38                             | 10.0                   | 14.0   | 1264            | 24.12       | 29.40 | 838             | 19.25       | 22.50 | 628            | 15.66       | 18.07 | ---                       | 12.4 | 16.5 | 20.0 | 23.0 | 25.0 | 27.5 | 30.5 | 35.1 |      |
| 1.39                             | 8.5                    | 12.0   | 1256            | 19.26       | 25.29 | 833             | 15.14       | 19.01 | 624            | 12.29       | 15.20 | 10.7                      | 15.3 | 19.3 | 22.8 | 25.8 | 27.8 | 30.3 | 33.3 | 37.8 |      |
| 1.41                             | 7.0                    | 10.0   | 1245            | 13.74       | 20.63 | 825             | 10.79       | 15.31 | 619            | 8.80        | 12.21 | 13.5                      | 18.0 | 22.1 | 25.6 | 28.6 | 30.6 | 33.1 | 36.1 | 40.6 |      |
| 1.42                             | 14.0                   | 20.0   | 1235            | 33.44       | 37.38 | 819             | 28.99       | 30.75 | 614            | 24.03       | 25.19 | ---                       | ---  | ---  | ---  | ---  | ---  | 19.5 | 22.6 | 27.1 |      |
| 1.43                             | 9.0                    | 13.0   | 1228            | 21.00       | 26.77 | 814             | 16.57       | 20.23 | 610            | 13.46       | 16.20 | ---                       | 14.0 | 18.1 | 21.6 | 24.6 | 26.6 | 29.1 | 32.1 | 36.6 |      |
| 1.44                             | 11.0                   | 16.0   | 1216            | 27.05       | 31.90 | 806             | 21.91       | 24.76 | 605            | 17.88       | 19.96 | ---                       | ---  | 14.0 | 17.6 | 20.6 | 22.6 | 25.1 | 28.1 | 32.7 |      |
| 1.44                             | 7.5                    | 11.0   | 1213            | 15.71       | 22.30 | 804             | 12.30       | 16.61 | 603            | 10.01       | 13.25 | 12.3                      | 16.8 | 20.9 | 24.4 | 27.4 | 29.4 | 31.9 | 34.9 | 39.4 |      |
| 1.45                             | 9.5                    | 14.0   | 1203            | 22.67       | 28.19 | 797             | 17.97       | 21.42 | 598            | 14.60       | 17.17 | ---                       | 12.8 | 16.9 | 20.4 | 23.4 | 25.4 | 27.9 | 30.9 | 35.4 |      |
| 1.47                             | 7.0                    | 10.5   | 1188            | 13.83       | 20.71 | 788             | 10.85       | 15.37 | 591            | 8.84        | 12.25 | 13.1                      | 17.6 | 21.6 | 25.2 | 28.2 | 30.2 | 32.7 | 35.7 | 40.2 |      |
| 1.48                             | 8.0                    | 12.0   | 1185            | 17.59       | 23.90 | 786             | 13.78       | 17.87 | 589            | 11.19       | 14.27 | 11.1                      | 15.6 | 19.6 | 23.2 | 26.2 | 28.2 | 30.7 | 33.7 | 38.2 |      |
| 1.48                             | 12.0                   | 18.0   | 1179            | 29.61       | 34.09 | 782             | 24.43       | 26.90 | 596            | 20.02       | 21.79 | ---                       | ---  | ---  | 15.1 | 18.2 | 20.2 | 22.7 | 25.7 | 30.3 |      |
| 1.49                             | 16.0                   | 24.0   | 1176            | ---         | ---   | 780             | 33.13       | 34.26 | 585            | 27.88       | 28.45 | ---                       | ---  | ---  | ---  | ---  | ---  | ---  | ---  | 22.2 |      |
| 1.50                             | 10.5                   | 16.0   | 1163            | 25.74       | 30.80 | 771             | 20.67       | 23.72 | 578            | 16.83       | 19.08 | ---                       | ---  | 14.4 | 17.9 | 21.0 | 23.0 | 25.5 | 28.5 | 33.0 |      |
| 1.51                             | 8.5                    | 13.0   | 1162            | 19.39       | 25.43 | 770             | 15.23       | 19.10 | 578            | 12.36       | 15.27 | ---                       | 14.4 | 18.4 | 22.0 | 25.0 | 27.0 | 29.5 | 32.5 | 37.0 |      |
| 1.52                             | 13.0                   | 20.0   | 1150            | 31.80       | 35.97 | 762             | 26.83       | 28.93 | 571            | 22.10       | 23.55 | ---                       | ---  | ---  | ---  | ---  | 17.7 | 20.2 | 23.3 | 27.8 |      |
| 1.53                             | 9.0                    | 14.0   | 1142            | 21.12       | 26.89 | 757             | 16.65       | 20.31 | 568            | 13.51       | 16.25 | ---                       | 13.2 | 17.2 | 20.7 | 23.8 | 25.8 | 28.3 | 31.3 | 35.8 |      |
| 1.54                             | 7.0                    | 11.0   | 1136            | 13.90       | 20.78 | 753             | 10.89       | 15.41 | 565            | 8.87        | 12.28 | 12.7                      | 17.2 | 21.2 | 24.7 | 27.7 | 29.8 | 32.3 | 35.3 | 39.8 |      |
| 1.57                             | 7.5                    | 12.0   | 1115            | 15.83       | 22.42 | 739             | 12.39       | 16.69 | 554            | 10.07       | 13.31 | 11.4                      | 16.0 | 20.0 | 23.5 | 26.5 | 28.6 | 31.1 | 34.1 | 38.6 |      |
| 1.58                             | 10.0                   | 16.0   | 1110            | 24.33       | 29.62 | 735             | 19.39       | 22.64 | 552            | 15.77       | 18.18 | ---                       | ---  | 14.7 | 18.3 | 21.3 | 23.3 | 25.9 | 28.9 | 33.4 |      |
| 1.60                             | 8.0                    | 13.0   | 1097            | 17.69       | 24.00 | 727             | 13.85       | 17.94 | 545            | 11.25       | 14.32 | ---                       | 14.8 | 18.8 | 22.3 | 25.3 | 27.4 | 29.9 | 32.9 | 37.4 |      |
| 1.61                             | 11.0                   | 18.0   | 1084            | 27.21       | 32.06 | 719             | 22.01       | 24.87 | 539            | 17.96       | 20.04 | ---                       | ---  | ---  | 15.8 | 18.9 | 20.9 | 23.4 | 26.5 | 31.0 |      |
| 1.62                             | 8.5                    | 14.0   | 1082            | 19.48       | 25.52 | 717             | 15.29       | 19.16 | 538            | 12.41       | 15.31 | ---                       | 13.5 | 17.6 | 21.1 | 24.1 | 26.1 | 28.7 | 31.7 | 36.2 |      |
| 1.65                             | 12.0                   | 20.0   | 1064            | 29.74       | 34.22 | 705             | 24.52       | 26.99 | 529            | 20.08       | 21.85 | ---                       | ---  | ---  | ---  | 16.3 | 18.4 | 20.9 | 24.0 | 28.5 |      |
| 1.66                             | 9.5                    | 16.0   | 1056            | 22.83       | 28.36 | 700             | 18.08       | 21.53 | 525            | 14.68       | 17.26 | ---                       | ---  | 15.1 | 18.6 | 21.7 | 23.7 | 26.2 | 29.3 | 33.8 |      |
| 1.67                             | 16.0                   | 27.0   | 1047            | ---         | ---   | 694             | 33.22       | 34.36 | 521            | 27.95       | 28.52 | ---                       | ---  | ---  | ---  | ---  | ---  | ---  | ---  | ---  |      |
| ARC-LENGTH CORRECTION FACTOR --> |                        |        |                 |             |       |                 |             |       |                |             |       | 0.75                      | 0.79 | 0.82 | 0.84 | 0.86 | 0.87 | 0.88 | 0.90 | 0.92 |      |
| 1.68                             | 7.0                    | 12.0   | 1044            | 13.99       | 20.87 | 692             | 10.95       | 15.48 | 519            | 8.92        | 12.33 | 11.8                      | 16.3 | 20.4 | 23.9 | 26.9 | 28.9 | 31.4 | 34.4 | 39.0 |      |
| 1.69                             | 10.5                   | 18.0   | 1037            | 25.87       | 30.93 | 687             | 20.75       | 23.80 | 515            | 16.90       | 19.15 | ---                       | ---  | 16.1 | 19.2 | 21.2 | 23.8 | 26.8 | 31.4 | ---  |      |
| 1.69                             | 14.0                   | 24.0   | 1033            | 33.67       | 37.62 | 685             | 29.15       | 30.91 | 513            | 24.15       | 25.31 | ---                       | ---  | ---  | ---  | ---  | ---  | ---  | ---  | 23.6 |      |
| 1.70                             | 7.5                    | 13.0   | 1032            | 15.91       | 22.50 | 684             | 12.44       | 16.74 | 513            | 10.11       | 13.35 | 10.5                      | 15.1 | 19.2 | 22.7 | 25.7 | 27.7 | 30.2 | 33.2 | 37.8 |      |
| 1.71                             | 8.0                    | 14.0   | 1021            | 17.76       | 24.07 | 677             | 13.90       | 17.99 | 507            | 11.28       | 14.35 | ---                       | 13.9 | 17.9 | 21.5 | 24.5 | 26.5 | 29.0 | 32.0 | 36.6 |      |
| 1.74                             | 9.0                    | 16.0   | 1003            | 21.25       | 27.02 | 665             | 16.73       | 20.40 | 499            | 13.56       | 16.32 | ---                       | ---  | 15.4 | 19.0 | 22.0 | 24.1 | 26.6 | 29.6 | 34.1 |      |
| 1.77                             | 10.0                   | 18.0   | 989             | 24.44       | 29.72 | 656             | 19.46       | 22.71 | 492            | 15.82       | 18.23 | ---                       | ---  | 16.5 | 19.6 | 21.6 | 24.1 | 27.2 | 31.7 | ---  |      |
| 1.79                             | 11.0                   | 20.0   | 978             | 27.30       | 32.15 | 648             | 22.07       | 24.93 | 486            | 18.00       | 20.09 | ---                       | ---  | ---  | ---  | 17.0 | 19.1 | 21.6 | 24.7 | 29.3 |      |
| 1.81                             | 7.0                    | 13.0   | 966             | 14.05       | 20.93 | 641             | 10.99       | 15.52 | 480            | 8.95        | 12.36 | 10.8                      | 15.5 | 19.5 | 23.1 | 26.1 | 28.1 | 30.6 | 33.6 | 38.1 |      |
| 1.82                             | 13.0                   | 24.0   | 961             | 31.97       | 36.15 | 637             | 26.94       | 29.05 | 478            | 22.18       | 23.64 | ---                       | ---  | ---  | ---  | ---  | ---  | ---  | 19.6 | 24.3 |      |
| 1.82                             | 7.5                    | 14.0   | 960             | 15.97       | 22.56 | 636             | 12.47       | 16.78 | 477            | 10.14       | 13.38 | ---                       | 14.2 | 18.3 | 21.8 | 24.9 | 26.9 | 29.4 | 32.4 | 36.9 |      |
| 1.84                             | 8.5                    | 16.0   | 950             | 19.59       | 25.62 | 630             | 15.36       | 19.23 | 472            | 12.46       | 15.37 | ---                       | ---  | 15.8 | 19.4 | 22.4 | 24.4 | 27.0 | 30.0 | 34.5 |      |
| 1.85                             | 16.0                   | 30.0   | 944             | ---         | ---   | 626             | 33.27       | 34.41 | 469            | 27.98       | 28.56 | ---                       | ---  | ---  | ---  | ---  | ---  | ---  | ---  | ---  |      |
| 1.86                             | 9.5                    | 18.0   | 942             | 22.92       | 28.44 | 624             | 18.14       | 21.59 | 468            | 14.73       | 17.30 | ---                       | ---  | ---  | 16.8 | 19.9 | 22.0 | 24.5 | 27.5 | 32.1 |      |
| 1.87                             | 10.5                   | 20.0   | 935             | 25.94       | 31.01 | 620             | 20.80       | 23.85 | 465            | 16.93       | 19.18 | ---                       | ---  | ---  | ---  | 17.4 | 19.4 | 22.0 | 25.1 | 29.6 |      |
| 1.90                             | 14.0                   | 27.0   | 920             | 33.75       | 37.70 | 610             | 29.20       | 30.96 | 457            | 24.19       | 25.35 | ---                       | ---  | ---  | ---  | ---  | ---  | ---  | ---  | 20.7 |      |
| 1.95                             | 7.0                    | 14.0   | 899             | 14.09       | 20.97 | 596             | 11.02       | 15.54 | 447            | 8.97        | 12.38 | ---                       | 14.5 | 18.6 | 22.2 | 25.2 | 27.2 | 29.8 | 32.8 | 37.3 |      |
| 1.95                             | 8.0                    | 16.0   | 896             | 17.85       | 24.15 | 594             | 13.95       | 18.04 | 446            | 11.32       | 14.40 | ---                       | ---  | 16.1 | 19.7 | 22.8 | 24.8 | 27.3 | 30.3 | 34.9 |      |
| 1.96                             | 9.0                    | 18.0   | 894             | 21.32       | 27.10 | 593             | 16.78       | 20.44 | 444            | 13.61       | 16.36 | ---                       | ---  | 13.5 | 17.2 | 20.3 | 22.3 | 24.8 | 27.9 | 32.4 |      |
| 1.96                             | 10.0                   | 20.0   | 892             | 24.60       | 29.79 | 591             | 19.50       | 22.75 | 444            | 15.85       | 18.26 | ---                       | ---  | ---  | ---  | 17.7 | 19.8 | 22.3 | 25.4 | 30.0 |      |
| 1.97                             | 12.0                   | 24.0   | 889             | 29.87       | 34.35 | 590             | 24.60       | 27.07 | 442            | 20.15       | 21.92 | ---                       | ---  | ---  | ---  | ---  | ---  | ---  | 20.3 | 25.0 |      |
| 2.04                             | 13.0                   | 27.0   | 856             | 32.03       | 36.21 | 567             | 26.98       | 29.09 | 425            | 22.21       | 23.67 | ---                       | ---  | ---  | ---  | ---  | ---  | ---  | ---  | 21.4 |      |
| 2.06                             | 9.5                    | 20.0   | 849             | 22.97       | 28.50 | 563             | 18.17       | 21.63 | 422            | 14.75       | 17.33 | ---                       | ---  | ---  | 14.9 | 18.0 | 20.1 | 22.7 | 25.8 | 30.3 |      |
| 2.07                             | 8.5                    | 18.0   | 846             | 19.65       | 25.68 | 561             | 15.40       | 19.27 | 421            | 12.49       | 15.39 | ---                       | ---  | 13.8 | 17.5 | 20.6 | 22.6 | 25.2 | 28.2 | 32.8 |      |
| 2.08                             | 7.5                    | 16.0   | 843             | 16.03       | 22.62 | 559             | 12.52       | 16.82 | 419            | 10.17       | 13.41 | ---                       | 12.3 | 16.5 | 20.1 | 23.1 | 25.1 | 27.7 | 30.7 | 35.2 |      |
| 2.11                             | 14.0                   | 30.0   | 829             | 33.80       | 37.74 | 549             | 29.24       | 30.99 | 412            | 24.22       | 25.37 | ---                       | ---  | ---  | ---  | ---  | ---  | ---  | ---  | ---  |      |
| 2.14                             | 11.0                   | 24.0   | 818             | 27.39       | 32.24 | 542             | 22.13       | 24.99 | 406            | 18.05       | 20.13 | ---                       | ---  | ---  | ---  | ---  | ---  | 17.8 | 21.0 | 25.7 |      |
| 2.17                             | 9.0                    | 20.0   | 806             | 21.37       | 27.14 | 535             | 16.81       | 20.47 | 401            | 13.64       | 16.38 | ---                       | ---  | ---  | 15.2 | 18.4 | 20.4 | 23.0 | 26.1 | 30.7 |      |
| 2.19                             | 8.0                    | 18.0   | 799             | 17.89       | 24.20 | 530             | 13.98       | 18.07 | 397            | 11.34       | 14.42 | ---                       | ---  | ---  | 14.2 | 17.8 | 20.9 | 23.0 | 25.6 | 28.6 | 33.2 |
| 2.21                             | 12.0                   | 27.0   | 792             | 29.91       | 34.39 | 525             | 24.63       | 27.10 | 394            | 20.17       | 21.94 | ---                       | ---  | ---  | ---  | ---  | ---  | ---  | ---  | 22.1 |      |
| 2.22                             | 7.0                    | 16.0   | 790             | 14.14       | 21.03 | 523             | 11.05       | 15.58 | 393            | 9.00        | 12.41 | ---                       | 12.6 | 16.8 | 20.4 | 23.5 | 25.5 | 28.0 | 31.1 | 35.6 |      |
| 2.22                             | 16.0                   | 36.0   | 788             | ---         | ---   | 523             | 33.33       | 34.46 | 392            | 28.02       | 28.59 | ---                       | ---  | ---  | ---  | ---  | ---  | ---  | ---  | ---  |      |
| 2.24                             | 10.5                   | 24.0   | 782             | 26.02       | 31.08 | 518             | 20.85       | 23.90 | 389            | 16.97       | 19.22 | ---                       | ---  | ---  | ---  | ---  | ---  | 18.1 | 21.3 | 26.0 |      |
| 2.27                             | 13.0                   | 30.0   | 771             | 32.07       | 36.24 | 511             | 27.01       | 29.11 | 383            | 22.23       | 23.69 | ---                       | ---  | ---  | ---  | ---  | ---  | ---  | ---  | ---  |      |
| ARC-LENGTH CORRECTION FACTOR --> |                        |        |                 |             |       |                 |             |       |                |             |       | 0.74                      | 0.78 | 0.81 | 0.83 | 0.85 | 0.86 | 0.88 | 0.89 | 0.91 |      |

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

# SELECTION



## C S-L CLASSIC CX CLASSIC COG STOCK DRIVE SELECTIONS

| Ratio | Belt Size/Center Distance |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |
|-------|---------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|       | C112<br>CX112             | C120<br>CX120 | C128<br>CX128 | C136<br>CX136 | C144<br>CX144 | C158<br>CX158 | C162<br>CX162 | C173<br>CX173 | C180<br>CX180 | C195<br>CX195 | C210<br>CX210 | C240<br>CX240 | C270<br>CX270 | C300<br>CX300 | C330<br>CX330 | C360<br>CX360 | C390<br>CX390 | C420<br>CX420 |
| 1.38  | 38.6                      | 42.6          | 46.6          | 50.6          | 54.6          | 61.6          | 63.6          | 69.1          | 72.6          | 80.1          | 87.6          | 101.6         | 116.6         | 131.6         | 146.6         | 161.6         | 176.6         | 191.6         |
| 1.39  | 41.3                      | 45.3          | 49.3          | 53.3          | 57.3          | 64.3          | 66.3          | 71.8          | 75.3          | 82.8          | 90.3          | 104.3         | 119.3         | 134.3         | 149.3         | 164.3         | 179.3         | 194.3         |
| 1.41  | 44.1                      | 48.1          | 52.1          | 56.1          | 60.1          | 67.1          | 69.1          | 74.6          | 78.1          | 85.6          | 93.1          | 107.1         | 122.1         | 137.1         | 152.1         | 167.1         | 182.1         | 197.1         |
| 1.42  | 30.6                      | 34.6          | 38.6          | 42.7          | 46.7          | 53.7          | 55.7          | 61.2          | 64.7          | 72.2          | 79.7          | 93.7          | 108.7         | 123.7         | 138.7         | 153.7         | 168.7         | 183.7         |
| 1.43  | 40.1                      | 44.1          | 48.1          | 52.1          | 56.1          | 63.1          | 65.1          | 70.7          | 74.2          | 81.7          | 89.2          | 103.2         | 118.2         | 133.2         | 148.2         | 163.2         | 178.2         | 193.2         |
| 1.44  | 36.2                      | 40.2          | 44.2          | 48.2          | 52.2          | 59.2          | 61.2          | 66.7          | 70.2          | 77.7          | 85.2          | 99.2          | 114.2         | 129.2         | 144.2         | 159.2         | 174.2         | 189.2         |
| 1.44  | 42.9                      | 46.9          | 50.9          | 54.9          | 58.9          | 65.9          | 67.9          | 73.4          | 76.9          | 84.4          | 91.9          | 105.9         | 120.9         | 135.9         | 150.9         | 165.9         | 180.9         | 195.9         |
| 1.45  | 38.9                      | 42.9          | 46.9          | 51.0          | 55.0          | 62.0          | 64.0          | 69.5          | 73.0          | 80.5          | 88.0          | 102.0         | 117.0         | 132.0         | 147.0         | 162.0         | 177.0         | 192.0         |
| 1.47  | 43.7                      | 47.7          | 51.7          | 56.7          | 59.7          | 66.7          | 68.7          | 74.2          | 77.7          | 85.2          | 92.7          | 106.7         | 121.7         | 136.7         | 151.7         | 166.7         | 181.7         | 196.7         |
| 1.48  | 41.7                      | 45.7          | 49.7          | 53.7          | 57.7          | 64.7          | 66.7          | 72.2          | 75.7          | 83.2          | 90.7          | 104.7         | 119.7         | 134.7         | 149.7         | 164.7         | 179.7         | 194.7         |
| 1.48  | 33.8                      | 37.8          | 41.8          | 45.8          | 49.8          | 56.8          | 58.8          | 64.3          | 67.8          | 75.3          | 82.8          | 96.9          | 111.9         | 126.9         | 141.9         | 156.9         | 171.9         | 185.9         |
| 1.49  | 25.7                      | 29.8          | 33.8          | 37.8          | 41.9          | 48.9          | 50.9          | 56.4          | 59.9          | 67.4          | 74.9          | 89.0          | 104.0         | 119.0         | 134.0         | 149.0         | 164.0         | 179.0         |
| 1.50  | 36.5                      | 40.6          | 44.6          | 48.6          | 52.6          | 59.6          | 61.6          | 67.1          | 70.6          | 78.1          | 85.6          | 99.6          | 114.6         | 129.6         | 144.6         | 159.6         | 174.6         | 189.6         |
| 1.51  | 40.5                      | 44.5          | 48.5          | 52.5          | 56.5          | 63.5          | 65.5          | 71.0          | 74.5          | 82.0          | 89.5          | 103.5         | 118.6         | 133.6         | 148.6         | 163.6         | 178.6         | 193.6         |
| 1.52  | 31.3                      | 35.4          | 39.4          | 43.4          | 47.4          | 54.4          | 56.4          | 61.9          | 65.5          | 73.0          | 80.5          | 94.5          | 109.5         | 124.5         | 139.5         | 154.5         | 169.5         | 184.5         |
| 1.53  | 39.3                      | 43.3          | 47.3          | 51.3          | 55.3          | 62.3          | 64.3          | 69.9          | 73.4          | 80.9          | 88.4          | 102.4         | 117.4         | 132.4         | 147.4         | 162.4         | 177.4         | 192.4         |
| 1.54  | 43.3                      | 47.3          | 51.3          | 55.3          | 59.3          | 66.3          | 68.3          | 73.8          | 77.3          | 84.8          | 92.3          | 106.3         | 121.3         | 136.3         | 151.3         | 166.3         | 181.3         | 196.3         |
| 1.57  | 42.1                      | 46.1          | 50.1          | 54.1          | 58.1          | 65.1          | 67.1          | 72.6          | 76.1          | 83.6          | 91.1          | 105.1         | 120.1         | 135.1         | 150.1         | 165.1         | 180.1         | 195.1         |
| 1.58  | 36.9                      | 40.9          | 44.9          | 48.9          | 53.0          | 60.0          | 62.0          | 67.5          | 71.0          | 78.5          | 86.0          | 100.0         | 115.0         | 130.0         | 145.0         | 160.0         | 175.0         | 190.0         |
| 1.60  | 40.9                      | 44.9          | 48.9          | 52.9          | 56.9          | 63.9          | 65.9          | 71.4          | 74.9          | 82.4          | 89.9          | 103.9         | 118.9         | 133.9         | 148.9         | 163.9         | 178.9         | 193.9         |
| 1.61  | 34.5                      | 38.5          | 42.5          | 46.6          | 50.6          | 57.6          | 59.6          | 65.1          | 68.6          | 76.1          | 83.6          | 97.6          | 112.6         | 127.6         | 142.6         | 157.6         | 172.6         | 187.7         |
| 1.62  | 39.7                      | 43.7          | 47.7          | 51.7          | 55.7          | 62.7          | 64.7          | 70.2          | 73.7          | 81.2          | 88.7          | 102.7         | 117.7         | 132.7         | 147.7         | 162.7         | 177.7         | 192.8         |
| 1.65  | 32.1                      | 36.1          | 40.1          | 44.1          | 48.2          | 55.2          | 57.2          | 62.7          | 66.2          | 73.7          | 81.2          | 95.2          | 110.3         | 125.3         | 140.3         | 155.3         | 170.3         | 185.3         |
| 1.66  | 37.3                      | 41.3          | 45.3          | 49.3          | 53.3          | 60.3          | 62.3          | 67.9          | 71.4          | 78.9          | 86.4          | 100.4         | 115.4         | 130.4         | 145.4         | 160.4         | 175.4         | 190.4         |
| 1.67  | 23.0                      | 27.1          | 31.2          | 35.3          | 39.3          | 46.4          | 48.4          | 53.9          | 57.4          | 65.0          | 72.5          | 86.5          | 101.5         | 116.6         | 131.6         | 146.6         | 161.6         | 176.6         |
|       | <b>0.94</b>               | <b>0.95</b>   | <b>0.97</b>   | <b>0.98</b>   | <b>0.99</b>   | <b>1.01</b>   | <b>1.02</b>   | <b>1.03</b>   | <b>1.04</b>   | <b>1.06</b>   | <b>1.08</b>   | <b>1.11</b>   | <b>1.03</b>   | <b>1.16</b>   | <b>1.18</b>   | <b>1.20</b>   | <b>1.22</b>   | <b>1.24</b>   |
| 1.66  | 42.5                      | 46.5          | 50.5          | 54.5          | 58.5          | 65.5          | 67.5          | 73.0          | 76.5          | 84.0          | 91.5          | 105.5         | 120.5         | 135.5         | 150.5         | 165.5         | 180.5         | 195.5         |
| 1.69  | 34.9                      | 38.9          | 42.9          | 46.9          | 50.9          | 58.0          | 60.0          | 65.5          | 69.0          | 76.5          | 84.0          | 98.0          | 113.0         | 128.0         | 143.0         | 158.0         | 173.0         | 188.0         |
| 1.69  | 27.2                      | 31.2          | 35.3          | 39.3          | 43.3          | 50.4          | 52.4          | 57.9          | 61.4          | 68.9          | 76.5          | 90.5          | 105.5         | 120.5         | 135.5         | 150.5         | 165.5         | 180.6         |
| 1.70  | 41.3                      | 45.3          | 49.3          | 53.3          | 57.3          | 64.3          | 66.3          | 71.8          | 75.3          | 82.8          | 90.3          | 104.3         | 119.3         | 134.3         | 149.3         | 164.3         | 179.3         | 194.3         |
| 1.71  | 40.1                      | 44.1          | 48.1          | 52.1          | 56.1          | 63.1          | 65.1          | 70.6          | 74.1          | 81.6          | 89.1          | 103.1         | 118.1         | 133.1         | 148.1         | 163.2         | 178.2         | 193.2         |
| 1.74  | 37.7                      | 41.7          | 45.7          | 49.7          | 53.7          | 60.7          | 62.7          | 68.2          | 71.7          | 79.2          | 86.8          | 100.8         | 115.8         | 130.8         | 145.8         | 160.8         | 175.8         | 190.8         |
| 1.77  | 35.2                      | 39.3          | 43.3          | 47.3          | 51.3          | 58.3          | 60.3          | 65.8          | 69.4          | 76.9          | 84.4          | 98.4          | 113.4         | 128.4         | 143.4         | 158.4         | 173.4         | 188.4         |
| 1.79  | 32.8                      | 36.8          | 40.9          | 44.9          | 48.9          | 55.9          | 57.9          | 63.5          | 67.0          | 74.5          | 82.0          | 96.0          | 111.0         | 126.0         | 141.0         | 156.1         | 171.1         | 186.1         |
| 1.81  | 41.6                      | 45.7          | 49.7          | 53.7          | 57.7          | 64.7          | 66.7          | 72.2          | 75.7          | 83.2          | 90.7          | 104.7         | 119.7         | 134.7         | 149.7         | 164.7         | 179.7         | 194.7         |
| 1.82  | 27.9                      | 31.9          | 36.0          | 40.0          | 44.1          | 51.1          | 53.1          | 58.6          | 62.2          | 69.7          | 77.2          | 91.2          | 106.3         | 121.3         | 136.3         | 151.3         | 166.3         | 181.3         |
| 1.82  | 40.4                      | 44.5          | 48.5          | 52.5          | 56.5          | 63.5          | 65.5          | 71.0          | 74.5          | 82.0          | 89.5          | 103.5         | 118.5         | 133.5         | 148.5         | 163.5         | 178.5         | 193.5         |
| 1.84  | 38.0                      | 42.1          | 46.1          | 50.1          | 54.1          | 61.1          | 63.1          | 68.6          | 72.1          | 79.6          | 87.1          | 101.1         | 116.2         | 131.2         | 146.2         | 161.2         | 176.2         | 191.2         |
| 1.85  | ---                       | 24.3          | 28.5          | 32.6          | 36.7          | 43.8          | 45.8          | 51.4          | 54.9          | 62.4          | 70.0          | 84.0          | 99.1          | 114.1         | 129.2         | 144.2         | 159.2         | 174.2         |
| 1.86  | 35.6                      | 39.6          | 43.7          | 47.7          | 51.7          | 58.7          | 60.7          | 66.2          | 69.7          | 77.2          | 84.8          | 98.8          | 113.8         | 128.8         | 143.8         | 158.8         | 173.8         | 188.8         |
| 1.87  | 33.2                      | 37.2          | 41.2          | 45.3          | 49.3          | 56.3          | 58.3          | 63.8          | 67.3          | 74.9          | 82.4          | 96.4          | 111.4         | 126.4         | 141.4         | 156.4         | 171.4         | 186.4         |
| 1.90  | 24.4                      | 28.5          | 32.6          | 36.7          | 40.7          | 47.8          | 49.8          | 55.4          | 58.9          | 66.4          | 74.0          | 88.0          | 103.1         | 118.1         | 133.1         | 148.1         | 163.1         | 178.1         |
| 1.95  | 40.8                      | 44.8          | 48.8          | 52.8          | 56.9          | 63.9          | 65.9          | 71.4          | 74.9          | 82.4          | 89.9          | 103.9         | 118.9         | 133.9         | 148.9         | 163.9         | 178.9         | 193.9         |
| 1.95  | 38.4                      | 42.4          | 46.4          | 50.5          | 54.5          | 61.5          | 63.5          | 69.0          | 72.5          | 80.0          | 87.5          | 101.5         | 116.5         | 131.5         | 146.6         | 161.6         | 176.6         | 191.6         |
| 1.96  | 36.0                      | 40.0          | 44.0          | 48.0          | 52.1          | 59.1          | 61.1          | 66.6          | 70.1          | 77.6          | 85.1          | 99.2          | 114.2         | 129.2         | 144.2         | 159.2         | 174.2         | 189.2         |
| 1.96  | 33.5                      | 37.6          | 41.6          | 45.6          | 49.6          | 56.7          | 58.7          | 64.2          | 67.7          | 75.2          | 82.7          | 96.8          | 111.8         | 126.8         | 141.8         | 156.8         | 171.8         | 186.8         |
| 1.97  | 28.6                      | 32.6          | 36.7          | 40.7          | 44.8          | 51.8          | 53.9          | 59.4          | 62.9          | 70.4          | 78.0          | 92.0          | 107.0         | 122.0         | 137.1         | 152.1         | 167.1         | 182.1         |
| 2.04  | 25.1                      | 29.2          | 33.3          | 37.4          | 41.5          | 48.5          | 50.6          | 56.1          | 59.6          | 67.2          | 74.7          | 88.8          | 103.8         | 118.8         | 133.9         | 148.9         | 163.9         | 178.9         |
| 2.06  | 32.9                      | 37.9          | 42.0          | 46.0          | 50.0          | 57.1          | 59.1          | 64.6          | 68.1          | 75.6          | 83.1          | 97.2          | 112.2         | 127.2         | 142.2         | 157.2         | 172.2         | 187.2         |
| 2.07  | 36.3                      | 40.4          | 44.4          | 48.4          | 52.4          | 59.5          | 61.5          | 67.0          | 70.5          | 78.0          | 85.5          | 99.5          | 114.5         | 129.5         | 144.5         | 159.5         | 174.5         | 189.5         |
| 2.06  | 38.8                      | 42.8          | 46.8          | 50.8          | 54.8          | 61.9          | 63.9          | 69.4          | 72.9          | 80.4          | 87.9          | 101.9         | 116.9         | 131.9         | 146.9         | 161.9         | 176.9         | 191.9         |
| 2.11  | ---                       | 25.7          | 29.8          | 34.0          | 38.1          | 45.2          | 47.2          | 52.8          | 56.3          | 63.9          | 71.5          | 85.5          | 100.6         | 115.6         | 130.7         | 145.7         | 160.7         | 175.7         |
| 2.14  | 29.3                      | 33.3          | 37.4          | 41.5          | 45.5          | 52.6          | 54.6          | 60.1          | 63.6          | 71.2          | 78.7          | 92.7          | 107.8         | 122.8         | 137.8         | 152.8         | 167.8         | 182.9         |
| 2.17  | 34.2                      | 38.3          | 42.3          | 46.4          | 50.4          | 57.4          | 59.4          | 65.0          | 68.5          | 76.0          | 83.5          | 97.5          | 112.6         | 127.6         | 142.6         | 157.6         | 172.6         | 187.6         |
| 2.19  | 36.7                      | 40.7          | 44.8          | 48.8          | 52.8          | 59.8          | 61.8          | 67.4          | 70.9          | 78.4          | 85.9          | 99.9          | 114.9         | 129.9         | 144.9         | 159.9         | 174.9         | 189.9         |
| 2.21  | 25.7                      | 29.9          | 34.0          | 38.1          | 42.2          | 49.3          | 51.3          | 56.8          | 60.4          | 67.9          | 75.5          | 89.5          | 104.6         | 119.6         | 134.6         | 149.6         | 164.7         | 179.7         |
| 2.22  | 39.1                      | 43.2          | 47.2          | 51.2          | 55.2          | 62.2          | 64.2          | 69.7          | 73.3          | 80.8          | 88.3          | 102.3         | 117.3         | 132.3         | 147.3         | 162.3         | 177.3         | 192.3         |
| 2.22  | ---                       | ---           | ---           | 26.8          | 31.0          | 38.3          | 40.4          | 46.0          | 49.6          | 57.3          | 64.9          | 79.0          | 94.1          | 109.2         | 124.2         | 139.3         | 154.3         | 169.3         |
| 2.24  | 29.6                      | 33.7          | 37.8          | 41.8          | 45.9          | 52.9          | 55.0          | 60.5          | 64.0          | 71.5          | 79.1          | 93.1          | 108.2         | 123.2         | 138.2         | 153.2         | 168.2         | 183.2         |
| 2.27  | 22.1                      | 26.3          | 30.5          | 34.7          | 38.8          | 45.9          | 47.9          | 53.5          | 57.1          | 64.6          | 72.2          | 86.3          | 101.3         | 116.4         | 131.4         | 146.4         | 161.5         | 176.5         |
|       | <b>0.93</b>               | <b>0.95</b>   | <b>0.96</b>   | <b>0.97</b>   | <b>0.99</b>   | <b>1.01</b>   | <b>1.02</b>   | <b>1.03</b>   | <b>1.04</b>   | <b>1.06</b>   | <b>1.08</b>   | <b>1.10</b>   | <b>1.13</b>   | <b>1.16</b>   | <b>1.18</b>   | <b>1.20</b>   | <b>1.22</b>   | <b>1.23</b>   |

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

V-Drives  
FHP Drives  
Drive Component Accessories  
DYNA-SYNC  
HT200/HTD Synchronous Drives  
HT500 Synchronous Drives  
Roller Chain Sprockets



# SELECTION

## C S-L CLASSIC CX CLASSIC COG STOCK DRIVE SELECTIONS

| Ratio                                      | Stock Shv.  |        | 1750 RPM Driver |             |       | 1160 RPM Driver |             |       | 870 RPM Driver |             |       | Belt Size/Center Distance |          |             |             |             |             |             |             |             |             |  |  |  |  |
|--|-------------|--------|-----------------|-------------|-------|-----------------|-------------|-------|----------------|-------------|-------|---------------------------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|--|--|--|
|  | Datum Diam. |        | Driven RPM      | HP Per Belt |       | Driven RPM      | HP Per Belt |       | Driven RPM     | HP Per Belt |       | C51 CX51                  | C60 CX60 | C68 CX68    | C75 CX75    | C81 CX81    | C85 CX85    | C90 CX90    | C96 CX96    | C105 CX105  |             |  |  |  |  |
|  | Driver      | Driven |                 | C           | CX    |                 | C           | CX    |                | C           | CX    |                           |          |             |             |             |             |             |             |             |             |  |  |  |  |
| 2.29                                       | 8.5         | 20.0   | 763             | 19.68       | 25.71 | 506             | 15.42       | 19.29 | 380            | 12.50       | 15.41 | ---                       | ---      | ---         | 15.5        | 18.7        | 20.8        | 23.4        | 26.5        | 31.0        |             |  |  |  |  |
| 2.33                                       | 7.5         | 18.0   | 751             | 16.07       | 22.66 | 498             | 12.54       | 16.85 | 374            | 10.19       | 13.43 | ---                       | ---      | 14.5        | 18.2        | 21.3        | 23.3        | 25.9        | 29.0        | 33.5        |             |  |  |  |  |
| 2.35                                       | 10.0        | 24.0   | 746             | 24.56       | 29.85 | 494             | 19.54       | 22.79 | 371            | 15.88       | 18.29 | ---                       | ---      | ---         | ---         | ---         | ---         | 18.4        | 21.6        | 26.3        |             |  |  |  |  |
| 2.40                                       | 11.0        | 27.0   | 728             | 27.42       | 32.28 | 483             | 22.16       | 25.01 | 362            | 18.06       | 20.15 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | 22.7        |             |  |  |  |  |
| 2.43                                       | 8.0         | 20.0   | 721             | 17.92       | 24.23 | 478             | 14.00       | 18.09 | 358            | 11.36       | 14.43 | ---                       | ---      | ---         | 15.8        | 19.0        | 21.1        | 23.7        | 26.8        | 31.4        |             |  |  |  |  |
| 2.45                                       | 12.0        | 30.0   | 714             | 29.94       | 34.42 | 473             | 24.65       | 27.12 | 355            | 20.18       | 21.95 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | ---         |             |  |  |  |  |
| 2.48                                       | 9.5         | 24.0   | 710             | 23.03       | 28.55 | 471             | 18.20       | 21.66 | 353            | 14.78       | 17.35 | ---                       | ---      | ---         | ---         | ---         | 18.8        | 22.0        | 26.7        | ---         |             |  |  |  |  |
| 2.49                                       | 7.0         | 18.0   | 704             | 14.17       | 21.05 | 467             | 11.07       | 15.60 | 350            | 9.01        | 12.42 | ---                       | ---      | 14.8        | 18.5        | 21.6        | 23.7        | 26.2        | 29.3        | 33.9        |             |  |  |  |  |
| 2.51                                       | 10.5        | 27.0   | 696             | 26.05       | 31.11 | 461             | 20.87       | 23.92 | 346            | 16.99       | 19.23 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | 23.0        |             |  |  |  |  |
| 2.53                                       | 14.0        | 36.0   | 692             | 33.85       | 37.79 | 459             | 29.27       | 31.03 | 344            | 24.24       | 25.39 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | ---         |             |  |  |  |  |
| 2.58                                       | 7.5         | 20.0   | 678             | 16.09       | 22.68 | 449             | 12.56       | 16.86 | 337            | 10.20       | 13.44 | ---                       | ---      | ---         | 16.2        | 19.4        | 21.5        | 24.1        | 27.1        | 31.7        |             |  |  |  |  |
| 2.60                                       | 9.0         | 24.0   | 674             | 21.41       | 27.18 | 447             | 16.84       | 20.50 | 335            | 13.66       | 16.40 | ---                       | ---      | ---         | ---         | ---         | 19.1        | 22.3        | 27.0        | ---         |             |  |  |  |  |
| 2.63                                       | 10.0        | 27.0   | 664             | 24.59       | 29.87 | 440             | 19.56       | 22.81 | 330            | 15.89       | 18.31 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | 23.4        |             |  |  |  |  |
| 2.67                                       | 11.0        | 30.0   | 656             | 27.44       | 32.30 | 435             | 22.17       | 25.02 | 326            | 18.07       | 20.16 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | ---         |             |  |  |  |  |
| 2.71                                       | 16.0        | 44.0   | 646             | ---         | ---   | 428             | 33.36       | 34.49 | 321            | 28.05       | 28.62 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | ---         |             |  |  |  |  |
| 2.72                                       | 13.0        | 36.0   | 644             | 32.10       | 36.28 | 427             | 27.03       | 29.14 | 320            | 22.25       | 23.71 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | ---         |             |  |  |  |  |
| 2.74                                       | 8.5         | 24.0   | 638             | 19.72       | 25.75 | 423             | 15.44       | 19.32 | 317            | 12.52       | 15.43 | ---                       | ---      | ---         | ---         | 16.6        | 19.4        | 22.6        | 27.3        | ---         |             |  |  |  |  |
| 2.76                                       | 7.0         | 20.0   | 635             | 14.19       | 21.07 | 421             | 11.09       | 15.61 | 316            | 9.02        | 12.43 | ---                       | ---      | ---         | 16.5        | 19.7        | 21.8        | 24.4        | 27.5        | 32.1        |             |  |  |  |  |
| 2.77                                       | 9.5         | 27.0   | 632             | 23.05       | 28.57 | 419             | 18.22       | 21.67 | 314            | 14.79       | 17.36 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | 18.8        | 23.7        |             |  |  |  |  |
| 2.79                                       | 10.5        | 30.0   | 627             | 26.06       | 31.13 | 416             | 20.88       | 23.93 | 312            | 16.99       | 19.24 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | ---         |             |  |  |  |  |
| 2.90                                       | 8.0         | 24.0   | 602             | 17.95       | 24.26 | 399             | 14.02       | 18.11 | 300            | 11.37       | 14.45 | ---                       | ---      | ---         | ---         | 16.9        | 19.7        | 22.9        | 27.7        | ---         |             |  |  |  |  |
| 2.91                                       | 9.0         | 27.0   | 600             | 21.43       | 27.20 | 398             | 16.85       | 20.51 | 298            | 13.67       | 16.41 | ---                       | ---      | ---         | ---         | ---         | ---         | 19.1        | 24.0        | ---         |             |  |  |  |  |
| 2.92                                       | 10.0        | 30.0   | 599             | 24.60       | 29.89 | 397             | 19.57       | 22.82 | 298            | 15.90       | 18.31 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | 20.1        |             |  |  |  |  |
| 2.94                                       | 12.0        | 36.0   | 596             | 29.97       | 34.45 | 395             | 24.67       | 27.14 | 296            | 20.20       | 21.97 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | ---         |             |  |  |  |  |
| 3.07                                       | 9.5         | 30.0   | 570             | 23.06       | 28.58 | 378             | 18.23       | 21.68 | 283            | 14.79       | 17.37 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | 20.4        |             |  |  |  |  |
| <b>ARC-LENGTH CORRECTION FACTOR --&gt;</b> |             |        |                 |             |       |                 |             |       |                |             |       | ---                       | ---      | <b>0.76</b> | <b>0.79</b> | <b>0.82</b> | <b>0.83</b> | <b>0.85</b> | <b>0.87</b> | <b>0.89</b> |             |  |  |  |  |
| 3.08                                       | 8.5         | 27.0   | 568             | 19.73       | 25.77 | 377             | 15.45       | 19.33 | 283            | 12.53       | 15.44 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | 19.4        | 24.3        |             |  |  |  |  |
| 3.08                                       | 14.0        | 44.0   | 568             | 33.88       | 37.82 | 376             | 29.29       | 31.05 | 282            | 24.25       | 25.41 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | ---         |             |  |  |  |  |
| 3.09                                       | 7.5         | 24.0   | 567             | 16.11       | 22.70 | 376             | 12.57       | 16.88 | 282            | 10.21       | 13.45 | ---                       | ---      | ---         | ---         | 17.2        | 20.0        | 23.3        | 28.0        | ---         |             |  |  |  |  |
| 3.19                                       | 11.0        | 36.0   | 648             | 27.47       | 32.32 | 363             | 22.18       | 25.04 | 272            | 18.08       | 20.17 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | ---         |             |  |  |  |  |
| 3.23                                       | 9.0         | 30.0   | 541             | 21.44       | 27.21 | 359             | 16.86       | 20.52 | 269            | 13.67       | 16.41 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | 20.7        |             |  |  |  |  |
| 3.26                                       | 8.0         | 27.0   | 536             | 17.96       | 24.27 | 356             | 14.03       | 18.12 | 267            | 11.38       | 14.45 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | 19.7        | 24.6        |             |  |  |  |  |
| 3.30                                       | 7.0         | 24.0   | 531             | 14.21       | 21.09 | 352             | 11.10       | 15.62 | 264            | 9.03        | 12.44 | ---                       | ---      | ---         | ---         | 17.6        | 20.3        | 23.6        | 28.3        | ---         |             |  |  |  |  |
| 3.31                                       | 13.0        | 44.0   | 528             | 32.13       | 36.30 | 350             | 27.05       | 29.15 | 263            | 22.26       | 23.72 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | ---         |             |  |  |  |  |
| 3.34                                       | 10.5        | 36.0   | 524             | 26.08       | 31.15 | 347             | 20.90       | 23.95 | 261            | 17.00       | 19.25 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | ---         |             |  |  |  |  |
| 3.42                                       | 8.5         | 30.0   | 512             | 19.74       | 25.77 | 340             | 15.46       | 19.33 | 255            | 12.53       | 15.44 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | 21.0        |             |  |  |  |  |
| 3.47                                       | 7.5         | 27.0   | 505             | 16.12       | 22.71 | 334             | 12.58       | 16.88 | 251            | 10.21       | 13.46 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | 20.0        | 25.0        |             |  |  |  |  |
| 3.50                                       | 10.0        | 36.0   | 500             | 24.62       | 29.90 | 331             | 19.58       | 22.83 | 249            | 15.91       | 18.32 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | ---         |             |  |  |  |  |
| 3.58                                       | 12.0        | 44.0   | 489             | 29.99       | 34.47 | 324             | 24.68       | 27.15 | 243            | 20.21       | 21.98 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | ---         |             |  |  |  |  |
| 3.62                                       | 8.0         | 30.0   | 484             | 17.97       | 24.28 | 321             | 14.04       | 18.12 | 240            | 11.38       | 14.46 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | 21.3        |             |  |  |  |  |
| 3.68                                       | 9.5         | 36.0   | 476             | 23.07       | 28.60 | 315             | 18.24       | 21.69 | 237            | 14.80       | 17.38 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | ---         |             |  |  |  |  |
| 3.70                                       | 7.0         | 27.0   | 473             | 14.22       | 21.10 | 313             | 11.10       | 15.63 | 235            | 9.04        | 12.44 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | 20.3        | 25.3        |             |  |  |  |  |
| 3.85                                       | 7.5         | 30.0   | 455             | 16.13       | 22.72 | 301             | 12.58       | 16.89 | 226            | 10.22       | 13.46 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | 21.6        |             |  |  |  |  |
| 3.87                                       | 9.0         | 36.0   | 452             | 21.45       | 27.22 | 300             | 16.87       | 20.53 | 225            | 13.68       | 16.42 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | ---         |             |  |  |  |  |
| 3.89                                       | 11.0        | 44.0   | 449             | 27.48       | 32.33 | 298             | 22.19       | 25.05 | 223            | 18.09       | 20.18 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | ---         |             |  |  |  |  |
| 4.07                                       | 10.5        | 44.0   | 430             | 26.10       | 31.16 | 285             | 20.91       | 23.95 | 214            | 17.01       | 19.26 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | ---         |             |  |  |  |  |
| <b>ARC-LENGTH CORRECTION FACTOR --&gt;</b> |             |        |                 |             |       |                 |             |       |                |             |       | ---                       | ---      | ---         | ---         | ---         | <b>0.74</b> | <b>0.77</b> | <b>0.80</b> | <b>0.84</b> |             |  |  |  |  |
| 4.09                                       | 8.5         | 36.0   | 428             | 19.75       | 25.79 | 284             | 15.47       | 19.34 | 213            | 12.54       | 15.45 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | ---         |             |  |  |  |  |
| 4.11                                       | 7.0         | 30.0   | 426             | 14.22       | 21.11 | 282             | 11.11       | 15.63 | 212            | 9.04        | 12.45 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | 21.9        |             |  |  |  |  |
| 4.27                                       | 10.0        | 44.0   | 410             | 24.63       | 29.92 | 272             | 19.59       | 22.84 | 204            | 15.92       | 18.33 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | ---         |             |  |  |  |  |
| 4.33                                       | 8.0         | 36.0   | 404             | 17.98       | 24.29 | 268             | 14.04       | 18.13 | 201            | 11.39       | 14.46 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | ---         |             |  |  |  |  |
| 4.48                                       | 9.5         | 44.0   | 390             | 23.08       | 28.61 | 259             | 18.24       | 21.70 | 194            | 14.81       | 17.38 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | ---         |             |  |  |  |  |
| 4.61                                       | 7.5         | 36.0   | 380             | 16.14       | 22.73 | 252             | 12.59       | 16.90 | 189            | 10.22       | 13.46 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | ---         |             |  |  |  |  |
| 4.72                                       | 9.0         | 44.0   | 370             | 21.46       | 27.23 | 246             | 16.87       | 20.53 | 184            | 13.68       | 16.42 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | ---         |             |  |  |  |  |
| 4.92                                       | 7.0         | 36.0   | 356             | 14.23       | 21.11 | 236             | 11.11       | 15.64 | 177            | 9.04        | 12.45 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | ---         |             |  |  |  |  |
| 4.99                                       | 8.5         | 44.0   | 351             | 19.76       | 25.79 | 233             | 15.47       | 19.35 | 174            | 12.54       | 15.45 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | ---         |             |  |  |  |  |
| 5.29                                       | 8.0         | 44.0   | 331             | 17.99       | 24.29 | 219             | 14.05       | 18.13 | 165            | 11.39       | 14.47 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | ---         |             |  |  |  |  |
| 5.62                                       | 7.5         | 44.0   | 311             | 16.15       | 22.74 | 206             | 12.59       | 16.90 | 155            | 10.23       | 13.47 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | ---         |             |  |  |  |  |
| 6.00                                       | 7.0         | 44.0   | 292             | 14.24       | 21.12 | 193             | 11.12       | 15.64 | 145            | 9.04        | 12.45 | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | ---         |             |  |  |  |  |
| <b>ARC-LENGTH CORRECTION FACTOR --&gt;</b> |             |        |                 |             |       |                 |             |       |                |             |       | ---                       | ---      | ---         | ---         | ---         | ---         | ---         | ---         | ---         | <b>0.79</b> |  |  |  |  |

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).



# SELECTION



## C S-L CLASSIC CX CLASSIC COG STOCK DRIVE SELECTIONS

| Ratio | Belt Size/Center Distance |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |
|-------|---------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|       | C112<br>CX112             | C120<br>CX120 | C128<br>CX128 | C136<br>CX136 | C144<br>CX144 | C158<br>CX158 | C162<br>CX162 | C173<br>CX173 | C180<br>CX180 | C195<br>CX195 | C210<br>CX210 | C240<br>CX240 | C270<br>CX270 | C300<br>CX300 | C330<br>CX330 | C360<br>CX360 | C390<br>CX390 | C420<br>CX420 |
| 2.29  | 34.6                      | 38.6          | 42.7          | 46.7          | 50.8          | 57.8          | 59.8          | 65.3          | 68.8          | 76.4          | 83.9          | 97.9          | 112.9         | 127.9         | 143.0         | 158.0         | 173.0         | 188.0         |
| 2.33  | 37.1                      | 41.1          | 45.1          | 49.2          | 53.2          | 60.2          | 62.2          | 67.7          | 71.2          | 78.8          | 86.3          | 100.3         | 115.3         | 130.3         | 145.3         | 160.3         | 175.4         | 190.4         |
| 2.35  | 29.9                      | 34.0          | 38.1          | 42.2          | 46.2          | 53.3          | 55.3          | 60.9          | 64.4          | 71.9          | 79.5          | 93.5          | 108.5         | 123.6         | 138.6         | 153.6         | 168.6         | 183.6         |
| 2.40  | 26.4                      | 30.6          | 34.7          | 38.8          | 42.9          | 50.0          | 52.0          | 57.6          | 61.1          | 68.7          | 76.2          | 90.3          | 105.3         | 120.4         | 135.4         | 150.4         | 165.4         | 180.4         |
| 2.43  | 35.0                      | 39.0          | 43.1          | 47.1          | 51.1          | 58.2          | 60.2          | 65.7          | 69.2          | 76.7          | 84.3          | 98.3          | 113.3         | 128.3         | 143.3         | 158.4         | 173.4         | 188.4         |
| 2.45  | 22.7                      | 27.0          | 31.2          | 35.3          | 39.5          | 46.6          | 48.6          | 54.2          | 57.8          | 65.4          | 72.9          | 87.0          | 102.1         | 117.1         | 132.2         | 147.2         | 162.2         | 177.3         |
| 2.48  | 30.3                      | 34.4          | 38.5          | 42.5          | 46.6          | 53.7          | 55.7          | 61.2          | 64.7          | 72.3          | 79.8          | 93.9          | 108.9         | 123.9         | 139.0         | 154.0         | 169.0         | 184.0         |
| 2.49  | 37.4                      | 41.5          | 45.5          | 49.5          | 53.5          | 60.6          | 62.6          | 68.1          | 71.6          | 79.1          | 86.7          | 100.7         | 115.7         | 130.7         | 145.7         | 160.7         | 175.7         | 190.7         |
| 2.51  | 26.7                      | 30.9          | 35.0          | 39.1          | 43.2          | 50.3          | 52.4          | 57.9          | 61.5          | 69.0          | 76.6          | 90.6          | 105.7         | 120.7         | 135.8         | 150.8         | 165.8         | 180.8         |
| 2.53  | ---                       | ---           | ---           | 28.0          | 32.3          | 39.7          | 41.8          | 47.4          | 51.0          | 58.7          | 66.3          | 80.4          | 95.6          | 110.7         | 125.7         | 140.8         | 155.8         | 170.8         |
| 2.58  | 35.3                      | 39.4          | 43.4          | 47.5          | 51.5          | 58.5          | 60.5          | 66.1          | 69.6          | 77.1          | 84.6          | 98.7          | 113.7         | 128.7         | 143.7         | 158.7         | 173.8         | 188.8         |
| 2.60  | 30.6                      | 34.7          | 38.8          | 42.9          | 46.9          | 54.0          | 56.0          | 61.6          | 65.1          | 72.7          | 80.2          | 94.2          | 109.3         | 124.3         | 139.3         | 154.4         | 169.4         | 184.4         |
| 2.63  | 27.1                      | 31.2          | 35.4          | 39.5          | 43.6          | 50.7          | 52.7          | 58.3          | 61.8          | 69.4          | 76.9          | 91.0          | 106.1         | 121.1         | 136.1         | 151.2         | 166.2         | 181.2         |
| 2.67  | 23.3                      | 27.6          | 31.8          | 36.0          | 40.1          | 47.3          | 49.4          | 54.9          | 58.5          | 66.1          | 73.7          | 87.8          | 102.8         | 117.9         | 132.9         | 148.0         | 163.0         | 178.0         |
| 2.71  | ---                       | ---           | ---           | ---           | ---           | 30.1          | 32.3          | 38.3          | 42.0          | 49.9          | 57.7          | 72.0          | 87.2          | 102.4         | 117.5         | 132.6         | 147.7         | 162.7         |
| 2.72  | ---                       | ---           | ---           | 28.7          | 33.0          | 40.3          | 42.4          | 48.1          | 51.7          | 59.4          | 67.0          | 81.2          | 96.3          | 111.4         | 126.5         | 141.5         | 156.6         | 171.6         |
| 2.74  | 31.0                      | 35.1          | 39.2          | 43.2          | 47.3          | 54.4          | 56.4          | 62.0          | 65.5          | 73.0          | 80.6          | 94.6          | 109.7         | 124.7         | 139.7         | 154.7         | 169.8         | 184.8         |
| 2.76  | 35.7                      | 39.7          | 43.8          | 47.8          | 51.8          | 58.9          | 60.9          | 66.4          | 70.0          | 77.5          | 85.0          | 99.0          | 114.1         | 129.1         | 144.1         | 159.1         | 174.1         | 189.1         |
| 2.77  | 27.4                      | 31.6          | 35.7          | 39.8          | 43.9          | 51.0          | 53.1          | 58.6          | 62.2          | 69.7          | 77.3          | 91.4          | 106.4         | 121.5         | 136.5         | 151.5         | 166.6         | 181.6         |
| 2.79  | 23.6                      | 28.0          | 32.2          | 36.3          | 40.5          | 47.7          | 49.7          | 55.3          | 58.8          | 66.4          | 74.0          | 88.1          | 103.2         | 118.3         | 133.3         | 148.3         | 163.4         | 178.4         |
| 2.90  | 31.3                      | 35.4          | 39.5          | 43.6          | 47.7          | 54.7          | 56.8          | 62.3          | 65.8          | 73.4          | 80.9          | 95.0          | 110.0         | 125.1         | 140.1         | 155.1         | 170.1         | 185.2         |
| 2.91  | 27.7                      | 31.9          | 36.1          | 40.2          | 44.3          | 51.4          | 53.4          | 59.0          | 62.5          | 70.1          | 77.7          | 91.7          | 106.8         | 121.9         | 136.9         | 151.9         | 166.9         | 182.0         |
| 2.92  | 24.0                      | 28.3          | 32.5          | 36.7          | 40.8          | 48.0          | 50.1          | 55.7          | 59.2          | 66.8          | 74.4          | 88.5          | 103.6         | 118.6         | 133.7         | 148.7         | 163.7         | 178.8         |
| 2.94  | ---                       | ---           | 24.9          | 29.3          | 33.6          | 41.0          | 43.1          | 48.8          | 52.4          | 60.1          | 67.7          | 81.9          | 97.0          | 112.1         | 127.2         | 142.3         | 157.3         | 172.4         |
| 3.07  | 24.3                      | 28.6          | 32.8          | 37.0          | 41.2          | 48.4          | 50.4          | 56.0          | 59.6          | 67.2          | 74.7          | 88.9          | 103.9         | 119.0         | 134.1         | 149.1         | 164.1         | 179.1         |
|       | <b>0.91</b>               | <b>0.93</b>   | <b>0.94</b>   | <b>0.95</b>   | <b>0.97</b>   | <b>1.00</b>   | <b>1.01</b>   | <b>1.02</b>   | <b>1.03</b>   | <b>1.05</b>   | <b>1.07</b>   | <b>1.10</b>   | <b>1.12</b>   | <b>1.15</b>   | <b>1.17</b>   | <b>1.19</b>   | <b>1.21</b>   | <b>1.23</b>   |
| 3.08  | 28.1                      | 32.3          | 36.4          | 40.5          | 44.6          | 51.8          | 53.8          | 59.4          | 62.9          | 70.5          | 78.0          | 92.1          | 107.2         | 122.2         | 137.3         | 152.3         | 167.3         | 182.3         |
| 3.08  | ---                       | ---           | ---           | ---           | ---           | 31.3          | 33.6          | 39.6          | 43.3          | 51.2          | 59.0          | 73.4          | 88.7          | 103.8         | 119.0         | 134.1         | 149.2         | 164.2         |
| 3.09  | 31.6                      | 35.8          | 39.9          | 43.9          | 48.0          | 55.1          | 57.1          | 62.7          | 66.2          | 73.8          | 81.3          | 95.4          | 110.4         | 125.5         | 140.5         | 155.5         | 170.5         | 185.5         |
| 3.19  | ---                       | ---           | 25.5          | 29.9          | 34.3          | 41.7          | 43.8          | 49.5          | 53.1          | 60.8          | 68.4          | 82.6          | 97.8          | 112.9         | 127.9         | 143.0         | 158.1         | 173.1         |
| 3.23  | 24.6                      | 28.9          | 33.2          | 37.4          | 41.5          | 48.7          | 50.7          | 56.4          | 59.9          | 67.5          | 75.1          | 89.2          | 104.3         | 119.4         | 134.4         | 149.5         | 164.5         | 179.5         |
| 3.26  | 28.4                      | 32.6          | 36.7          | 40.9          | 45.0          | 52.1          | 54.1          | 59.7          | 63.3          | 70.8          | 78.4          | 92.5          | 107.6         | 122.6         | 137.6         | 152.7         | 167.7         | 182.7         |
| 3.30  | 32.0                      | 36.1          | 40.2          | 44.3          | 48.4          | 55.5          | 57.5          | 63.0          | 66.6          | 74.1          | 81.7          | 95.7          | 110.8         | 125.8         | 140.9         | 155.9         | 170.9         | 185.9         |
| 3.31  | ---                       | ---           | ---           | ---           | ---           | 31.9          | 34.2          | 40.2          | 44.0          | 51.9          | 59.7          | 74.1          | 89.4          | 104.6         | 119.7         | 134.8         | 149.9         | 165.0         |
| 3.34  | ---                       | ---           | 25.8          | 30.3          | 34.6          | 42.0          | 44.1          | 49.8          | 53.4          | 61.1          | 68.8          | 83.0          | 98.1          | 113.2         | 128.3         | 143.4         | 158.4         | 173.5         |
| 3.42  | 24.9                      | 29.3          | 33.5          | 37.7          | 41.8          | 49.0          | 51.1          | 56.7          | 60.3          | 67.9          | 75.5          | 89.6          | 104.7         | 119.7         | 134.8         | 149.8         | 164.9         | 179.9         |
| 3.47  | 28.7                      | 32.9          | 37.1          | 41.2          | 45.3          | 52.5          | 54.5          | 60.1          | 63.6          | 71.2          | 78.8          | 92.9          | 107.9         | 123.0         | 138.0         | 153.1         | 168.1         | 183.1         |
| 3.50  | ---                       | ---           | 26.1          | 30.6          | 34.9          | 42.3          | 44.4          | 50.2          | 53.8          | 61.5          | 69.1          | 83.3          | 98.5          | 113.6         | 128.7         | 143.8         | 158.8         | 173.9         |
| 3.58  | ---                       | ---           | ---           | ---           | ---           | 32.6          | 34.8          | 40.9          | 44.6          | 52.6          | 60.4          | 74.8          | 90.1          | 105.3         | 120.4         | 135.5         | 150.6         | 165.7         |
| 3.62  | 25.2                      | 29.6          | 33.8          | 38.0          | 42.2          | 49.4          | 51.4          | 57.1          | 60.6          | 68.2          | 75.8          | 89.9          | 105.0         | 120.1         | 135.2         | 150.2         | 165.3         | 180.3         |
| 3.68  | ---                       | ---           | 26.4          | 30.9          | 35.2          | 42.7          | 44.8          | 50.5          | 54.1          | 61.8          | 69.5          | 83.7          | 98.8          | 114.0         | 129.1         | 144.1         | 159.2         | 174.2         |
| 3.70  | 29.0                      | 33.3          | 37.4          | 41.6          | 45.7          | 52.8          | 54.8          | 60.4          | 64.0          | 71.6          | 79.1          | 93.2          | 108.3         | 123.4         | 138.4         | 153.4         | 168.5         | 183.5         |
| 3.85  | 25.5                      | 29.9          | 34.2          | 38.4          | 42.5          | 49.7          | 51.8          | 57.4          | 61.0          | 68.6          | 76.2          | 90.3          | 105.4         | 120.5         | 135.5         | 150.6         | 165.6         | 180.7         |
| 3.87  | ---                       | ---           | 26.7          | 31.2          | 35.6          | 43.0          | 45.1          | 50.8          | 54.5          | 62.2          | 69.8          | 84.0          | 99.2          | 114.3         | 129.4         | 144.5         | 159.6         | 174.6         |
| 3.89  | ---                       | ---           | ---           | ---           | ---           | 33.2          | 35.4          | 41.5          | 45.3          | 53.2          | 61.0          | 75.5          | 90.8          | 106.0         | 121.2         | 136.3         | 151.4         | 166.5         |
| 4.07  | ---                       | ---           | ---           | ---           | ---           | 33.5          | 35.7          | 41.8          | 45.6          | 53.5          | 61.4          | 75.8          | 91.1          | 106.3         | 121.5         | 136.6         | 151.7         | 166.8         |
|       | <b>0.86</b>               | <b>0.89</b>   | <b>0.91</b>   | <b>0.93</b>   | <b>0.95</b>   | <b>0.97</b>   | <b>0.98</b>   | <b>1.00</b>   | <b>1.01</b>   | <b>1.03</b>   | <b>1.05</b>   | <b>1.08</b>   | <b>1.11</b>   | <b>1.14</b>   | <b>1.16</b>   | <b>1.19</b>   | <b>1.20</b>   | <b>1.22</b>   |
| 4.09  | ---                       | 22.3          | 27.0          | 31.5          | 35.9          | 43.3          | 45.4          | 51.2          | 54.8          | 62.5          | 70.2          | 84.4          | 99.6          | 114.7         | 129.8         | 144.9         | 159.9         | 175.0         |
| 4.11  | 25.8                      | 30.2          | 34.5          | 38.7          | 42.9          | 50.1          | 52.1          | 57.8          | 61.3          | 68.9          | 76.5          | 90.7          | 105.8         | 120.9         | 135.9         | 151.0         | 166.0         | 181.0         |
| 4.27  | ---                       | ---           | ---           | ---           | ---           | 33.8          | 36.1          | 42.1          | 45.9          | 53.9          | 61.7          | 76.2          | 91.5          | 106.7         | 121.9         | 137.0         | 152.1         | 167.2         |
| 4.33  | ---                       | 22.6          | 27.3          | 31.8          | 36.2          | 43.7          | 45.8          | 51.5          | 55.1          | 62.9          | 70.5          | 84.8          | 99.9          | 115.1         | 130.2         | 145.2         | 160.3         | 175.4         |
| 4.48  | ---                       | ---           | ---           | ---           | ---           | 34.1          | 36.4          | 42.4          | 46.2          | 54.2          | 62.1          | 76.5          | 91.8          | 107.1         | 122.2         | 137.4         | 152.5         | 167.6         |
| 4.61  | ---                       | 22.9          | 27.6          | 32.1          | 36.5          | 44.0          | 46.1          | 51.8          | 55.5          | 63.2          | 70.9          | 85.1          | 100.3         | 115.4         | 130.5         | 145.6         | 160.7         | 175.7         |
| 4.72  | ---                       | ---           | ---           | ---           | ---           | 34.4          | 36.7          | 42.8          | 46.6          | 54.5          | 62.4          | 76.9          | 92.2          | 107.4         | 122.6         | 137.7         | 152.8         | 167.9         |
| 4.92  | ---                       | 23.2          | 27.9          | 32.5          | 36.8          | 44.3          | 46.4          | 52.2          | 55.8          | 63.5          | 71.2          | 85.5          | 100.7         | 115.8         | 130.9         | 146.0         | 161.0         | 176.1         |
| 4.99  | ---                       | ---           | ---           | ---           | ---           | 34.7          | 37.0          | 43.1          | 46.9          | 54.9          | 62.7          | 77.2          | 92.5          | 107.8         | 123.0         | 138.1         | 153.2         | 168.3         |
| 5.29  | ---                       | ---           | ---           | ---           | 26.5          | 35.0          | 37.3          | 43.4          | 47.2          | 55.2          | 63.1          | 77.5          | 92.9          | 108.1         | 123.3         | 138.5         | 153.6         | 168.7         |
| 5.62  | ---                       | ---           | ---           | ---           | 26.8          | 35.3          | 37.6          | 43.7          | 47.5          | 55.5          | 63.4          | 77.9          | 93.2          | 108.5         | 123.7         | 138.8         | 153.9         | 169.0         |
| 6.00  | ---                       | ---           | ---           | ---           | 27.1          | 35.6          | 37.9          | 44.0          | 47.8          | 55.9          | 63.7          | 78.2          | 93.6          | 108.8         | 124.0         | 139.2         | 154.3         | 169.4         |
|       | <b>0.82</b>               | <b>0.85</b>   | <b>0.87</b>   | <b>0.89</b>   | <b>0.91</b>   | <b>0.95</b>   | <b>0.96</b>   | <b>0.98</b>   | <b>0.99</b>   | <b>1.01</b>   | <b>1.04</b>   | <b>1.07</b>   | <b>1.10</b>   | <b>1.13</b>   | <b>1.16</b>   | <b>1.18</b>   | <b>1.20</b>   | <b>1.22</b>   |

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets



# SELECTION

## STOCK DRIVE SELECTIONS

**D S-L CLASSIC**

| Ratio                                      | Stock Shv. Datum Diam. |        | 1160 RPM Driver |           | 870 RPM Driver |           | 690 RPM Driver |           | Belt Size/Center Distance |             |             |             |             |             |
|--|------------------------|--------|-----------------|-----------|----------------|-----------|----------------|-----------|---------------------------|-------------|-------------|-------------|-------------|-------------|
|  | Driver                 | Driven | Driven RPM      | HP/Belt D | Driven RPM     | HP/Belt D | Driven RPM     | HP/Belt D | D120                      | D128        | D144        | D158        | D162        | D173        |
|  | 1.00                   | 12.00  | 12.00           | 1160      | 28.43          | 870       | 24.56          | 690       | 21.13                     | 42.8        | 46.8        | 54.8        | 61.8        | 63.8        |
| 1.00                                       | 13.00                  | 13.00  | 1160            | 32.81     | 870            | 28.39     | 690            | 24.40     | 41.2                      | 45.2        | 53.2        | 60.2        | 62.2        | 67.7        |
| 1.00                                       | 13.50                  | 13.50  | 1160            | 34.92     | 870            | 30.26     | 690            | 26.02     | 40.5                      | 44.5        | 52.5        | 59.5        | 61.5        | 67.0        |
| 1.00                                       | 14.00                  | 14.00  | 1160            | 36.96     | 870            | 32.10     | 690            | 27.61     | 39.7                      | 43.7        | 51.7        | 58.7        | 60.7        | 66.2        |
| 1.00                                       | 14.50                  | 14.50  | 1160            | 38.93     | 870            | 33.92     | 690            | 29.19     | 38.9                      | 42.9        | 50.9        | 57.9        | 59.9        | 65.4        |
| 1.00                                       | 15.00                  | 15.00  | 1160            | 40.84     | 870            | 35.70     | 690            | 30.75     | 38.1                      | 42.1        | 50.1        | 57.1        | 59.1        | 64.6        |
| 1.00                                       | 15.50                  | 15.50  | 1160            | 42.68     | 870            | 37.45     | 690            | 32.30     | 37.3                      | 41.3        | 49.3        | 56.3        | 58.3        | 63.8        |
| 1.00                                       | 16.00                  | 16.00  | 1160            | 44.46     | 870            | 39.16     | 690            | 33.82     | 36.5                      | 40.5        | 48.5        | 55.5        | 57.5        | 63.0        |
| 1.00                                       | 18.00                  | 18.00  | 1160            | 50.84     | 870            | 45.70     | 690            | 39.74     | 33.4                      | 37.4        | 45.4        | 52.4        | 54.4        | 59.9        |
| 1.00                                       | 22.00                  | 22.00  | 1160            | ---       | 870            | 57.07     | 690            | 50.64     | 27.1                      | 31.1        | 39.1        | 46.1        | 48.1        | 53.6        |
| 1.03                                       | 15.50                  | 16.00  | 1125            | 43.34     | 844            | 37.94     | 669            | 32.69     | 36.9                      | 40.9        | 48.9        | 55.9        | 57.9        | 63.4        |
| 1.03                                       | 15.00                  | 15.50  | 1124            | 41.52     | 843            | 36.20     | 669            | 31.16     | 37.7                      | 41.7        | 49.7        | 56.7        | 58.7        | 64.2        |
| 1.03                                       | 14.50                  | 15.00  | 1123            | 39.63     | 842            | 34.44     | 668            | 29.61     | 38.5                      | 42.5        | 50.5        | 57.5        | 59.5        | 65.0        |
| 1.03                                       | 14.00                  | 14.50  | 1122            | 37.67     | 841            | 32.64     | 667            | 28.04     | 39.3                      | 43.3        | 51.3        | 58.3        | 60.3        | 65.8        |
| 1.04                                       | 13.50                  | 14.00  | 1120            | 35.66     | 840            | 30.82     | 666            | 26.46     | 40.1                      | 44.1        | 52.1        | 59.1        | 61.1        | 66.6        |
| 1.04                                       | 13.00                  | 13.50  | 1119            | 33.58     | 839            | 28.96     | 666            | 24.86     | 40.8                      | 44.8        | 52.8        | 59.8        | 61.8        | 67.3        |
| 1.06                                       | 15.00                  | 16.00  | 1090            | 42.09     | 818            | 36.64     | 648            | 31.50     | 37.3                      | 41.3        | 49.3        | 46.3        | 58.3        | 63.8        |
| 1.07                                       | 14.50                  | 15.50  | 1088            | 40.22     | 816            | 34.88     | 647            | 29.96     | 38.1                      | 42.1        | 50.1        | 57.1        | 59.1        | 64.6        |
| 1.07                                       | 14.00                  | 15.00  | 1086            | 38.28     | 814            | 33.10     | 646            | 28.40     | 38.9                      | 42.9        | 50.9        | 57.9        | 59.9        | 65.4        |
| 1.07                                       | 13.50                  | 14.50  | 1083            | 36.28     | 812            | 31.28     | 644            | 26.83     | 39.7                      | 43.7        | 51.7        | 58.7        | 60.7        | 66.2        |
| 1.07                                       | 13.00                  | 14.00  | 1081            | 34.22     | 810            | 29.44     | 643            | 25.24     | 40.5                      | 44.5        | 52.5        | 59.5        | 61.5        | 67.0        |
| 1.08                                       | 12.00                  | 13.00  | 1075            | 29.93     | 806            | 25.68     | 639            | 22.02     | 42.0                      | 46.0        | 54.0        | 61.0        | 63.0        | 68.5        |
| 1.10                                       | 14.50                  | 16.00  | 1055            | 40.72     | 791            | 35.26     | 628            | 30.26     | 37.7                      | 41.7        | 49.7        | 56.7        | 58.7        | 64.2        |
| 1.10                                       | 14.00                  | 15.50  | 1052            | 38.79     | 789            | 33.48     | 626            | 28.70     | 38.5                      | 42.5        | 50.5        | 57.5        | 59.5        | 65.0        |
| 1.11                                       | 13.50                  | 15.00  | 1048            | 36.80     | 786            | 31.67     | 624            | 27.14     | 39.3                      | 43.3        | 51.3        | 58.3        | 60.3        | 65.8        |
| <b>ARC-LENGTH CORRECTION FACTOR --&gt;</b> |                        |        |                 |           |                |           |                |           | <b>0.86</b>               | <b>0.87</b> | <b>0.90</b> | <b>0.92</b> | <b>0.92</b> | <b>0.93</b> |
| 1.11                                       | 18.00                  | 20.00  | 1047            | 52.74     | 786            | 47.13     | 623            | 40.87     | 31.8                      | 35.8        | 43.8        | 50.8        | 52.8        | 58.3        |
| 1.11                                       | 13.00                  | 14.50  | 1045            | 34.85     | 784            | 29.84     | 621            | 25.55     | 40.1                      | 44.1        | 52.1        | 59.1        | 61.1        | 66.6        |
| 1.12                                       | 12.00                  | 13.50  | 1037            | 30.48     | 777            | 26.09     | 617            | 22.34     | 41.6                      | 45.6        | 53.6        | 60.6        | 62.6        | 68.1        |
| 1.12                                       | 16.00                  | 18.00  | 1035            | 46.53     | 776            | 40.71     | 616            | 35.05     | 34.9                      | 38.9        | 46.9        | 54.0        | 56.0        | 61.5        |
| 1.14                                       | 14.00                  | 16.00  | 1020            | 39.22     | 765            | 33.80     | 607            | 28.96     | 38.1                      | 42.1        | 50.1        | 57.1        | 59.1        | 64.6        |
| 1.14                                       | 13.50                  | 15.50  | 1016            | 37.24     | 762            | 32.00     | 604            | 27.40     | 38.9                      | 42.9        | 50.9        | 57.1        | 59.9        | 65.4        |
| 1.15                                       | 13.00                  | 15.00  | 1011            | 35.19     | 758            | 30.17     | 602            | 25.82     | 39.7                      | 43.7        | 51.7        | 58.7        | 60.7        | 66.2        |
| 1.16                                       | 15.50                  | 18.00  | 1004            | 45.15     | 753            | 39.30     | 597            | 33.76     | 35.3                      | 39.3        | 47.3        | 54.3        | 56.3        | 61.2        |
| 1.16                                       | 12.00                  | 14.00  | 1001            | 30.93     | 751            | 26.44     | 595            | 22.61     | 41.2                      | 45.2        | 53.2        | 60.2        | 62.2        | 67.7        |
| 1.18                                       | 13.50                  | 16.00  | 985             | 37.60     | 739            | 32.28     | 586            | 27.62     | 38.5                      | 42.5        | 50.5        | 57.5        | 59.5        | 65.0        |
| 1.18                                       | 13.00                  | 15.50  | 980             | 35.56     | 735            | 30.45     | 583            | 26.04     | 39.3                      | 43.3        | 51.3        | 58.3        | 60.3        | 65.8        |
| 1.19                                       | 15.00                  | 18.00  | 973             | 43.67     | 730            | 37.82     | 579            | 32.43     | 35.7                      | 39.7        | 47.7        | 54.7        | 56.7        | 62.2        |
| 1.20                                       | 12.00                  | 14.50  | 968             | 31.31     | 726            | 26.72     | 576            | 22.84     | 40.8                      | 44.8        | 52.8        | 59.8        | 61.8        | 67.3        |
| 1.22                                       | 18.00                  | 22.00  | 955             | 53.86     | 716            | 47.97     | 568            | 41.53     | 30.2                      | 34.2        | 42.2        | 49.2        | 51.2        | 56.7        |
| 1.22                                       | 13.00                  | 16.00  | 950             | 35.87     | 713            | 30.68     | 565            | 26.22     | 38.9                      | 42.9        | 50.9        | 57.9        | 59.9        | 65.4        |
| 1.22                                       | 22.00                  | 27.00  | 950             | ---       | 712            | 59.37     | 565            | 52.46     | ---                       | 27.1        | 35.1        | 42.1        | 44.1        | 49.6        |
| 1.23                                       | 14.50                  | 18.00  | 942             | 42.08     | 706            | 36.27     | 560            | 31.06     | 36.1                      | 40.1        | 48.1        | 55.1        | 57.1        | 62.6        |
| 1.24                                       | 12.00                  | 15.00  | 937             | 31.62     | 703            | 26.95     | 557            | 23.02     | 40.4                      | 44.4        | 52.4        | 59.4        | 61.4        | 66.9        |
| 1.24                                       | 16.00                  | 20.00  | 935             | 47.67     | 701            | 41.57     | 556            | 35.73     | 33.3                      | 37.3        | 45.3        | 52.4        | 54.4        | 59.9        |
| 1.27                                       | 14.00                  | 18.00  | 911             | 40.38     | 683            | 34.67     | 542            | 29.65     | 36.5                      | 40.5        | 48.5        | 55.5        | 57.5        | 63.0        |
| 1.28                                       | 12.00                  | 15.50  | 908             | 31.88     | 681            | 27.15     | 540            | 23.18     | 40.0                      | 44.0        | 52.0        | 59.0        | 61.0        | 66.5        |
| 1.28                                       | 15.50                  | 20.00  | 907             | 46.14     | 680            | 40.04     | 539            | 34.36     | 33.7                      | 37.7        | 45.7        | 52.7        | 54.7        | 60.2        |
| 1.32                                       | 12.00                  | 16.00  | 880             | 32.10     | 660            | 27.31     | 524            | 23.31     | 39.6                      | 43.6        | 51.6        | 58.6        | 60.6        | 66.1        |
| 1.32                                       | 13.50                  | 18.00  | 879             | 38.59     | 660            | 33.02     | 523            | 28.20     | 36.9                      | 40.9        | 48.9        | 55.9        | 57.9        | 63.4        |
| 1.32                                       | 15.00                  | 20.00  | 878             | 44.52     | 659            | 38.46     | 523            | 32.94     | 34.1                      | 38.1        | 46.1        | 53.1        | 55.1        | 60.6        |
| 1.36                                       | 16.00                  | 22.00  | 852             | 48.33     | 639            | 42.07     | 507            | 36.12     | 31.7                      | 35.7        | 43.7        | 50.7        | 52.7        | 58.2        |
| 1.36                                       | 14.50                  | 20.00  | 850             | 42.81     | 638            | 36.83     | 506            | 31.50     | 34.5                      | 38.5        | 46.5        | 53.5        | 55.5        | 61.0        |
| 1.37                                       | 13.00                  | 18.00  | 848             | 36.71     | 636            | 31.31     | 505            | 26.72     | 37.2                      | 41.2        | 49.2        | 56.2        | 58.2        | 63.7        |
| 1.40                                       | 15.50                  | 22.00  | 826             | 46.72     | 620            | 40.47     | 492            | 34.69     | 32.0                      | 36.1        | 44.1        | 51.1        | 53.1        | 58.6        |
| 1.41                                       | 14.00                  | 20.00  | 822             | 41.01     | 617            | 35.15     | 489            | 30.03     | 34.8                      | 38.8        | 46.8        | 53.8        | 55.8        | 61.3        |
| 1.45                                       | 15.00                  | 22.00  | 801             | 45.02     | 601            | 38.83     | 476            | 33.24     | 32.4                      | 36.4        | 44.4        | 51.4        | 53.4        | 58.9        |
| 1.46                                       | 13.50                  | 20.00  | 794             | 39.13     | 595            | 33.42     | 472            | 28.52     | 35.2                      | 39.2        | 47.2        | 54.2        | 56.2        | 61.7        |
| 1.48                                       | 12.00                  | 18.00  | 786             | 32.68     | 589            | 27.75     | 467            | 23.66     | 38.0                      | 42.0        | 50.0        | 57.0        | 59.0        | 64.5        |
| 1.48                                       | 18.00                  | 27.00  | 782             | 55.12     | 586            | 48.91     | 465            | 42.28     | 25.9                      | 30.0        | 38.1        | 45.1        | 47.1        | 52.6        |
| 1.49                                       | 22.00                  | 33.00  | 780             | ---       | 585            | 60.28     | 464            | 53.18     | ---                       | ---         | 30.0        | 37.1        | 39.1        | 44.6        |
| <b>ARC-LENGTH CORRECTION FACTOR --&gt;</b> |                        |        |                 |           |                |           |                |           | <b>0.84</b>               | <b>0.86</b> | <b>0.88</b> | <b>0.90</b> | <b>0.91</b> | <b>0.92</b> |

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).



# SELECTION



|          |                    |
|----------|--------------------|
| <b>D</b> | <b>S-L CLASSIC</b> |
|----------|--------------------|

## STOCK DRIVE SELECTIONS

| Ratio | Belt Size/Center Distance |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-------|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|       | D180                      | D195        | D210        | D225        | D240        | D255        | D270        | D300        | D315        | D330        | D360        | D390        | D420        | D480        | D540        | D600        | D660        |             |
| 1.00  | 72.8                      | 80.3        | 87.8        | 94.1        | 101.6       | 109.1       | 116.6       | 131.6       | 139.1       | 146.6       | 161.6       | 176.6       | 191.6       | 221.6       | 251.6       | 281.6       | 311.6       |             |
| 1.00  | 71.2                      | 78.7        | 86.2        | 92.5        | 100.0       | 107.5       | 115.0       | 130.0       | 137.5       | 145.0       | 160.0       | 175.0       | 190.0       | 220.0       | 250.0       | 280.0       | 310.0       |             |
| 1.00  | 70.5                      | 78.0        | 85.5        | 91.7        | 99.2        | 106.7       | 114.2       | 129.2       | 136.7       | 144.2       | 159.2       | 174.2       | 189.2       | 219.2       | 249.2       | 279.2       | 309.2       |             |
| 1.00  | 69.7                      | 77.2        | 84.7        | 90.9        | 98.4        | 105.9       | 113.4       | 128.4       | 135.9       | 143.4       | 158.4       | 173.4       | 188.4       | 218.4       | 248.4       | 278.4       | 308.4       |             |
| 1.00  | 68.9                      | 76.4        | 83.4        | 90.1        | 97.6        | 105.1       | 112.6       | 127.6       | 135.1       | 142.6       | 157.6       | 172.6       | 187.6       | 217.6       | 247.6       | 277.6       | 307.6       |             |
| 1.00  | 68.1                      | 75.6        | 83.1        | 89.4        | 96.8        | 104.4       | 111.9       | 126.9       | 134.4       | 141.8       | 156.8       | 171.8       | 186.9       | 216.9       | 246.8       | 276.9       | 306.9       |             |
| 1.00  | 67.3                      | 74.8        | 82.3        | 88.6        | 96.1        | 103.6       | 111.1       | 126.1       | 133.6       | 141.1       | 156.1       | 171.1       | 186.1       | 216.1       | 246.1       | 276.1       | 306.1       |             |
| 1.00  | 66.5                      | 74.0        | 81.5        | 87.8        | 95.3        | 102.8       | 110.3       | 125.3       | 132.8       | 140.3       | 155.3       | 170.3       | 185.3       | 215.3       | 245.3       | 275.3       | 305.3       |             |
| 1.00  | 63.4                      | 70.9        | 78.4        | 84.6        | 92.1        | 99.6        | 107.1       | 122.1       | 129.6       | 137.1       | 152.1       | 167.1       | 182.1       | 212.1       | 242.1       | 272.1       | 302.1       |             |
| 1.00  | 57.1                      | 64.6        | 72.1        | 78.4        | 85.9        | 93.4        | 100.9       | 115.9       | 123.4       | 130.9       | 145.9       | 160.9       | 175.9       | 205.9       | 235.9       | 265.9       | 295.9       |             |
| 1.03  | 66.9                      | 74.4        | 81.9        | 88.2        | 95.7        | 103.2       | 110.7       | 125.7       | 133.2       | 140.7       | 155.7       | 170.7       | 185.7       | 215.7       | 245.7       | 275.7       | 305.7       |             |
| 1.03  | 67.7                      | 75.2        | 82.7        | 89.0        | 96.5        | 104.0       | 111.5       | 126.5       | 134.0       | 141.5       | 156.5       | 171.5       | 186.5       | 216.5       | 246.5       | 276.5       | 306.5       |             |
| 1.03  | 68.5                      | 76.0        | 83.5        | 89.7        | 97.2        | 104.7       | 112.2       | 127.2       | 134.7       | 142.2       | 157.2       | 172.2       | 187.2       | 217.2       | 247.2       | 277.2       | 307.2       |             |
| 1.03  | 69.3                      | 76.8        | 84.3        | 90.5        | 98.0        | 105.5       | 113.0       | 128.0       | 135.5       | 143.0       | 158.0       | 173.0       | 188.0       | 218.0       | 248.0       | 278.0       | 308.0       |             |
| 1.04  | 70.1                      | 77.6        | 85.1        | 91.3        | 98.8        | 106.3       | 113.8       | 128.8       | 136.3       | 143.8       | 158.8       | 173.8       | 188.8       | 218.8       | 248.8       | 278.8       | 308.8       |             |
| 1.04  | 70.8                      | 78.3        | 85.8        | 92.1        | 99.6        | 107.1       | 114.6       | 129.6       | 137.1       | 144.6       | 159.6       | 174.6       | 189.6       | 219.6       | 249.6       | 279.6       | 309.6       |             |
| 1.06  | 67.3                      | 74.8        | 82.3        | 88.6        | 96.1        | 103.6       | 111.1       | 126.1       | 133.6       | 141.1       | 156.1       | 171.1       | 186.1       | 216.1       | 246.1       | 276.1       | 306.1       |             |
| 1.07  | 68.1                      | 75.6        | 83.1        | 89.3        | 96.8        | 104.3       | 111.8       | 126.8       | 134.3       | 141.8       | 156.8       | 171.8       | 186.8       | 216.8       | 246.8       | 276.8       | 306.8       |             |
| 1.07  | 68.9                      | 76.4        | 83.9        | 90.1        | 97.6        | 105.1       | 112.6       | 127.6       | 135.1       | 142.6       | 157.6       | 172.6       | 187.6       | 217.6       | 247.6       | 277.6       | 307.6       |             |
| 1.07  | 69.7                      | 77.2        | 84.7        | 90.9        | 98.4        | 105.9       | 113.4       | 128.4       | 135.9       | 143.4       | 158.4       | 173.4       | 188.4       | 218.4       | 248.4       | 278.4       | 308.4       |             |
| 1.07  | 70.5                      | 78.0        | 85.5        | 91.5        | 99.2        | 106.7       | 114.2       | 129.2       | 136.7       | 144.2       | 159.2       | 174.2       | 189.2       | 219.2       | 249.2       | 279.2       | 309.2       |             |
| 1.08  | 72.0                      | 79.5        | 87.0        | 93.3        | 100.8       | 108.3       | 115.8       | 130.8       | 138.3       | 145.8       | 160.8       | 175.8       | 190.8       | 220.8       | 250.8       | 280.8       | 310.8       |             |
| 1.10  | 67.7                      | 75.2        | 82.7        | 89.0        | 96.5        | 104.0       | 111.5       | 126.5       | 134.0       | 141.5       | 156.5       | 171.5       | 186.5       | 216.5       | 246.5       | 276.5       | 306.5       |             |
| 1.10  | 68.5                      | 76.0        | 83.5        | 89.7        | 97.2        | 104.7       | 112.2       | 127.2       | 134.7       | 142.2       | 157.2       | 172.2       | 187.2       | 217.2       | 247.2       | 277.2       | 307.2       |             |
| 1.11  | 69.3                      | 76.8        | 84.3        | 90.5        | 98.0        | 105.5       | 113.0       | 128.0       | 135.5       | 143.0       | 158.0       | 173.0       | 188.0       | 218.0       | 248.0       | 278.0       | 308.0       |             |
|       | <b>0.94</b>               | <b>0.96</b> | <b>0.97</b> | <b>0.99</b> | <b>1.00</b> | <b>1.01</b> | <b>1.02</b> | <b>1.04</b> | <b>1.05</b> | <b>1.05</b> | <b>1.05</b> | <b>1.08</b> | <b>1.10</b> | <b>1.11</b> | <b>1.14</b> | <b>1.16</b> | <b>1.19</b> | <b>1.20</b> |
| 1.11  | 61.8                      | 69.3        | 76.8        | 83.1        | 90.6        | 98.1        | 105.6       | 120.6       | 128.1       | 135.6       | 150.6       | 165.6       | 180.6       | 210.6       | 240.6       | 270.6       | 300.6       |             |
| 1.11  | 70.1                      | 77.6        | 85.1        | 91.3        | 98.8        | 106.3       | 113.8       | 128.8       | 136.3       | 143.8       | 158.8       | 173.8       | 188.8       | 218.8       | 248.8       | 278.8       | 308.8       |             |
| 1.12  | 71.6                      | 79.1        | 86.6        | 92.9        | 100.4       | 107.9       | 115.4       | 130.4       | 137.9       | 145.4       | 160.4       | 175.4       | 190.4       | 220.4       | 250.4       | 280.4       | 310.4       |             |
| 1.12  | 65.0                      | 72.5        | 80.0        | 86.2        | 93.7        | 101.2       | 108.7       | 123.7       | 131.2       | 138.7       | 153.7       | 168.7       | 183.7       | 213.7       | 243.7       | 273.7       | 303.7       |             |
| 1.14  | 68.1                      | 75.6        | 83.1        | 89.3        | 96.8        | 104.3       | 111.8       | 126.8       | 134.3       | 141.8       | 156.8       | 171.8       | 186.8       | 216.8       | 246.8       | 276.8       | 306.8       |             |
| 1.14  | 68.9                      | 76.4        | 83.9        | 90.1        | 97.6        | 105.1       | 112.6       | 127.6       | 135.1       | 142.6       | 157.6       | 172.6       | 187.6       | 217.6       | 247.6       | 277.6       | 307.6       |             |
| 1.15  | 69.7                      | 77.2        | 84.7        | 90.9        | 98.4        | 105.9       | 113.4       | 128.4       | 135.9       | 143.4       | 158.4       | 173.4       | 188.4       | 218.4       | 248.4       | 278.4       | 308.4       |             |
| 1.16  | 65.3                      | 72.8        | 80.3        | 86.6        | 94.1        | 101.6       | 109.1       | 124.1       | 131.6       | 139.1       | 154.1       | 169.1       | 184.1       | 214.1       | 244.1       | 274.1       | 304.1       |             |
| 1.16  | 71.2                      | 78.7        | 86.2        | 92.5        | 100.0       | 107.5       | 115.0       | 130.0       | 137.5       | 145.0       | 160.0       | 175.0       | 190.0       | 220.0       | 250.0       | 280.0       | 310.0       |             |
| 1.18  | 68.5                      | 76.0        | 83.5        | 89.7        | 97.2        | 104.7       | 112.2       | 127.2       | 134.7       | 142.2       | 157.2       | 172.2       | 187.2       | 217.2       | 247.2       | 277.2       | 307.2       |             |
| 1.18  | 69.3                      | 76.8        | 84.3        | 90.5        | 98.0        | 105.5       | 113.0       | 128.0       | 135.5       | 143.0       | 158.0       | 173.0       | 188.0       | 218.0       | 248.0       | 278.0       | 308.0       |             |
| 1.19  | 65.7                      | 73.2        | 80.7        | 87.0        | 94.5        | 102.0       | 109.5       | 124.5       | 132.0       | 139.5       | 154.5       | 169.5       | 184.5       | 214.5       | 244.5       | 274.5       | 304.5       |             |
| 1.20  | 70.8                      | 78.3        | 85.8        | 92.1        | 99.6        | 107.1       | 114.6       | 129.6       | 137.1       | 144.6       | 159.6       | 174.6       | 189.6       | 219.6       | 249.6       | 279.6       | 309.6       |             |
| 1.22  | 60.2                      | 67.7        | 75.2        | 81.5        | 89.0        | 96.5        | 104.0       | 119.0       | 126.5       | 134.0       | 149.0       | 164.0       | 179.0       | 209.0       | 239.0       | 269.0       | 299.0       |             |
| 1.22  | 68.9                      | 76.4        | 83.9        | 90.1        | 97.6        | 105.1       | 112.6       | 127.6       | 135.1       | 142.6       | 157.6       | 172.6       | 187.6       | 217.6       | 247.6       | 277.6       | 307.6       |             |
| 1.22  | 53.1                      | 60.6        | 68.1        | 74.4        | 81.9        | 89.4        | 96.9        | 111.9       | 119.4       | 126.9       | 141.9       | 156.9       | 171.9       | 201.9       | 231.9       | 261.9       | 291.9       |             |
| 1.23  | 66.1                      | 73.6        | 81.1        | 87.4        | 94.9        | 102.4       | 109.9       | 124.9       | 132.4       | 139.9       | 154.9       | 169.9       | 184.9       | 214.9       | 244.9       | 274.9       | 304.9       |             |
| 1.24  | 70.4                      | 77.9        | 85.4        | 91.7        | 99.2        | 106.7       | 114.2       | 129.2       | 136.7       | 144.2       | 159.2       | 174.2       | 189.2       | 219.2       | 249.2       | 279.2       | 309.2       |             |
| 1.24  | 63.4                      | 70.9        | 78.4        | 84.6        | 92.1        | 99.6        | 107.1       | 122.1       | 129.6       | 137.1       | 152.1       | 167.1       | 182.1       | 212.1       | 242.1       | 272.1       | 302.1       |             |
| 1.27  | 66.5                      | 74.0        | 81.5        | 87.8        | 95.3        | 102.8       | 110.3       | 125.3       | 132.8       | 140.3       | 155.3       | 170.3       | 185.3       | 215.3       | 245.3       | 275.3       | 305.3       |             |
| 1.28  | 70.0                      | 77.5        | 85.0        | 91.3        | 98.8        | 106.3       | 113.8       | 128.8       | 136.3       | 143.8       | 158.8       | 173.8       | 188.8       | 218.8       | 248.8       | 278.8       | 308.8       |             |
| 1.28  | 63.7                      | 71.2        | 78.7        | 85.0        | 92.5        | 100.0       | 107.5       | 122.5       | 130.0       | 137.5       | 152.5       | 167.5       | 182.5       | 212.5       | 242.5       | 272.5       | 302.5       |             |
| 1.32  | 69.6                      | 77.1        | 84.6        | 90.9        | 98.4        | 105.9       | 113.4       | 128.4       | 135.9       | 143.4       | 158.4       | 173.4       | 188.4       | 218.4       | 248.4       | 278.4       | 308.4       |             |
| 1.32  | 66.9                      | 74.4        | 81.9        | 88.1        | 95.6        | 103.1       | 110.6       | 125.6       | 133.1       | 140.6       | 155.6       | 170.6       | 185.6       | 215.6       | 245.6       | 275.6       | 305.6       |             |
| 1.32  | 64.1                      | 71.6        | 79.1        | 85.4        | 92.9        | 100.4       | 107.9       | 122.9       | 130.4       | 137.9       | 152.9       | 167.9       | 182.9       | 212.9       | 242.9       | 272.9       | 302.9       |             |
| 1.36  | 61.7                      | 69.3        | 76.8        | 83.0        | 90.5        | 98.0        | 105.5       | 120.5       | 128.0       | 135.5       | 150.5       | 165.5       | 180.5       | 210.5       | 240.5       | 270.5       | 300.5       |             |
| 1.36  | 64.5                      | 72.0        | 79.5        | 85.8        | 93.3        | 100.8       | 108.3       | 123.3       | 130.8       | 138.3       | 153.3       | 168.3       | 183.3       | 213.3       | 243.3       | 273.3       | 303.3       |             |
| 1.37  | 67.3                      | 74.8        | 82.3        | 88.5        | 96.0        | 103.5       | 111.0       | 126.0       | 133.5       | 141.0       | 156.0       | 171.0       | 186.0       | 216.0       | 246.0       | 276.0       | 306.0       |             |
| 1.40  | 62.1                      | 69.6        | 77.1        | 83.4        | 90.9        | 98.4        | 105.9       | 120.9       | 128.4       | 135.9       | 150.9       | 165.9       | 180.9       | 210.9       | 240.9       | 270.9       | 300.9       |             |
| 1.41  | 64.9                      | 72.4        | 79.9        | 86.2        | 93.7        | 101.2       | 108.7       | 123.7       | 131.2       | 138.7       | 153.7       | 168.7       | 183.7       | 213.7       | 243.7       | 273.7       | 303.7       |             |
| 1.45  | 62.5                      | 70.0        | 77.5        | 83.8        | 91.3        | 98.8        | 106.3       | 121.3       | 128.8       | 136.3       | 151.3       | 166.3       | 181.3       | 211.3       | 241.3       | 271.3       | 301.3       |             |
| 1.46  | 65.3                      | 72.8        | 80.3        | 86.5        | 94.0        | 101.6       | 109.1       | 124.1       | 131.6       | 139.1       | 154.1       | 169.1       | 184.1       | 214.1       | 244.1       | 274.1       | 304.1       |             |
| 1.48  | 68.0                      | 75.5        | 83.0        | 89.3        | 96.8        | 104.3       | 111.8       | 126.8       | 134.3       | 141.8       | 156.8       | 171.8       | 186.8       | 216.8       | 246.8       | 276.8       | 306.8       |             |
| 1.48  | 56.1                      | 63.7        | 71.2        | 77.4        | 85.0        | 92.5        | 100.0       | 115.0       | 122.5       | 130.0       | 145.0       | 160.0       | 175.0       | 205.0       | 235.0       | 265.0       | 295.0       |             |
| 1.49  | 48.2                      | 55.7        | 63.2        | 69.5        | 77.0        | 84.5        | 92.1        | 107.1       | 114.6       | 122.1       | 137.1       | 152.1       | 167.1       | 197.1       | 227.2       | 257.2       | 287.2       |             |
|       | <b>0.93</b>               | <b>0.95</b> | <b>0.97</b> | <b>0.98</b> | <b>0.99</b> | <b>1.00</b> | <b>1.02</b> | <b>1.04</b> | <b>1.05</b> | <b>1.06</b> | <b>1.08</b> | <b>1.09</b> | <b>1.11</b> | <b>1.14</b> | <b>1.16</b> | <b>1.18</b> | <b>1.19</b> |             |

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

# SELECTION



## D S-L CLASSIC

# STOCK DRIVE SELECTIONS

| Ratio                                      | Stock Shv. Datum Diam. |        | 1160 RPM Driver |           | 870 RPM Driver |           | 690 RPM Driver |           | Belt Size/Center Distance |             |             |             |             |             |
|--|------------------------|--------|-----------------|-----------|----------------|-----------|----------------|-----------|---------------------------|-------------|-------------|-------------|-------------|-------------|
|  | Driver                 | Driven | Driven RPM      | HP/Belt D | Driven RPM     | HP/Belt D | Driven RPM     | HP/Belt D | D120                      | D128        | D144        | D158        | D162        | D173        |
|  |                        |        |                 |           |                |           |                |           |                           |             |             |             |             |             |
| <b>1.50</b>                                | 14.50                  | 22.00  | 775             | 43.24     | 581            | 37.14     | 461            | 31.75     | 32.8                      | 36.8        | 44.8        | 51.9        | 53.9        | 59.4        |
| <b>1.51</b>                                | 13.00                  | 20.00  | 766             | 37.16     | 574            | 31.65     | 456            | 26.99     | 35.6                      | 39.6        | 47.6        | 54.6        | 56.6        | 62.1        |
| <b>1.55</b>                                | 14.00                  | 22.00  | 749             | 41.38     | 562            | 35.42     | 446            | 30.24     | 33.1                      | 37.2        | 45.2        | 52.2        | 54.2        | 59.8        |
| <b>1.60</b>                                | 13.50                  | 22.00  | 724             | 39.44     | 543            | 33.65     | 430            | 28.71     | 33.5                      | 37.5        | 45.6        | 52.6        | 54.6        | 60.1        |
| <b>1.63</b>                                | 12.00                  | 20.00  | 710             | 33.00     | 532            | 27.99     | 422            | 23.85     | 36.3                      | 40.3        | 48.4        | 55.4        | 57.4        | 62.9        |
| <b>ARC-LENGTH CORRECTION FACTOR --&gt;</b> |                        |        |                 |           |                |           |                |           | <b>0.84</b>               | <b>0.85</b> | <b>0.88</b> | <b>0.90</b> | <b>0.91</b> | <b>0.92</b> |
| <b>1.66</b>                                | 13.00                  | 22.00  | 698             | 37.43     | 524            | 31.85     | 415            | 27.15     | 33.9                      | 37.9        | 46.0        | 53.0        | 55.0        | 60.5        |
| <b>1.66</b>                                | 16.00                  | 27.00  | 698             | 49.07     | 523            | 42.62     | 415            | 36.57     | 27.3                      | 31.4        | 39.5        | 46.6        | 48.6        | 54.1        |
| <b>1.71</b>                                | 15.50                  | 27.00  | 677             | 47.37     | 507            | 40.96     | 403            | 35.08     | 27.7                      | 31.8        | 39.9        | 46.9        | 48.9        | 54.5        |
| <b>1.77</b>                                | 15.00                  | 27.00  | 656             | 45.58     | 492            | 39.25     | 390            | 33.57     | 28.0                      | 32.1        | 40.2        | 47.3        | 49.3        | 54.9        |
| <b>1.79</b>                                | 12.00                  | 22.00  | 647             | 33.19     | 485            | 28.13     | 385            | 23.96     | 34.6                      | 38.6        | 46.7        | 53.7        | 55.7        | 61.3        |
| <b>1.80</b>                                | 22.00                  | 40.00  | 646             | ---       | 484            | 60.65     | 384            | 53.47     | ---                       | ---         | ---         | ---         | 32.7        | 38.4        |
| <b>1.81</b>                                | 18.00                  | 33.00  | 642             | 55.62     | 482            | 49.29     | 382            | 42.58     | ---                       | ---         | 32.8        | 39.9        | 41.9        | 47.5        |
| <b>1.83</b>                                | 14.50                  | 27.00  | 635             | 43.73     | 476            | 37.51     | 378            | 32.04     | 28.4                      | 32.5        | 40.6        | 47.7        | 49.7        | 55.2        |
| <b>1.89</b>                                | 14.00                  | 27.00  | 614             | 41.80     | 460            | 35.74     | 365            | 30.49     | 28.7                      | 32.8        | 40.9        | 48.0        | 50.0        | 55.6        |
| <b>1.96</b>                                | 13.50                  | 27.00  | 593             | 39.80     | 444            | 33.93     | 353            | 28.92     | 29.1                      | 33.2        | 41.3        | 48.4        | 50.4        | 56.0        |
| <b>2.02</b>                                | 16.00                  | 33.00  | 573             | 49.38     | 430            | 42.86     | 341            | 36.75     | ---                       | 25.8        | 34.1        | 41.3        | 43.4        | 48.9        |
| <b>2.03</b>                                | 13.00                  | 27.00  | 572             | 37.74     | 429            | 32.09     | 340            | 27.34     | 29.4                      | 33.5        | 41.7        | 48.7        | 50.8        | 56.3        |
| <b>2.09</b>                                | 15.50                  | 33.00  | 556             | 47.64     | 417            | 41.16     | 331            | 35.24     | ---                       | 26.1        | 34.5        | 41.7        | 43.7        | 49.3        |
| <b>2.15</b>                                | 22.00                  | 48.00  | 539             | ---       | 405            | 60.81     | 321            | 53.60     | ---                       | ---         | ---         | ---         | ---         | ---         |
| <b>2.15</b>                                | 15.00                  | 33.00  | 539             | 45.82     | 404            | 39.43     | 320            | 33.72     | ---                       | 26.4        | 34.8        | 42.0        | 44.1        | 49.7        |
| <b>2.18</b>                                | 18.00                  | 40.00  | 531             | 55.84     | 399            | 49.45     | 316            | 42.71     | ---                       | ---         | ---         | 33.3        | 35.4        | 41.1        |
| <b>2.19</b>                                | 12.00                  | 27.00  | 530             | 33.43     | 397            | 28.31     | 315            | 24.10     | 30.1                      | 34.2        | 42.4        | 49.5        | 51.5        | 57.0        |
| <b>2.23</b>                                | 14.50                  | 33.00  | 521             | 43.94     | 391            | 37.67     | 310            | 32.17     | ---                       | 26.8        | 35.1        | 42.4        | 44.4        | 50.0        |
| <b>2.30</b>                                | 14.00                  | 33.00  | 504             | 41.99     | 378            | 35.88     | 300            | 30.61     | ---                       | 27.1        | 35.5        | 42.7        | 44.7        | 50.4        |
| <b>2.38</b>                                | 13.50                  | 33.00  | 487             | 39.97     | 365            | 34.05     | 290            | 29.02     | ---                       | 27.4        | 35.8        | 43.0        | 45.1        | 50.7        |
| <b>ARC-LENGTH CORRECTION FACTOR --&gt;</b> |                        |        |                 |           |                |           |                |           | <b>0.80</b>               | <b>0.82</b> | <b>0.86</b> | <b>0.88</b> | <b>0.89</b> | <b>0.90</b> |
| <b>2.45</b>                                | 16.00                  | 40.00  | 474             | 49.53     | 356            | 42.96     | 282            | 36.84     | ---                       | ---         | ---         | 34.6        | 36.7        | 42.5        |
| <b>2.47</b>                                | 13.00                  | 33.00  | 470             | 37.89     | 352            | 32.19     | 279            | 27.42     | 23.4                      | 27.7        | 36.2        | 43.4        | 45.4        | 51.1        |
| <b>2.52</b>                                | 15.50                  | 40.00  | 460             | 47.77     | 345            | 41.26     | 274            | 35.32     | ---                       | ---         | ---         | 34.9        | 37.1        | 42.8        |
| <b>2.59</b>                                | 22.00                  | 58.00  | 447             | ---       | 336            | 60.89     | 266            | 53.67     | ---                       | ---         | ---         | ---         | ---         | ---         |
| <b>2.60</b>                                | 15.00                  | 40.00  | 446             | 45.94     | 334            | 39.52     | 265            | 33.78     | ---                       | ---         | 27.6        | 35.3        | 37.4        | 43.2        |
| <b>2.61</b>                                | 18.00                  | 48.00  | 444             | 55.94     | 333            | 49.53     | 264            | 42.77     | ---                       | ---         | ---         | ---         | ---         | ---         |
| <b>2.67</b>                                | 12.00                  | 33.00  | 435             | 33.54     | 326            | 28.39     | 259            | 24.16     | 24.0                      | 28.4        | 36.8        | 44.1        | 46.1        | 51.8        |
| <b>2.69</b>                                | 14.50                  | 40.00  | 431             | 44.04     | 324            | 37.75     | 257            | 32.23     | ---                       | ---         | 28.0        | 35.6        | 37.7        | 43.5        |
| <b>2.78</b>                                | 14.00                  | 40.00  | 417             | 42.08     | 313            | 35.95     | 248            | 30.66     | ---                       | ---         | 28.3        | 35.9        | 38.0        | 43.8        |
| <b>2.88</b>                                | 13.50                  | 40.00  | 403             | 40.05     | 302            | 34.11     | 240            | 29.07     | ---                       | ---         | 28.6        | 36.2        | 38.4        | 44.2        |
| <b>ARC-LENGTH CORRECTION FACTOR --&gt;</b> |                        |        |                 |           |                |           |                |           | <b>0.79</b>               | <b>0.82</b> | <b>0.86</b> | <b>0.88</b> | <b>0.89</b> | <b>0.90</b> |
| <b>2.93</b>                                | 16.00                  | 48.00  | 396             | 49.60     | 297            | 43.02     | 236            | 36.88     | ---                       | ---         | ---         | ---         | ---         | 34.2        |
| <b>2.99</b>                                | 13.00                  | 40.00  | 389             | 37.96     | 291            | 32.25     | 231            | 27.46     | ---                       | ---         | 28.9        | 36.6        | 38.7        | 44.5        |
| <b>3.02</b>                                | 15.50                  | 48.00  | 384             | 47.83     | 288            | 41.31     | 229            | 35.36     | ---                       | ---         | ---         | ---         | ---         | 34.5        |
| <b>3.12</b>                                | 15.00                  | 48.00  | 372             | 46.00     | 279            | 39.56     | 221            | 33.82     | ---                       | ---         | ---         | ---         | ---         | 34.8        |
| <b>3.15</b>                                | 18.00                  | 58.00  | 368             | 56.00     | 276            | 49.57     | 219            | 42.81     | ---                       | ---         | ---         | ---         | ---         | ---         |
| <b>3.22</b>                                | 14.50                  | 48.00  | 360             | 44.09     | 270            | 37.79     | 214            | 32.26     | ---                       | ---         | ---         | ---         | ---         | 35.1        |
| <b>3.22</b>                                | 12.00                  | 40.00  | 360             | 33.59     | 270            | 28.43     | 214            | 24.20     | ---                       | ---         | 29.5        | 37.2        | 39.3        | 45.2        |
| <b>3.33</b>                                | 14.00                  | 48.00  | 348             | 42.13     | 261            | 35.98     | 207            | 30.69     | ---                       | ---         | ---         | ---         | ---         | 35.4        |
| <b>3.45</b>                                | 13.50                  | 48.00  | 337             | 40.09     | 252            | 34.14     | 200            | 29.10     | ---                       | ---         | ---         | ---         | ---         | 35.7        |
| <b>3.53</b>                                | 16.00                  | 58.00  | 329             | 49.64     | 246            | 43.05     | 195            | 36.90     | ---                       | ---         | ---         | ---         | ---         | ---         |
| <b>ARC-LENGTH CORRECTION FACTOR --&gt;</b> |                        |        |                 |           |                |           |                |           | <b>---</b>                | <b>---</b>  | <b>0.75</b> | <b>0.81</b> | <b>0.82</b> | <b>0.85</b> |
| <b>3.57</b>                                | 13.00                  | 48.00  | 325             | 38.00     | 243            | 32.28     | 193            | 27.49     | ---                       | ---         | ---         | ---         | ---         | 36.0        |
| <b>3.64</b>                                | 15.50                  | 58.00  | 319             | 47.87     | 239            | 41.34     | 190            | 35.38     | ---                       | ---         | ---         | ---         | ---         | ---         |
| <b>3.76</b>                                | 15.00                  | 58.00  | 309             | 46.03     | 232            | 39.59     | 184            | 33.84     | ---                       | ---         | ---         | ---         | ---         | ---         |
| <b>3.86</b>                                | 12.00                  | 48.00  | 301             | 33.63     | 226            | 28.45     | 179            | 24.22     | ---                       | ---         | ---         | ---         | 30.2        | 36.6        |
| <b>3.88</b>                                | 14.50                  | 58.00  | 299             | 44.13     | 224            | 37.81     | 178            | 32.28     | ---                       | ---         | ---         | ---         | ---         | ---         |
| <b>4.01</b>                                | 14.00                  | 58.00  | 289             | 42.16     | 217            | 36.00     | 172            | 30.71     | ---                       | ---         | ---         | ---         | ---         | ---         |
| <b>4.16</b>                                | 13.50                  | 58.00  | 279             | 40.12     | 209            | 34.17     | 166            | 29.11     | ---                       | ---         | ---         | ---         | ---         | ---         |
| <b>4.31</b>                                | 13.00                  | 58.00  | 269             | 38.02     | 202            | 32.30     | 160            | 27.50     | ---                       | ---         | ---         | ---         | ---         | ---         |
| <b>4.65</b>                                | 12.00                  | 58.00  | 249             | 33.65     | 187            | 28.47     | 148            | 24.23     | ---                       | ---         | ---         | ---         | ---         | ---         |
| <b>ARC-LENGTH CORRECTION FACTOR --&gt;</b> |                        |        |                 |           |                |           |                |           | <b>---</b>                | <b>---</b>  | <b>---</b>  | <b>---</b>  | <b>0.74</b> | <b>0.77</b> |

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

# SELECTION



## D S-L CLASSIC

# STOCK DRIVE SELECTIONS

| Ratio | Belt Size/Center Distance |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-------|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|       | D180                      | D195        | D210        | D225        | D240        | D255        | D270        | D300        | D315        | D330        | D360        | D390        | D420        | D480        | D540        | D600        | D660        |
| 1.50  | 62.9                      | 70.4        | 77.9        | 84.9        | 91.7        | 99.2        | 106.7       | 121.7       | 129.2       | 136.7       | 151.7       | 166.7       | 181.7       | 211.7       | 241.7       | 271.7       | 301.7       |
| 1.51  | 65.7                      | 73.2        | 80.7        | 86.9        | 94.4        | 101.9       | 109.4       | 124.4       | 131.9       | 139.5       | 154.5       | 169.5       | 184.5       | 214.5       | 244.5       | 274.5       | 304.5       |
| 1.55  | 63.3                      | 70.8        | 78.3        | 84.5        | 92.1        | 99.6        | 107.1       | 122.1       | 129.6       | 137.1       | 152.1       | 167.1       | 182.1       | 212.1       | 242.1       | 272.1       | 302.1       |
| 1.60  | 63.6                      | 71.2        | 78.7        | 84.9        | 92.4        | 99.9        | 107.4       | 122.5       | 130.0       | 137.5       | 152.5       | 167.5       | 182.5       | 212.5       | 242.5       | 272.5       | 302.5       |
| 1.63  | 66.4                      | 73.9        | 81.4        | 87.7        | 95.2        | 102.7       | 110.2       | 125.2       | 132.7       | 140.2       | 155.2       | 170.2       | 185.2       | 215.2       | 245.2       | 275.3       | 305.3       |
|       | <b>0.93</b>               | <b>0.95</b> | <b>0.96</b> | <b>0.98</b> | <b>0.99</b> | <b>1.00</b> | <b>1.02</b> | <b>1.04</b> | <b>1.05</b> | <b>1.06</b> | <b>1.08</b> | <b>1.09</b> | <b>1.11</b> | <b>1.14</b> | <b>1.16</b> | <b>1.18</b> | <b>1.19</b> |
| 1.66  | 64.0                      | 71.5        | 79.0        | 85.3        | 92.8        | 100.3       | 107.8       | 122.8       | 130.3       | 137.9       | 152.9       | 167.9       | 182.9       | 212.9       | 242.9       | 272.9       | 302.9       |
| 1.66  | 57.6                      | 65.2        | 72.7        | 79.0        | 86.5        | 94.0        | 101.5       | 116.5       | 124.0       | 131.5       | 146.5       | 161.6       | 176.6       | 206.6       | 236.6       | 266.6       | 296.6       |
| 1.71  | 58.0                      | 65.5        | 73.1        | 79.3        | 86.8        | 94.4        | 101.9       | 116.9       | 124.4       | 131.9       | 146.9       | 161.9       | 176.9       | 207.0       | 237.0       | 267.0       | 297.0       |
| 1.77  | 58.4                      | 65.9        | 73.4        | 79.7        | 87.2        | 94.7        | 102.3       | 117.3       | 124.8       | 132.3       | 147.3       | 162.3       | 177.3       | 207.3       | 237.4       | 267.4       | 297.4       |
| 1.79  | 64.8                      | 72.3        | 79.8        | 86.1        | 93.6        | 101.1       | 108.6       | 123.6       | 131.1       | 138.6       | 153.6       | 168.6       | 183.6       | 213.7       | 243.7       | 273.7       | 303.7       |
| 1.80  | 42.0                      | 49.7        | 57.3        | 63.6        | 71.2        | 78.7        | 86.3        | 101.3       | 108.9       | 116.4       | 131.4       | 146.5       | 161.5       | 191.5       | 221.5       | 251.6       | 281.6       |
| 1.81  | 51.1                      | 58.6        | 66.2        | 72.5        | 80.0        | 87.5        | 95.1        | 110.1       | 117.6       | 125.1       | 140.2       | 155.2       | 170.2       | 200.2       | 230.2       | 260.3       | 290.3       |
| 1.83  | 58.7                      | 66.3        | 73.8        | 80.1        | 87.6        | 95.1        | 102.6       | 117.7       | 125.2       | 132.7       | 147.7       | 162.7       | 177.7       | 207.7       | 237.7       | 267.7       | 297.8       |
| 1.89  | 59.1                      | 66.6        | 74.2        | 80.5        | 88.0        | 95.5        | 103.0       | 118.0       | 125.5       | 133.1       | 148.1       | 163.1       | 178.1       | 208.1       | 238.1       | 268.1       | 298.1       |
| 1.96  | 59.5                      | 67.0        | 74.6        | 80.8        | 88.3        | 95.9        | 103.4       | 118.4       | 125.9       | 133.4       | 148.5       | 163.5       | 178.5       | 208.5       | 238.5       | 268.5       | 298.5       |
| 2.02  | 52.5                      | 60.1        | 67.7        | 73.9        | 81.5        | 89.0        | 96.6        | 111.6       | 119.1       | 126.6       | 141.7       | 156.7       | 171.7       | 201.8       | 231.8       | 261.8       | 291.8       |
| 2.03  | 59.8                      | 67.4        | 74.9        | 81.2        | 88.7        | 96.2        | 103.8       | 118.8       | 126.3       | 133.8       | 148.8       | 163.9       | 178.9       | 208.9       | 238.9       | 268.9       | 298.9       |
| 2.09  | 52.9                      | 60.4        | 68.0        | 74.3        | 81.9        | 89.4        | 96.9        | 112.0       | 119.5       | 127.0       | 142.1       | 157.1       | 172.1       | 202.1       | 232.2       | 262.2       | 292.2       |
| 2.15  | ---                       | 42.2        | 50.0        | 56.5        | 64.1        | 71.8        | 79.4        | 94.6        | 102.1       | 109.7       | 124.8       | 139.8       | 154.9       | 185.0       | 215.1       | 245.1       | 275.1       |
| 2.15  | 53.2                      | 60.8        | 68.4        | 74.7        | 82.2        | 89.8        | 97.3        | 112.4       | 119.9       | 127.4       | 142.4       | 157.5       | 172.5       | 202.5       | 232.5       | 262.6       | 292.6       |
| 2.18  | 44.8                      | 52.5        | 60.1        | 66.5        | 74.1        | 81.6        | 89.2        | 104.3       | 111.8       | 119.4       | 134.4       | 149.5       | 164.5       | 194.6       | 224.6       | 254.6       | 284.7       |
| 2.19  | 60.6                      | 68.1        | 75.7        | 81.9        | 89.5        | 97.0        | 104.5       | 119.5       | 127.1       | 134.6       | 149.6       | 164.6       | 179.6       | 209.7       | 239.7       | 269.7       | 299.7       |
| 2.23  | 53.6                      | 61.2        | 68.7        | 75.0        | 82.6        | 90.1        | 97.7        | 112.7       | 120.3       | 127.8       | 142.8       | 157.8       | 172.9       | 202.9       | 232.9       | 262.9       | 293.0       |
| 2.30  | 53.9                      | 61.5        | 69.1        | 75.4        | 83.0        | 90.5        | 98.0        | 113.1       | 120.6       | 128.2       | 143.2       | 158.2       | 173.2       | 203.3       | 233.3       | 263.3       | 293.4       |
| 2.38  | 54.3                      | 61.9        | 69.5        | 75.8        | 83.3        | 90.9        | 98.4        | 113.5       | 121.0       | 128.5       | 143.6       | 158.6       | 173.6       | 203.7       | 233.7       | 263.7       | 293.7       |
|       | <b>0.91</b>               | <b>0.93</b> | <b>0.95</b> | <b>0.96</b> | <b>0.98</b> | <b>0.99</b> | <b>1.00</b> | <b>1.03</b> | <b>1.04</b> | <b>1.05</b> | <b>1.07</b> | <b>1.09</b> | <b>1.10</b> | <b>1.13</b> | <b>1.16</b> | <b>1.18</b> | <b>1.19</b> |
| 2.45  | 46.1                      | 53.9        | 61.5        | 67.9        | 75.5        | 83.1        | 90.6        | 105.8       | 113.3       | 120.8       | 135.9       | 151.0       | 166.0       | 196.1       | 226.1       | 256.2       | 286.2       |
| 2.47  | 54.6                      | 62.2        | 69.8        | 76.1        | 83.7        | 91.2        | 98.8        | 113.9       | 121.4       | 128.9       | 143.9       | 159.0       | 174.0       | 204.0       | 234.1       | 264.1       | 294.1       |
| 2.52  | 46.5                      | 54.2        | 61.9        | 68.2        | 75.8        | 83.4        | 91.0        | 106.1       | 113.7       | 121.2       | 136.3       | 151.3       | 166.4       | 196.5       | 226.5       | 256.5       | 286.6       |
| 2.59  | ---                       | ---         | ---         | 46.6        | 54.6        | 62.5        | 70.3        | 85.7        | 93.4        | 101.0       | 116.2       | 131.4       | 146.5       | 176.7       | 206.8       | 236.9       | 267.0       |
| 2.60  | 46.8                      | 54.5        | 62.2        | 68.6        | 76.2        | 83.8        | 91.4        | 106.5       | 114.0       | 121.6       | 136.7       | 151.7       | 166.8       | 196.8       | 226.9       | 256.9       | 287.0       |
| 2.61  | 36.8                      | 44.8        | 52.7        | 59.2        | 66.9        | 74.6        | 82.2        | 97.4        | 105.0       | 112.6       | 127.7       | 142.8       | 157.9       | 188.0       | 218.1       | 248.1       | 278.2       |
| 2.67  | 55.3                      | 62.9        | 70.5        | 76.9        | 84.4        | 92.0        | 99.5        | 114.6       | 122.1       | 129.6       | 144.7       | 159.7       | 174.8       | 204.8       | 234.8       | 264.9       | 294.9       |
| 2.69  | 47.1                      | 54.9        | 62.6        | 68.9        | 76.6        | 84.2        | 91.7        | 106.9       | 114.4       | 122.0       | 137.0       | 152.1       | 167.1       | 197.2       | 227.3       | 257.3       | 287.3       |
| 2.78  | 47.5                      | 55.2        | 62.9        | 69.3        | 76.9        | 84.5        | 92.1        | 107.2       | 114.8       | 122.3       | 137.4       | 152.5       | 167.5       | 197.6       | 227.6       | 257.7       | 287.7       |
| 2.88  | 47.8                      | 55.6        | 63.3        | 69.6        | 77.3        | 84.9        | 92.5        | 107.6       | 115.1       | 122.7       | 137.8       | 152.8       | 167.9       | 198.0       | 228.0       | 258.1       | 288.1       |
|       | <b>0.91</b>               | <b>0.93</b> | <b>0.95</b> | <b>0.96</b> | <b>0.98</b> | <b>0.99</b> | <b>1.00</b> | <b>1.03</b> | <b>1.04</b> | <b>1.05</b> | <b>1.07</b> | <b>1.09</b> | <b>1.10</b> | <b>1.13</b> | <b>1.16</b> | <b>1.18</b> | <b>1.19</b> |
| 2.93  | 38.0                      | 46.1        | 54.0        | 60.5        | 68.3        | 76.0        | 83.6        | 98.9        | 106.5       | 114.0       | 129.2       | 144.3       | 159.4       | 189.5       | 219.6       | 249.6       | 279.7       |
| 2.99  | 48.2                      | 55.9        | 63.6        | 70.0        | 77.6        | 85.2        | 92.8        | 108.0       | 115.5       | 123.1       | 138.1       | 153.2       | 168.3       | 198.3       | 228.4       | 258.4       | 288.5       |
| 3.02  | 38.4                      | 46.5        | 54.4        | 60.9        | 68.6        | 76.3        | 84.0        | 99.2        | 106.8       | 114.4       | 129.5       | 144.6       | 159.7       | 189.7       | 220.0       | 250.0       | 280.1       |
| 3.12  | 38.7                      | 46.8        | 54.7        | 61.2        | 69.0        | 76.7        | 84.3        | 99.6        | 107.2       | 114.8       | 129.9       | 145.0       | 160.1       | 190.2       | 220.3       | 250.4       | 280.5       |
| 3.15  | ---                       | ---         | 42.3        | 49.2        | 57.2        | 65.2        | 73.0        | 88.5        | 96.2        | 103.8       | 119.1       | 134.3       | 149.4       | 179.6       | 209.8       | 239.9       | 270.0       |
| 3.22  | 39.0                      | 47.1        | 55.0        | 61.6        | 69.3        | 77.0        | 84.7        | 99.9        | 107.5       | 115.1       | 130.3       | 145.4       | 160.5       | 190.6       | 220.7       | 250.8       | 280.8       |
| 3.22  | 48.8                      | 56.6        | 64.3        | 70.7        | 78.3        | 85.9        | 93.5        | 108.7       | 116.2       | 123.8       | 138.9       | 153.9       | 169.0       | 199.1       | 229.2       | 259.2       | 289.2       |
| 3.33  | 39.3                      | 47.4        | 55.4        | 61.9        | 69.7        | 77.4        | 85.0        | 100.3       | 107.9       | 115.5       | 130.6       | 145.7       | 160.8       | 191.0       | 221.1       | 251.2       | 281.2       |
| 3.45  | 39.6                      | 47.8        | 55.7        | 62.2        | 70.0        | 77.7        | 85.4        | 100.6       | 108.2       | 115.8       | 131.0       | 146.1       | 161.2       | 191.3       | 221.5       | 251.5       | 281.6       |
| 3.53  | ---                       | ---         | 43.5        | 50.4        | 58.5        | 66.5        | 74.3        | 89.9        | 97.5        | 105.2       | 120.5       | 135.7       | 150.8       | 181.1       | 211.3       | 241.4       | 271.5       |
|       | <b>0.86</b>               | <b>0.89</b> | <b>0.91</b> | <b>0.93</b> | <b>0.95</b> | <b>0.97</b> | <b>0.98</b> | <b>1.01</b> | <b>1.02</b> | <b>1.03</b> | <b>1.05</b> | <b>1.07</b> | <b>1.09</b> | <b>1.12</b> | <b>1.15</b> | <b>1.17</b> | <b>1.18</b> |
| 3.57  | 39.9                      | 48.1        | 56.0        | 62.6        | 70.3        | 78.1        | 85.7        | 101.0       | 108.6       | 116.2       | 131.3       | 146.5       | 161.6       | 191.7       | 221.8       | 251.9       | 282.0       |
| 3.64  | ---                       | ---         | 43.8        | 50.8        | 58.9        | 66.8        | 74.7        | 90.2        | 97.9        | 105.6       | 120.8       | 136.0       | 151.2       | 181.5       | 211.6       | 241.8       | 271.9       |
| 3.76  | ---                       | ---         | 44.1        | 51.1        | 59.2        | 67.2        | 75.0        | 90.5        | 98.2        | 105.9       | 121.2       | 136.4       | 151.6       | 181.8       | 212.0       | 242.1       | 272.2       |
| 3.86  | 40.6                      | 48.7        | 56.7        | 63.2        | 71.0        | 78.7        | 86.4        | 101.7       | 109.3       | 116.9       | 132.1       | 147.2       | 162.3       | 192.5       | 222.6       | 252.7       | 282.7       |
| 3.88  | ---                       | ---         | 44.4        | 51.4        | 59.5        | 67.5        | 75.3        | 90.9        | 98.6        | 106.3       | 121.5       | 136.8       | 151.9       | 182.2       | 212.4       | 242.5       | 272.6       |
| 4.01  | ---                       | ---         | 44.7        | 51.7        | 59.8        | 67.8        | 75.7        | 91.2        | 98.9        | 106.6       | 121.9       | 137.1       | 152.3       | 182.6       | 212.7       | 242.9       | 273.0       |
| 4.16  | ---                       | 36.2        | 45.0        | 52.0        | 60.2        | 68.1        | 76.0        | 91.6        | 99.3        | 107.0       | 122.2       | 137.5       | 152.7       | 182.9       | 213.1       | 243.3       | 273.4       |
| 4.31  | ---                       | 36.5        | 45.3        | 52.3        | 60.5        | 68.5        | 76.3        | 91.9        | 99.6        | 107.3       | 122.6       | 137.8       | 153.0       | 183.3       | 213.5       | 243.6       | 273.7       |
| 4.65  | ---                       | 37.1        | 45.9        | 53.0        | 61.1        | 69.1        | 77.0        | 92.6        | 100.3       | 108.0       | 123.3       | 138.5       | 153.7       | 184.0       | 214.2       | 244.4       | 274.5       |
|       | <b>0.80</b>               | <b>0.85</b> | <b>0.88</b> | <b>0.90</b> | <b>0.93</b> | <b>0.95</b> | <b>0.96</b> | <b>0.99</b> | <b>1.00</b> | <b>1.02</b> | <b>1.04</b> | <b>1.06</b> | <b>1.08</b> | <b>1.11</b> | <b>1.14</b> | <b>1.16</b> | <b>1.17</b> |

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets



# SELECTION

|          |                    |           |                    |
|----------|--------------------|-----------|--------------------|
| <b>A</b> | <b>S-L CLASSIC</b> | <b>AX</b> | <b>CLASSIC COG</b> |
|----------|--------------------|-----------|--------------------|

## Basic Horsepower Ratings

| Faster Shaft RPM | Rated HP per Belt for Small Sheave Datum Dia. |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |    |
|------------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|----|
|                  | 2.2   |      | 2.6  |      | 3.0  |      | 3.2  |      | 3.4  |      | 3.6  |      | 3.8  |      | 4.0  |      | 4.2  |      | 4.6  |      | 4.8  |      | 5.0 |    |
|                  | AX  | AX   | A    | AX   | A    | AX   | A    | AX   | A    | AX   | A    | AX   | A    | AX   | A    | AX   | A    | AX   | A    | AX   | A    | AX   | A   | AX |
| 870              | 1.02  | 1.40 | 1.31 | 1.78 | 1.51 | 1.96 | 1.71 | 2.14 | 1.91 | 2.32 | 2.10 | 2.50 | 2.30 | 2.68 | 2.49 | 2.86 | 2.87 | 3.20 | 3.06 | 3.38 | 3.25 | 3.55 |     |    |
| 1160             | 1.22  | 1.70 | 1.62 | 2.18 | 1.87 | 2.41 | 2.13 | 2.64 | 2.38 | 2.87 | 2.63 | 3.10 | 2.88 | 3.32 | 3.13 | 3.55 | 3.62 | 3.98 | 3.85 | 4.20 | 4.10 | 4.42 |     |    |
| 1750             | 1.52  | 2.21 | 2.13 | 2.87 | 2.50 | 3.20 | 2.86 | 3.52 | 3.21 | 3.83 | 3.57 | 4.15 | 3.92 | 4.46 | 4.26 | 4.77 | 4.94 | 5.37 | 5.28 | 5.67 | 5.61 | 5.96 |     |    |
| 3500             | 1.97  | 3.14 | 3.02 | 4.26 | 3.63 | 4.80 | 4.22 | 5.34 | 4.80 | 5.86 | 5.36 | 6.37 | 5.91 | 6.88 | 6.44 | 7.37 | 7.44 | 8.32 | 7.92 | 8.78 | 8.38 | 9.23 |     |    |
| 100              | 0.21  | 0.27 | 0.23 | 0.33 | 0.26 | 0.36 | 0.29 | 0.38 | 0.32 | 0.41 | 0.35 | 0.44 | 0.37 | 0.47 | 0.40 | 0.50 | 0.46 | 0.55 | 0.46 | 0.58 | 0.51 | 0.61 |     |    |
| 200              | 0.36  | 0.47 | 0.42 | 0.57 | 0.47 | 0.63 | 0.52 | 0.68 | 0.57 | 0.73 | 0.63 | 0.78 | 0.68 | 0.83 | 0.73 | 0.88 | 0.83 | 0.99 | 0.88 | 1.04 | 0.93 | 1.09 |     |    |
| 300              | 0.49  | 0.64 | 0.58 | 0.79 | 0.65 | 0.87 | 0.73 | 0.94 | 0.81 | 1.02 | 0.88 | 1.09 | 0.96 | 1.16 | 1.03 | 1.23 | 1.18 | 1.38 | 1.25 | 1.45 | 1.33 | 1.52 |     |    |
| 400              | 0.60  | 0.80 | 0.72 | 0.99 | 0.82 | 1.09 | 0.92 | 1.18 | 1.02 | 1.28 | 1.12 | 1.37 | 1.22 | 1.46 | 1.31 | 1.56 | 1.50 | 1.74 | 1.60 | 1.83 | 1.70 | 1.92 |     |    |
| 500              | 0.70  | 0.94 | 0.86 | 1.18 | 0.98 | 1.29 | 1.10 | 1.41 | 1.22 | 1.52 | 1.34 | 1.63 | 1.46 | 1.75 | 1.58 | 1.86 | 1.82 | 2.08 | 1.93 | 2.19 | 2.05 | 2.29 |     |    |
| 600              | 0.80  | 1.08 | 0.99 | 1.35 | 1.14 | 1.49 | 1.28 | 1.62 | 1.42 | 1.75 | 1.56 | 1.88 | 1.70 | 2.01 | 1.84 | 2.14 | 2.11 | 2.40 | 2.25 | 2.53 | 2.39 | 2.65 |     |    |
| 700              | 0.88  | 1.20 | 1.12 | 1.52 | 1.28 | 1.67 | 1.44 | 1.82 | 1.61 | 1.97 | 1.77 | 2.12 | 1.93 | 2.27 | 2.09 | 2.42 | 2.40 | 2.71 | 2.56 | 2.85 | 2.72 | 3.00 |     |    |
| 800              | 0.97  | 1.32 | 1.23 | 1.67 | 1.42 | 1.84 | 1.60 | 2.01 | 1.78 | 2.18 | 1.97 | 2.35 | 2.15 | 2.52 | 2.33 | 2.68 | 2.68 | 3.00 | 2.86 | 3.17 | 3.03 | 3.32 |     |    |
| 900              | 1.04  | 1.44 | 1.35 | 1.82 | 1.55 | 2.01 | 1.75 | 2.20 | 1.96 | 2.38 | 2.16 | 2.57 | 2.36 | 2.75 | 2.56 | 2.93 | 2.95 | 3.29 | 3.15 | 3.47 | 3.34 | 3.64 |     |    |
| 1000             | 1.11  | 1.54 | 1.45 | 1.96 | 1.68 | 2.17 | 1.90 | 2.37 | 2.12 | 2.58 | 2.34 | 2.78 | 2.56 | 2.98 | 2.78 | 3.17 | 3.21 | 3.56 | 3.43 | 3.76 | 3.64 | 3.95 |     |    |
| 1100             | 1.18  | 1.64 | 1.56 | 2.10 | 1.80 | 2.32 | 2.04 | 2.54 | 2.29 | 2.76 | 2.52 | 2.98 | 2.76 | 3.20 | 3.00 | 3.41 | 3.47 | 3.83 | 3.70 | 4.04 | 3.93 | 4.24 |     |    |
| 1200             | 1.24  | 1.74 | 1.66 | 2.23 | 1.92 | 2.47 | 2.18 | 2.71 | 2.44 | 2.94 | 2.70 | 3.18 | 2.96 | 3.41 | 3.21 | 3.64 | 3.71 | 4.09 | 3.96 | 4.31 | 4.21 | 4.53 |     |    |
| 1300             | 1.30  | 1.83 | 1.75 | 2.36 | 2.03 | 2.61 | 2.31 | 2.87 | 2.59 | 3.12 | 2.87 | 3.37 | 3.14 | 3.61 | 3.41 | 3.86 | 3.95 | 4.34 | 4.22 | 4.57 | 4.48 | 4.81 |     |    |
| 1400             | 1.35  | 1.92 | 1.84 | 2.46 | 2.14 | 2.75 | 2.44 | 3.02 | 2.74 | 3.29 | 3.03 | 3.55 | 3.32 | 3.81 | 3.61 | 4.07 | 4.18 | 4.58 | 4.47 | 4.83 | 4.75 | 5.08 |     |    |
| 1500             | 1.41  | 2.01 | 1.93 | 2.59 | 2.25 | 2.88 | 2.57 | 3.17 | 2.88 | 3.45 | 3.19 | 3.73 | 3.50 | 4.00 | 3.81 | 4.28 | 4.41 | 4.81 | 4.71 | 5.08 | 5.00 | 5.34 |     |    |
| 1600             | 1.46  | 2.09 | 2.01 | 2.71 | 2.35 | 3.01 | 2.69 | 3.31 | 3.02 | 3.61 | 3.35 | 3.90 | 3.67 | 4.19 | 3.99 | 4.48 | 4.63 | 5.04 | 4.94 | 5.32 | 5.25 | 5.59 |     |    |
| 1700             | 1.50  | 2.17 | 2.09 | 2.82 | 2.45 | 3.13 | 2.80 | 3.45 | 3.15 | 3.76 | 3.49 | 4.07 | 3.84 | 4.37 | 4.17 | 4.67 | 4.84 | 5.26 | 5.17 | 5.55 | 5.49 | 5.84 |     |    |
| 1800             | 1.55  | 2.24 | 2.17 | 2.92 | 2.54 | 3.26 | 2.91 | 3.58 | 3.28 | 3.91 | 3.64 | 4.23 | 4.00 | 4.55 | 4.35 | 4.86 | 5.05 | 5.46 | 5.39 | 5.78 | 5.73 | 6.08 |     |    |
| 1900             | 1.59  | 2.32 | 2.25 | 3.02 | 2.64 | 3.37 | 3.02 | 3.71 | 3.40 | 4.05 | 3.78 | 4.39 | 4.15 | 4.72 | 4.52 | 5.05 | 5.24 | 5.69 | 5.60 | 6.00 | 5.95 | 6.32 |     |    |
| 2000             | 1.63  | 2.38 | 2.32 | 3.12 | 2.72 | 3.48 | 3.13 | 3.84 | 3.52 | 4.19 | 3.91 | 4.54 | 4.30 | 4.88 | 4.68 | 5.22 | 5.44 | 5.89 | 5.81 | 6.22 | 6.17 | 6.54 |     |    |
| 2100             | 1.66  | 2.45 | 2.39 | 3.22 | 2.81 | 3.59 | 3.23 | 3.96 | 3.64 | 4.33 | 4.04 | 4.69 | 4.45 | 5.05 | 4.84 | 5.40 | 5.62 | 6.09 | 6.00 | 6.43 | 6.38 | 6.76 |     |    |
| 2200             | 1.70  | 2.52 | 2.45 | 3.31 | 2.89 | 3.70 | 3.32 | 4.08 | 3.75 | 4.46 | 4.17 | 4.84 | 4.59 | 5.20 | 5.00 | 5.57 | 5.80 | 6.28 | 6.19 | 6.63 | 6.58 | 6.98 |     |    |
| 2300             | 1.73  | 2.58 | 2.51 | 3.40 | 2.97 | 3.80 | 3.41 | 4.20 | 3.86 | 4.59 | 4.29 | 4.98 | 4.72 | 5.36 | 5.14 | 5.73 | 5.97 | 6.47 | 6.37 | 6.83 | 6.77 | 7.19 |     |    |
| 2400             | 1.76  | 2.64 | 2.57 | 3.49 | 3.04 | 3.90 | 3.50 | 4.31 | 3.96 | 4.71 | 4.41 | 5.11 | 4.85 | 5.51 | 5.28 | 5.89 | 6.13 | 6.65 | 6.55 | 7.02 | 6.96 | 7.39 |     |    |
| 2500             | 1.79  | 2.69 | 2.63 | 3.57 | 3.11 | 4.00 | 3.59 | 4.42 | 4.06 | 4.84 | 4.52 | 5.25 | 4.97 | 5.65 | 5.42 | 6.05 | 6.29 | 6.83 | 6.72 | 7.21 | 7.13 | 7.59 |     |    |
| 2600             | 1.81  | 2.75 | 2.68 | 3.65 | 3.18 | 4.09 | 3.67 | 4.53 | 4.15 | 4.95 | 4.63 | 5.38 | 5.09 | 5.79 | 5.55 | 6.20 | 6.44 | 7.00 | 6.87 | 7.39 | 7.30 | 7.78 |     |    |
| 2700             | 1.84  | 2.80 | 2.73 | 3.73 | 3.24 | 4.18 | 3.75 | 4.63 | 4.24 | 5.07 | 4.73 | 5.50 | 5.20 | 5.93 | 5.67 | 6.35 | 6.58 | 7.17 | 7.02 | 7.57 | 7.46 | 7.96 |     |    |
| 2800             | 1.86  | 2.85 | 2.78 | 3.80 | 3.30 | 4.27 | 3.82 | 4.73 | 4.33 | 5.18 | 4.82 | 5.62 | 5.31 | 6.06 | 5.79 | 6.49 | 6.72 | 7.33 | 7.17 | 7.74 | 7.61 | 8.14 |     |    |
| 2900             | 1.88  | 2.90 | 2.82 | 3.88 | 3.36 | 4.35 | 3.89 | 4.82 | 4.41 | 5.29 | 4.92 | 5.74 | 5.41 | 6.19 | 5.90 | 6.63 | 6.85 | 7.49 | 7.30 | 7.90 | 7.74 | 8.32 |     |    |
| 3000             | 1.90  | 2.94 | 2.86 | 3.95 | 3.41 | 4.44 | 3.95 | 4.92 | 4.48 | 5.39 | 5.00 | 5.85 | 5.51 | 6.31 | 6.01 | 6.76 | 6.97 | 7.64 | 7.43 | 8.06 | 7.87 | 8.48 |     |    |
| 3100             | 1.92  | 2.98 | 2.90 | 4.01 | 3.46 | 4.51 | 4.02 | 5.01 | 4.56 | 5.49 | 5.09 | 5.97 | 5.60 | 6.43 | 6.11 | 6.89 | 7.08 | 7.78 | 7.54 | 8.22 | 8.00 | 8.64 |     |    |
| 3200             | 1.93  | 3.03 | 2.94 | 4.08 | 3.51 | 4.59 | 4.07 | 5.09 | 4.62 | 5.59 | 5.16 | 6.07 | 5.69 | 6.55 | 6.20 | 7.02 | 7.18 | 7.93 | 7.65 | 8.37 | 8.11 | 8.80 |     |    |
| 3300             | 1.95  | 3.06 | 2.97 | 4.14 | 3.55 | 4.66 | 4.13 | 5.18 | 4.69 | 5.68 | 5.23 | 6.18 | 5.77 | 6.66 | 6.28 | 7.14 | 7.28 | 8.06 | 7.75 | 8.51 | 8.21 | 8.95 |     |    |
| 3400             | 1.96  | 3.10 | 3.00 | 4.20 | 3.59 | 4.74 | 4.18 | 5.26 | 4.75 | 5.77 | 5.30 | 6.28 | 5.84 | 6.77 | 6.36 | 7.25 | 7.36 | 8.19 | 7.84 | 8.65 | 8.30 | 9.10 |     |    |
| 3500             | 1.97  | 3.14 | 3.02 | 4.26 | 3.63 | 4.80 | 4.22 | 5.34 | 4.80 | 5.86 | 5.36 | 6.37 | 5.91 | 6.88 | 6.44 | 7.37 | 7.44 | 8.32 | 7.92 | 8.78 | 8.38 | 9.23 |     |    |
| 3600             | 1.98  | 3.17 | 3.04 | 4.31 | 3.56 | 4.87 | 4.26 | 5.41 | 4.85 | 5.94 | 5.42 | 6.47 | 5.97 | 6.98 | 6.50 | 7.48 | 7.51 | 8.44 | 7.99 | 8.91 | 8.45 | 9.37 |     |    |
| 3700             | 1.99  | 3.20 | 3.06 | 4.37 | 3.69 | 4.93 | 4.30 | 5.49 | 4.89 | 6.03 | 5.47 | 6.56 | 6.02 | 7.07 | 6.56 | 7.58 | 7.57 | 8.56 | 8.05 | 9.03 | 8.50 | 9.50 |     |    |
| 3800             | 1.99  | 3.23 | 3.08 | 4.42 | 3.71 | 4.99 | 4.33 | 5.55 | 4.93 | 6.10 | 5.51 | 6.64 | 6.07 | 7.17 | 6.61 | 7.68 | 7.63 | 8.67 | 8.10 | 9.15 | 8.55 | 9.62 |     |    |
| 3900             | 2.00  | 3.26 | 3.09 | 4.47 | 3.74 | 5.05 | 4.36 | 5.62 | 4.97 | 6.18 | 5.55 | 6.73 | 6.11 | 7.26 | 6.65 | 7.78 | 7.67 | 8.78 | 8.14 | 9.26 | 8.59 | 9.73 |     |    |
| 4000             | 2.00  | 3.29 | 3.10 | 4.51 | 3.75 | 5.11 | 4.38 | 5.69 | 4.99 | 6.25 | 5.58 | 6.81 | 6.15 | 7.34 | 6.69 | 7.87 | 7.70 | 8.88 | 8.17 | 9.37 | 8.61 | 9.84 |     |    |

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

# SELECTION



**A S-L CLASSIC**

**AX CLASSIC COG**

## Basic Horsepower Ratings

| Faster Shaft RPM | Rated HP per Belt for Small Sheave Datum Dia. |       |      |       |       |       |       |       |       |       |       |       | Add'l HP/Belt for Speed Ratio of: |       |      |      |      |      |      |      |      |      |      |
|------------------|---|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------------|-------|------|------|------|------|------|------|------|------|------|
|                  | 5.2   |       | 5.6  |       | 5.8   |       | 6.0   |       | 6.4   |       | 6.6   |       | 7.0                               |       | 1.02 | 1.05 | 1.09 | 1.13 | 1.19 | 1.25 | 1.35 | 1.52 | 2.00 |
|                  | A   | AX    | A    | AX    | A     | AX    | A     | AX    | A     | AX    | A     | AX    | A                                 | AX    | 1.04 | 1.08 | 1.12 | 1.18 | 1.24 | 1.34 | 1.51 | 1.99 | & up |
| 870              | 3.44  | 3.72  | 3.81 | 4.05  | 3.99  | 4.22  | 4.18  | 4.38  | 4.54  | 4.71  | 4.72  | 4.87  | 5.08                              | 5.19  | 0.03 | 0.05 | 0.08 | 0.10 | 0.13 | 0.15 | 0.16 | 0.20 | 0.23 |
| 1160             | 4.34  | 4.63  | 4.81 | 5.05  | 5.04  | 5.26  | 5.28  | 5.47  | 5.74  | 5.87  | 5.96  | 6.08  | 6.42                              | 6.48  | 0.03 | 0.06 | 0.10 | 0.13 | 0.17 | 0.20 | 0.21 | 0.26 | 0.29 |
| 1750             | 5.94  | 6.25  | 6.59 | 6.83  | 6.90  | 7.11  | 7.22  | 7.39  | 7.84  | 7.94  | 8.14  | 8.21  | 8.73                              | 8.75  | 0.04 | 0.09 | 0.15 | 0.20 | 0.26 | 0.30 | 0.35 | 0.40 | 0.44 |
| 3500             | 8.82  | 9.68  | 9.64 | 10.53 | 10.02 | 10.94 | 10.38 | 11.34 | 11.03 | 12.10 | 11.32 | 12.47 | ---                               | ---   | 0.08 | 0.19 | 0.31 | 0.41 | 0.52 | 0.60 | 0.70 | 0.79 | 0.87 |
| 100              | 0.54  | 0.63  | 0.59 | 0.69  | 0.62  | 0.71  | 0.64  | 0.74  | 0.70  | 0.79  | 0.72  | 0.82  | 0.78                              | 0.87  | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 |
| 200              | 0.98  | 1.13  | 1.09 | 1.23  | 1.14  | 1.28  | 1.19  | 1.33  | 1.29  | 1.43  | 1.34  | 1.47  | 1.43                              | 1.57  | 0.00 | 0.01 | 0.02 | 0.02 | 0.03 | 0.03 | 0.04 | 0.04 | 0.05 |
| 300              | 1.40  | 1.59  | 1.54 | 1.73  | 1.62  | 1.79  | 1.69  | 1.86  | 1.83  | 2.00  | 1.90  | 2.07  | 2.05                              | 2.20  | 0.01 | 0.02 | 0.03 | 0.03 | 0.04 | 0.05 | 0.05 | 0.06 | 0.06 |
| 400              | 1.79  | 2.01  | 1.98 | 2.18  | 2.07  | 2.27  | 2.17  | 2.36  | 2.35  | 2.53  | 2.44  | 2.62  | 2.63                              | 2.79  | 0.01 | 0.02 | 0.03 | 0.04 | 0.06 | 0.07 | 0.08 | 0.09 | 0.09 |
| 500              | 2.16  | 2.40  | 2.39 | 2.62  | 2.51  | 2.72  | 2.62  | 2.83  | 2.85  | 3.03  | 2.96  | 3.14  | 3.18                              | 3.34  | 0.01 | 0.03 | 0.04 | 0.06 | 0.07 | 0.08 | 0.10 | 0.11 | 0.12 |
| 600              | 2.52  | 2.78  | 2.79 | 3.03  | 2.93  | 3.15  | 3.06  | 3.27  | 3.33  | 3.51  | 3.46  | 3.63  | 3.72                              | 3.87  | 0.01 | 0.03 | 0.05 | 0.07 | 0.09 | 0.10 | 0.12 | 0.13 | 0.15 |
| 700              | 2.87  | 3.14  | 3.18 | 3.42  | 3.33  | 3.56  | 3.49  | 3.70  | 3.79  | 3.97  | 3.94  | 4.11  | 4.24                              | 4.38  | 0.02 | 0.04 | 0.06 | 0.08 | 0.10 | 0.12 | 0.14 | 0.16 | 0.17 |
| 800              | 3.21  | 3.48  | 3.55 | 3.80  | 3.73  | 3.95  | 3.90  | 4.11  | 4.24  | 4.41  | 4.41  | 4.56  | 4.74                              | 4.86  | 0.02 | 0.04 | 0.07 | 0.09 | 0.12 | 0.14 | 0.16 | 0.18 | 0.20 |
| 900              | 3.53  | 3.82  | 3.92 | 4.16  | 4.11  | 4.33  | 4.30  | 4.50  | 4.67  | 4.84  | 4.86  | 5.00  | 5.23                              | 5.33  | 0.02 | 0.05 | 0.08 | 0.10 | 0.13 | 0.15 | 0.18 | 0.20 | 0.22 |
| 1000             | 3.85  | 4.14  | 4.27 | 4.51  | 4.48  | 4.70  | 4.68  | 4.88  | 5.09  | 5.25  | 5.29  | 5.43  | 5.70                              | 5.78  | 0.02 | 0.05 | 0.09 | 0.11 | 0.15 | 0.17 | 0.20 | 0.22 | 0.25 |
| 1100             | 4.16  | 4.45  | 4.61 | 4.85  | 4.83  | 5.05  | 5.06  | 5.25  | 5.50  | 5.64  | 5.72  | 5.84  | 6.15                              | 6.22  | 0.02 | 0.06 | 0.09 | 0.13 | 0.16 | 0.19 | 0.22 | 0.25 | 0.27 |
| 1200             | 4.45  | 4.75  | 4.94 | 5.18  | 5.18  | 5.40  | 5.42  | 5.61  | 5.89  | 6.03  | 6.13  | 6.23  | 6.59                              | 6.64  | 0.03 | 0.06 | 0.10 | 0.14 | 0.18 | 0.21 | 0.24 | 0.27 | 0.29 |
| 1300             | 4.74  | 5.04  | 5.26 | 5.50  | 5.52  | 5.73  | 5.77  | 5.95  | 6.27  | 6.40  | 6.52  | 6.62  | 7.01                              | 7.05  | 0.03 | 0.07 | 0.11 | 0.15 | 0.19 | 0.22 | 0.26 | 0.29 | 0.32 |
| 1400             | 5.02  | 5.32  | 5.57 | 5.81  | 5.84  | 6.05  | 6.11  | 6.29  | 6.64  | 6.76  | 6.91  | 6.99  | 7.42                              | 7.45  | 0.03 | 0.07 | 0.12 | 0.16 | 0.21 | 0.24 | 0.28 | 0.31 | 0.35 |
| 1500             | 5.30  | 5.60  | 5.88 | 6.11  | 6.16  | 6.37  | 6.44  | 6.62  | 7.00  | 7.11  | 7.28  | 7.35  | 7.82                              | 7.84  | 0.03 | 0.08 | 0.13 | 0.17 | 0.22 | 0.26 | 0.30 | 0.33 | 0.37 |
| 1600             | 5.56  | 5.87  | 6.17 | 6.40  | 6.47  | 6.67  | 6.76  | 6.93  | 7.34  | 7.45  | 7.63  | 7.71  | 8.20                              | 8.21  | 0.04 | 0.08 | 0.14 | 0.19 | 0.24 | 0.27 | 0.32 | 0.36 | 0.40 |
| 1700             | 5.82  | 6.13  | 6.45 | 6.69  | 6.76  | 6.97  | 7.07  | 7.24  | 7.68  | 7.78  | 7.97  | 8.05  | 8.56                              | 8.57  | 0.04 | 0.09 | 0.15 | 0.20 | 0.25 | 0.29 | 0.34 | 0.38 | 0.42 |
| 1800             | 6.06  | 6.38  | 6.72 | 6.96  | 7.04  | 7.25  | 7.36  | 7.54  | 7.99  | 8.10  | 8.30  | 8.38  | 8.90                              | 8.92  | 0.04 | 0.09 | 0.16 | 0.21 | 0.27 | 0.31 | 0.36 | 0.41 | 0.45 |
| 1900             | 6.30  | 6.62  | 6.98 | 7.23  | 7.32  | 7.53  | 7.65  | 7.83  | 8.30  | 8.41  | 8.61  | 8.70  | 9.23                              | 9.26  | 0.04 | 0.10 | 0.17 | 0.22 | 0.28 | 0.32 | 0.38 | 0.43 | 0.47 |
| 2000             | 6.53  | 6.86  | 7.23 | 7.49  | 7.58  | 7.80  | 7.92  | 8.11  | 8.59  | 8.71  | 8.91  | 9.01  | 9.55                              | 9.59  | 0.05 | 0.11 | 0.18 | 0.23 | 0.29 | 0.34 | 0.40 | 0.45 | 0.49 |
| 2100             | 6.75  | 7.10  | 7.48 | 7.75  | 7.83  | 8.07  | 8.18  | 8.38  | 8.86  | 9.00  | 9.19  | 9.31  | 9.84                              | 9.90  | 0.05 | 0.11 | 0.19 | 0.24 | 0.31 | 0.36 | 0.42 | 0.47 | 0.52 |
| 2200             | 6.96  | 7.32  | 7.71 | 7.99  | 8.07  | 8.32  | 8.43  | 8.65  | 9.12  | 9.28  | 9.46  | 9.60  | 10.12                             | 10.21 | 0.05 | 0.12 | 0.20 | 0.26 | 0.32 | 0.38 | 0.44 | 0.49 | 0.55 |
| 2300             | 7.16  | 7.54  | 7.93 | 8.23  | 8.30  | 8.57  | 8.66  | 8.90  | 9.37  | 9.56  | 9.71  | 9.88  | 10.38                             | 10.50 | 0.05 | 0.12 | 0.21 | 0.27 | 0.34 | 0.40 | 0.46 | 0.51 | 0.57 |
| 2400             | 7.36  | 7.75  | 8.14 | 8.46  | 8.51  | 8.81  | 8.88  | 9.15  | 9.60  | 9.82  | 9.95  | 10.15 | 10.62                             | 10.79 | 0.05 | 0.13 | 0.21 | 0.28 | 0.36 | 0.42 | 0.46 | 0.54 | 0.60 |
| 2500             | 7.54  | 7.96  | 8.33 | 8.68  | 8.72  | 9.04  | 9.09  | 9.39  | 9.82  | 10.07 | 10.17 | 10.41 | 10.83                             | 11.06 | 0.05 | 0.13 | 0.22 | 0.29 | 0.37 | 0.43 | 0.49 | 0.56 | 0.62 |
| 2600             | 7.71  | 8.16  | 8.52 | 8.90  | 8.91  | 9.26  | 9.29  | 9.62  | 10.02 | 10.32 | 10.37 | 10.56 | 11.03                             | 11.32 | 0.06 | 0.14 | 0.23 | 0.30 | 0.39 | 0.45 | 0.51 | 0.58 | 0.65 |
| 2700             | 7.88  | 8.35  | 8.69 | 9.11  | 9.09  | 9.48  | 9.47  | 9.84  | 10.20 | 10.55 | 10.55 | 10.90 | 11.21                             | 11.57 | 0.06 | 0.14 | 0.24 | 0.31 | 0.40 | 0.46 | 0.53 | 0.61 | 0.67 |
| 2800             | 8.03  | 8.54  | 8.86 | 9.31  | 9.25  | 9.69  | 9.63  | 10.06 | 10.37 | 10.78 | 10.71 | 11.13 | 11.37                             | 11.81 | 0.06 | 0.15 | 0.25 | 0.32 | 0.42 | 0.46 | 0.56 | 0.63 | 0.69 |
| 2900             | 8.18  | 8.72  | 9.01 | 9.51  | 9.40  | 9.89  | 9.79  | 10.27 | 10.52 | 11.00 | 10.86 | 11.35 | 11.51                             | 12.04 | 0.06 | 0.16 | 0.26 | 0.33 | 0.43 | 0.48 | 0.58 | 0.65 | 0.71 |
| 3000             | 8.31  | 8.89  | 9.14 | 9.69  | 9.54  | 10.08 | 9.92  | 10.47 | 10.65 | 11.21 | 10.99 | 11.57 | 11.62                             | 12.26 | 0.07 | 0.16 | 0.27 | 0.35 | 0.45 | 0.51 | 0.60 | 0.67 | 0.74 |
| 3100             | 8.43  | 9.06  | 9.27 | 9.88  | 9.67  | 10.27 | 10.05 | 10.66 | 10.76 | 11.40 | 11.10 | 11.77 | 11.71                             | 12.47 | 0.07 | 0.17 | 0.27 | 0.36 | 0.47 | 0.53 | 0.62 | 0.69 | 0.77 |
| 3200             | 8.55  | 9.23  | 9.38 | 10.05 | 9.78  | 10.45 | 10.15 | 10.84 | 10.86 | 11.59 | 11.18 | 11.96 | 11.78                             | 12.66 | 0.07 | 0.17 | 0.28 | 0.37 | 0.48 | 0.55 | 0.64 | 0.72 | 0.80 |
| 3300             | 8.65  | 9.38  | 9.38 | 10.22 | 9.87  | 10.62 | 10.24 | 11.01 | 10.93 | 11.77 | 11.25 | 12.14 | 11.83                             | 12.84 | 0.07 | 0.18 | 0.27 | 0.38 | 0.49 | 0.57 | 0.66 | 0.74 | 0.82 |
| 3400             | 8.74  | 9.53  | 9.57 | 10.38 | 9.95  | 10.78 | 10.32 | 11.18 | 10.99 | 10.94 | 11.30 | 12.31 | 11.85                             | 13.02 | 0.08 | 0.19 | 0.30 | 0.40 | 0.50 | 0.59 | 0.68 | 0.76 | 0.84 |
| 3500             | 8.82  | 9.68  | 9.64 | 10.53 | 10.02 | 10.94 | 10.38 | 11.34 | 11.03 | 12.10 | 11.32 | 12.47 | ---                               | ---   | 0.08 | 0.20 | 0.31 | 0.41 | 0.51 | 0.60 | 0.70 | 0.79 | 0.86 |
| 3600             | 8.88  | 9.81  | 9.69 | 10.67 | 10.07 | 11.08 | 10.42 | 11.49 | 11.05 | 12.26 | 11.33 | 12.62 | ---                               | ---   | 0.08 | 0.20 | 0.32 | 0.42 | 0.53 | 0.62 | 0.72 | 0.81 | 0.89 |
| 3700             | 8.94  | 9.94  | 9.74 | 10.81 | 10.10 | 11.22 | 10.44 | 11.63 | 11.04 | 12.40 | ---   | ---   | ---                               | ---   | 0.08 | 0.21 | 0.33 | 0.43 | 0.55 | 0.64 | 0.74 | 0.83 | 0.91 |
| 3800             | 8.98  | 10.07 | 9.76 | 10.94 | 10.12 | 11.36 | 10.45 | 11.76 | ---   | ---   | ---   | ---   | ---                               | ---   | 0.09 | 0.21 | 0.34 | 0.44 | 0.56 | 0.66 | 0.76 | 0.85 | 0.94 |
| 3900             | 9.01  | 10.19 | 9.78 | 11.06 | 10.12 | 11.48 | 10.43 | 11.88 | ---   | ---   | ---   | ---   | ---                               | ---   | 0.09 | 0.22 | 0.35 | 0.45 | 0.58 | 0.67 | 0.78 | 0.87 | 0.97 |
| 4000             | 9.03  | 10.30 | 9.77 | 11.18 | 10.10 | 11.60 | ---   | ---   | ---   | ---   | ---   | ---   | ---                               | ---   | 0.09 | 0.22 | 0.35 | 0.47 | 0.60 | 0.69 | 0.80 | 0.90 | 1.00 |



Note: Shaded area indicates operation above 6500 FPM rim speed. Special sheave construction required.

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).





# SELECTION

|          |                    |           |                    |
|----------|--------------------|-----------|--------------------|
| <b>B</b> | <b>S-L CLASSIC</b> | <b>BX</b> | <b>CLASSIC COG</b> |
|----------|--------------------|-----------|--------------------|

## Basic Horsepower Ratings

| Faster Shaft RPM | Rated HP per Belt for Small Sheave Datum Dia. |      |      |      |      |      |      |      |      |       |      |       |      |       |      |       |      |       |      |       |
|------------------|---|------|------|------|------|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|
|                  | 3.4   |      | 3.6  |      | 3.8  |      | 4.0  |      | 4.2  |       | 4.4  |       | 4.6  |       | 5.0  |       | 5.4  |       | 5.6  |       |
|                  | B   | BX   | B    | BX   | B    | BX   | B    | BX   | B    | BX    | B    | BX    | B    | BX    | B    | BX    | B    | BX    | B    | BX    |
| <b>870</b>       | 1.42  | 3.01 | 1.73 | 3.27 | 2.04 | 3.53 | 2.35 | 3.79 | 2.66 | 4.04  | 2.96 | 4.30  | 3.27 | 4.55  | 3.87 | 5.04  | 4.47 | 5.53  | 4.76 | 5.78  |
| <b>1160</b>      | 1.65  | 3.72 | 2.05 | 4.06 | 2.45 | 4.38 | 2.84 | 4.71 | 3.24 | 5.03  | 3.63 | 5.35  | 4.02 | 5.67  | 4.78 | 6.29  | 5.54 | 6.91  | 5.92 | 7.21  |
| <b>1750</b>      | 1.92  | 4.96 | 2.48 | 5.42 | 3.05 | 5.87 | 3.60 | 6.32 | 4.15 | 6.76  | 4.70 | 7.20  | 5.23 | 7.63  | 6.30 | 8.47  | 7.33 | 9.29  | 7.84 | 9.69  |
| <b>3500</b>      | 1.37  | 7.27 | 2.27 | 7.96 | 3.16 | 8.64 | 4.01 | 9.28 | 4.84 | 9.91  | 5.64 | 10.51 | 6.41 | 11.08 | 7.87 | 12.14 | 92.0 | 13.10 | 9.82 | 13.53 |
| <b>100</b>       | 0.31  | 0.53 | 0.36 | 0.56 | 0.40 | 0.60 | 0.44 | 0.64 | 0.49 | 0.68  | 0.53 | 0.72  | 0.57 | 0.76  | 0.56 | 0.84  | 0.75 | 0.91  | 0.79 | 0.95  |
| <b>200</b>       | 0.53  | 0.94 | 0.61 | 1.01 | 0.70 | 1.08 | 0.78 | 1.16 | 0.86 | 1.23  | 0.94 | 1.30  | 1.02 | 1.37  | 1.19 | 1.51  | 1.35 | 1.65  | 1.43 | 1.72  |
| <b>300</b>       | 0.71  | 1.30 | 0.83 | 1.41 | 0.95 | 1.51 | 1.07 | 1.62 | 1.19 | 1.72  | 1.31 | 1.82  | 1.43 | 1.92  | 1.66 | 2.13  | 1.89 | 2.33  | 2.01 | 2.42  |
| <b>400</b>       | 0.87  | 1.64 | 1.03 | 1.78 | 1.18 | 1.91 | 1.34 | 2.05 | 1.49 | 2.18  | 1.64 | 2.31  | 1.80 | 2.44  | 2.10 | 2.70  | 2.40 | 2.95  | 2.55 | 3.08  |
| <b>500</b>       | 1.01  | 1.96 | 1.20 | 2.13 | 1.39 | 2.29 | 1.58 | 2.45 | 1.77 | 2.61  | 1.96 | 2.77  | 2.14 | 2.93  | 2.51 | 3.24  | 2.88 | 3.55  | 3.06 | 3.70  |
| <b>600</b>       | 1.14  | 2.26 | 1.36 | 2.45 | 1.59 | 2.64 | 1.81 | 2.83 | 2.03 | 3.02  | 2.25 | 3.20  | 2.47 | 3.39  | 2.90 | 3.75  | 3.33 | 4.11  | 3.55 | 4.29  |
| <b>700</b>       | 1.25  | 2.55 | 1.51 | 2.77 | 1.76 | 2.98 | 2.02 | 3.20 | 2.27 | 3.41  | 2.53 | 3.62  | 2.78 | 3.83  | 3.28 | 4.25  | 3.77 | 4.66  | 4.01 | 4.86  |
| <b>800</b>       | 1.35  | 2.82 | 1.64 | 3.07 | 1.93 | 3.31 | 2.22 | 3.55 | 2.50 | 3.79  | 2.79 | 4.02  | 3.07 | 4.26  | 3.63 | 4.72  | 4.18 | 5.18  | 4.46 | 5.41  |
| <b>900</b>       | 1.45  | 3.09 | 1.77 | 3.36 | 2.09 | 3.62 | 2.41 | 3.89 | 2.72 | 4.15  | 3.04 | 4.41  | 3.35 | 4.67  | 3.97 | 5.18  | 4.58 | 5.68  | 4.89 | 5.93  |
| <b>1000</b>      | 1.53  | 3.34 | 1.88 | 3.63 | 2.23 | 3.92 | 2.58 | 4.21 | 2.93 | 4.50  | 3.27 | 4.78  | 3.62 | 5.06  | 4.29 | 5.62  | 4.96 | 6.17  | 5.30 | 6.44  |
| <b>1100</b>      | 1.61  | 3.58 | 1.99 | 3.90 | 2.37 | 4.21 | 2.75 | 4.53 | 3.12 | 4.84  | 3.50 | 5.14  | 3.87 | 5.44  | 4.60 | 6.04  | 5.33 | 6.63  | 5.69 | 6.92  |
| <b>1200</b>      | 1.67  | 3.82 | 2.09 | 4.16 | 2.50 | 4.50 | 2.90 | 4.83 | 3.31 | 5.16  | 3.71 | 5.49  | 4.11 | 5.81  | 4.90 | 6.45  | 5.68 | 7.08  | 6.07 | 7.40  |
| <b>1300</b>      | 1.73  | 4.04 | 2.18 | 4.41 | 2.62 | 4.77 | 3.05 | 5.12 | 3.48 | 5.47  | 3.91 | 5.82  | 4.34 | 6.17  | 5.18 | 6.85  | 6.02 | 7.52  | 6.43 | 7.85  |
| <b>1400</b>      | 1.79  | 4.26 | 2.26 | 4.65 | 2.73 | 5.03 | 3.19 | 5.40 | 3.65 | 5.78  | 4.11 | 6.15  | 4.56 | 6.51  | 5.45 | 7.23  | 6.33 | 7.94  | 6.77 | 8.29  |
| <b>1500</b>      | 1.83  | 4.47 | 2.33 | 4.88 | 2.83 | 5.28 | 3.32 | 5.68 | 3.80 | 6.07  | 4.29 | 6.46  | 4.77 | 6.85  | 5.71 | 7.60  | 6.64 | 8.34  | 7.10 | 8.71  |
| <b>1600</b>      | 1.87  | 4.67 | 2.40 | 5.10 | 2.92 | 5.52 | 3.44 | 5.94 | 3.95 | 6.35  | 4.46 | 6.76  | 4.96 | 7.17  | 5.95 | 7.96  | 6.93 | 8.73  | 7.41 | 9.11  |
| <b>1700</b>      | 1.90  | 4.87 | 2.46 | 5.32 | 3.01 | 5.76 | 3.55 | 6.20 | 4.09 | 6.63  | 4.62 | 7.05  | 5.15 | 7.48  | 6.19 | 8.30  | 7.20 | 9.11  | 7.70 | 9.50  |
| <b>1800</b>      | 1.93  | 5.06 | 2.51 | 5.53 | 3.08 | 5.99 | 3.65 | 6.44 | 4.21 | 6.89  | 4.77 | 7.34  | 5.32 | 7.77  | 6.40 | 8.63  | 7.46 | 9.46  | 7.98 | 9.87  |
| <b>1900</b>      | 1.95  | 5.24 | 2.55 | 5.73 | 3.15 | 6.21 | 3.74 | 6.68 | 4.33 | 7.15  | 4.91 | 7.61  | 5.48 | 8.06  | 6.61 | 8.95  | 7.70 | 9.81  | 8.24 | 10.23 |
| <b>2000</b>      | 1.96  | 5.42 | 2.59 | 5.92 | 3.21 | 6.42 | 3.83 | 6.91 | 4.44 | 7.39  | 5.04 | 7.87  | 5.63 | 8.34  | 6.80 | 9.25  | 7.93 | 10.14 | 8.49 | 10.57 |
| <b>2100</b>      | 1.97  | 5.58 | 2.62 | 6.11 | 3.27 | 6.62 | 3.91 | 7.13 | 4.54 | 7.63  | 5.16 | 8.12  | 5.77 | 8.60  | 6.97 | 9.54  | 8.14 | 10.45 | 8.71 | 10.89 |
| <b>2200</b>      | 1.97  | 5.75 | 2.65 | 6.29 | 3.31 | 6.82 | 3.97 | 7.34 | 4.63 | 7.85  | 5.27 | 8.36  | 5.90 | 8.85  | 7.14 | 9.82  | 8.34 | 10.75 | 8.92 | 11.20 |
| <b>2300</b>      | 1.96  | 5.90 | 2.66 | 6.46 | 3.35 | 7.00 | 4.03 | 7.54 | 4.70 | 8.07  | 5.36 | 8.59  | 6.02 | 9.09  | 7.29 | 10.08 | 8.51 | 11.03 | 9.11 | 11.49 |
| <b>2400</b>      | 1.95  | 6.05 | 2.67 | 6.62 | 3.38 | 7.18 | 4.08 | 7.74 | 4.77 | 8.28  | 5.45 | 8.81  | 6.12 | 9.33  | 7.42 | 10.33 | 8.67 | 11.29 | 9.28 | 11.76 |
| <b>2500</b>      | 1.93  | 6.19 | 2.67 | 6.78 | 3.40 | 7.36 | 4.12 | 7.92 | 4.83 | 8.47  | 5.53 | 9.02  | 6.21 | 9.54  | 7.54 | 10.57 | 8.82 | 11.54 | 9.44 | 12.01 |
| <b>2600</b>      | 1.90  | 6.33 | 2.67 | 6.93 | 3.42 | 7.52 | 4.16 | 8.10 | 4.88 | 8.66  | 5.59 | 9.21  | 6.29 | 9.75  | 7.65 | 10.79 | 8.94 | 11.78 | 9.57 | 12.25 |
| <b>2700</b>      | 1.87  | 6.46 | 2.65 | 7.08 | 3.42 | 7.68 | 4.18 | 8.27 | 4.92 | 8.84  | 5.65 | 9.40  | 6.36 | 9.95  | 7.74 | 11.00 | 9.05 | 11.99 | 9.68 | 12.47 |
| <b>2800</b>      | 1.83  | 6.58 | 2.63 | 7.21 | 3.42 | 7.83 | 4.19 | 8.42 | 4.95 | 9.01  | 5.69 | 9.58  | 6.41 | 10.13 | 7.81 | 11.20 | 9.14 | 12.19 | 9.78 | 12.67 |
| <b>2900</b>      | 1.78  | 6.70 | 2.60 | 7.34 | 3.41 | 7.97 | 4.20 | 8.57 | 4.97 | 9.17  | 5.72 | 9.74  | 6.45 | 10.30 | 7.87 | 11.38 | 9.21 | 12.38 | 9.85 | 12.85 |
| <b>3000</b>      | 1.73  | 6.81 | 2.57 | 7.46 | 3.39 | 8.10 | 4.19 | 8.72 | 4.97 | 9.32  | 5.74 | 9.90  | 6.48 | 10.46 | 7.91 | 11.54 | 9.26 | 12.54 | 9.90 | 13.02 |
| <b>3100</b>      | 1.67  | 6.92 | 2.53 | 7.58 | 3.36 | 8.22 | 4.17 | 8.85 | 4.97 | 9.45  | 5.74 | 10.04 | 6.50 | 10.61 | 7.94 | 11.69 | 9.29 | 12.69 | 9.93 | 13.16 |
| <b>3200</b>      | 1.61  | 7.01 | 2.47 | 7.68 | 3.32 | 8.34 | 4.15 | 8.97 | 4.95 | 9.58  | 5.74 | 10.18 | 6.50 | 10.75 | 7.95 | 11.83 | 9.30 | 12.82 | 9.93 | 13.28 |
| <b>3300</b>      | 1.53  | 7.10 | 2.42 | 7.78 | 3.28 | 8.45 | 4.11 | 9.08 | 4.93 | 9.70  | 5.72 | 10.30 | 6.48 | 10.87 | 7.94 | 11.95 | 9.29 | 12.93 | 9.92 | 13.39 |
| <b>3400</b>      | 1.45  | 7.19 | 2.35 | 7.88 | 3.22 | 8.54 | 4.07 | 9.19 | 4.89 | 9.81  | 5.69 | 10.41 | 6.46 | 10.98 | 7.91 | 12.05 | 9.25 | 13.03 | 9.88 | 13.47 |
| <b>3500</b>      | 1.37  | 7.27 | 2.27 | 7.96 | 3.16 | 8.64 | 4.01 | 9.28 | 4.84 | 9.91  | 5.64 | 10.51 | 6.41 | 11.08 | 7.87 | 12.14 | 9.20 | 13.10 | 9.82 | 13.53 |
| <b>3600</b>      | 1.27  | 7.34 | 2.19 | 8.04 | 3.08 | 8.72 | 3.95 | 9.37 | 4.78 | 9.99  | 5.58 | 10.59 | 6.36 | 11.16 | 7.81 | 12.22 | 9.12 | 13.15 | 9.73 | 13.58 |
| <b>3700</b>      | 1.17  | 7.40 | 2.10 | 8.11 | 3.00 | 8.79 | 3.87 | 9.44 | 4.71 | 10.07 | 5.51 | 10.67 | 6.29 | 11.23 | 7.73 | 12.27 | 9.03 | 13.19 | 9.62 | 13.59 |
| <b>3800</b>      | 1.06  | 7.46 | 2.00 | 8.17 | 2.91 | 8.86 | 3.78 | 9.51 | 4.62 | 10.13 | 5.43 | 10.73 | 6.20 | 11.29 | 7.63 | 12.31 | 8.90 | 13.20 | 9.46 | 13.59 |
| <b>3900</b>      | 0.94  | 7.51 | 1.89 | 8.23 | 2.80 | 8.91 | 3.68 | 9.57 | 4.52 | 10.19 | 5.33 | 10.78 | 6.10 | 11.33 | 7.51 | 12.34 | 8.76 | 13.20 | 9.32 | 13.57 |
| <b>4000</b>      | 0.82  | 7.55 | 1.77 | 8.27 | 2.69 | 8.96 | 3.57 | 9.61 | 4.41 | 10.23 | 5.22 | 10.81 | 5.98 | 11.36 | 7.37 | 12.34 | 8.59 | 13.17 | 9.13 | 13.52 |

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

# SELECTION



**B** S-L CLASSIC

**BX** CLASSIC COG

## Basic Horsepower Ratings

| Faster Shaft RPM | Rated HP per Belt for Small Sheave Datum Dia. |       |       |       |       |       |       |       |       |       |       |       |       |       | Add'l HP/Belt for Speed Ratio of: |      |      |      |      |      |      |      |      |  |
|------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------------|------|------|------|------|------|------|------|------|--|
|                  | 6.0   |       | 6.4   |       | 6.8   |       | 7.4   |       | 8.0   |       | 8.6   |       | 9.4   |       | 1.02                              | 1.05 | 1.09 | 1.13 | 1.19 | 1.25 | 1.35 | 1.52 | 2.00 |  |
|                  | B   | BX    | B     | BX    | B     | BX    | B     | BX    | B     | BX    | B     | BX    | B     | BX    | 1.04                              | 1.08 | 1.12 | 1.18 | 1.24 | 1.34 | 1.51 | 1.99 | & up |  |
| 870              | 5.35  | 6.26  | 5.93  | 6.73  | 6.50  | 7.20  | 7.36  | 7.89  | 8.19  | 8.56  | 9.02  | 9.23  | 10.10 | 10.09 | 0.04                              | 0.01 | 0.17 | 0.22 | 0.28 | 0.32 | 0.38 | 0.42 | 0.47 |  |
| 1160             | 6.66  | 7.81  | 7.39  | 8.40  | 8.12  | 8.97  | 9.18  | 9.82  | 10.23 | 10.65 | 11.25 | 11.45 | 12.58 | 12.49 | 0.06                              | 0.14 | 0.22 | 0.29 | 0.38 | 0.43 | 0.50 | 0.56 | 0.63 |  |
| 1750             | 8.85  | 10.47 | 9.83  | 11.24 | 10.78 | 11.98 | 12.17 | 13.04 | 13.50 | 14.06 | 14.77 | 15.02 | 16.36 | 16.21 | 0.09                              | 0.20 | 0.34 | 0.44 | 0.66 | 0.56 | 0.70 | 0.79 | 0.88 |  |
| 3500             | 10.95   | 14.31 | 11.94 | 14.97 | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | 0.18                              | 0.42 | 0.68 | 0.89 | 1.13 | 1.32 | 1.52 | 1.71 | 1.89 |  |
| 100              | 0.87  | 1.03  | 0.96  | 1.10  | 1.04  | 1.18  | 1.17  | 1.29  | 1.29  | 1.40  | 1.42  | 1.51  | 1.58  | 1.65  | 0.00                              | 0.01 | 0.02 | 0.02 | 0.03 | 0.03 | 0.04 | 0.05 | 0.05 |  |
| 200              | 1.59  | 1.86  | 1.75  | 2.09  | 1.90  | 2.14  | 2.14  | 2.34  | 2.37  | 2.54  | 2.60  | 2.74  | 2.91  | 3.09  | 0.01                              | 0.02 | 0.04 | 0.05 | 0.06 | 0.07 | 0.08 | 0.09 | 0.10 |  |
| 300              | 2.24  | 2.62  | 2.47  | 2.82  | 2.69  | 3.01  | 3.03  | 3.30  | 3.37  | 3.58  | 3.70  | 3.86  | 4.14  | 4.23  | 0.01                              | 0.03 | 0.05 | 0.07 | 0.09 | 0.11 | 0.13 | 0.15 | 0.16 |  |
| 400              | 2.85  | 3.33  | 3.14  | 3.58  | 3.44  | 3.83  | 3.87  | 4.20  | 4.31  | 4.56  | 4.74  | 4.92  | 5.30  | 5.39  | 0.02                              | 0.04 | 0.07 | 0.10 | 0.11 | 0.15 | 0.17 | 0.19 | 0.21 |  |
| 500              | 3.42  | 4.01  | 3.79  | 4.31  | 4.14  | 4.61  | 4.67  | 5.05  | 5.20  | 5.49  | 5.72  | 5.92  | 6.41  | 6.48  | 0.02                              | 0.06 | 0.09 | 0.12 | 0.16 | 0.19 | 0.21 | 0.24 | 0.27 |  |
| 600              | 3.98  | 4.65  | 4.40  | 5.09  | 4.82  | 5.35  | 5.44  | 5.86  | 6.06  | 6.37  | 6.67  | 6.87  | 7.47  | 7.52  | 0.03                              | 0.07 | 0.12 | 0.15 | 0.19 | 0.22 | 0.26 | 0.29 | 0.32 |  |
| 700              | 4.50  | 5.26  | 4.98  | 5.66  | 5.46  | 6.06  | 6.17  | 6.64  | 6.88  | 7.21  | 7.57  | 7.77  | 8.48  | 8.51  | 0.03                              | 0.08 | 0.14 | 0.17 | 0.22 | 0.26 | 0.30 | 0.34 | 0.38 |  |
| 800              | 5.01  | 5.86  | 5.55  | 6.30  | 6.08  | 6.74  | 6.88  | 7.38  | 7.66  | 8.02  | 8.44  | 8.64  | 9.45  | 9.46  | 0.04                              | 0.09 | 0.16 | 0.20 | 0.26 | 0.30 | 0.34 | 0.39 | 0.43 |  |
| 900              | 5.49  | 6.42  | 6.09  | 6.91  | 6.68  | 7.39  | 7.56  | 8.10  | 8.42  | 8.79  | 9.27  | 9.47  | 10.38 | 10.36 | 0.04                              | 0.11 | 0.17 | 0.23 | 0.29 | 0.33 | 0.39 | 0.44 | 0.49 |  |
| 1000             | 5.96  | 6.97  | 6.61  | 7.50  | 7.25  | 8.02  | 8.20  | 8.78  | 9.14  | 9.53  | 10.06 | 10.26 | 11.26 | 11.21 | 0.05                              | 0.12 | 0.19 | 0.25 | 0.32 | 0.37 | 0.43 | 0.49 | 0.54 |  |
| 1100             | 6.40  | 7.50  | 7.11  | 8.07  | 7.80  | 8.62  | 8.82  | 9.44  | 9.83  | 10.24 | 10.81 | 11.02 | 12.10 | 12.02 | 0.05                              | 0.11 | 0.21 | 0.28 | 0.35 | 0.41 | 0.47 | 0.54 | 0.59 |  |
| 1200             | 6.83  | 8.01  | 7.58  | 8.61  | 8.32  | 9.20  | 9.42  | 10.07 | 10.49 | 10.92 | 11.53 | 11.74 | 12.89 | 12.79 | 0.06                              | 0.14 | 0.23 | 0.30 | 0.39 | 0.45 | 0.52 | 0.58 | 0.65 |  |
| 1300             | 7.24  | 8.50  | 8.04  | 9.14  | 8.83  | 9.76  | 9.98  | 10.67 | 11.11 | 11.56 | 12.21 | 12.42 | 13.63 | 13.52 | 0.06                              | 0.15 | 0.25 | 0.33 | 0.42 | 0.49 | 0.56 | 0.64 | 0.70 |  |
| 1400             | 7.63  | 8.97  | 8.47  | 9.64  | 9.30  | 10.29 | 10.52 | 11.25 | 11.70 | 12.17 | 12.85 | 13.06 | 14.33 | 14.20 | 0.07                              | 0.16 | 0.27 | 0.35 | 0.45 | 0.53 | 0.60 | 0.68 | 0.76 |  |
| 1500             | 8.00  | 9.42  | 8.89  | 10.12 | 9.76  | 10.80 | 11.03 | 11.80 | 12.26 | 12.75 | 13.45 | 13.67 | 14.98 | 14.83 | 0.07                              | 0.18 | 0.29 | 0.38 | 0.48 | 0.56 | 0.65 | 0.73 | 0.81 |  |
| 1600             | 8.35  | 9.85  | 9.28  | 10.58 | 10.19 | 11.29 | 11.51 | 12.32 | 12.78 | 13.30 | 14.01 | 14.24 | 15.57 | 15.42 | 0.08                              | 0.19 | 0.31 | 0.41 | 0.52 | 0.60 | 0.69 | 0.78 | 0.86 |  |
| 1700             | 8.69  | 10.27 | 9.65  | 11.02 | 10.59 | 11.75 | 11.96 | 12.81 | 13.27 | 13.81 | 14.53 | 14.77 | 16.11 | 15.96 | 0.08                              | 0.20 | 0.33 | 0.43 | 0.55 | 0.64 | 0.74 | 0.83 | 0.92 |  |
| 1800             | 9.00  | 10.67 | 10.09 | 11.44 | 10.97 | 12.19 | 12.37 | 13.27 | 13.72 | 14.29 | 15.00 | 15.25 | 16.60 | 16.44 | 0.09                              | 0.21 | 0.35 | 0.45 | 0.58 | 0.68 | 0.78 | 0.88 | 0.97 |  |
| 1900             | 9.30  | 11.05 | 10.32 | 11.84 | 11.32 | 12.61 | 12.76 | 13.70 | 14.13 | 14.74 | 15.42 | 15.70 | 17.03 | 16.88 | 0.10                              | 0.22 | 0.37 | 0.48 | 0.61 | 0.71 | 0.82 | 0.93 | 1.03 |  |
| 2000             | 9.57  | 11.41 | 10.63 | 12.22 | 11.65 | 13.00 | 13.11 | 14.11 | 14.50 | 15.14 | 15.80 | 16.10 | 17.39 | 17.26 | 0.10                              | 0.24 | 0.39 | 0.51 | 0.65 | 0.75 | 0.87 | 0.97 | 1.08 |  |
| 2100             | 9.83  | 11.75 | 10.91 | 12.57 | 11.95 | 13.36 | 13.43 | 14.48 | 14.83 | 15.52 | 16.13 | 16.47 | 17.70 | 17.59 | 0.11                              | 0.25 | 0.41 | 0.53 | 0.68 | 0.79 | 0.91 | 1.03 | 1.14 |  |
| 2200             | 10.06   | 12.07 | 11.16 | 12.91 | 12.22 | 13.70 | 13.72 | 14.82 | 15.11 | 15.85 | 16.40 | 16.78 | 17.94 | 17.85 | 0.11                              | 0.26 | 0.42 | 0.56 | 0.71 | 0.82 | 0.95 | 1.08 | 1.19 |  |
| 2300             | 10.27   | 12.37 | 11.39 | 13.21 | 12.46 | 14.02 | 13.97 | 15.13 | 15.36 | 16.14 | 16.63 | 17.05 | 18.12 | 18.08 | 0.12                              | 0.27 | 0.44 | 0.58 | 0.74 | 0.86 | 1.09 | 1.12 | 1.24 |  |
| 2400             | 10.46   | 12.65 | 11.59 | 13.50 | 12.67 | 14.30 | 14.18 | 15.41 | 15.56 | 16.40 | 16.80 | 17.27 | 18.22 | 18.23 | 0.12                              | 0.28 | 0.46 | 0.61 | 0.78 | 0.90 | 1.02 | 1.18 | 1.30 |  |
| 2500             | 10.63   | 12.91 | 11.77 | 13.76 | 12.85 | 14.56 | 14.35 | 15.65 | 15.71 | 16.61 | 16.91 | 17.44 | 18.26 | 18.32 | 0.12                              | 0.29 | 0.48 | 0.63 | 0.83 | 0.93 | 1.08 | 1.22 | 1.35 |  |
| 2600             | 10.78   | 13.15 | 11.92 | 14.00 | 13.00 | 14.79 | 14.49 | 15.86 | 15.81 | 16.79 | 16.96 | 17.56 | ---   | ---   | 0.13                              | 0.31 | 0.50 | 0.56 | 0.84 | 0.97 | 1.13 | 1.27 | 1.41 |  |
| 2700             | 10.90   | 13.37 | 12.04 | 14.22 | 13.11 | 14.99 | 14.58 | 16.03 | 15.86 | 16.92 | 16.96 | 17.63 | ---   | ---   | 0.13                              | 0.32 | 0.52 | 0.68 | 0.87 | 1.01 | 1.17 | 1.32 | 1.46 |  |
| 2800             | 10.99   | 13.57 | 12.14 | 14.40 | 13.20 | 15.17 | 14.63 | 16.17 | 15.87 | 17.00 | 16.42 | 17.74 | ---   | ---   | 0.14                              | 0.33 | 0.54 | 0.71 | 0.91 | 1.05 | 1.21 | 1.37 | 1.51 |  |
| 2900             | 11.07   | 13.75 | 12.20 | 14.57 | 13.25 | 15.31 | 14.64 | 16.27 | 15.82 | 17.04 | ---   | ---   | ---   | ---   | 0.14                              | 0.34 | 0.56 | 0.73 | 0.94 | 1.09 | 1.25 | 1.42 | 1.56 |  |
| 3000             | 11.11   | 13.90 | 12.24 | 14.70 | 13.26 | 15.42 | 14.61 | 16.33 | 15.81 | 17.09 | ---   | ---   | ---   | ---   | 0.15                              | 0.36 | 0.58 | 0.76 | 0.97 | 1.12 | 1.30 | 1.47 | 1.62 |  |
| 3100             | 11.13   | 14.06 | 12.24 | 14.81 | 13.24 | 15.50 | 14.53 | 16.36 | ---   | ---   | ---   | ---   | ---   | ---   | 0.15                              | 0.37 | 0.60 | 0.78 | 0.99 | 1.14 | 1.34 | 1.51 | 1.67 |  |
| 3200             | 11.13   | 14.14 | 12.21 | 14.90 | 13.18 | 15.55 | 14.41 | 16.34 | ---   | ---   | ---   | ---   | ---   | ---   | 0.16                              | 0.38 | 0.62 | 0.81 | 1.02 | 1.19 | 1.39 | 1.56 | 1.73 |  |
| 3300             | 11.10   | 14.22 | 12.15 | 14.95 | 13.09 | 15.57 | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | 0.16                              | 0.39 | 0.64 | 0.83 | 1.06 | 1.23 | 1.43 | 1.61 | 1.77 |  |
| 3400             | 11.04   | 14.28 | 12.06 | 14.98 | 12.95 | 15.55 | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | 0.17                              | 0.40 | 0.66 | 0.85 | 1.10 | 1.28 | 1.47 | 1.56 | 1.84 |  |
| 3500             | 10.95   | 15.31 | 11.94 | 14.97 | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | 0.17                              | 0.41 | 0.68 | 0.89 | 1.12 | 1.31 | 1.51 | 1.71 | 1.89 |  |
| 3600             | 10.83   | 14.32 | 11.78 | 14.94 | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | 0.18                              | 0.43 | 0.70 | 0.92 | 1.15 | 1.35 | 1.56 | 1.76 | 1.95 |  |
| 3700             | 10.68   | 14.31 | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | 0.18                              | 0.44 | 0.71 | 0.94 | 1.19 | 1.39 | 1.61 | 1.81 | 2.01 |  |
| 3800             | 10.50   | 14.26 | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | 0.19                              | 0.45 | 0.73 | 0.96 | 1.23 | 1.43 | 1.66 | 1.86 | 2.06 |  |
| 3900             | 10.30   | 14.19 | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | 0.19                              | 0.46 | 0.74 | 0.99 | 1.27 | 1.47 | 1.70 | 1.91 | 2.11 |  |
| 4000             | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | 0.20                              | 0.47 | 0.76 | 1.02 | 1.30 | 1.50 | 1.74 | 1.96 | 2.16 |  |



Note: Shaded area indicates operation above 6500 FPM rim speed. Special sheave construction required.

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).





# SELECTION

|          |                    |           |                    |
|----------|--------------------|-----------|--------------------|
| <b>C</b> | <b>S-L CLASSIC</b> | <b>CX</b> | <b>CLASSIC COG</b> |
|----------|--------------------|-----------|--------------------|

## Basic Horsepower Ratings

| Faster Shaft RPM | Rated HP per Belt for Small Sheave Datum Dia. |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                  | 6.0   |       | 6.5   |       | 7.0   |       | 7.5   |       | 8.0   |       | 8.5   |       | 9.0   |       | 9.5   |       | 10.0  |       | 10.5  |       |
|                  | C   | CX    | C     | CX    | C     | CX    | C     | CX    | C     | CX    | C     | CX    | C     | CX    | C     | CX    | C     | CX    | C     | CX    |
| 870              | 5.57  | 9.32  | 6.78  | 10.36 | 7.98  | 11.39 | 9.16  | 12.40 | 10.33 | 13.40 | 11.48 | 14.39 | 12.62 | 15.36 | 13.74 | 16.32 | 14.85 | 17.26 | 15.95 | 18.20 |
| 1160             | 6.66  | 11.62 | 8.19  | 12.93 | 9.69  | 14.22 | 11.17 | 15.48 | 12.62 | 16.71 | 14.05 | 17.93 | 15.45 | 19.11 | 16.82 | 20.28 | 18.17 | 21.42 | 19.49 | 22.54 |
| 1750             | 8.07  | 15.57 | 10.11 | 17.30 | 12.09 | 18.97 | 14.00 | 20.59 | 15.84 | 22.15 | 17.62 | 23.65 | 19.32 | 25.09 | 20.94 | 26.47 | 22.49 | 27.78 | 23.96 | 29.02 |
| 3500             | 4.78  | 20.81 | 6.77  | 22.53 | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   |
| 100              | 1.06  | 1.53  | 1.23  | 1.68  | 1.41  | 1.84  | 1.58  | 1.99  | 1.75  | 2.15  | 1.92  | 2.30  | 2.09  | 2.45  | 2.26  | 2.61  | 2.43  | 2.76  | 2.60  | 2.91  |
| 200              | 1.86  | 2.77  | 2.19  | 3.06  | 2.51  | 3.35  | 2.84  | 3.64  | 3.16  | 3.92  | 3.48  | 4.21  | 3.80  | 4.49  | 4.12  | 4.77  | 4.43  | 5.05  | 4.75  | 5.33  |
| 300              | 2.56  | 3.90  | 3.03  | 4.32  | 3.50  | 4.73  | 3.97  | 5.14  | 4.44  | 5.55  | 4.90  | 5.96  | 5.36  | 6.36  | 5.81  | 6.76  | 6.27  | 7.16  | 6.72  | 7.55  |
| 400              | 3.19  | 4.96  | 3.80  | 5.50  | 4.41  | 6.03  | 5.02  | 6.56  | 5.62  | 7.08  | 6.22  | 7.60  | 6.81  | 8.12  | 7.40  | 8.63  | 7.99  | 9.14  | 8.57  | 9.65  |
| 500              | 3.77  | 5.96  | 4.52  | 6.62  | 5.26  | 7.26  | 6.00  | 7.90  | 6.73  | 8.54  | 7.46  | 9.17  | 8.18  | 9.79  | 8.89  | 10.41 | 9.60  | 11.02 | 10.31 | 11.63 |
| 600              | 4.31  | 6.92  | 5.19  | 7.68  | 6.06  | 8.44  | 6.92  | 9.19  | 7.78  | 9.93  | 8.63  | 10.56 | 9.47  | 11.39 | 10.31 | 12.11 | 11.13 | 12.82 | 11.96 | 13.52 |
| 700              | 4.80  | 7.84  | 5.81  | 8.71  | 6.81  | 9.57  | 7.79  | 10.42 | 8.77  | 11.26 | 9.74  | 12.09 | 10.69 | 12.91 | 11.64 | 13.73 | 12.58 | 14.53 | 13.51 | 15.33 |
| 800              | 5.27  | 8.72  | 6.39  | 9.69  | 7.51  | 10.65 | 8.61  | 11.60 | 9.70  | 12.54 | 10.78 | 13.46 | 11.85 | 14.37 | 12.90 | 15.27 | 13.95 | 16.17 | 14.98 | 17.04 |
| 900              | 5.69  | 9.57  | 6.94  | 10.64 | 8.17  | 11.69 | 9.38  | 12.73 | 10.58 | 13.76 | 11.77 | 14.77 | 12.94 | 15.77 | 14.09 | 16.75 | 15.23 | 17.72 | 16.35 | 18.68 |
| 1000             | 6.09  | 10.38 | 7.45  | 11.55 | 8.79  | 12.69 | 10.11 | 13.82 | 11.41 | 14.94 | 12.69 | 16.03 | 13.96 | 17.11 | 15.20 | 18.17 | 16.43 | 19.21 | 17.63 | 20.23 |
| 1100             | 6.46  | 11.17 | 7.92  | 12.42 | 9.37  | 13.66 | 10.79 | 14.87 | 12.19 | 16.06 | 13.56 | 17.23 | 14.91 | 18.38 | 16.24 | 19.51 | 17.54 | 20.61 | 18.82 | 21.70 |
| 1200             | 6.79  | 11.92 | 8.36  | 13.26 | 9.90  | 14.58 | 11.42 | 15.87 | 12.91 | 17.14 | 14.37 | 18.38 | 15.80 | 19.59 | 17.20 | 20.78 | 18.57 | 21.94 | 19.91 | 23.08 |
| 1300             | 7.09  | 12.65 | 8.76  | 14.07 | 10.40 | 15.47 | 12.00 | 16.83 | 13.57 | 18.16 | 15.11 | 19.47 | 16.61 | 20.74 | 18.08 | 21.98 | 19.51 | 23.19 | 20.90 | 24.37 |
| 1400             | 7.36  | 13.35 | 9.13  | 14.85 | 10.85 | 16.31 | 12.53 | 17.74 | 14.18 | 19.14 | 15.78 | 20.50 | 17.35 | 21.82 | 18.87 | 23.11 | 20.35 | 24.36 | 21.78 | 25.58 |
| 1500             | 7.61  | 14.02 | 9.45  | 15.59 | 11.26 | 17.12 | 13.02 | 18.61 | 14.73 | 20.06 | 16.40 | 21.48 | 18.01 | 22.84 | 19.58 | 24.17 | 21.09 | 25.45 | 22.55 | 26.69 |
| 1600             | 7.82  | 14.66 | 9.75  | 16.30 | 11.62 | 17.89 | 13.45 | 19.44 | 15.22 | 20.94 | 16.94 | 22.39 | 18.60 | 23.79 | 20.19 | 25.15 | 21.73 | 26.45 | 23.21 | 27.70 |
| 1700             | 7.99  | 15.27 | 10.00 | 16.97 | 11.94 | 18.62 | 13.83 | 20.22 | 15.65 | 21.76 | 17.41 | 23.25 | 19.10 | 24.68 | 20.72 | 26.05 | 22.27 | 27.36 | 23.74 | 28.61 |
| 1800             | 8.14  | 15.85 | 10.21 | 17.61 | 12.22 | 19.31 | 14.15 | 20.95 | 16.02 | 22.53 | 17.81 | 24.04 | 19.52 | 25.49 | 21.14 | 26.86 | 22.69 | 28.17 | 24.15 | 29.41 |
| 1900             | 8.25  | 16.41 | 10.39 | 18.22 | 12.44 | 19.96 | 14.42 | 21.63 | 16.32 | 23.24 | 18.13 | 24.77 | 19.84 | 26.22 | 21.47 | 27.60 | 23.00 | 28.90 | 24.42 | 30.11 |
| 2000             | 8.33  | 16.93 | 10.52 | 18.79 | 12.62 | 20.57 | 14.63 | 22.27 | 16.55 | 23.89 | 18.37 | 25.43 | 20.08 | 26.88 | 21.69 | 28.25 | 23.18 | 29.52 | 24.56 | 30.69 |
| 2100             | 8.37  | 17.42 | 10.61 | 19.32 | 12.75 | 21.13 | 14.79 | 22.85 | 16.71 | 24.49 | 18.53 | 26.02 | 20.22 | 27.46 | 21.80 | 28.80 | 23.25 | 30.04 | 24.56 | 31.16 |
| 2200             | 8.38  | 17.89 | 10.56 | 19.82 | 12.82 | 21.65 | 14.88 | 23.39 | 16.80 | 25.02 | 18.60 | 26.55 | 20.27 | 27.96 | 21.80 | 29.27 | 23.18 | 30.45 | 24.41 | 31.51 |
| 2300             | 8.35  | 18.32 | 10.66 | 20.28 | 12.85 | 22.13 | 14.90 | 23.87 | 16.82 | 25.49 | 18.59 | 27.00 | 20.21 | 28.38 | 21.68 | 29.63 | 22.98 | 30.75 | ---   | ---   |
| 2400             | 8.28  | 18.72 | 10.62 | 20.70 | 12.81 | 22.56 | 14.86 | 24.29 | 16.76 | 25.90 | 18.49 | 27.38 | 20.05 | 28.71 | 21.44 | 29.90 | ---   | ---   | ---   | ---   |
| 2500             | 8.17  | 19.08 | 10.53 | 21.08 | 12.73 | 22.94 | 14.76 | 24.66 | 16.62 | 26.25 | 18.29 | 27.68 | 19.78 | 28.95 | 21.07 | 30.07 | ---   | ---   | ---   | ---   |
| 2600             | 8.03  | 19.42 | 10.39 | 21.42 | 12.58 | 25.27 | 14.25 | 24.98 | 16.39 | 23.52 | 18.00 | 27.90 | 19.40 | 29.11 | ---   | ---   | ---   | ---   | ---   | ---   |
| 2700             | 7.84  | 19.72 | 10.20 | 21.72 | 12.37 | 23.56 | 14.34 | 25.23 | 16.09 | 26.73 | 17.61 | 28.04 | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   |
| 2800             | 7.61  | 19.98 | 9.97  | 21.98 | 12.10 | 23.80 | 14.02 | 25.43 | 15.69 | 26.87 | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   |
| 2900             | 7.34  | 20.21 | 9.68  | 22.19 | 11.77 | 23.98 | 13.62 | 25.56 | 15.21 | 26.93 | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   |
| 3000             | 7.03  | 20.41 | 9.33  | 22.37 | 11.38 | 24.11 | 13.15 | 25.63 | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   |
| 3100             | 6.67  | 20.57 | 8.94  | 22.49 | 10.91 | 24.19 | 12.59 | 25.64 | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   |
| 3200             | 6.27  | 20.69 | 8.48  | 22.57 | 10.38 | 24.21 | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   |
| 3300             | 5.82  | 20.77 | 7.97  | 22.61 | 9.78  | 24.17 | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   |
| 3400             | 5.32  | 20.81 | 7.40  | 22.59 | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   |
| 3500             | 4.78  | 20.81 | 6.77  | 22.53 | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   |
| 3600             | 4.18  | 20.77 | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   |
| 3700             | 3.53  | 20.69 | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   |
| 3800             | 2.83  | 20.57 | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   |

Note: Shaded area indicates operation above 6500 FPM rim speed. Special sheave construction required.

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets

# SELECTION



**C S-L CLASSIC**

**CX CLASSIC COG**

## Basic Horsepower Ratings

| Faster Shaft RPM | Rated HP per Belt for Small Sheave Datum Dia. |       |       |       |       |       |       |       |       |       | Add'l HP/Belt for Speed Ratio of: |      |      |      |      |      |
|------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------------|------|------|------|------|------|
|                  | 11.0  |       | 12.0  |       | 13.0  |       | 14.0  |       | 16.0  |       | 1.03                              | 1.10 | 1.20 | 1.40 | 1.80 | 3.00 |
|                  | C   | CX    | C     | CX    | C     | CX    | C     | CX    | C     | CX    | 1.09                              | 1.19 | 1.39 | 1.79 | 2.99 | & up |
| 870              | 17.03   | 19.12 | 19.15 | 20.92 | 21.21 | 22.66 | 23.20 | 24.36 | 27.00 | 27.57 | 0.13                              | 0.37 | 0.59 | 0.82 | 0.97 | 1.05 |
| 1160             | 20.78   | 23.63 | 23.27 | 25.74 | 25.64 | 27.75 | 27.88 | 29.64 | 31.96 | 33.10 | 0.17                              | 0.49 | 0.79 | 1.09 | 1.30 | 1.40 |
| 1750             | 25.35   | 30.20 | 27.86 | 32.34 | 30.00 | 34.18 | ---   | ---   | ---   | ---   | 0.26                              | 0.74 | 1.19 | 1.65 | 1.96 | 2.11 |
| 3500             | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | 0.52                              | 1.47 | 2.37 | 3.30 | 3.92 | 4.22 |
| 100              | 2.76  | 3.06  | 3.10  | 3.35  | 3.43  | 3.65  | 3.75  | 3.94  | 4.40  | 4.51  | 0.01                              | 0.04 | 0.07 | 0.09 | 0.11 | 0.12 |
| 200              | 5.06  | 5.60  | 5.68  | 6.15  | 6.30  | 6.69  | 6.91  | 7.22  | 8.12  | 8.28  | 0.03                              | 0.08 | 0.14 | 0.19 | 0.22 | 0.24 |
| 300              | 7.17  | 7.94  | 8.06  | 8.72  | 8.95  | 9.49  | 9.82  | 10.25 | 11.55 | 11.74 | 0.04                              | 0.13 | 0.20 | 0.28 | 0.34 | 0.36 |
| 400              | 9.15  | 10.15 | 10.29 | 11.14 | 11.43 | 12.12 | 12.55 | 13.08 | 14.75 | 14.98 | 0.06                              | 0.17 | 0.27 | 0.38 | 0.45 | 0.48 |
| 500              | 11.01   | 12.23 | 12.39 | 13.43 | 13.76 | 14.60 | 15.11 | 15.75 | 17.75 | 18.01 | 0.07                              | 0.21 | 0.34 | 0.47 | 0.56 | 0.60 |
| 600              | 12.77   | 14.22 | 14.38 | 15.60 | 15.96 | 16.95 | 17.51 | 18.27 | 20.54 | 20.85 | 0.09                              | 0.25 | 0.41 | 0.57 | 0.67 | 0.72 |
| 700              | 14.43   | 16.11 | 16.24 | 17.66 | 18.02 | 19.17 | 19.76 | 20.65 | 23.12 | 23.51 | 0.10                              | 0.29 | 0.47 | 0.66 | 0.78 | 0.84 |
| 800              | 15.99   | 17.91 | 17.99 | 19.61 | 19.94 | 21.27 | 21.84 | 22.88 | 25.48 | 25.97 | 0.12                              | 0.34 | 0.54 | 0.75 | 0.90 | 0.97 |
| 900              | 17.46   | 19.62 | 19.62 | 21.46 | 21.73 | 23.24 | 23.76 | 24.96 | 27.62 | 28.23 | 0.13                              | 0.38 | 0.61 | 0.85 | 1.01 | 1.09 |
| 1000             | 18.82   | 21.24 | 21.13 | 23.20 | 23.36 | 25.08 | 25.50 | 26.89 | 29.50 | 30.28 | 0.15                              | 0.42 | 0.68 | 0.94 | 1.12 | 1.21 |
| 1100             | 20.08   | 22.76 | 22.51 | 24.82 | 24.83 | 26.79 | 27.05 | 28.66 | 31.12 | 32.11 | 0.16                              | 0.46 | 0.75 | 1.04 | 1.23 | 1.33 |
| 1200             | 21.22   | 24.19 | 23.75 | 26.33 | 26.15 | 28.35 | 28.40 | 30.26 | 32.47 | 33.71 | 0.18                              | 0.51 | 0.81 | 1.13 | 1.34 | 1.45 |
| 1300             | 22.26   | 25.52 | 24.85 | 27.72 | 27.28 | 29.77 | 29.54 | 31.69 | 33.51 | 35.06 | 0.19                              | 0.55 | 0.88 | 1.23 | 1.45 | 1.57 |
| 1400             | 23.17   | 26.75 | 25.80 | 28.98 | 28.24 | 31.04 | 30.46 | 32.93 | 34.24 | 36.16 | 0.21                              | 0.59 | 0.95 | 1.32 | 1.57 | 1.69 |
| 1500             | 23.96   | 27.88 | 26.60 | 30.11 | 29.00 | 32.15 | 31.15 | 33.98 | 34.63 | 36.98 | 0.22                              | 0.63 | 1.02 | 1.41 | 1.68 | 1.81 |
| 1600             | 24.62   | 28.89 | 27.23 | 31.11 | 29.56 | 33.09 | 31.59 | 34.83 | ---   | ---   | 0.24                              | 0.67 | 1.09 | 1.51 | 1.79 | 1.93 |
| 1700             | 25.14   | 29.79 | 27.69 | 31.97 | 29.91 | 33.86 | 31.77 | 35.47 | ---   | ---   | 0.25                              | 0.72 | 1.15 | 1.60 | 1.90 | 2.05 |
| 1800             | 25.52   | 30.58 | 27.98 | 32.67 | 30.04 | 34.45 | ---   | ---   | ---   | ---   | 0.27                              | 0.76 | 1.22 | 1.70 | 2.01 | 2.17 |
| 1900             | 25.75   | 31.24 | 28.07 | 33.23 | ---   | ---   | ---   | ---   | ---   | ---   | 0.28                              | 0.80 | 1.29 | 1.79 | 2.13 | 2.29 |
| 2000             | 25.82   | 31.77 | 27.97 | 33.63 | ---   | ---   | ---   | ---   | ---   | ---   | 0.30                              | 0.84 | 1.36 | 1.89 | 2.24 | 2.41 |
| 2100             | 25.74   | 32.18 | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | 0.31                              | 0.88 | 1.42 | 1.98 | 2.35 | 2.53 |
| 2200             | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | 0.33                              | 0.93 | 1.49 | 2.07 | 2.46 | 2.66 |
| 2300             | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | 0.34                              | 0.97 | 1.56 | 2.17 | 2.57 | 2.78 |
| 2400             | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | 0.36                              | 1.01 | 1.63 | 2.26 | 2.69 | 2.90 |
| 2500             | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | 0.37                              | 1.05 | 1.70 | 2.36 | 2.80 | 3.02 |
| 2600             | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | 0.39                              | 1.10 | 1.76 | 2.45 | 2.91 | 3.14 |
| 2700             | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | 0.40                              | 1.14 | 1.83 | 2.54 | 3.02 | 3.26 |
| 2800             | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | 0.42                              | 1.18 | 1.90 | 2.64 | 3.13 | 3.38 |
| 2900             | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | 0.43                              | 1.22 | 1.97 | 2.73 | 3.25 | 3.50 |
| 3000             | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | 0.45                              | 1.26 | 2.04 | 2.83 | 3.36 | 3.62 |
| 3100             | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | 0.46                              | 1.31 | 2.10 | 2.92 | 3.47 | 3.74 |
| 3200             | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | 0.48                              | 1.35 | 2.17 | 3.02 | 3.58 | 3.86 |
| 3300             | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | 0.49                              | 1.39 | 2.24 | 3.11 | 3.69 | 3.98 |
| 3400             | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | 0.51                              | 1.43 | 2.31 | 3.20 | 3.80 | 4.10 |
| 3500             | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | 0.52                              | 1.47 | 2.37 | 3.30 | 3.92 | 4.22 |
| 3600             | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | 0.54                              | 1.52 | 2.44 | 3.39 | 4.03 | 4.35 |
| 3700             | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | 0.55                              | 1.56 | 2.51 | 3.49 | 4.14 | 4.47 |
| 3800             | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | 0.57                              | 1.60 | 2.58 | 3.58 | 4.25 | 4.59 |

Note: Shaded area indicates operation above 6500 FPM rim speed. Special sheave construction required.

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

V-Drives  
FHP Drives  
Drive Component Accessories  
DYNA-SYNC  
HT200/HTD Synchronous Drives  
HT500 Synchronous Drives  
Roller Chain Sprockets



## SELECTION

**D S-L CLASSIC**

## Basic Horsepower Ratings

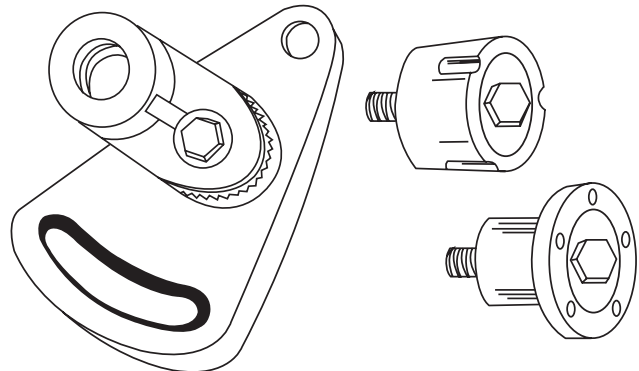
| Faster Shaft RPM | Rated HP per Belt for Small Sheave Datum Dia. |      |      |      |      |      |      |      |      |      |      | Additional HP/Belt for Speed Ratio of: |                |                |                |                |                |                |                |             |  |
|------------------|---|------|------|------|------|------|------|------|------|------|------|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------|--|
|                  | 12.0  | 13.0 | 13.5 | 14.0 | 14.5 | 15.0 | 15.5 | 16.0 | 18.0 | 20.0 | 22.0 | 1.02 thru 1.04                         | 1.05 thru 1.08 | 1.09 thru 1.12 | 1.13 thru 1.18 | 1.19 thru 1.24 | 1.25 thru 1.34 | 1.35 thru 1.51 | 1.52 thru 1.99 | 2.00 and Up |  |
| 700              | 19.3  | 22.7 | 24.3 | 25.9 | 27.6 | 29.2 | 30.7 | 32.3 | 38.4 | 44.1 | 49.5 | .26                                    | .60            | .98            | 1.29           | 1.65           | 1.91           | 2.20           | 2.48           | 2.75        |  |
| 870              | 22.2  | 26.1 | 28.0 | 29.9 | 31.7 | 33.5 | 35.3 | 37.1 | 43.8 | 50.0 | 55.5 | .32                                    | .75            | 1.22           | 1.61           | 2.05           | 2.37           | 2.74           | 3.09           | 3.42        |  |
| 1150             | 25.7  | 30.2 | 32.4 | 34.5 | 36.5 | 38.5 | 40.5 | 42.3 | 49.1 | 54.6 | 58.8 | .43                                    | 1.00           | 1.63           | 2.14           | 2.73           | 3.16           | 3.65           | 4.11           | 4.56        |  |
| 50               | 2.26  | 2.59 | 2.75 | 2.91 | 3.07 | 3.24 | 3.40 | 3.56 | 4.19 | 4.82 | 5.44 | .02                                    | .04            | .07            | .09            | .12            | .14            | .16            | .18            | .20         |  |
| 100              | 4.10  | 4.71 | 5.02 | 5.32 | 5.63 | 5.93 | 6.23 | 6.53 | 7.73 | 8.91 | 10.1 | .04                                    | .09            | .14            | .18            | .24            | .27            | .31            | .35            | .39         |  |
| 150              | 5.76  | 6.65 | 7.09 | 7.53 | 7.97 | 8.41 | 8.85 | 9.28 | 11.0 | 12.7 | 14.4 | .06                                    | .13            | .21            | .28            | .35            | .41            | .47            | .53            | .59         |  |
| 200              | 7.32  | 8.47 | 9.04 | 9.61 | 10.2 | 10.7 | 11.3 | 11.9 | 14.1 | 16.3 | 18.5 | .07                                    | .17            | .28            | .37            | .47            | .54            | .63            | .71            | .79         |  |
| 300              | 10.2  | 11.8 | 12.7 | 13.5 | 14.3 | 15.1 | 15.9 | 16.7 | 19.9 | 23.0 | 26.1 | .11                                    | .26            | .42            | .55            | .71            | .82            | .94            | 1.06           | 1.18        |  |
| 400              | 12.8  | 14.9 | 16.0 | 17.0 | 18.1 | 19.1 | 20.1 | 21.1 | 25.2 | 29.2 | 33.0 | .15                                    | .35            | .56            | .74            | .94            | 1.09           | 1.26           | 1.42           | 1.57        |  |
| 500              | 15.1  | 17.7 | 19.0 | 20.3 | 21.5 | 22.8 | 24.0 | 25.2 | 30.0 | 34.7 | 39.3 | .19                                    | .43            | .70            | .92            | 1.18           | 1.36           | 1.57           | 1.77           | 1.96        |  |
| 600              | 17.3  | 20.3 | 21.8 | 23.2 | 24.7 | 26.1 | 27.5 | 28.9 | 34.4 | 39.7 | 44.8 | .22                                    | .52            | .84            | 1.11           | 1.41           | 1.63           | 1.89           | 2.13           | 2.36        |  |
| 700              | 19.3  | 22.7 | 24.3 | 25.9 | 27.6 | 29.2 | 30.7 | 32.3 | 38.3 | 44.1 | 49.5 | .26                                    | .60            | .98            | 1.29           | 1.65           | 1.91           | 2.20           | 2.48           | 2.75        |  |
| 800              | 21.1  | 24.8 | 26.6 | 28.4 | 30.1 | 31.9 | 33.6 | 35.3 | 41.7 | 47.8 | 53.4 | .30                                    | .69            | 1.13           | 1.48           | 1.88           | 2.18           | 2.52           | 2.84           | 3.14        |  |
| 900              | 22.6  | 26.6 | 28.6 | 30.5 | 32.4 | 34.2 | 36.0 | 37.8 | 44.6 | 50.7 | 56.3 | .34                                    | .78            | 1.27           | 1.66           | 2.12           | 2.45           | 2.83           | 3.19           | 3.53        |  |
| 1000             | 24.0  | 28.2 | 30.3 | 32.3 | 34.3 | 36.2 | 38.1 | 39.9 | 46.8 | 52.9 | 58.2 | .37                                    | .86            | 1.41           | 1.85           | 2.35           | 2.72           | 3.15           | 3.55           | 3.93        |  |
| 1100             | 25.1  | 29.5 | 31.7 | 33.8 | 35.8 | 37.8 | 39.7 | 41.6 | 48.4 | 54.2 | 58.9 | .41                                    | .95            | 1.55           | 2.03           | 2.59           | 3.00           | 3.46           | 3.90           | 4.32        |  |
| 1200             | 26.0  | 30.6 | 32.8 | 34.9 | 36.9 | 38.9 | 40.9 | 42.7 | 49.3 | 54.6 | 58.5 | .45                                    | 1.04           | 1.69           | 2.21           | 2.82           | 3.27           | 3.78           | 4.26           | 4.71        |  |
| 1300             | 26.7  | 31.3 | 33.5 | 35.7 | 37.7 | 39.7 | 41.5 | 43.3 | 49.5 | 54.0 | 56.8 | .49                                    | 1.12           | 1.83           | 2.40           | 3.06           | 3.54           | 4.09           | 4.61           | 5.11        |  |
| 1400             | 27.0  | 31.7 | 33.9 | 36.0 | 38.0 | 39.9 | 41.7 | 43.4 | 48.9 | 52.4 | 53.6 | .52                                    | 1.21           | 1.97           | 2.58           | 3.29           | 3.81           | 4.41           | 4.97           | 5.50        |  |
| 1500             | 27.1  | 31.8 | 33.9 | 36.0 | 37.9 | 39.7 | 41.3 | 42.8 | 47.4 | 49.6 | 49.1 | .56                                    | 1.30           | 2.11           | 2.77           | 3.53           | 4.09           | 4.72           | 5.32           | 5.89        |  |
| 1600             | 27.0  | 31.5 | 33.6 | 35.5 | 37.3 | 38.9 | 40.3 | 41.6 | 45.1 | 45.6 | 42.9 | .60                                    | 1.38           | 2.25           | 2.95           | 3.76           | 4.36           | 5.04           | 5.68           | 6.28        |  |
| 1700             | 26.5  | 30.9 | 32.8 | 34.6 | 36.1 | 37.5 | 38.8 | 39.8 | 41.8 | 40.4 | 35.0 | .63                                    | 1.47           | 2.39           | 3.14           | 4.00           | 4.63           | 5.35           | 6.03           | 6.68        |  |
| 1800             | 25.7  | 29.8 | 31.6 | 33.1 | 34.5 | 35.6 | 36.5 | 37.2 | 37.6 | 33.8 | ---  | .67                                    | 1.55           | 2.53           | 3.32           | 4.23           | 4.90           | 5.67           | 6.38           | 7.07        |  |

Shaded areas indicate rim speed exceeding 6500 FPM which may require special sheaves

## IDLER

### Brackets and Bushings

- Double Adjustable Bracket for Maximum Flexibility
- Positive Ratchet Locking Between Base and Arm
- Idler Bushings in TAPER-LOCK and QD Style
- Use with Stock Products, such as: Sheaves, Roller Chain Sprockets, HTD Sprockets
- Compatible with Products Machined for:  
TAPER-LOCK 1610, 2012 and 2517 Bushings QD SK, SF and E Bushings
- Also, NEMA - Motor Bases Shaft Collars



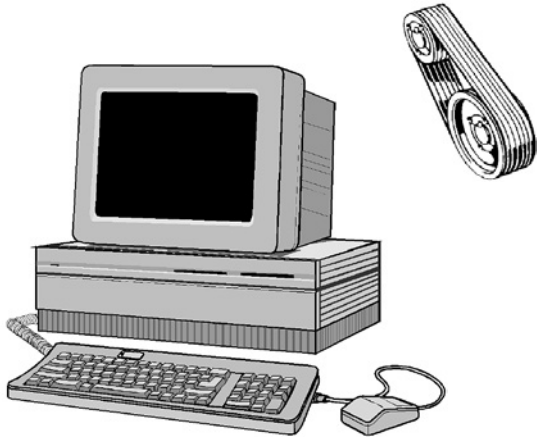
Refer to Related Products (page PT12-40) for complete data.

**NOTE:** Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).

# RELATED PRODUCTS



## Computer Drive Selection Program



For any given set of drive conditions, there are many different drives that will satisfy the requirements. What is a “best drive”? It could be the drive with lowest initial cost, or the drive with the lowest bearing load, or the drive which minimizes the number of parts required.

Finding the best drive is a time-consuming and frustrating task for the design engineer. Manual drive selection, pricing, and organizing of data for analysis can be a long, drawn-out process, prone to errors and oversights. VIA-VISA Software handles such problems with ease and displays drive selection alternatives in an organized format that makes analysis a simple process.

Here's what you get with VIA-VISA Software selection:

- Belt size, type, quantity, part number.
- Sheave sizes, part number.
- Bushing type, part number.
- Drive face width.
- Actual center distance.
- Installation force/deflection values for drive tensioning.
- Belt pull, dynamic shaft load for bearing and shafting calculations.
- Net price (if discount multipliers entered). Default to total list price.
- Belt speed in feet per minute.
- Calculated driven RPM
- Calculated actual service factor.

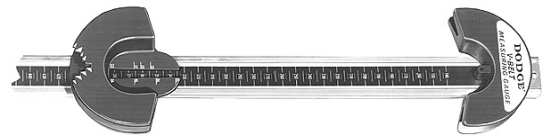
Ask your DODGE Sales Engineer for a demonstration and instruction on how you can obtain your personal VIA-VISA package.

### V-Drive Accessories

#### V-Belt Measuring Gage

This gage allows you to measure belts that may have lost their identification. This is easily done by slipping belt in “sheave” grooves and moving bottom sheave until belts is taut. Notched portion of bottom sheave indicates belt width. Belt length is then read opposite corresponding width on scale. Gage is made of aluminum and plastic – rust proof and durable.

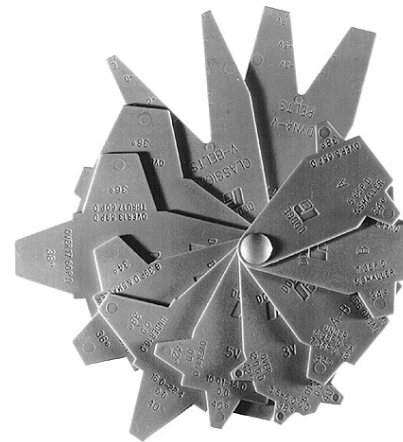
**Part No. 450966**  
Wt - 1 Lb.



#### V-Belt Groove and Belt Gage

When V-belt sections or sheave groove need to be identified this set of molded plastic gages can be the handiest thing in your tool box. Includes 8 gages for grooves and 2 for belts covering Classical A thru E, A/B Combination grooves and Narrow 3V, 5V and 8V. They are pinned together so that the individual gages will not become lost.

**Part No. 121294**  
Wt. - 0.12 Lb.



**NOTE:** Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).



## RELATED PRODUCTS

### V-Drive Accessories

#### V-Belt Tension Tester

This convenient tool facilitates easy checking of belt tension on drives having two or more belts. Scales are provided for reading both the required force and the distance of belt deflection which are used in properly tensioning belts. Force range is 0 - 35 lbs.



**Part No. 109082**  
Wt. - 0.5 Lb.

#### Precision Laser Alignment Device

Identifies common types of pulley misalignment.



**Part No. 109993**  
Wt. - 30 Lb

#### Double Barrel Tension Tester

Maximum deflection force: 66 lbs. For use with all multiple V-belts and large synchronous belts.



**Part No. 109991**  
Wt. - 0.5 Lb

#### Five Barrel Tension Tester

Maximum deflection force: 165 lbs. For use with multiple V-belts and large synchronous belts.



**Part No. 109992**  
Wt. - 1 Lb.

#### Sonic Tension Meter - Model 507C



The Sonic Tension Meter is an electronic device that measures the natural frequency of a free stationary belt span and instantly computes the static belt tensions based upon the belt span length, belt width, and belt type. The Sonic Tension Meter can accurately measure belt tensions for both synchronous and v-belts. Other features include:

- Output readings can be switched between pounds, kilograms, newtons and hertz
- Auto gain control automatically adjusts meter sensitivity
- Auto frequency range filters for background noise
- Frequency range from 10 - 5,000 Hz

Sonic Tension Meter - Model 507C  
(Comes with meter) **Part No. 109994** Wt. - 1.0 Lb.

★ Flexible Sensor **Part No. 109995** Wt. - 0.2 Lb.

Cord Sensor **Part No. 109996** Wt. - 0.2 Lb.

★ Inductive Sensor (magnets included) **Part No. 109997** Wt. - 0.2 Lb.

★ Optional accessories

**NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).**



## INSTALLING/TENSIONING V-DRIVES INSTALLING A DRIVE

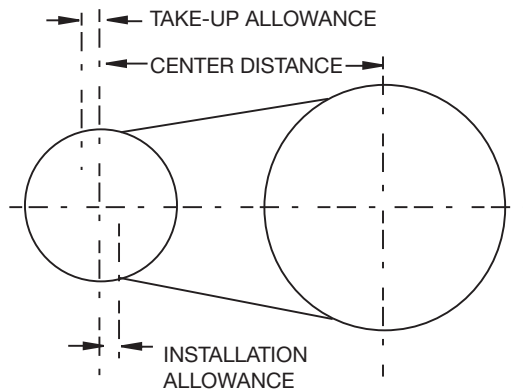
**Check Condition of Sheaves**—Before a new set of V-belts are installed, check the condition of the sheaves. Dirty or rusty sheaves impair the drive’s efficiency and abrade the belts, which result in premature failure.

Worn sheaves shorten belt life as much as 50%. If the grooves are worn to where the belt bottoms, slippage may result and burn the belts. If the sidewalls are “dished out,” the bottom shoulder ruins the belts prematurely by wearing off the bottom corners.

**Check Sheave Alignment**—Sheave adjustment should be checked by placing a straight edge or tight cord across the sheave faces so that it touches all four points of contact. Ordinarily, a misalignment of more than one-half of one degree (one-eighth inch in one foot) will adversely affect belt life. Improper sheave alignment produces uneven wear on one side of the belt, causes the belt to roll over in the sheaves or throws all the load on one side of the belt, stretching or breaking the cords on that side.

### INSTALLATION AND TAKE-UP ALLOWANCES

After calculating a center distance from a standard pitch length,



make provision for adjusting the center distance as in sketch below, to allow for installation of the belts without injury, for tensioning, and for maintenance of proper tension throughout the life of the belt. (Refer to Tables 11 or 12 for values).

**Placing Belts on Sheaves**—Shorten the center distance of the drive until the belts can be put on the sheaves without forcing. Forcing the belts can cause internal injury to the belts.

**Belt Selection**—For maximum service, replace V-belt drives with a complete new matched set of belts or use the new Matchmaker belts.

Never employ a used belt as a replacement for a unit of a set. Used belts, normally, are worn in cross-section and stretched. A new belt so applied will ride higher in the sheave, travel faster and operate at a much higher tension than the used belts. The cord center may be ruptured, allowing the new belt to elongate. Shortly after this occurs it will cease to accept its full share of the load, leaving the drive under-belted. Thus, the new belt is wasted. Belts of different manufacturers should not be mixed for the same reasons.

**Table 11 - Center Distance Allowance for Narrow Belt Installation and Take-Up**

| Nom. Belt Lgth. in Inches | Min. Installation Allowance (in inches) (Below Center) |              |           |              |           |              | Min. Take-up Allowance (Above Center) |
|---------------------------|--|--------------|-----------|--------------|-----------|--------------|---------------------------------------|
|                           | 3V Dyna-V  | 3V Poly-band | 5V Dyna-V | 5V Poly-band | 8V Dyna-V | 8V Poly-band |                                       |
| Up to & incl. 47.5        | .05  | 1.2          | ...       | ...          | ...       | ...          | 1.0"                                  |
| 50-71                     | 0.8  | 1.4          | 1.0       | 2.1          | ...       | ...          | 1.2                                   |
| 75-106                    | 0.8  | 1.4          | 1.0       | 2.1          | 1.5       | 3.4          | 1.5                                   |
| 112-125                   | 0.8  | 1.4          | 1.0       | 2.1          | 1.5       | 3.4          | 1.8                                   |
| 132-170                   | 0.8  | 1.4          | 1.0       | 2.1          | 1.5       | 3.4          | 2.2                                   |
| 180-200                   | ...  | ...          | 1.0       | 2.1          | 1.8       | 3.6          | 2.5                                   |
| 212-236                   | ...  | ...          | 1.2       | 2.4          | 1.8       | 3.6          | 3.0                                   |
| 250 & 265                 | ...  | ...          | 1.2       | 2.4          | 1.8       | 3.6          | 3.2                                   |
| 280 & 300                 | ...  | ...          | 1.2       | 2.4          | 1.8       | 3.6          | 3.5                                   |
| 315-355                   | ...  | ...          | 1.2       | 2.4          | 2.0       | 4.0          | 4.0                                   |
| 375                       | ...  | ...          | ...       | ...          | 2.0       | 4.0          | 4.5                                   |
| 400-560                   | ...  | ...          | ...       | ...          | 2.0       | 4.0          | 5.5                                   |

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).





## INSTALLING/TENSIONING V-DRIVES

**Table 12 - Center Distance Allowance for Classical Belt Installation and Take-Up**

| Nom. Belt Lgth. in Inches | Min. Installation Allowance (in inches) (Below Center) |      |             |      |             |      |             | Min. Take-up Allowance (Above Center) |
|---------------------------|--|------|-------------|------|-------------|------|-------------|---------------------------------------|
|                           | A  | B    | B Poly-band | C    | C Poly-band | D    | D Poly-band |                                       |
| 26-37                     | 0.75   | 1.00 | 1.50        | 1.50 | ...         | ...  | ...         | 1.00"                                 |
| 38-59                     | 0.75   | 1.00 | 1.50        | 1.50 | 2.00        | ...  | ...         | 1.50                                  |
| 60-89                     | 0.75   | 1.25 | 1.61        | 1.50 | 2.00        | ...  | ...         | 2.00                                  |
| 90-119                    | 1.00   | 1.25 | 1.61        | 1.50 | 2.00        | ...  | ...         | 2.50                                  |
| 120-157                   | 1.00   | 1.25 | 1.81        | 1.50 | 2.11        | 2.0  | 2.00        | 3.00                                  |
| 158-194                   | ...  | 1.25 | 1.81        | 2.00 | 2.20        | 2.00 | 3.00        | 3.50                                  |
| 195-239                   | ...  | 1.50 | 1.81        | 2.00 | 2.31        | 2.00 | 3.20        | 4.00                                  |
| 240-269                   | ...  | 1.50 | 2.00        | 2.00 | 2.50        | 2.50 | 3.20        | 4.50                                  |
| 270-329                   | ...  | 1.50 | 2.20        | 2.00 | 2.50        | 2.50 | 3.50        | 5.00                                  |
| 330-419                   | ...  | ...  | ...         | 2.00 | 2.70        | 2.50 | 3.60        | 6.00                                  |
| 420 & Over                | ...  | ...  | ...         | 2.50 | 2.90        | 3.00 | 4.10        | 1-1/2% of belt lgth.                  |

### TENSIONING A DRIVE

#### General Rules of Tensioning-

1. Ideal tension is the lowest tension at which the belt will not slip under peak load conditions.
2. Check tension frequently during the first 24-48 hours of run-in operation.
3. Over tensioning shortens belt and bearing life.
4. Keep belts free from foreign material which may cause slip.
5. Make V-Drive inspection on a periodic basis. Tension when slipping. Never apply belt dressing as this will damage the belt and cause early failure.

#### SIMPLE TENSIONING PROCEDURE

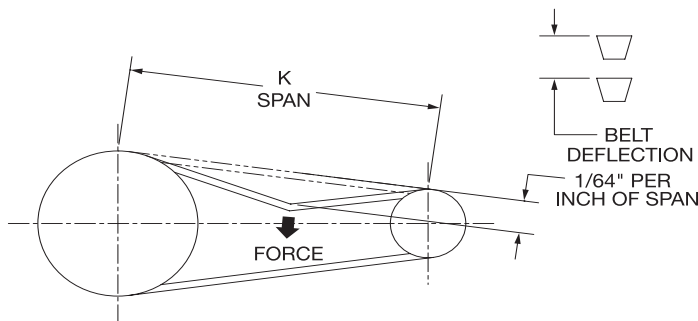
1. Measure the span length, K.
2. At the center of the span (K) apply a force (perpendicular to the span) large enough to deflect the 1/64, for every inch of span length. For example, one deflection of a 100 inch span would be 100/64 or 1-9/16 inches.

3. Compare the force you have applied with the values given in Tables 13 or 14. If the force is between the values for normal tension, and 1-1/2 times normal tension, the drive tension should be satisfactory. A force below the value for normal tension indicates an under-tensioned drive. If the force exceeds the value for 1-1/2 times normal tension, the drive is tighter than it needs to be.

**For V-Belt Tension Testers, See Page PT7-142.**

After the proper operating tension has been applied to the belts, a double-check should be made of the following:

- a. Parallel position of the sheave shafts.
- b. Correct alignment of sheave grooves.



**NOTE:** Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).





## INSTALLING/TENSIONING V-DRIVES

**Table 13 - Belt Deflection Force (Check Factory For Conditions Not Covered In This Table)**

| V-Belt Section          | Small Sheave |          | Deflection Force In Lbs. For Drive Speed Ratio of: |      |      |       |
|-------------------------|--------------|----------|--|------|------|-------|
|                         | Speed Range  | Diameter | 1.0  | 1.5  | 2.0  | 4.0 + |
| <b>A</b><br><b>(AP)</b> | 1800-3600    | 3.0      | 2.0  | 2.3  | 2.4  | 2.6   |
|                         | 1800-3600    | 4.0      | 2.6  | 2.8  | 3.0  | 3.3   |
|                         | 1800-3600    | 5.0      | 3.0  | 3.3  | 3.4  | 3.7   |
|                         | 1800-3600    | 7.0      | 3.5  | 3.7  | 3.8  | 4.3   |
| <b>B</b><br><b>(BP)</b> | 1200-1800    | 4.6      | 3.7  | 4.3  | 4.5  | 5.0   |
|                         | 1200-1800    | 5.0      | 4.1  | 4.6  | 4.8  | 5.6   |
|                         | 1200-1800    | 6.0      | 4.8  | 5.3  | 5.5  | 6.3   |
| <b>C</b><br><b>(CP)</b> | 1200-1800    | 8.0      | 5.7  | 6.2  | 6.4  | 7.2   |
|                         | 900-1800     | 7.0      | 6.5  | 7.0  | 8.0  | 9.0   |
|                         | 900-1800     | 9.0      | 8.0  | 9.0  | 10.0 | 11.0  |
|                         | 900-1800     | 12.0     | 10.0   | 11.0 | 12.0 | 13.0  |
| <b>D</b><br><b>(DP)</b> | 700-1500     | 16.0     | 12.0   | 13.0 | 13.0 | 14.0  |
|                         | 900-1500     | 12.0     | 13.0   | 15.0 | 16.0 | 17.0  |
|                         | 900-1500     | 15.0     | 16.0   | 18.0 | 19.0 | 21.0  |
|                         | 700-1200     | 18.0     | 19.0   | 21.0 | 22.0 | 24.0  |
| <b>AX</b>               | 700-1200     | 22.0     | 22.0   | 23.0 | 24.0 | 26.0  |
|                         | 1800-3600    | 3.0      | 2.5  | 2.8  | 3.0  | 3.3   |
|                         | 1800-3600    | 4.0      | 3.3  | 3.6  | 3.8  | 4.2   |
|                         | 1800-3600    | 5.0      | 3.7  | 4.1  | 4.3  | 4.6   |
| <b>BX</b>               | 1800-3600    | 7.0      | 4.3  | 4.6  | 4.8  | 5.3   |
|                         | 1200-1800    | 4.6      | 5.2  | 5.8  | 6.0  | 6.9   |
|                         | 1200-1800    | 5.0      | 5.4  | 6.0  | 6.3  | 7.1   |
|                         | 1200-1800    | 6.0      | 6.0  | 6.4  | 6.7  | 7.7   |
| <b>CX</b>               | 1200-1800    | 8.0      | 6.6  | 7.1  | 7.5  | 8.2   |
|                         | 900-1800     | 7.0      | 10.0   | 11.0 | 12.0 | 13.0  |
|                         | 900-1800     | 9.0      | 11.0   | 12.0 | 13.0 | 14.0  |
|                         | 900-1800     | 12.0     | 12.0   | 13.0 | 13.0 | 14.0  |
| <b>DX</b>               | 700-1500     | 16.0     | 13.0   | 14.0 | 14.0 | 15.0  |
|                         | 900-1500     | 12.0     | 16.0   | 18.0 | 19.0 | 20.0  |
|                         | 900-1500     | 15.0     | 19.0   | 21.0 | 22.0 | 24.0  |
|                         | 700-1200     | 18.0     | 22.0   | 24.0 | 25.0 | 27.0  |
| 700-1200                | 22.0         | 25.0     | 27.0   | 28.0 | 30.0 |       |

| V-Belt Section | Small Sheave |          | Deflection Force in Lbs. for Drive Speed Ratio of: |      |      |      |
|----------------|--------------|----------|--|------|------|------|
|                | Speed Range  | Diameter | 1.0  | 1.5  | 2.0  | 4.0+ |
| 3VX            | 1200-3600    | 2.2      | 2.2  | 2.5  | 2.7  | 3.0  |
|                | 1200-3600    | 2.5      | 2.6  | 2.9  | 3.1  | 3.6  |
|                | 1200-3600    | 3.0      | 3.1  | 3.5  | 3.7  | 4.2  |
|                | 1200-3600    | 4.1      | 3.9  | 4.3  | 4.5  | 5.1  |
|                | 1200-3600    | 5.3      | 4.6  | 4.9  | 5.1  | 5.7  |
|                | 1200-3600    | 6.9      | 5.0  | 5.4  | 5.6  | 6.2  |
| 5VX            | 1200-3600    | 4.4      | 6.5  | 7.5  | 8.0  | 9.0  |
|                | 1200-3600    | 5.2      | 8.0  | 9.0  | 9.5  | 10.0 |
|                | 1200-3600    | 6.3      | 9.5  | 10.0 | 11.0 | 12.0 |
|                | 1200-3600    | 7.1      | 10.0   | 11.0 | 12.0 | 13.0 |
|                | 900-1800     | 9.0      | 12.0   | 13.0 | 14.0 | 15.0 |
|                | 900-1800     | 14       | 14.0   | 15.0 | 16.0 | 17.0 |
| 8VX            | 900-1800     | 12.5     | 18.0   | 21.0 | 23.0 | 25.0 |
|                | 900-1800     | 14.0     | 21.0   | 23.0 | 24.0 | 28.0 |
|                | 700-1500     | 17.0     | 24.0   | 26.0 | 28.0 | 30.0 |
|                | 700-1500     | 21.2     | 28.0   | 30.0 | 32.0 | 34.0 |
|                | 400-1000     | 24.8     | 31.0   | 32.0 | 34.0 | 36.0 |
| 5V             | 900-1800     | 7.1      | 8.5  | 9.5  | 10.0 | 11.0 |
|                | 900-1800     | 9.0      | 10.0   | 11.0 | 12.0 | 13.0 |
|                | 900-1800     | 14       | 12.0   | 13.0 | 14.0 | 15.0 |
|                | 700-1200     | 21.2     | 14.0   | 15.0 | 16.0 | 17.0 |
| 8V             | 900-1800     | 12.5     | 18.0   | 21.0 | 23.0 | 25.0 |
|                | 900-1800     | 14.0     | 21.0   | 23.0 | 24.0 | 28.0 |
|                | 700-1500     | 17.0     | 24.0   | 26.0 | 28.0 | 30.0 |
|                | 700-1200     | 21.2     | 28.0   | 30.0 | 32.0 | 34.0 |
| 400-1000       | 24.8         | 31.0     | 32.0   | 32.0 | 36.0 |      |

**Notes:** 1. Use approximately 130% of above values to tension a new set of belts  
 2. Use closest sheave diameter for sizes not shown.

**NOTE:** Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).



# TECHNICAL

## INSTALLING/TENSIONING V-DRIVES

**Table 14 - POLYBAND Plus Belt Deflection Force (Lbs.)**  
(Force is pounds for one belt only)

| Cross Section | Small Sheave Diameter Range | RPM Range | Belt Deflection Force* |          |
|---------------|-----------------------------|-----------|------------------------|----------|
|               |                             |           | Normal                 | New Belt |
| 5VF           | 7.1-10.9                    | 200-700   | 21.1                   | 30.9     |
|               |                             | 701-1250  | 18.0                   | 26.3     |
|               |                             | 1251-1900 | 16.7                   | 23.4     |
|               |                             | 1901-3000 | 15.8                   | 23.0     |
| 5VF           | 11.8-16.0                   | 200-700   | 26.8                   | 39.5     |
|               |                             | 701-1250  | 23.5                   | 34.7     |
|               |                             | 1251-2100 | 22.7                   | 33.3     |
| 8VF           | 12.5-20.0                   | 200-500   | 44.7                   | 65.8     |
|               |                             | 501-850   | 38.5                   | 56.6     |
|               |                             | 851-1150  | 35.2                   | 51.6     |
| 8VF           | 21.2-25.0                   | 1151-1650 | 33.5                   | 49.0     |
|               |                             | 200-500   | 65.9                   | 97.6     |
|               |                             | 501-850   | 61.2                   | 90.6     |
|               |                             | 851-1200  | 57.0                   | 84.3     |

\* Multiply the force required for one belt by the number of belts in the Polyband Plus unit to get total force to apply.  
 Example: New 8VF drive with a small sheave dia. equal to 20".  
 The rpm of the sheave is 1000.  
 The belt to be installed is 8/8VF4000.  
 Total deflection force = table value x 8 = 51.6 x 8 = 413 lbs.

### Belt Pull and Bearing Loads

**Belt Pull Calculations**—The following method of calculating belt pull is found to be the most convenient and accurate for drives operating at design loads and tensions:

$$T1 + T2 = 33,000 (2.5-G) \left( \frac{HP}{GV} \right)$$

WHERE:

T1 = Tight side tension, pounds

T2 = Slack side tension, pounds

HP = Design horsepower

V = Belt speed, feet per minute = (PD) (RPM) (.262)

G = Arc of contact correction factor

| D-d | Arc of Contact | Factor G | D-d  | Arc of Contact | Factor G |
|-----|----------------|----------|------|----------------|----------|
| C   |                |          | C    |                |          |
| .00 | 180°           | 1.00     | .80  | 133°           | .87      |
| .10 | 174°           | .99      | .90  | 127°           | .85      |
| .20 | 169°           | .97      | 1.00 | 120°           | .82      |
| .30 | 163°           | .96      | 1.10 | 113°           | .80      |
| .40 | 157°           | .94      | 1.20 | 106°           | .77      |
| .50 | 151°           | .93      | 1.30 | 99°            | .73      |
| .60 | 145°           | .91      | 1.40 | 91°            | .70      |
| .70 | 139°           | .89      | 1.50 | 83°            | .65      |

Arc of contact is on small sheave

D = Diam. of large sheave

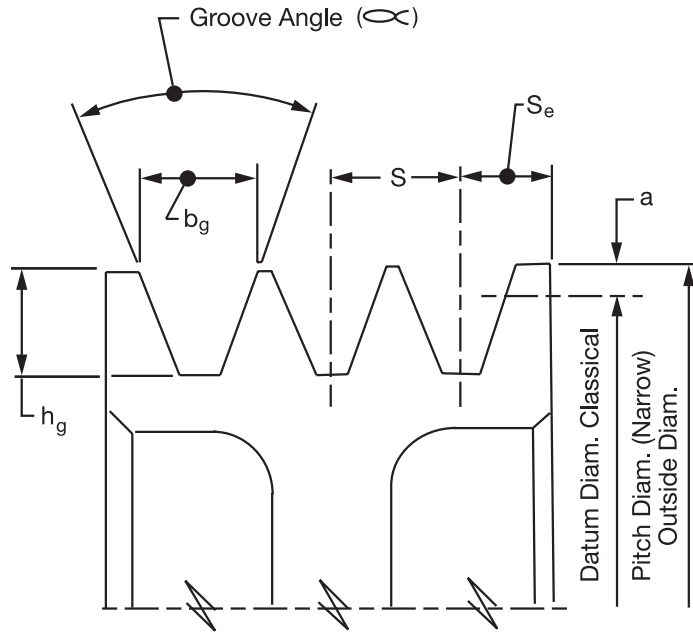
d = Dia. of small sheave

C = Center distance

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).



# V-Belt Sheave Groove Dimensions



## Narrow

| Belt Section | Outside Diameter Range | $\alpha$<br>$\pm 0.25$ | $b_g$<br>$\pm .005$ | $h_g$<br>Min. | $a$   | $S$<br>$\pm .015$ | $S_e$ |                  |
|--------------|------------------------|------------------------|---------------------|---------------|-------|-------------------|-------|------------------|
| 3VX, 3V      | LESS THAN 3.50         | 36°                    |                     |               |       |                   | 0.344 | +0.094<br>-0.000 |
|              | 3.50 TO 6.00           | 38°                    |                     |               |       |                   |       |                  |
|              | 6.01 to 12.00          | 40°                    | .350                | 0.340         | 0.025 | 0.406             |       |                  |
|              | Over 12.00             | 42°                    |                     |               |       |                   |       |                  |
| 5VX, 5V      | Less than 10.00        | 38°                    |                     |               |       |                   | 0.500 | +0.125<br>-0.000 |
|              | 10.00 to 16.00         | 40°                    | .600                | 0.590         | .050  | 0.688             |       |                  |
|              | Over 16.00             | 42°                    |                     |               |       |                   |       |                  |
| 8VX, 8V      | Less than 16.00        | 38°                    |                     |               |       |                   | 0.750 | +0.250<br>-0.000 |
|              | 16.00 to 22.40         | 40°                    | 1.000               | 0.990         | .100  | 1.125             |       |                  |
|              | Over 22.40             | 42°                    |                     |               |       |                   |       |                  |

## Classical

| Belt Section   | Pitch Diameter |              | $m$<br>$+ 0.33$ | $b_g$ |              | $h_g$<br>Min. | 2a ref<br>*                    | $S$<br>$\pm .025$ | $S_e$ |                  |
|----------------|----------------|--------------|-----------------|-------|--------------|---------------|--------------------------------|-------------------|-------|------------------|
|                | Min. Recom.    | Range        |                 |       |              |               |                                |                   |       |                  |
| AX, A          | 3.0            | 2.6 to 5.4   | 34°             | .494  | } $\pm .005$ | .460          | .125                           | .625              | .375  | +0.090<br>-0.062 |
|                |                | Over 5.4     | 38°             | .504  |              |               |                                |                   |       |                  |
| BX, B          | 5.4            | 4.6 to 7.0   | 34°             | .637  | } $\pm .006$ | .550          | .175                           | .750              | .500  | +0.120<br>-0.065 |
|                |                | Over 7.0     | 38°             | .650  |              |               |                                |                   |       |                  |
| A, B<br>AX, BX | -              | To 7.0       | 34°             | .612  | } $\pm .006$ | .612          | A (.634/.602)<br>B (.333/.334) | .750              | .500  | +0.120<br>-0.065 |
|                |                | Over 7.0     | 38°             | .625  |              |               |                                |                   |       |                  |
| CX, C          | 9.0            | 7.0 to 7.99  | 34°             | .879  | } $\pm .007$ | .750          | .200                           | 1.000             | .688  | +0.160<br>-0.070 |
|                |                | 8.0 to 12.0  | 36°             | .887  |              |               |                                |                   |       |                  |
|                |                | Over 12.0    | 38°             | .895  |              |               |                                |                   |       |                  |
| DX, D          | 13.0           | 12.0 to 12.9 | 34°             | 1.259 | } $\pm .008$ | 1.020         | .300                           | 1.438             | .875  | +0.220<br>-0.080 |
|                |                | 13.0 to 17.0 | 36°             | 1.271 |              |               |                                |                   |       |                  |
|                |                | Over 17.0    | 38°             | 1.283 |              |               |                                |                   |       |                  |
| E              | 21.0           | 18.0 to 24.0 | 36°             | 1.527 | } $\pm .010$ | 1.300         | .400                           | 1.750             | 1.125 | +0.250<br>-0.000 |
|                |                | Over 24.0    | 38°             | 1.542 |              |               |                                |                   |       |                  |

Note—For complete manufacturing tolerances – see RMA, MPTA, Narrow/Classical V-belt Standards.


\* Datum diameter, not pitch diameter.

NOTE: Selection program VIA-VISA available at [www.ptwizard.com](http://www.ptwizard.com).



# ENGINEERING/TECHNICAL

## More Power and Life From V-Drives

| Trouble Area And Observation  | Cause   | Remedy   |
|---|---|--|
| <p><b>Belt Stretch Beyond Take-Up</b><br/>Belt stretch unequally.</p> <p>All belts stretch about equally.</p>   | <p>Mis-aligned drive, unequal work done by belts.</p> <p>Belt tensile member broken from improper installation. Insufficient take-up allowance.</p> <p>Greatly overloaded or underdesigned drive.</p>   | <p>Realign and re-tension drive.</p> <p>Replace all belts with new matched set properly installed.<br/>Check take-up and follow allowance on page .</p> <p>Redesign.</p>   |
| <p><b>Short Belt Life</b><br/>Relatively rapid failure; no visible reason.</p> <p>Sidewalls soft and sticky. Low adhesion between cover plies. Cross-section swollen.</p> <p>Sidewalls dry and hard. Low adhesion between cover plies. Bottom belt cracked.</p> | <p>Tensile members damaged through improper installation. Worn sheave grooves (check with groove gauge)</p> <p>Under-designed drive.</p> <p>Oil or grease on belts or sheaves.</p> <p>High temperatures.</p>  | <p>Replace with all new matched set, properly installed.</p> <p>Replace sheaves.</p> <p>Redesign.</p> <p>Remove source of oil or grease. Clean belts and grooves with cloth moistened with alcohol.</p> <p>Remove source of heat. Ventilate drive better.</p>  |
| <p><b>BELT TURN OVER</b></p>    | <p>Excess lateral belt whip.<br/>Foreign material in grooves.<br/>Mis-aligned sheaves.<br/>Worn sheave grooves (check with groove gauge).</p> <p>Tensile member broken through improper installation.<br/>Incorrectly placed flat idler pulley.</p>   | <p>Use Banded belt.<br/>Remove material—shield drive.<br/>Realign the drive.<br/>Replace sheave.</p> <p>Replace with new matched set properly installed.</p> <p>Carefully align flat idler on slack side of drive as close as possible to driver sheave.</p>   |
| <p><b>DETERIORATION OF RUBBER COMPOUNDS USED IN BELT</b></p> <p>Extreme cover wear.<br/>Spin burns on belt.<br/>Bottom of belt cracked.<br/>Broken belts.</p>   | <p>Belt dressing.</p> <p>Belts rub against belt guard or other obstruction.</p> <p>Belts slip under starting or stalling load.</p> <p>Too small sheaves.<br/>Object falling into or hitting drive.</p>  | <p>Never use dressing on V-belts. Clean with cloth moistened with alcohol.<br/>Tension drive properly to prevent slip.</p> <p>Remove obstruction or align drive to give needed clearance.<br/>Tighten drive until slipping stops.</p> <p>Redesign for larger sheaves.<br/>Replace with new matched set of belts.<br/>Provide shield for drive.</p> |
| <p><b>IMPROPER DRIVEN SPEED</b><br/>Incorrect driveR-driveN ratio.<br/>Spin burns on belt.</p>  | <p>Design error.</p> <p>Belt slip.</p>  | <p>Use correct sheave sizes.</p> <p>Re-tension drive until belt stops slipping.</p>  |
| <p><b>BELT NOISE<br/>HOT BEARINGS</b></p>   | <p>Belt slip.</p>   | <p>Re-tension drive until it stops slipping.</p>   |
| <p>Drive over-tensioned.<br/>Sheaves too small.<br/>Poor bearing condition.<br/>Sheaves out too far on shaft.<br/>Drive under-tensioned.</p>  | <p>Worn grooves-belts bottoming and will not transmit power until over-tensioned.<br/>Improper tensioning.<br/>Motor manufacturers sheave diameters not followed.</p> <p>Underdesigned bearing or poor bearing maintenance.</p> <p>Error or obstruction problem.</p> <p>Belts slipping and causing heat build-up.</p> | <p>Replace sheaves. Tension drive properly.</p> <p>Re-tension drive.<br/>Redesign drive.</p> <p>Observe recommended bearing design and maintenance.<br/>Place sheaves as close as possible to bearings.<br/>Remove any obstruction preventing this.</p> <p>Re-tension drive.</p>   |

**NOTE: Selection program VIAVISA available at [www.ptwizard.com](http://www.ptwizard.com).**



# CONTENTS

## FHP Drives

### Features / Benefits

|                                 |       |
|---------------------------------|-------|
| Fixed Pitch Drives . . . . .    | PT8-2 |
| Variable Pitch Drives . . . . . | PT8-2 |

### Selection/Dimensions

|   |       |
|---|-------|
| Light Duty Fixed Bore Sheaves . . . . . | PT8-3 |
| Bushed FHP Sheave . . . . .             | PT8-7 |
| Adjustable Pitch VP Sheave . . . . .    | PT8-9 |

### Selection

|                                  |          |
|----------------------------------|----------|
| Fixed Pitch FHP Drives . . . . . | PT8-10   |
| Variable Pitch Drives . . . . .  | PT8-15   |
| Part Number Index . . . . .      | INDEX-1  |
| Keyword Index . . . . .          | INDEX-43 |



# FEATURES/BENEFITS

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets

## FHP Light Duty V-Drives

### The Economical Option For Smaller Drives

- Fractional thru 10 HP at 1750 RPM
- One or Two Groove
- Fixed Pitched or Variable Pitch
- Use Standard Belts FHP: 3L-4L-5L SL Classic: A or B Section Classic Cog: AX or BX



- Sizes AKQT, 2AKQT, BKQT, 2BKQT
- Durable Cast Iron Construction
- Industry Standard H-Style Bushing
- Interchangeable with QT and D Bushing
- Secure Clamp Fit to Shaft
- Bore Range 3/8 to 1-1/2"
- Integral Key Bushing Available in Select Bores
- Inch and Metric Bores
- Static Balance
- Suitable for Higher Capacity AX or BX Classic Cog Belts

### Variable Pitch Sheaves

- One and Two Grooves
- Selections Available up to 30HP, 1750 RPM
- Durable Cast Iron Construction
- Static Balance
- Driven Sheave Options: FHP Bored-to-Size, FHP QT-Bushed, Taper-Lock Dual Duty, QD Combination Duty

- Belt Options Include FHP, Classical
- Adjustment Range 1.3:1 (Approx.)
- Positive Locking of Adjustment Setting
- New Easy Selection Procedure
- Applications Include: Conveyors, Pumps, Fans, Mixers, Ventilators, etc.

### QT-Bushed Sheave



### Finish Bore Sheaves

- Sizes AK, 2AK, BK, 2BK
- Bored-to-Size
- Keyway and Setscrew
- Durable Cast Iron Construction
- Static Balance
- Stocked in Popular Sizes
- Not Recommended for Classic Cog Belts

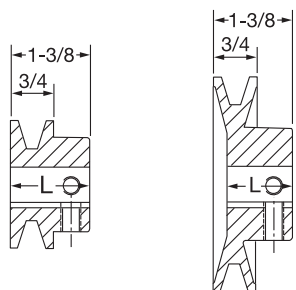
**NOTE:** Selection tools available online at [www.dodge-pt.com](http://www.dodge-pt.com)



## SELECTION/DIMENSIONS

### LIGHT DUTY FIXED BORE SHEAVES

#### AK (A & 3L - 4L V-BELTS)



TYPE 1

TYPE 2

A = Arms

B = Block

W = Web



- Finished Bore
- Keyway and (2) Setscrew
- Cast Iron, max speed 6500 FPM

| Shaft Dia.      | Keyseat     |
|-----------------|-------------|
| 1/2             | none        |
| 5/8 - 7/8"      | 3/16 X 3/32 |
| 15/16 - 1-1/4"  | 1/4 X 1/8   |
| 1-5/16 - 1-3/8" | 5/16 X 5/32 |
| 1-7/16"         | 3/8 X 3/16  |

### 1 GROOVE

| O.D.  | Datum Dia. |       | SHV NO        | Type | L    | Bore/Part Number |        |        |        |        |        |        |        |        |        | Approx Wgt |        |
|-------|------------|-------|---------------|------|------|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------|--------|
|       | 3L (O)     | 4L(A) |               |      |      | 1/2              | 5/8    | 3/4    | 7/8    | 15/16  | 1      | 1-1/8  | 1-3/16 | 1-1/4  | 1-3/8  |            | 1-7/16 |
| 1.55  | ---        | 1.30  | AK15 / MA15   | 1B   | 1.25 | 121626           | 121627 |        |        |        |        |        |        |        |        |            | .40    |
| 1.75  | ---        | 1.50  | AK17 / MA18   | 1B   | 1.38 | 121631           | 121632 | 121633 |        |        |        |        |        |        |        |            | .40    |
| 2.00  | 1.41       | 1.75  | AK20 / MA20   | 1B   | 1.38 | 121636           | 121637 | 121638 |        |        |        |        |        |        |        |            | .70    |
| 2.10  | 1.51       | 1.85  | AK21 / MA21   | 1B   | 1.38 | 127100           | 127101 | 127102 |        |        |        |        |        |        |        |            | .70    |
| 2.20  | 1.61       | 1.95  | AK22 / MA22   | 1B   | 1.38 | 127436           | 127437 | 127438 |        |        |        |        |        |        |        |            | .80    |
| 2.30  | 1.71       | 2.05  | AK23 / MA23   | 1B   | 1.38 | 121642           | 121643 | 121644 | 121645 |        |        |        |        |        |        |            | .80    |
| 2.50  | 1.91       | 2.25  | AK25 / MA25   | 2B   | 1.25 | 121649           | 121650 | 121651 | 121652 |        |        |        |        |        |        |            | .90    |
| 2.60  | 2.01       | 2.35  | AK26 / MA26   | 2B   | 1.25 | 127103           | 127104 | 127105 |        |        |        |        |        |        |        |            | .90    |
| 2.70  | 2.11       | 2.45  | AK27 / MA27   | 2B   | 1.25 | 127107           | 121503 | 127108 |        |        |        |        |        |        |        |            | .90    |
| 2.80  | 2.21       | 2.55  | AK28 / MA28   | 2B   | 1.25 | 121655           | 121656 | 121657 | 121658 | 121659 |        |        |        |        |        |            | .90    |
| 3.05  | 2.46       | 2.80  | AK30 / MA30   | 2B   | 1.25 | 121662           | 121663 | 121664 | 121665 | 121666 |        |        |        |        |        |            | 1.20   |
| 3.25  | 2.66       | 3.00  | AK32 / MA33   | 2B   | 1.25 | 121669           | 121670 | 121671 | 121672 | 121673 | 121674 |        |        |        |        |            | 1.50   |
| 3.45  | 2.86       | 3.20  | AK34 / MA35   | 2B   | 1.25 | 121676           | 121677 | 121678 | 121679 | 121680 | 121681 |        |        |        |        |            | 1.40   |
| 3.75  | 3.16       | 3.50  | AK39 / MA38   | 2W   | 1.13 | 121530           | 121531 | 121532 | 121533 | 127110 | 121534 | 121535 |        |        |        |            | 1.50   |
| 3.95  | 3.36       | 3.70  | AK41 / MA40   | 2W   | 1.13 | 121536           | 121537 | 121538 | 121539 | 127111 | 121540 | 121541 |        |        |        |            | 2.00   |
| 4.25  | 3.66       | 4.00  | AK44 / MA43   | 2W   | 1.13 | 121542           | 121543 | 121544 | 121545 | 127112 | 121546 | 121547 |        |        |        |            | 2.00   |
| 4.45  | 3.86       | 4.20  | AK46 / MA45   | 2W   | 1.13 | 121548           | 121549 | 121550 | 121551 | 127113 | 121552 | 121553 |        |        |        |            | 2.00   |
| 4.75  | 4.16       | 4.50  | AK49 / MA48   | 1A   | 1.38 | 121554           | 121555 | 121556 | 121557 | 127114 | 121558 | 121559 |        |        |        |            | 2.00   |
| 4.95  | 4.36       | 4.70  | AK51 / MA50   | 1A   | 1.38 | 121560           | 121561 | 121562 | 121563 |        | 121564 | 121565 |        |        |        |            | 2.00   |
| 5.25  | 4.66       | 5.00  | AK54 / MA53   | 1A   | 1.38 | 121566           | 121567 | 121568 | 121569 | 127115 | 121570 | 121571 | 121572 |        |        |            | 2.50   |
| 5.45  | 4.86       | 5.20  | AK56 / MA55   | 1A   | 1.38 | 121573           | 121574 | 121575 | 121576 | 127116 | 121577 | 121578 | 121579 |        |        |            | 2.50   |
| 5.75  | 5.16       | 5.50  | AK59 / MA58   | 1A   | 1.38 | 127117           | 127118 | 127119 | 127120 | 127121 | 127122 | 127123 | 127124 |        |        |            | 2.50   |
| 5.95  | 5.36       | 5.70  | AK61 / MA60   | 1A   | 1.38 | 121580           | 121581 | 121582 | 121583 | 127125 | 121584 | 121585 | 121586 |        |        |            | 3.00   |
| 6.25  | 5.66       | 6.00  | AK64 / MA63   | 1A   | 1.38 | 121587           | 121588 | 121589 | 121590 | 127126 | 121591 | 121592 | 121593 |        |        |            | 3.00   |
| 6.45  | 5.86       | 6.20  | AK66 / MA65   | 1A   | 1.38 |                  | 127209 | 121594 |        |        | 121595 | 127128 |        |        |        |            | 3.00   |
| 6.75  | 6.16       | 6.50  | AK69 / MA68   | 1A   | 1.38 |                  |        | 127129 |        |        | 127130 | 127131 |        |        |        |            | 3.00   |
| 6.95  | 6.36       | 6.70  | AK71 / MA70   | 1A   | 1.38 |                  |        | 127132 | 121596 |        | 121597 | 127133 |        |        |        |            | 3.50   |
| 7.25  | 6.66       | 7.00  | AK74 / MA73   | 1A   | 1.38 | 121598           | 121599 | 121600 |        | 127134 | 121601 | 121602 | 127135 | 127136 |        | 127137     | 3.50   |
| 7.75  | 7.16       | 7.50  | AK79 / MA78   | 1A   | 1.38 |                  |        | 127138 |        |        | 127139 | 127140 |        |        |        | 127141     | 3.50   |
| 8.25  | 7.66       | 8.00  | AK84 / MA83   | 1A   | 1.38 | 127142           | 121609 | 121610 |        | 127143 | 121611 |        | 121612 |        |        | 127144     | 4.40   |
| 8.75  | 8.16       | 8.50  | AK89 / MA88   | 1A   | 1.38 |                  |        | 127145 |        |        | 127146 | 127147 |        |        |        | 127148     | 4.50   |
| 9.25  | 8.66       | 9.00  | AK94 / MA93   | 1A   | 1.38 | 127210           | 127211 | 121800 |        | 127212 | 127213 |        | 127214 | 121803 |        | 127215     | 5.40   |
| 9.75  | 9.16       | 9.50  | AK99 / MA98   | 1A   | 1.38 |                  |        | 127149 |        |        | 127150 |        |        |        |        | 127151     | 5.50   |
| 10.25 | 9.66       | 10.00 | AK104 / MA103 | 1A   | 1.38 |                  | 121809 | 121810 |        |        | 121811 |        | 127216 | 127217 | 127218 | 127219     | 6.00   |
| 10.75 | 10.16      | 10.50 | AK109 / MA108 | 1A   | 1.38 |                  |        | 127152 |        |        | 127153 |        |        |        | 127220 | 127154     | 6.00   |
| 11.25 | 10.66      | 11.00 | AK114 / MA113 | 1A   | 1.38 |                  |        | 127155 |        |        | 127156 |        | 127222 |        |        | 127223     | 6.50   |
| 12.25 | 11.66      | 12.00 | AK124 / MA123 | 1A   | 1.38 |                  | 121820 | 121821 |        |        | 121823 |        | 127224 | 127226 |        | 127227     | 7.00   |
| 13.25 | 12.66      | 13.00 | AK134 / MA133 | 1A   | 1.38 |                  |        | 121620 |        |        | 121621 |        | 121622 |        | 127106 | 127109     | 8.50   |
| 14.25 | 13.66      | 14.00 | AK144 / MA143 | 1A   | 1.38 |                  |        | 121623 |        |        | 121624 |        | 121628 |        |        | 121629     | 9.00   |
| 15.25 | 14.66      | 15.00 | AK154 / MA153 | 1A   | 1.38 |                  |        | 121634 |        |        | 121639 |        | 121640 |        | 127228 | 121646     | 9.00   |
| 18.25 | 17.66      | 18.00 | AK184 / MA183 | 1A   | 1.38 |                  |        | 121647 |        |        | 121653 |        | 121654 |        |        | 121660     | 14.00  |

P.D. for "3L Belt = D.D. + .25" = O.D. - .34"

P.D. for "A" (4L) Belt = O.D.

DO NOT use 3L belts with AK15 and AK17 sheaves

Bore sizes marked X are available - POA

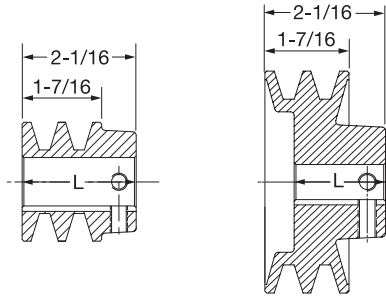
|                                 |                                    |                          |  |
|---------------------------------|------------------------------------|--------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT8-2 | SELECTION/DIMENSIONS<br>PAGE PT8-3 | SELECTION<br>PAGE PT8-10 |  |
|---------------------------------|------------------------------------|--------------------------|--|





## SELECTION/DIMENSIONS

### LIGHT DUTY FIXED BORE SHEAVES 2AK (A V-BELTS)



TYPE 3

TYPE 4

A = Arms

B = Block

W = Web

- Finished Bore
- Keyway and (2) Setscrew
- Cast Iron, max speed 6500 FPM

| Shaft Dia.      | Keyseat     |
|-----------------|-------------|
| 1/2             | none        |
| 5/8 - 7/8"      | 3/16 X 3/32 |
| 15/16 - 1-1/4"  | 1/4 X 1/8   |
| 1-5/16 - 1-3/8" | 5/16 X 5/32 |
| 1-7/16"         | 3/8 X 3/16  |

### 2 GROOVES

| O.D   | D.D.<br>A Belt | SHV<br>NO       | Type | L    | Bore/Part Number |        |        |        |        |        |        |        |        |        | Approx<br>Wgt |       |
|-------|----------------|-----------------|------|------|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|-------|
|       |                |                 |      |      | 1/2              | 5/8    | 3/4    | 7/8    | 15/16  | 1      | 1-1/8  | 1-3/16 | 1-3/8  | 1-7/16 |               |       |
| 2.00  | 1.75           | 2AK20 / 2MA20   | 3B   | 2.06 | 121835           | 121836 | 121837 | 121838 |        |        |        |        |        |        |               | 1.00  |
| 2.15  | 1.90           | 2AK21 / 2MA22   | 3B   | 2.06 | 127158           | 127159 | 127160 |        |        |        |        |        |        |        |               | 1.00  |
| 2.25  | 2.00           | 2AK22 / 2MA23   | 3B   | 2.06 | 121839           | 121840 | 121841 | 121842 |        | 121843 |        |        |        |        |               | 1.00  |
| 2.35  | 2.10           | 2AK23 / 2MA24   | 4B   | 1.88 |                  | 127161 | 127162 | 127163 |        | 127229 |        |        |        |        |               | 1.00  |
| 2.55  | 2.30           | 2AK25 / 2MA25   | 4B   | 1.69 | 121844           | 121845 | 121846 | 121847 |        | 121848 | 121849 |        |        |        |               | 1.50  |
| 2.65  | 2.40           | 2AK26 / 2MA27   | 4B   | 1.88 |                  | 127164 | 127165 | 127166 |        |        |        |        |        |        |               | 1.50  |
| 2.75  | 2.50           | 2AK27 / 2MA28   | 4B   | 1.69 | 121850           | 121851 | 121852 | 121853 |        | 121854 | 121855 |        |        |        |               | 1.50  |
| 2.85  | 2.60           | 2AK28 / 2MA29   | 4B   | 1.69 |                  | 127169 | 127170 | 127171 |        | 127172 |        |        |        |        |               | 1.50  |
| 3.05  | 2.80           | 2AK30 / 2MA30   | 4B   | 1.69 | 121856           | 121857 | 121858 | 121859 |        | 121860 | 121861 |        |        |        |               | 2.00  |
| 3.25  | 3.00           | 2AK32 / 2MA33   | 4B   | 1.63 | 121862           | 121863 | 121864 | 121865 |        | 121866 | 121867 |        |        |        |               | 2.00  |
| 3.45  | 3.20           | 2AK34 / 2MA35   | 4B   | 1.63 | 121868           | 121869 | 121870 | 121871 |        | 121872 | 121873 |        |        |        |               | 2.50  |
| 3.75  | 3.50           | 2AK39 / 2MA38   | 4B   | 1.63 | 121874           | 121875 | 121876 | 121877 |        | 121878 | 121879 |        |        |        |               | 3.00  |
| 3.95  | 3.70           | 2AK41 / 2MA40   | 4W   | 1.56 |                  | 121959 | 121880 | 121881 |        | 121882 | 121883 |        |        |        |               | 3.00  |
| 4.25  | 4.00           | 2AK44 / 2MA43   | 4W   | 1.56 |                  | 121884 | 121885 | 121886 |        | 121887 | 121888 |        |        |        |               | 3.00  |
| 4.45  | 4.20           | 2AK46 / 2MA45   | 4W   | 1.69 |                  |        |        | 121891 |        | 121892 | 121893 |        |        |        |               | 4.00  |
| 4.75  | 4.50           | 2AK49 / 2MA48   | 4W   | 1.56 |                  |        | 121895 | 121896 |        | 121897 | 127230 |        | 127231 |        |               | 3.50  |
| 4.95  | 4.70           | 2AK51 / 2MA50   | 4W   | 1.56 |                  |        | 121899 | 121900 |        | 121901 | 127439 |        | 127232 |        |               | 4.00  |
| 5.25  | 5.00           | 2AK54 / 2MA53   | 4W   | 1.56 |                  | 121902 | 121903 | 121904 |        | 121905 | 127233 |        | 127234 |        |               | 4.00  |
| 5.45  | 5.20           | 2AK56 / 2MA55   | 4W   | 1.56 |                  | 121906 | 121907 |        |        | 121909 | 127440 |        | 127235 |        |               | 5.00  |
| 5.75  | 5.50           | 2AK59 / 2MA58   | 4W   | 1.56 |                  |        |        |        |        | 121910 | 127236 |        | 127237 |        |               | 5.00  |
| 5.95  | 5.70           | 2AK61 / 2MA60   | 4W   | 1.69 |                  |        | 121911 | 121912 |        | 121913 | 127238 |        | 127240 |        |               | 6.00  |
| 6.25  | 6.00           | 2AK64 / 2MA63   | 4A   | 1.56 |                  |        | 121914 |        |        | 121916 | 127241 | 121917 | 127242 | 121918 |               | 5.50  |
| 7.25  | 7.00           | 2AK74 / 2MA73   | 4A   | 1.56 |                  |        | 121919 |        |        | 121920 | 127243 | 121921 | 127244 | 121922 |               | 6.00  |
| 8.25  | 8.00           | 2AK84 / 2MA83   | 4A   | 1.56 |                  |        | 121923 |        | 121924 | 121925 | 127245 | 121926 | 127246 | 121927 |               | 8.00  |
| 9.25  | 9.00           | 2AK94 / 2MA93   | 4A   | 1.56 |                  |        | 121928 |        |        | 121930 | 127248 | 121931 | 127249 | 121932 |               | 9.00  |
| 10.25 | 10.00          | 2AK104 / 2MA103 | 4A   | 1.56 |                  |        | 121933 |        | 121934 | 121935 |        |        |        |        |               | 10.00 |
| 11.25 | 11.00          | 2AK114 / 2MA113 | 4A   | 1.56 |                  |        |        |        |        | 121939 |        | 121940 | 127250 | 121941 |               | 11.00 |
| 12.25 | 12.00          | 2AK124 / 2MA123 | 4A   | 1.59 |                  |        |        |        |        | 121943 |        | 121944 |        | 121945 |               | 12.00 |
| 13.25 | 13.00          | 2AK134 / 2MA133 | 4A   | 1.59 |                  |        |        |        |        |        |        | 121947 |        | 121948 |               | 14.00 |
| 14.25 | 14.00          | 2AK144 / 2MA143 | 4A   | 1.56 |                  |        |        |        |        | 121949 |        |        |        | 121951 |               | 15.00 |
| 15.25 | 15.00          | 2AK154 / 2MA153 | 4A   | 1.56 |                  |        |        |        |        |        |        | 121953 |        | 121954 |               | 17.00 |
| 18.25 | 18.00          | 2AK184 / 2MA183 | 4A   | 1.53 |                  |        |        |        |        |        |        | 121957 |        | 121958 |               | 19.00 |

PD for "A" Belts = O.D.

Bore sizes marked X are available - POA



|                                 |                                    |                          |  |
|---------------------------------|------------------------------------|--------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT8-2 | SELECTION/DIMENSIONS<br>PAGE PT8-3 | SELECTION<br>PAGE PT8-10 |  |
|---------------------------------|------------------------------------|--------------------------|--|

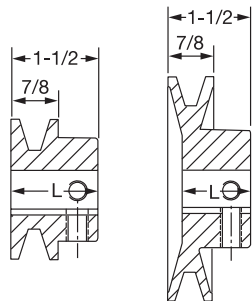


# SELECTION/DIMENSIONS

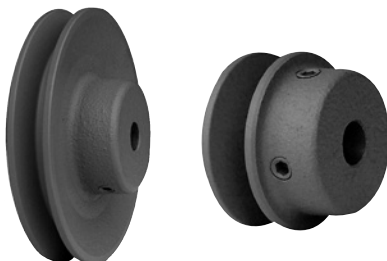
## LIGHT DUTY FIXED BORE SHEAVES

### BK (A & 4L - B & 5L V-BELTS)

- Finished Bore
- Keyway and (2) Setscrew
- Cast Iron, max speed 6500 FPM



A = Arms  
B = Block  
W = Web



| Shaft Dia.      | Keyseat     |
|-----------------|-------------|
| 1/2             | none        |
| 5/8 - 7/8"      | 3/16 X 3/32 |
| 15/16 - 1-1/4"  | 1/4 X 1/8   |
| 1-5/16 - 1-3/8" | 5/16 X 5/32 |
| 1-7/16"         | 3/8 X 3/16  |

TYPE 5      TYPE 6

### 1 GROOVE

| O.D.  | Datum Dia. |        | SHV NO        | Type | L    | Bore/Part Number |          |          |        |        |          |        | Approx Wgt |        |        |        |        |
|-------|------------|--------|---------------|------|------|------------------|----------|----------|--------|--------|----------|--------|------------|--------|--------|--------|--------|
|       | A (4L)     | B (5L) |               |      |      | 1/2              | 5/8      | 3/4      | 7/8    | 15/16  | 1        | 1-1/8  |            | 1-3/16 | 1-1/4  | 1-3/8  | 1-7/16 |
| 2.00  | * 1.25     | 1.65   | BK20 / MB20   | 5B   | 1.50 | 121682 *         | 121683 * | 121684 * |        |        |          |        |            |        |        |        | .50    |
| 2.25  | * 1.50     | 1.90   | BK23 / MB23   | 6B   | 1.34 | 121685           | 121686   | 121687   | 121688 |        | 121689 * |        |            |        |        |        | 1.00   |
| 2.40  | 1.65       | 2.05   | BK24 / MB24   | 6B   | 1.50 | 121713           | 121714   | 121715   |        |        |          |        |            |        |        |        | 1.00   |
| 2.50  | * 1.75     | 2.15   | BK25 / MB25   | 5B   | 1.50 | 121691           | 121692   | 121693   | 121694 |        | 121695 * | *      |            |        |        |        | 1.00   |
| 2.60  | 1.85       | 2.25   | BK26 / MB26   | 5B   | 1.50 | 121716           | 121717   | 121718   | 121719 |        |          |        |            |        |        |        | 1.00   |
| 2.70  | 1.95       | 2.35   | BK27 / MB28   | 6B   | 1.38 | 121697           | 121698   | 121699   | 121700 |        | 121701   |        |            |        |        |        | 1.00   |
| 2.95  | 2.20       | 2.60   | BK28 / MB30   | 6B   | 1.38 | 121706           | 121707   | 121708   | 121709 |        | 121710   | 121711 |            |        |        |        | 1.00   |
| 3.15  | 2.40       | 2.80   | BK30 / MB31   | 6B   | 1.38 | 121718           | 121718   | 121718   | 121718 |        |          |        |            |        |        |        | 1.00   |
| 3.25  | 2.50       | 2.90   | BK31 / MB33   | 6B   | 1.38 | 121714           | 121715   | 121716   | 121717 |        | 121718   | 121719 |            |        |        |        | 1.00   |
| 3.35  | 2.60       | 3.00   | BK32 / MB34   | 6B   | 1.38 | 121718           | 121718   | 121718   | 121718 |        |          |        |            |        |        |        | 1.00   |
| 3.55  | 2.80       | 3.20   | BK34 / MB35   | 6B   | 1.38 | 121722           | 121723   | 121724   | 121725 |        | 121726   | 121727 |            |        |        |        | 1.50   |
| 3.75  | 3.00       | 3.40   | BK36 / MB38   | 6B   | 1.25 | 120850           | 120851   | 120852   | 120853 |        | 120854   | 120855 |            |        |        |        | 1.50   |
| 3.95  | 3.20       | 3.60   | BK40 / MB40   | 6B   | 1.25 | 120856           | 120857   | 120858   | 120859 |        | 120860   | 120861 |            |        |        |        | 2.00   |
| 4.25  | 3.50       | 3.90   | BK45 / MB43   | 6W   | 1.25 | 120862           | 120863   | 120864   | 120865 |        | 120866   | 120867 |            |        |        |        | 2.00   |
| 4.45  | 3.70       | 4.10   | BK47 / MB45   | 6W   | 1.25 | 120874           | 120875   | 120876   | 120877 |        | 120878   | 127201 |            |        |        |        | 2.00   |
| 4.75  | 4.00       | 4.40   | BK50 / MB48   | 5W   | 1.50 | 121010           | 121011   | 121012   | 121013 | 127206 | 121014   | 121015 |            |        |        |        | 2.50   |
| 4.95  | 4.20       | 4.60   | BK52 / MB50   | 5W   | 1.50 | 120885           | 120886   | 120887   | 120888 |        | 120889   | 120890 |            |        |        |        | 2.50   |
| 5.25  | 4.50       | 4.90   | BK55 / MB53   | 6W   | 1.31 | 120892           | 120893   | 120894   | 120895 |        | 120896   | 120897 | 127221     |        |        |        | 3.00   |
| 5.45  | 4.70       | 5.10   | BK57 / MB55   | 5A   | 1.50 |                  | 120899   | 120900   | 120901 | 127225 | 120902   | 120903 |            |        |        |        | 2.50   |
| 5.75  | 5.00       | 5.40   | BK60 / MB58   | 5A   | 1.50 | 120910           | 120911   | 120912   | 120913 |        | 120914   | 120915 | 120916     |        |        |        | 2.50   |
| 5.95  | 5.20       | 5.60   | BK62 / MB60   | 5A   | 1.50 | 120917           | 120918   | 120919   | 120920 | 127239 | 120921   | 120922 | 120923     |        |        |        | 2.50   |
| 6.25  | 5.50       | 5.90   | BK65 / MB63   | 5A   | 1.50 |                  | 120924   | 120925   |        |        | 120926   | 120927 |            |        |        |        | 3.00   |
| 6.45  | 5.70       | 6.10   | BK67 / MB65   | 5A   | 1.50 |                  | 120929   | 120930   |        |        | 120932   | 120933 |            |        |        |        | 3.00   |
| 6.75  | 6.00       | 6.40   | BK70 / MB68   | 5A   | 1.50 |                  | 120942   | 120943   |        | 127247 | 120945   | 120946 | 120947     |        |        | 120949 | 4.00   |
| 6.95  | 6.20       | 6.60   | BK72 / MB70   | 5A   | 1.50 |                  |          | 120950   |        |        | 120951   | 127301 |            |        | 127252 |        | 3.50   |
| 7.25  | 6.50       | 6.90   | BK75 / MB73   | 5A   | 1.50 |                  |          | 120952   |        |        | 120953   | 127302 |            |        |        |        | 3.50   |
| 7.45  | 6.70       | 7.10   | BK77 / MB75   | 5A   | 1.50 |                  |          | 127254   |        |        | 127255   | 127256 |            |        |        | 127257 | 4.00   |
| 7.75  | 7.00       | 7.40   | BK80 / MB78   | 5A   | 1.50 |                  | 120954   | 120955   | 120956 |        | 120957   | 120958 | 120959     | 120960 | 127303 | 120961 | 4.00   |
| 8.25  | 7.50       | 7.90   | BK85 / MB83   | 5A   | 1.50 |                  |          | 121661   |        |        | 121668   | 127304 |            |        | 127258 | 127259 | 4.50   |
| 8.75  | 8.00       | 8.40   | BK90 / MB88   | 5A   | 1.50 |                  |          | 127260   | 120962 | 127261 | 120963   | 120847 | 127262     |        | 127263 | 127264 | 5.00   |
| 9.25  | 8.50       | 8.90   | BK95 / MB93   | 5A   | 1.50 |                  |          | 127265   |        |        | 127266   | 127267 |            |        | 127268 | 127269 | 5.50   |
| 9.75  | 9.00       | 9.40   | BK100 / MB98  | 5A   | 1.50 |                  |          | 120972   | 120973 | 127270 | 120974   | 120975 | 120976     | 120977 | 127305 | 120978 | 6.00   |
| 10.25 | 9.50       | 9.90   | BK105 / MB103 | 5A   | 1.50 |                  |          |          |        |        | 127271   |        |            |        | 127272 | 127273 | 6.50   |
| 10.75 | 10.00      | 10.40  | BK110 / MB108 | 5A   | 1.50 |                  |          | 120980   |        |        | 120981   | 120848 | 120982     |        | 127274 | 127275 | 7.00   |
| 11.25 | 10.50      | 10.90  | BK115 / MB113 | 5A   | 1.50 |                  |          |          |        |        | 120985   |        |            |        | 127442 | 120989 | 8.00   |
| 11.75 | 11.00      | 11.40  | BK120 / MB118 | 5A   | 1.50 |                  |          | 120990   |        |        | 120991   |        | 120992     |        | 127443 | 120994 | 8.00   |
| 12.75 | 12.00      | 12.40  | BK130 / MB128 | 5A   | 1.50 |                  |          | 120995   |        |        | 120996   | 120997 | 120998     | 121000 |        | 121001 | 9.00   |
| 13.75 | 13.00      | 13.40  | BK140 / MB138 | 5A   | 1.50 |                  |          | 127276   |        |        | 127277   | 127157 | 127278     |        |        | 127279 | 10.00  |
| 15.75 | 15.00      | 15.40  | BK160 / MB158 | 5A   | 1.50 |                  |          |          |        |        | 121690   | 127280 | 121696     | 121833 |        | 121834 | 12.00  |
| 18.75 | 18.00      | 18.40  | BK190 / MB188 | 5A   | 1.50 |                  |          |          |        |        |          |        | 121521     | 121527 |        | 121528 | 14.00  |

P.D. for A (4L) Belts = Datum Dia. + .35 = O.D. -.40

P.D. for B (5L) Belts = O.D.

(\*) DO NOT use "A" or "4L" belts with these specific bores

Bore sizes marked X are available - POA

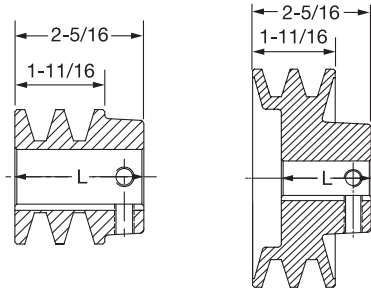
|                                 |                                    |                          |  |
|---------------------------------|------------------------------------|--------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT8-2 | SELECTION/DIMENSIONS<br>PAGE PT8-3 | SELECTION<br>PAGE PT8-10 |  |
|---------------------------------|------------------------------------|--------------------------|--|



## SELECTION/DIMENSIONS

### LIGHT DUTY FIXED BORE SHEAVES 2BK (A & B V-BELTS)

- Finished Boe
- Keyway and (2) Setscrew
- Cast Iron, max speed 6500 FPM



TYPE 7

TYPE 8

A = Arms

B = Block

W = Web

| Shaft Dia.      | Keyseat     |
|-----------------|-------------|
| 1/2             | none        |
| 5/8 - 7/8"      | 3/16 X 3/32 |
| 15/16 - 1-1/4"  | 1/4 X 1/8   |
| 1-5/16 - 1-3/8" | 5/16 X 5/32 |
| 1-7/16"         | 3/8 X 3/16  |

### 2 GROOVES

| O.D.  | D.D.<br>A(4L)<br>Belt | D.D.<br>B(5L)<br>Belt | SHV<br>NO       | Type | L    | Bore/Part Number |        |        |        |          |        |        |        |        |        | Wgt   |
|-------|-----------------------|-----------------------|-----------------|------|------|------------------|--------|--------|--------|----------|--------|--------|--------|--------|--------|-------|
|       |                       |                       |                 |      |      | 1/2              | 5/8    | 3/4    | 7/8    | 1        | 1-1/8  | 1-3/16 | 1-3/8  | 1-7/16 |        |       |
| 2.50  | * 1.90                | 2.30                  | 2BK25 / 2MB25   | 7B   | 2.31 | 121730           | 121731 | 121732 | 121733 | 121734 * | *      |        |        |        |        | 1.50  |
| 1.70  | 2.10                  | 2.50                  | 2BK27 / 2MB28   | 8B   | 1.94 | 121736           | 121737 | 121738 | 121739 | 121740   | 121741 |        |        |        |        | 1.50  |
| 2.95  | 2.20                  | 2.60                  | 2BK28 / 2MB30   | 8B   | 1.94 | 121742           | 121743 | 121744 | 121745 | 121746   | 121747 |        |        |        |        | 2.00  |
| 3.15  | 2.40                  | 2.80                  | 2BK30 / 2MB32   | 8B   | 1.88 | 127281           | 127282 | 127283 | 127284 | 127285   | 127286 |        |        |        |        | 2.00  |
| 3.35  | 2.60                  | 3.00                  | 2BK32 / 2MB34   | 8B   | 1.94 |                  | 121748 | 121749 | 121750 | 121751   | 121752 |        |        |        |        | 3.00  |
| 3.55  | 2.80                  | 3.20                  | 2BK34 / 2MB35   | 8B   | 1.88 |                  | 121753 | 121754 | 121755 | 121756   | 121757 |        |        |        |        | 2.50  |
| 3.75  | 3.00                  | 3.40                  | 2BK36 / 2MB38   | 8B   | 1.88 |                  |        | 121759 | 121760 | 121761   | 121762 |        | 127287 |        |        | 3.00  |
| 3.95  | 3.20                  | 3.60                  | 2BK40 / 2MB40   | 8B   | 1.69 |                  | 121763 | 121764 | 121765 | 121766   | 121767 |        | 121768 |        |        | 3.00  |
| 4.25  | 3.50                  | 3.90                  | 2BK45 / 2MB43   | 8W   | 1.81 |                  |        |        | 121772 | 121773   |        |        | 121774 |        |        | 4.00  |
| 4.45  | 3.70                  | 4.10                  | 2BK47 / 2MB45   | 8W   | 1.81 |                  |        |        | 121776 | 121777   | 121778 |        |        |        |        | 4.00  |
| 4.75  | 4.00                  | 4.40                  | 2BK50 / 2MB48   | 8W   | 1.81 |                  |        | 121780 | 121782 | 121783   |        |        | 121784 |        |        | 4.00  |
| 4.95  | 4.20                  | 4.60                  | 2BK52 / 2MB50   | 8W   | 1.69 |                  |        |        | 121786 | 121787   | 121788 |        | 121789 |        |        | 4.50  |
| 5.25  | 4.50                  | 4.90                  | 2BK55 / 2MB53   | 8W   | 1.81 |                  |        |        |        | 121793   |        |        | 127288 |        |        | 5.00  |
| 5.45  | 4.70                  | 5.10                  | 2BK57 / 2MB55   | 8W   | 1.81 |                  |        |        |        | 121796   | 121797 |        | 127289 |        |        | 5.00  |
| 5.75  | 5.00                  | 5.40                  | 2BK60 / 2MB58   | 8W   | 1.81 |                  |        | 121798 | 121799 | 121960   | 121961 |        | 127290 |        |        | 5.00  |
| 5.95  | 5.20                  | 5.60                  | 2BK62 / 2MB60   | 8W   | 1.81 |                  |        |        |        | 121963   | 121964 |        | 127291 |        |        | 6.00  |
| 6.25  | 5.50                  | 5.90                  | 2BK65 / 2MB63   | 8A   | 1.81 |                  |        |        |        | 121966   | 121967 |        | 127292 |        |        | 6.00  |
| 6.45  | 5.70                  | 6.10                  | 2BK67 / 2MB65   | 8A   | 1.69 |                  |        |        |        | 121969   | 121970 |        | 127293 |        |        | 6.00  |
| 6.75  | 6.00                  | 6.40                  | 2BK70 / 2MB68   | 8A   | 1.81 |                  |        |        |        | 121972   | 127294 | 121973 | 127295 | 121974 |        | 6.00  |
| 7.75  | 7.00                  | 7.40                  | 2BK80 / 2MB78   | 8A   | 1.81 |                  |        |        |        | 121977   | 127296 | 121978 | 127297 | 121979 |        | 7.00  |
| 8.75  | 8.00                  | 8.40                  | 2BK90 / 2MB88   | 8A   | 1.81 |                  |        |        |        | 121980   | 121981 | 127298 | 121982 | 127299 | 121983 | 8.00  |
| 9.75  | 9.00                  | 9.40                  | 2BK100 / 2MB98  | 8A   | 1.81 |                  |        |        |        | 121984   | 121986 |        | 121987 | 127300 | 121988 | 10.00 |
| 10.75 | 10.00                 | 10.40                 | 2BK110 / 2MB108 | 8A   | 1.81 |                  |        |        |        | 121989   |        |        | 121990 |        | 121991 | 13.00 |
| 11.75 | 11.00                 | 11.40                 | 2BK120 / 2MB118 | 8A   | 1.81 |                  |        |        |        | 121993   |        |        | 121994 |        | 121995 | 10.00 |
| 12.75 | 12.00                 | 12.40                 | 2BK130 / 2MB128 | 8A   | 1.81 |                  |        |        |        | 121996   |        |        | 121997 |        | 121998 | 15.00 |
| 13.75 | 13.00                 | 13.40                 | 2BK140 / 2MB138 | 8A   | 1.81 |                  |        |        |        | 121703   |        |        | 121704 |        | 121705 | 17.00 |
| 15.75 | 15.00                 | 15.40                 | 2BK160 / 2MB158 | 8A   | 1.81 |                  |        |        |        | 121712   |        |        | 121713 |        | 121720 | 18.00 |
| 18.75 | 18.00                 | 18.40                 | 2BK190 / 2MB188 | 8A   | 1.81 |                  |        |        |        |          |        |        | 121728 |        | 121729 | 26.00 |

P.D. for A (4L) Belts = Datum Dia. + .35 = O.D. - .40

P.D. for B (5L) Belts = O.D.

(\*) DO NOT use A belts with these specific bores

Bore sizes marked X are available - POA

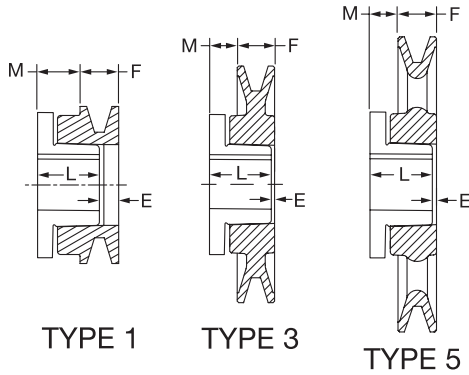


|                                 |                                    |                          |  |
|---------------------------------|------------------------------------|--------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT8-2 | SELECTION/DIMENSIONS<br>PAGE PT8-3 | SELECTION<br>PAGE PT8-10 |  |
|---------------------------------|------------------------------------|--------------------------|--|



# SELECTION/DIMENSIONS

## QT-Bushed Sheaves



### QT-Bushed Sheaves

- Sizes AKQT, 2AKQT, BKQT, 2BKQT
- Uses QT(L)-Style Bushing
- Secure Clamp Fit to Shaft
- Bore Range 3/8 to 1-1/2"
- Integral Key Bushing — Available in Select Bores
- Inch and Metric Bores
- Suitable for Higher Capacity AX or BX Classic Cog Belts



## AK (A & 3L - 4L V-BELTS) 1 GROOVE

| O.D.  | Datum Dia. |        | SHV NO           | P/N    | Type | Dimensions |      |      |      | Approx Wgt |
|-------|------------|--------|------------------|--------|------|------------|------|------|------|------------|
|       | 3L         | A (4L) |                  |        |      | E          | F    | L    | M    |            |
| 3.05  | 2.46       | 2.80   | AK30QT / MAL30   | 121017 | 1B   | 0.38       | 0.75 | 1.69 | 0.97 | 1.15       |
| 3.25  | 2.66       | 3.00   | AK32QT / MAL32   | 121018 | 1B   | 0.38       | 0.75 | 1.69 | 0.97 | 1.30       |
| 3.45  | 2.86       | 3.20   | AK34QT / MAL34   | 121019 | 1B   | 0.09       | 0.75 | 1.69 | 0.69 | 1.20       |
| 3.75  | 3.16       | 3.50   | AK39QT / MAL37   | 121020 | 1B   | 0.09       | 0.75 | 1.69 | 0.69 | 1.50       |
| 3.95  | 3.36       | 3.70   | AK41QT / MAL39   | 121021 | 1B   | 0.09       | 0.75 | 1.69 | 0.69 | 1.75       |
| 4.25  | 3.66       | 4.00   | AK44QT / MAL42   | 121022 | 1B   | 0.09       | 0.75 | 1.69 | 0.69 | 2.05       |
| 4.45  | 3.86       | 4.20   | AK46QT / MAL44   | 121023 | 1B   | 0.09       | 0.75 | 1.69 | 0.69 | 2.25       |
| 4.75  | 4.16       | 4.50   | AK49QT / MAL47   | 121024 | 3W   | 0.09       | 0.75 | 1.69 | 0.69 | 2.10       |
| 4.95  | 4.36       | 4.70   | AK51QT / MAL49   | 121025 | 3W   | 0.09       | 0.75 | 1.69 | 0.69 | 2.35       |
| 5.25  | 4.66       | 5.00   | AK54QT / MAL52   | 121026 | 3W   | 0.09       | 0.75 | 1.69 | 0.69 | 2.65       |
| 5.45  | 4.86       | 5.20   | AK56QT / MAL54   | 121027 | 3W   | 0.09       | 0.75 | 1.69 | 0.69 | 2.75       |
| 5.75  | 5.16       | 5.50   | AK59QT / MAL57   | 121028 | 5A   | 0.09       | 0.75 | 1.69 | 0.69 | 2.60       |
| 5.95  | 5.36       | 5.70   | AK61QT / MAL59   | 121029 | 5A   | 0.09       | 0.75 | 1.69 | 0.69 | 2.50       |
| 6.25  | 5.66       | 6.00   | AK64QT / MAL62   | 121030 | 5A   | 0.09       | 0.75 | 1.69 | 0.69 | 2.60       |
| 6.45  | 5.86       | 6.20   | AK66QT / MAL64   | 121031 | 5A   | 0.09       | 0.75 | 1.69 | 0.69 | 2.70       |
| 6.75  | 6.16       | 6.50   | AK69QT / MAL67   | 121032 | 5A   | 0.09       | 0.75 | 1.69 | 0.69 | 2.85       |
| 6.95  | 6.36       | 6.70   | AK71QT / MAL69   | 121033 | 5A   | 0.09       | 0.75 | 1.69 | 0.69 | 2.90       |
| 7.25  | 6.66       | 7.00   | AK74QT / MAL72   | 121034 | 5A   | 0.09       | 0.75 | 1.69 | 0.69 | 3.10       |
| 7.75  | 7.16       | 7.50   | AK79QT / MAL77   | 121035 | 5A   | 0.09       | 0.75 | 1.69 | 0.69 | 3.35       |
| 8.25  | 7.66       | 8.00   | AK84QT / MAL82   | 121036 | 5A   | 0.13       | 0.75 | 1.69 | 0.72 | 3.85       |
| 8.75  | 8.16       | 8.50   | AK89QT / MAL87   | 121037 | 5A   | 0.09       | 0.75 | 1.69 | 0.69 | 4.10       |
| 9.25  | 8.66       | 9.00   | AK94QT / MAL92   | 121038 | 5A   | 0.09       | 0.75 | 1.69 | 0.69 | 4.40       |
| 9.75  | 9.16       | 9.50   | AK99QT / MAL97   | 121039 | 5A   | 0.09       | 0.75 | 1.69 | 0.69 | 4.60       |
| 10.25 | 9.66       | 10.00  | AK104QT / MAL102 | 121040 | 5A   | 0.09       | 0.75 | 1.69 | 0.69 | 4.90       |
| 10.75 | 10.16      | 10.50  | AK109QT / MAL107 | 121041 | 5A   | 0.09       | 0.75 | 1.69 | 0.69 | 5.20       |
| 11.25 | 10.66      | 11.00  | AK114QT / MAL112 | 121042 | 5A   | 0.09       | 0.75 | 1.69 | 0.34 | 5.55       |
| 12.25 | 11.66      | 12.00  | AK124QT / MAL122 | 121043 | 5A   | 0.09       | 0.75 | 1.69 | 0.69 | 5.90       |
| 13.25 | 12.66      | 13.00  | AK134QT / MAL132 | 121044 | 5A   | 0.09       | 0.75 | 1.69 | 0.69 | 6.55       |
| 14.25 | 13.66      | 14.00  | AK144QT / MAL142 | 121045 | 5A   | 0.09       | 0.75 | 1.69 | 0.69 | 7.30       |
| 15.25 | 14.66      | 15.00  | AK154QT / MAL152 | 121046 | 5A   | 0.09       | 0.75 | 1.69 | 0.69 | 9.80       |
| 18.25 | 17.66      | 18.00  | AK184QT / MAL182 | 121529 | 5A   | 0.09       | 0.75 | 1.69 | 0.69 | 9.95       |

P.D. for "3L Belt = D.D. + .25" = O.D. - .34"

P.D. for "A (4L)" is same as O.D

**NOTE:** See Bushing section for bores/part numbers of QT Bushings used with these Sheaves

## QT(L)-Bushings

| Size               | Part No. | Size                | Part No. |
|--------------------|----------|---------------------|----------|
| <b>Bore/Keyway</b> |          | <b>Integral Key</b> |          |
| QT x 3/8-NKS       | 121129   | QT x 3/4-IK         | 121162   |
| QT x 7/16-NKS      | 121130   | QT x 7/8-IK         | 121163   |
| QT x 1/2-KW        | 121131   | QT x 1-IK           | 121164   |
| QT x 9/16-KW       | 121133   | QT x 1-1/8-IK       | 121186   |
| QT x 5/8-KW        | 122050   | QT x 1-3/16-IK      | 121187   |
|                    |          | <b>Metric</b>       |          |
| QT x 11/16-KW      | 121134   | QT x 14MM-KW        | 121148   |
| QT x 3/4-KW        | 122051   | QT x 19MM-KW        | 121149   |
| QT x 13/16-KW      | 121136   | QT x 20MM-KW        | 121467   |
| QT x 7/8-KW        | 122052   | QT x 24MM-KW        | 121150   |
| QT x 15/16-KW      | 121138   | QT x 25MM-KW        | 121151   |
| QT x 1-KW          | 122053   | QT x 28MM-KW        | 121152   |
| QT x 1-1/16-KW     | 121140   | QT x 30MM-KW        | 121153   |
| QT x 1-1/8-KW      | 122054   | QT x 32MM-KW        | 121154   |
| QT x 13/16-KW      | 122055   | <b>Reborable</b>    |          |
| QT x 1-1/4-KW      | 122056   | QT x 3/8-NKS        | 120595   |
| QT x 15/16-KW      | 121144   |                     |          |
| QT x 1-3/8-KW      | 121145   |                     |          |
| QT x 17/16-KW      | 121146   |                     |          |
| QT x 1-1/2-KW      | 121147   |                     |          |

**NOTE:** INSTALLATION SCREW SIZE=1/4-20X7/8  
TORQUE=55 LB-IN



## 2AK (A V-BELTS) 2 GROOVE

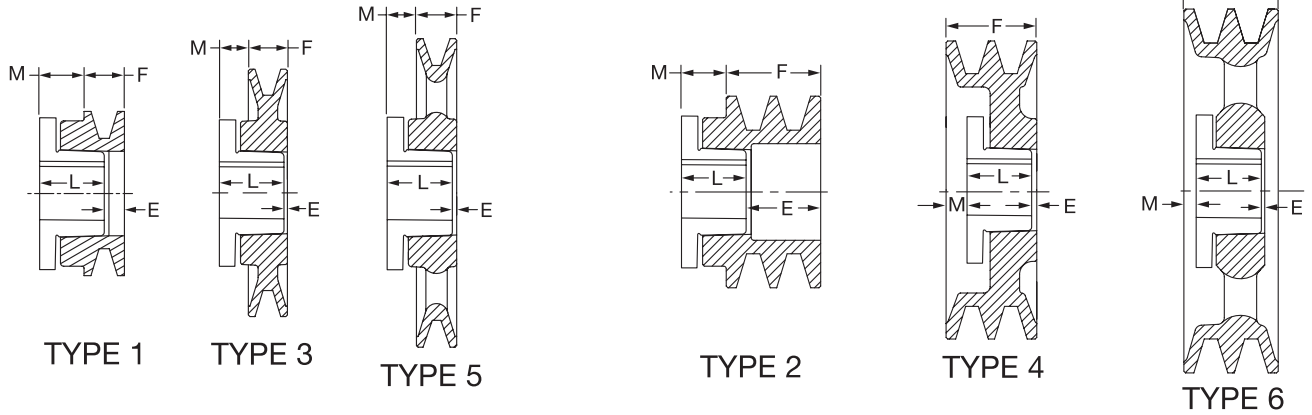
| O.D.  | D.D. A Belts | SHV NO            | P/N    | Type | Dimensions |      |      |      | Approx Wgt |
|-------|--------------|-------------------|--------|------|------------|------|------|------|------------|
|       |              |                   |        |      | E          | F    | L    | M    |            |
| 3.05  | 2.80         | 2AK30QT /2MAL30   | 121048 | 2B   | 1.00       | 1.38 | 1.34 | .97  | 1.70       |
| 3.25  | 3.00         | 2AK32QT /2MAL32   | 121049 | 2B   | 1.00       | 1.38 | 1.34 | .97  | 1.90       |
| 3.45  | 3.20         | 2AK34QT /2MAL34   | 121050 | 2B   | .72        | 1.38 | 1.34 | .69  | 1.90       |
| 3.75  | 3.50         | 2AK39QT /2MAL37   | 121051 | 2B   | .72        | 1.38 | 1.34 | .69  | 2.15       |
| 3.95  | 3.70         | 2AK41QT /2MAL39   | 121052 | 4B   | .09        | 1.38 | 1.34 | 0.06 | 2.30       |
| 4.25  | 4.00         | 2AK44QT /2MAL42   | 121053 | 4B   | .09        | 1.38 | 1.34 | 0.06 | 2.75       |
| 4.45  | 4.20         | 2AK46QT /2MAL44   | 121054 | 4W   | .09        | 1.38 | 1.34 | 0.06 | 2.85       |
| 4.75  | 4.50         | 2AK49QT /2MAL47   | 121055 | 4W   | .09        | 1.38 | 1.34 | 0.06 | 3.50       |
| 4.95  | 4.70         | 2AK51QT /2MAL49   | 121056 | 4W   | .09        | 1.38 | 1.34 | 0.06 | 3.70       |
| 5.25  | 5.00         | 2AK54QT /2MAL52   | 121057 | 4W   | .09        | 1.38 | 1.34 | 0.06 | 4.05       |
| 5.45  | 5.20         | 2AK56QT /2MAL54   | 121058 | 4W   | .09        | 1.38 | 1.34 | 0.06 | 4.20       |
| 5.75  | 5.50         | 2AK59QT /2MAL57   | 121059 | 6A   | .09        | 1.38 | 1.34 | 0.06 | 3.90       |
| 5.95  | 5.70         | 2AK61QT /2MAL59   | 121060 | 6A   | .09        | 1.38 | 1.34 | 0.06 | 4.05       |
| 6.25  | 6.00         | 2AK64QT /2MAL62   | 121061 | 6A   | .09        | 1.38 | 1.34 | 0.06 | 4.50       |
| 7.25  | 7.00         | 2AK74QT /2MAL72   | 121062 | 6A   | .09        | 1.38 | 1.34 | 0.06 | 5.70       |
| 8.25  | 8.00         | 2AK84QT /2MAL82   | 121063 | 6A   | .09        | 1.38 | 1.34 | 0.06 | 6.50       |
| 9.25  | 9.00         | 2AK94QT /2MAL92   | 121064 | 6A   | .09        | 1.38 | 1.34 | 0.06 | 7.80       |
| 10.25 | 10.00        | 2AK104QT /2MAL102 | 121065 | 6A   | .09        | 1.38 | 1.34 | 0.06 | 8.80       |
| 11.25 | 11.00        | 2AK114QT /2MAL112 | 121066 | 6A   | .09        | 1.38 | 1.34 | 0.06 | 9.50       |
| 12.25 | 12.00        | 2AK124QT /2MAL122 | 121067 | 6A   | .09        | 1.38 | 1.34 | 0.06 | 10.60      |
| 13.25 | 13.00        | 2AK134QT /2MAL132 | 121068 | 6A   | .09        | 1.38 | 1.34 | 0.06 | 11.90      |
| 14.25 | 14.00        | 2AK144QT /2MAL142 | 121069 | 6A   | .09        | 1.38 | 1.34 | 0.06 | 12.45      |
| 15.25 | 15.00        | 2AK154QT /2MAL152 | 121070 | 6A   | .09        | 1.38 | 1.34 | 0.06 | 14.00      |
| 18.25 | 18.00        | 2AK184QT /2MAL182 | 121008 | 6A   | .09        | 1.38 | 1.25 | 0.06 | 17.95      |

|                                 |                                    |                          |  |
|---------------------------------|------------------------------------|--------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT8-2 | SELECTION/DIMENSIONS<br>PAGE PT8-3 | SELECTION<br>PAGE PT8-10 |  |
|---------------------------------|------------------------------------|--------------------------|--|



## SELECTION/DIMENSIONS

### QT-Bushed Sheaves



### BK (A (3L) & B (4L) V-BELTS) 1 GROOVE

| O.D.  | Datum Dia. |        |                  | SHV NO | P/N | Type | Dimensions |      |     |       | Approx Wgt |
|-------|------------|--------|------------------|--------|-----|------|------------|------|-----|-------|------------|
|       | 3L         | A (4L) |                  |        |     |      | E          | F    | L   | M     |            |
| 3.15  | 2.40       | 2.80   | BK30QT / MBL31   | 121072 | 1B  | .53  | .91        | 1.34 | .98 | 1.25  |            |
| 3.35  | 2.60       | 3.00   | BK32QT / MBL33   | 121073 | 1B  | .53  | .91        | 1.34 | .98 | 1.40  |            |
| 3.55  | 2.80       | 3.20   | BK34QT / MBL35   | 121074 | 1B  | .53  | .91        | 1.34 | .98 | 1.65  |            |
| 3.75  | 3.00       | 3.40   | BK36QT / MBL37   | 121075 | 1B  | .09  | .91        | 1.34 | .53 | 1.40  |            |
| 3.95  | 3.20       | 3.60   | BK40QT / MBL39   | 121076 | 1B  | .09  | .91        | 1.34 | .53 | 1.70  |            |
| 4.25  | 3.50       | 3.90   | BK45QT / MBL42   | 121077 | 1B  | .09  | .91        | 1.34 | .53 | 2.05  |            |
| 4.45  | 3.70       | 4.10   | BK47QT / MBL44   | 121078 | 1B  | .09  | .91        | 1.34 | .53 | 2.35  |            |
| 4.75  | 4.00       | 4.40   | BK50QT / MBL47   | 121079 | 3W  | .09  | .91        | 1.34 | .53 | 1.95  |            |
| 4.95  | 4.20       | 4.60   | BK52QT / MBL49   | 121080 | 3W  | .09  | .91        | 1.34 | .53 | 2.40  |            |
| 5.25  | 4.50       | 4.90   | BK55QT / MBL52   | 121081 | 3W  | .09  | .91        | 1.34 | .53 | 2.35  |            |
| 5.45  | 4.70       | 5.10   | BK57QT / MBL54   | 121082 | 3W  | .09  | .91        | 1.34 | .53 | 2.90  |            |
| 5.75  | 5.00       | 5.40   | BK60QT / MBL57   | 121083 | 3W  | .09  | .91        | 1.34 | .53 | 2.45  |            |
| 5.95  | 5.20       | 5.60   | BK62QT / MBL59   | 121084 | 5A  | .09  | .91        | 1.34 | .53 | 2.80  |            |
| 6.25  | 5.50       | 5.90   | BK65QT / MBL62   | 121085 | 5A  | .09  | .91        | 1.34 | .53 | 2.70  |            |
| 6.45  | 5.70       | 6.10   | BK67QT / MBL64   | 121086 | 5A  | .09  | .91        | 1.34 | .53 | 2.80  |            |
| 6.75  | 6.00       | 6.40   | BK70QT / MBL67   | 121087 | 5A  | .09  | .91        | 1.34 | .53 | 3.00  |            |
| 6.95  | 6.20       | 6.60   | BK72QT / MBL69   | 121088 | 5A  | .09  | .91        | 1.34 | .53 | 3.60  |            |
| 7.25  | 6.50       | 6.90   | BK75QT / MBL72   | 121089 | 5A  | .09  | .91        | 1.34 | .53 | 3.45  |            |
| 7.45  | 6.70       | 7.10   | BK77QT / MBL74   | 121090 | 5A  | .09  | .91        | 1.34 | .53 | 3.65  |            |
| 7.75  | 7.00       | 7.40   | BK80QT / MBL77   | 121091 | 5A  | .09  | .91        | 1.34 | .53 | 3.80  |            |
| 8.25  | 7.50       | 7.90   | BK85QT / MBL82   | 121092 | 5A  | .09  | .91        | 1.34 | .53 | 4.55  |            |
| 8.75  | 8.00       | 8.40   | BK90QT / MBL87   | 121093 | 5A  | .09  | .91        | 1.34 | .53 | 5.10  |            |
| 9.25  | 8.50       | 8.90   | BK95QT / MBL92   | 121094 | 5A  | .09  | .91        | 1.34 | .53 | 5.30  |            |
| 9.75  | 9.00       | 9.40   | BK100QT / MBL97  | 121095 | 5A  | .09  | .91        | 1.34 | .53 | 5.80  |            |
| 10.25 | 9.50       | 9.90   | BK105QT / MBL102 | 121096 | 5A  | .09  | .91        | 1.34 | .53 | 5.50  |            |
| 10.75 | 10.00      | 10.40  | BK110QT / MBL107 | 121097 | 5A  | .09  | .91        | 1.34 | .53 | 5.85  |            |
| 11.25 | 10.50      | 10.90  | BK115QT / MBL112 | 121098 | 5A  | .09  | .91        | 1.34 | .53 | 7.20  |            |
| 11.75 | 11.00      | 11.40  | BK120QT / MBL117 | 121099 | 5A  | .09  | .91        | 1.34 | .53 | 6.59  |            |
| 12.75 | 12.00      | 12.40  | BK130QT / MBL127 | 121100 | 5A  | .09  | .91        | 1.34 | .53 | 7.90  |            |
| 13.75 | 13.00      | 13.40  | BK140QT / MBL137 | 121101 | 5A  | .09  | .91        | 1.34 | .53 | 10.15 |            |
| 14.75 | 14.00      | 14.40  | BK150QT / MBL147 | 121102 | 5A  | .09  | .91        | 1.34 | .53 | 13.25 |            |
| 15.75 | 15.00      | 15.40  | BK160QT / MBL157 | 121103 | 5A  | .09  | .91        | 1.34 | .53 | 16.05 |            |
| 18.75 | 18.00      | 18.40  | BK190QT / MBL187 | 121009 | 5A  | .09  | .91        | 1.34 | .53 | 12.45 |            |

P.D. for "A (4L)" Belts = D.D. + .35" = O.D. -.40"

P.D. for "B (5L)" is same as O.D.

NOTE: See Bushing section for bores/part numbers of QT Bushings used with these Sheaves

### 2BK (A & B V-BELTS) 2 GROOVE

| O.D.  | Datum Dia. |       |                    | SHV NO | P/N | Type | Dimensions |      |     |       | Approx Wgt |
|-------|------------|-------|--------------------|--------|-----|------|------------|------|-----|-------|------------|
|       | A          | B     |                    |        |     |      | E          | F    | L   | M     |            |
| 3.35  | 2.60       | 3.00  | 2BK32QT / 2MBL33   | 121105 | 2B  | 1.38 | 1.75       | 1.34 | .97 | 2.35  |            |
| 3.55  | 2.80       | 3.20  | 2BK34QT / 2MBL35   | 121106 | 2B  | 1.38 | 1.75       | 1.34 | .97 | 2.55  |            |
| 3.75  | 3.00       | 3.40  | 2BK36QT / 2MBL37   | 121107 | 2B  | 1.38 | 1.75       | 1.34 | .97 | 3.00  |            |
| 3.95  | 3.20       | 3.60  | 2BK40QT / 2MBL39   | 121108 | 2B  | .94  | 1.75       | 1.34 | .53 | 2.80  |            |
| 4.25  | 3.50       | 3.90  | 2BK45QT / 2MBL42   | 121109 | 2B  | .94  | 1.75       | 1.34 | .53 | 3.25  |            |
| 4.45  | 3.70       | 4.10  | 2BK47QT / 2MBL44   | 121110 | 2B  | .94  | 1.75       | 1.34 | .53 | 3.35  |            |
| 4.75  | 4.00       | 4.40  | 2BK50QT / 2MBL47   | 121111 | 2B  | .09  | 1.75       | 1.34 | .31 | 3.85  |            |
| 4.95  | 4.20       | 4.60  | 2BK52QT / 2MBL49   | 121112 | 4W  | .09  | 1.75       | 1.34 | .31 | 4.00  |            |
| 5.25  | 4.50       | 4.90  | 2BK55QT / 2MBL52   | 121113 | 4W  | .09  | 1.75       | 1.34 | .31 | 4.40  |            |
| 5.45  | 4.70       | 5.10  | 2BK57QT / 2MBL54   | 121114 | 4W  | .09  | 1.75       | 1.34 | .31 | 4.95  |            |
| 5.75  | 5.00       | 5.40  | 2BK60QT / 2MBL57   | 121115 | 4W  | .09  | 1.75       | 1.34 | .31 | 5.30  |            |
| 5.95  | 5.20       | 5.60  | 2BK62QT / 2MBL59   | 121116 | 4W  | .09  | 1.75       | 1.34 | .31 | 5.80  |            |
| 6.25  | 5.50       | 5.90  | 2BK65QT / 2MBL62   | 121117 | 4W  | .06  | 1.75       | 1.34 | .34 | 5.40  |            |
| 6.45  | 5.70       | 6.10  | 2BK67QT / 2MBL64   | 121118 | 6A  | .06  | 1.75       | 1.34 | .34 | 5.85  |            |
| 6.75  | 6.00       | 6.40  | 2BK70QT / 2MBL67   | 121119 | 6A  | .06  | 1.75       | 1.34 | .34 | 5.55  |            |
| 6.95  | 6.20       | 6.60  | 2BK72QT / 2MBL69   |        | 6A  | .06  | 1.75       | 1.34 | .34 | 6.65  |            |
| 7.75  | 7.00       | 7.40  | 2BK80QT / 2MBL77   | 121120 | 6A  | .06  | 1.75       | 1.34 | .34 | 6.85  |            |
| 8.75  | 8.00       | 8.40  | 2BK90QT / 2MBL87   | 121121 | 6A  | .06  | 1.75       | 1.34 | .34 | 9.65  |            |
| 9.75  | 9.00       | 9.40  | 2BK100QT / 2MBL97  | 121122 | 6A  | .06  | 1.75       | 1.34 | .34 | 9.20  |            |
| 10.75 | 10.00      | 10.40 | 2BK110QT / 2MBL107 | 121123 | 6A  | .06  | 1.75       | 1.34 | .34 | 12.80 |            |
| 11.75 | 11.00      | 11.40 | 2BK120QT / 2MBL117 | 121124 | 6A  | .06  | 1.75       | 1.34 | .34 | 14.65 |            |
| 12.75 | 12.00      | 12.40 | 2BK130QT / 2MBL127 | 121125 | 6A  | .06  | 1.75       | 1.34 | .34 | 14.15 |            |
| 13.75 | 13.00      | 13.40 | 2BK140QT / 2MBL137 | 121126 | 6A  | .06  | 1.75       | 1.34 | .34 | 14.95 |            |
| 15.75 | 15.00      | 15.40 | 2BK160QT / 2MBL157 | 121127 | 6A  | .06  | 1.75       | 1.34 | .34 | 18.70 |            |
| 18.75 | 18.00      | 18.40 | 2BK190QT / 2MBL187 | 121016 | 6A  | .06  | 1.75       | 1.34 | .34 | 24.20 |            |

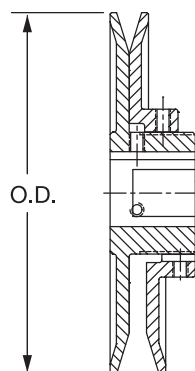






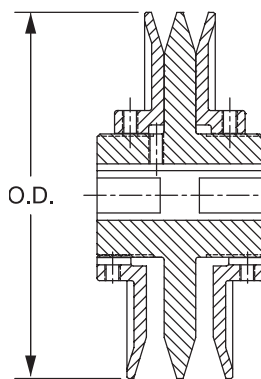
# SELECTION/DIMENSIONS

## Variable Pitch Sheaves



ONE GROOVE

| SHV NO. | O.D. | Overall Length | WT LBS | Stock Bores |        |        |        |        |        |        |        |       | MAX BORE |  |      |
|---------|------|----------------|--------|-------------|--------|--------|--------|--------|--------|--------|--------|-------|----------|--|------|
|         |      |                |        | 1/2         | 5/8    | 3/4    | 7/8    | 1      | 1-1/8  | 1-1/4  | 1-3/8  | 1-5/8 |          |  |      |
| 1VP25   | 2.58 | 1.59           | 0.7    | 127400      |        |        |        |        |        |        |        |       |          |  | 0.75 |
| 1VP30   | 2.87 | 1.66           | 1.1    | 121203      | 121207 | 127401 |        |        |        |        |        |       |          |  | 0.75 |
| 1VP34   | 3.15 | 1.88           | 1.4    | 121208      | 121209 | 121210 | 121211 |        |        |        |        |       |          |  | 1.13 |
| 1VP40   | 3.75 | 1.88           | 1.9    | 121212      | 121213 | 121214 | 121215 |        |        |        |        |       |          |  | 1.13 |
| 1VP44   | 4.15 | 1.88           | 2.4    | 121216      | 121217 | 121218 | 121219 | 121220 | 121221 |        |        |       |          |  | 1.13 |
| 1VP50   | 4.75 | 1.88           | 3.6    | 121222      | 121223 | 121224 | 121225 | 121226 | 121227 |        |        |       |          |  | 1.13 |
| 1VP56   | 5.35 | 1.88           | 4.4    | 121228      | 121229 | 121230 | 121231 | 121232 | 121233 |        |        |       |          |  | 1.13 |
| 1VP60   | 6.00 | 1.66           | 6.5    |             |        | 127402 | 127403 |        |        |        |        |       |          |  | 1.63 |
| 1VP62   | 5.95 | 1.91           | 6.7    |             | 127405 | 121234 | 121235 | 121236 | 121237 | 121239 | 121240 |       |          |  | 1.63 |
| 1VP65   | 6.50 | 1.66           | 6.8    |             |        | 127406 | 127407 |        |        |        |        |       |          |  | 1.63 |
| 1VP68   | 6.55 | 1.91           | 7.3    |             | 127408 | 121241 | 121242 | 121243 | 121244 | 121246 | 121247 |       |          |  | 1.63 |
| 1VP71   | 7.10 | 1.66           | 8.5    |             |        | 127409 | 127410 |        |        |        |        |       |          |  | 1.63 |
| 1VP75   | 7.50 | 1.66           | 9.2    |             |        | 121248 | 121249 |        | 121251 |        |        |       |          |  | 1.63 |



TWO GROOVE

| SHV NO. | O.D. | Overall Length | WT LBS | Stock Bores |        |        |        |        |        |        |        |        | MAX BORE |  |      |
|---------|------|----------------|--------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--|------|
|         |      |                |        | 1/2         | 5/8    | 3/4    | 7/8    | 1      | 1-1/8  | 1-1/4  | 1-3/8  | 1-5/8  |          |  |      |
| 2VP36   | 3.35 | 3.00           | 3.4    | 127412      | 127413 | 127414 | 127415 | 127416 |        |        |        |        |          |  | 1.13 |
| 2VP42   | 3.95 | 3.00           | 4.4    |             | 127417 | 127418 | 127419 | 127420 | 127421 |        |        |        |          |  | 1.13 |
| 2VP50   | 4.75 | 3.00           | 6.3    |             | 121266 | 121267 | 121268 | 121269 | 121270 |        |        |        |          |  | 1.13 |
| 2VP56   | 5.35 | 3.00           | 7.8    |             | 121271 | 121272 | 121273 | 121274 | 121275 |        |        |        |          |  | 1.63 |
| 2VP60   | 6.00 | 3.25           | 10.6   |             |        | 127431 | 127432 |        |        |        |        | 127435 | 127444   |  | 1.63 |
| 2VP62   | 5.95 | 3.00           | 11.0   |             |        | 121276 | 121277 | 121278 | 121279 | 127422 | 121295 |        |          |  | 1.63 |
| 2VP65   | 6.50 | 3.25           | 12.3   |             |        | 127423 | 127424 |        | 127425 |        | 127426 | 127445 |          |  | 1.63 |
| 2VP68   | 6.55 | 3.00           | 12.7   |             |        |        | 121281 | 121282 | 121283 | 121285 | 121286 |        |          |  | 1.63 |
| 2VP71   | 7.10 | 3.25           | 14.6   |             |        | 127427 | 127428 |        | 127429 |        | 127430 | 127446 |          |  | 1.63 |
| 2VP75   | 7.50 | 3.25           | 16.5   |             |        | 121287 | 121288 |        | 121290 |        | 121293 | 127447 |          |  | 1.63 |

| Bore           | Keyseat     |
|----------------|-------------|
| 1/2            | None        |
| 5/8 to 7/8     | 3/16 x 3/32 |
| 15/16 to 1-1/4 | 1/4 x 1/8   |
| 1-5/16 - 1-3/8 | 5/16 x 5/32 |

|                                 |                                    |                          |  |
|---------------------------------|------------------------------------|--------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT8-2 | SELECTION/DIMENSIONS<br>PAGE PT8-3 | SELECTION<br>PAGE PT8-10 |  |
|---------------------------------|------------------------------------|--------------------------|--|



# SELECTION

## FHP Fixed Speed Drives

### PROCEDURE

- 1. Calculate the Drive Ratio:** DriveR RPM divided by DriveN RPM.
- 2. Calculate the Design Horsepower:** Multiply motor HP by the “combined Correction Factor” listed below. If the exact type of machine is not listed, use the one that most nearly matches the application.
- 3. Select DriveR Sheave:** In the HP Rating Tables, scan the RPM column for the HP rating that is equal to or greater than the Design HP calculated in Step 2. The DriveR sheave size is listed in the left-hand column. Normally the smallest diameter sheave alternative that covers the Design HP will result in the most economical drive.
- 4. Select the DriveN Sheave:** Refer to the appropriate “Ratio Table”. Choose the DriveN Sheave at the intersection of the calculated ratio and the DriveR Sheave.
- 5. Select Belt Length:** Add DriveR and DriveN sheave diameters. Locate this number on the top row of the Center Distance Table. Trace down to the desired center distance in this column. The appropriate belt length will be listed in the left hand column. Belt length is indicated by the belt nomenclature: e.g., 4L350 is 35.0” long, 5L530 is 53.0” long, B36 is 36” long, etc.

**NOTE:** This procedure will provide approximate center distance. For more accurate results, refer to the “Non-Standard Drive Selection Procedure” for S-L Classic V-Drives.

**6. Two Belt Drives:** If the Design Horsepower is greater than the belt listed belt rating, divide the DHP by two, and proceed as though it were a single belt drive. **CAUTION:** FHP belts are not matched, and are therefore not normally recommended for two-belt drives. A, B, AX, or BX belts are matched and may be substituted. Also, these classical belts may have a significantly higher HP rating, which could allow for a more economical single belt drive.

| Driven Machine         | Speed Ratio |              |
|------------------------|-------------|--------------|
|                        | Under 1.5   | 1.5 and Over |
| Fans & Blowers         | 1.0         | 0.9          |
| Domestic Laundry Mach. | 1.1         | 1.0          |
| Centrifugal Pumps      | 1.1         | 1.0          |
| Generators             | 1.2         | 1.1          |
| Rotary Compressors     | 1.3         | 1.1          |
| Machine Tools          | 1.3         | 1.2          |
| Reciprocating Pumps    | 1.4         | 1.3          |
| Recip. Compressors     | 1.4         | 1.3          |
| Woodworking Machy.     | 1.4         | 1.3          |

## Horsepower Ratings

| Small Shv. | Belt Horsepower Rating for RPM of Faster Shaft ** |      |      |      |      |      |      |      |      |      |      |      |
|------------|---|------|------|------|------|------|------|------|------|------|------|------|
|            | 1160  | 1750 | 3450 | 1000 | 1500 | 2000 | 2500 | 3000 | 3500 | 4000 | 4500 | 5000 |
| 1.50       | 0.07  | 0.09 | 0.11 | 0.07 | 0.09 | 0.10 | 0.11 | 0.11 | 0.11 | 0.11 | 0.10 | 0.09 |
| 1.75       | 0.13  | 0.17 | 0.25 | 0.12 | 0.15 | 0.19 | 0.21 | 0.23 | 0.25 | 0.26 | 0.26 | 0.26 |
| 2.00       | 0.18  | 0.25 | 0.38 | 0.16 | 0.22 | 0.27 | 0.31 | 0.35 | 0.38 | 0.40 | 0.42 | 0.42 |
| 2.25       | 0.23  | 0.32 | 0.50 | 0.21 | 0.29 | 0.35 | 0.41 | 0.46 | 0.50 | 0.54 | 0.56 | 0.57 |
| 2.50       | 0.28  | 0.39 | 0.62 | 0.25 | 0.35 | 0.43 | 0.51 | 0.57 | 0.62 | 0.66 | 0.68 | 0.69 |
| 2.75       | 0.34  | 0.46 | 0.73 | 0.30 | 0.41 | 0.51 | 0.60 | 0.68 | 0.74 | 0.78 | 0.80 | 0.80 |
| 3.00       | 0.39  | 0.54 | 0.83 | 0.34 | 0.47 | 0.59 | 0.69 | 0.78 | 0.84 | 0.88 | 0.90 | 0.89 |

\*\*Synchronous belt drives are suggested for lower RPM's.

(continued next page)

|                                 |                                    |                          |  |
|---------------------------------|------------------------------------|--------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT8-2 | SELECTION/DIMENSIONS<br>PAGE PT8-3 | SELECTION<br>PAGE PT8-10 |  |
|---------------------------------|------------------------------------|--------------------------|--|





# SELECTION

## Horsepower Ratings

### 4L, A, AX Section Belts

| Small Shv. O.D. | Belt Section | Belt Horsepower Rating for RPM of Faster Shaft ** |      |      |      |      |      |      |      |      |      |      |      |
|-----------------|--------------|---|------|------|------|------|------|------|------|------|------|------|------|
|                 |              | 1160  | 1750 | 3450 | 1000 | 1500 | 2000 | 2500 | 3000 | 3500 | 4000 | 4500 | 5000 |
| 2.00*           | 4L           | 0.12  | 0.12 | 0.02 | 0.11 | 0.12 | 0.11 | 0.09 | 0.06 | 0.02 | -    | -    | -    |
|                 | A            | -   | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
|                 | AX           | -   | 1.24 | 1.40 | -    | -    | 1.30 | 1.38 | 1.42 | 1.40 | 1.35 | 1.25 | 1.08 |
| 2.25*           | 4L           | 0.23  | 0.28 | 0.30 | 0.21 | 0.26 | 0.30 | 0.31 | 0.31 | 0.30 | 0.27 | 0.22 | 0.15 |
|                 | A            | -   | 1.17 | 1.60 | -    | -    | 1.26 | 1.40 | 1.52 | 1.60 | 1.64 | 1.65 | 1.62 |
|                 | AX           | -   | 1.58 | 1.98 | -    | 1.23 | 1.68 | 1.83 | 1.94 | 1.98 | 1.98 | 1.92 | 1.82 |
| 2.50            | 4L           | 0.34  | 0.44 | 0.57 | 0.31 | 0.40 | 0.47 | 0.53 | 0.56 | 0.57 | 0.56 | 0.54 | 0.47 |
|                 | A            | -   | 1.55 | 2.26 | -    | 1.40 | 1.60 | 1.91 | 2.11 | 2.31 | 2.42 | 2.50 | 2.48 |
|                 | AX           | -   | 2.05 | 2.73 | -    | 1.87 | 2.19 | 2.52 | 2.69 | 2.74 | 2.83 | 2.85 | 2.83 |
| 2.75            | 4L           | 0.45  | 0.60 | 0.83 | 0.41 | 0.54 | 0.65 | 0.73 | 0.79 | 0.83 | 0.83 | 0.81 | 0.78 |
|                 | A            | -   | 1.92 | 2.61 | -    | 1.74 | 2.21 | 2.39 | 2.68 | 2.89 | 3.03 | 3.12 | 3.18 |
|                 | AX           | -   | 2.50 | 3.53 | -    | 2.31 | 2.72 | 3.13 | 3.40 | 3.57 | 3.70 | 3.84 | 3.91 |
| 3.00            | 4L           | 0.56  | 0.75 | 1.07 | 0.50 | 0.67 | 0.82 | 0.94 | 1.02 | 1.07 | 1.09 | 1.07 | 1.01 |
|                 | A            | 1.68  | 2.23 | 3.34 | -    | 1.97 | 2.42 | 2.78 | 3.09 | 3.41 | 3.52 | 3.64 | 3.67 |
|                 | AX           | 2.22  | 2.90 | 4.14 | -    | 2.63 | 3.14 | 3.58 | 3.89 | 4.01 | 4.40 | 4.59 | 4.71 |
| 3.25            | 4L           | 0.67  | 0.90 | 1.30 | 0.60 | 0.81 | 0.99 | 1.13 | 1.24 | 1.31 | 1.33 | 1.30 | 1.23 |
|                 | A            | 1.97  | 2.61 | 3.79 | -    | 2.37 | 2.85 | 3.24 | 3.57 | 3.78 | 3.95 | 4.08 | 4.11 |
|                 | AX           | 2.45  | 3.25 | 4.81 | -    | 2.88 | 3.57 | 3.94 | 4.41 | 4.78 | 5.12 | 5.31 | 5.47 |
| 3.5             | 4L           | 0.77  | 1.05 | 1.52 | 0.69 | 0.94 | 1.15 | 1.32 | 1.45 | 1.53 | 1.55 | 1.51 | 1.41 |
|                 | A            | 2.32  | 3.13 | 4.66 | 2.07 | 2.81 | 3.42 | 3.93 | 4.35 | 4.65 | 4.84 | 4.90 | 4.83 |
|                 | AX           | 2.79  | 3.68 | 5.68 | 2.51 | 3.31 | 4.01 | 4.61 | 5.19 | 5.64 | 6.08 | 6.37 | 6.54 |
| 3.75            | 4L           | 0.86  | 1.20 | 1.73 | 0.78 | 1.07 | 1.31 | 1.51 | 1.65 | 1.73 | 1.75 | 1.69 | 1.55 |
|                 | A            | 2.63  | 3.58 | 5.35 | -    | 3.17 | 3.90 | 4.51 | 4.98 | 5.31 | 5.56 | 5.67 | 5.63 |
|                 | AX           | 3.05  | 4.06 | 6.43 | -    | 3.66 | 4.44 | 5.20 | 5.87 | 6.41 | 6.87 | 7.09 | 7.40 |
| 4.00            | 4L           | 0.98  | 1.34 | 1.92 | 0.87 | 1.20 | 1.47 | 1.69 | 1.84 | 1.92 | 1.92 | 1.84 | 1.65 |
|                 | A            | 2.94  | 4.01 | 6.02 | 2.62 | 3.58 | 4.40 | 4.10 | 5.64 | 6.04 | 6.29 | 6.37 | 6.28 |
|                 | AX           | 3.34  | 4.46 | 7.14 | 3.00 | 3.95 | 4.93 | 5.78 | 6.52 | 7.13 | 7.64 | 7.98 | 8.19 |

### 5L, B, BX Section Belts

| Small Shv. O.D. | Belt Section | Belt Horsepower Rating for RPM of Faster Shaft ** |      |       |      |      |      |       |       |       |       |       |       |
|-----------------|--------------|---|------|-------|------|------|------|-------|-------|-------|-------|-------|-------|
|                 |              | 1160  | 1750 | 3450  | 1000 | 1500 | 2000 | 2500  | 3000  | 3500  | 4000  | 4500  | 5000  |
| 3.00*           | 5L           | 0.28  | 0.27 | -     | 0.27 | 0.28 | 0.24 | 0.16  | 0.04  | -     | -     | -     | -     |
|                 | B            | 1.35  | 1.58 | 1.28  | -    | 1.51 | 1.62 | 1.61  | 1.50  | 1.27  | 0.95  | 0.45  | -     |
|                 | BX           | 2.90  | 3.72 | 5.16  | -    | 3.38 | 4.02 | 4.51  | 4.90  | 5.15  | 5.31  | 5.33  | 5.25  |
| 3.25*           | 5L           | 0.46  | 0.52 | 0.28  | 0.43 | 0.50 | 1.52 | 0.49  | 0.41  | 0.26  | 0.04  | -     | -     |
|                 | B            | 1.72  | 2.03 | 2.00  | -    | 1.89 | 2.18 | 2.22  | 2.17  | 1.98  | 1.75  | 1.25  | 0.75  |
|                 | BX           | 3.29  | 4.20 | 5.92  | -    | 3.81 | 4.50 | 5.15  | 5.59  | 5.85  | 6.12  | 6.18  | 6.15  |
| 3.50            | 5L           | 0.63  | 0.77 | 0.65  | 0.58 | 0.72 | 0.80 | 0.82  | 0.76  | 0.63  | 0.42  | 0.12  | -     |
|                 | B            | 2.20  | 2.67 | 3.05  | 1.80 | 2.45 | 2.80 | 3.05  | 3.12  | 3.14  | 3.84  | 2.36  | 1.82  |
|                 | BX           | 3.76  | 4.77 | 6.87  | 2.87 | 4.37 | 5.20 | 5.91  | 6.51  | 6.92  | 7.15  | 7.26  | 7.16  |
| 3.75            | 5L           | 0.81  | 1.01 | 1.00  | 0.74 | 0.94 | 1.07 | 1.13  | 1.10  | 0.99  | 0.77  | 0.44  | -     |
|                 | B            | 2.61  | 3.31 | 4.01  | 2.33 | 2.98 | 3.52 | 3.87  | 4.02  | 4.03  | 3.81  | 3.38  | 2.75  |
|                 | BX           | 4.22  | 5.45 | 7.85  | 3.70 | 4.83 | 5.87 | 6.60  | 7.40  | 7.92  | 8.12  | 8.35  | 8.20  |
| 4.00            | 5L           | 0.98  | 1.25 | 1.33  | 0.89 | 1.15 | 1.33 | 1.43  | 1.43  | 1.31  | 1.08  | 0.71  | 0.19  |
|                 | B            | 3.00  | 3.77 | 4.70  | 2.66 | 3.40 | 4.04 | 4.45  | 4.68  | 4.70  | 4.43  | 4.03  | 3.39  |
|                 | BX           | 4.58  | 5.93 | 8.57  | 4.02 | 5.32 | 6.46 | 7.35  | 8.07  | 8.53  | 8.88  | 8.97  | 8.92  |
| 4.25            | 5L           | 1.15  | 1.49 | 1.63  | 1.04 | 1.36 | 1.59 | 1.72  | 1.73  | 1.62  | 1.35  | 0.93  | 0.33  |
|                 | B            | 3.35  | 4.19 | 5.32  | 2.95 | 3.81 | 4.53 | 5.05  | 5.31  | 5.35  | 5.18  | 5.65  | 3.95  |
|                 | BX           | 4.98  | 6.39 | 9.23  | 4.42 | 5.74 | 7.06 | 7.91  | 8.71  | 9.19  | 9.61  | 9.60  | 9.58  |
| 4.50            | 5L           | 1.32  | 1.72 | 1.91  | 1.19 | 1.57 | 1.84 | 2.00  | 2.02  | 1.89  | 1.59  | 1.10  | 0.39  |
|                 | B            | 3.81  | 4.87 | 5.31  | 3.81 | 4.41 | 5.26 | 5.73  | 6.12  | 6.23  | 5.98  | 5.41  | 4.52  |
|                 | BX           | 5.37  | 6.99 | 10.12 | 4.71 | 6.28 | 7.61 | 8.66  | 9.52  | 10.12 | 10.52 | 10.62 | 10.45 |
| 4.75            | 5L           | 1.49  | 1.95 | 2.16  | 1.34 | 1.77 | 2.09 | 2.27  | 2.29  | 2.14  | 1.79  | 1.21  | 0.38  |
|                 | B            | 4.38  | 5.61 | 7.00  | 3.82 | 5.14 | 6.01 | 6.70  | 7.01  | 7.00  | 6.71  | 6.04  | 5.04  |
|                 | BX           | 5.80  | 7.54 | 12.02 | 5.06 | 6.82 | 8.20 | 9.51  | 10.50 | 11.41 | 11.75 | 11.90 | 11.46 |
| 5.00            | 5L           | 1.66  | 2.17 | 2.39  | 1.49 | 1.98 | 2.33 | 2.53  | 2.55  | 2.36  | 1.94  | 1.26  | 0.28  |
|                 | B            | 4.75  | 6.16 | 7.69  | 4.21 | 5.57 | 6.65 | 7.35  | 7.74  | 7.69  | 7.25  | 6.54  | -     |
|                 | BX           | 6.15  | 8.08 | 12.28 | 5.38 | 7.29 | 8.90 | 10.59 | 11.47 | 12.30 | 12.73 | 12.76 | -     |

NOTES: \* These sizes are below min. recommended diameter

\*\* Synchronous belt drives are suggested for lower RPM's.

|                                 |                                    |                          |  |
|---------------------------------|------------------------------------|--------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT8-2 | SELECTION/DIMENSIONS<br>PAGE PT8-3 | SELECTION<br>PAGE PT8-10 |  |
|---------------------------------|------------------------------------|--------------------------|--|



# SELECTION

## Ratio Table

### AK, 2AK, AKQT, 2AKQT Sheave SERIES

| Driven Shv. | Driver Sheave |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|             | AK20          | AK21 | AK22 | AK23 | AK25 | AK26 | AK27 | AK28 | AK30 | AK32 | AK34 | AK39 | AK41 | AK44 | AK46 | AK49 | AK51 | AK54 |
| AK20        | 1.00          | 0.95 | 0.90 | 0.86 | 0.78 | 0.75 | 0.72 | 0.69 | 0.64 | 0.60 | 0.56 | 0.51 | 0.49 | 0.45 | 0.43 | 0.40 | 0.38 | 0.36 |
| AK21        | 1.06          | 1.00 | 0.95 | 0.90 | 0.83 | 0.79 | 0.76 | 0.73 | 0.68 | 0.63 | 0.59 | 0.54 | 0.51 | 0.48 | 0.45 | 0.42 | 0.40 | 0.38 |
| AK22        | 1.11          | 1.05 | 1.00 | 0.95 | 0.87 | 0.83 | 0.80 | 0.77 | 0.71 | 0.67 | 0.63 | 0.57 | 0.54 | 0.50 | 0.48 | 0.44 | 0.43 | 0.40 |
| AK23        | 1.17          | 1.11 | 1.05 | 1.00 | 0.91 | 0.88 | 0.84 | 0.81 | 0.75 | 0.70 | 0.66 | 0.60 | 0.57 | 0.53 | 0.50 | 0.47 | 0.45 | 0.42 |
| AK25        | 1.28          | 1.21 | 1.15 | 1.10 | 1.00 | 0.96 | 0.92 | 0.88 | 0.82 | 0.77 | 0.72 | 0.66 | 0.62 | 0.58 | 0.55 | 0.51 | 0.49 | 0.46 |
| AK26        | 1.33          | 1.26 | 1.20 | 1.14 | 1.04 | 1.00 | 0.96 | 0.92 | 0.86 | 0.80 | 0.75 | 0.69 | 0.65 | 0.60 | 0.57 | 0.53 | 0.51 | 0.48 |
| AK27        | 1.39          | 1.32 | 1.25 | 1.19 | 1.09 | 1.04 | 1.00 | 0.96 | 0.89 | 0.83 | 0.78 | 0.71 | 0.68 | 0.63 | 0.60 | 0.56 | 0.53 | 0.50 |
| AK28        | 1.44          | 1.37 | 1.30 | 1.24 | 1.13 | 1.08 | 1.04 | 1.00 | 0.93 | 0.87 | 0.81 | 0.74 | 0.70 | 0.65 | 0.62 | 0.58 | 0.55 | 0.52 |
| AK30        | 1.56          | 1.47 | 1.40 | 1.33 | 1.22 | 1.17 | 1.12 | 1.08 | 1.00 | 0.93 | 0.88 | 0.80 | 0.76 | 0.70 | 0.67 | 0.62 | 0.60 | 0.56 |
| AK32        | 1.67          | 1.58 | 1.50 | 1.43 | 1.30 | 1.25 | 1.20 | 1.15 | 1.07 | 1.00 | 0.94 | 0.86 | 0.81 | 0.75 | 0.71 | 0.67 | 0.64 | 0.60 |
| AK34        | 1.78          | 1.68 | 1.60 | 1.52 | 1.39 | 1.33 | 1.28 | 1.23 | 1.14 | 1.07 | 1.00 | 0.91 | 0.86 | 0.80 | 0.76 | 0.71 | 0.68 | 0.64 |
| AK39        | 1.94          | 1.84 | 1.75 | 1.67 | 1.52 | 1.46 | 1.40 | 1.35 | 1.25 | 1.17 | 1.09 | 1.00 | 0.95 | 0.88 | 0.83 | 0.78 | 0.74 | 0.70 |
| AK41        | 2.06          | 1.95 | 1.85 | 1.76 | 1.61 | 1.54 | 1.48 | 1.42 | 1.32 | 1.23 | 1.16 | 1.06 | 1.00 | 0.93 | 0.88 | 0.82 | 0.79 | 0.74 |
| AK44        | 2.22          | 2.11 | 2.00 | 1.90 | 1.74 | 1.67 | 1.60 | 1.54 | 1.43 | 1.33 | 1.25 | 1.14 | 1.08 | 1.00 | 0.95 | 0.89 | 0.85 | 0.80 |
| AK46        | 2.33          | 2.21 | 2.10 | 2.00 | 1.83 | 1.75 | 1.68 | 1.62 | 1.50 | 1.40 | 1.31 | 1.20 | 1.14 | 1.05 | 1.00 | 0.93 | 0.89 | 0.84 |
| AK49        | 2.50          | 2.37 | 2.25 | 2.14 | 1.96 | 1.88 | 1.80 | 1.73 | 1.61 | 1.50 | 1.41 | 1.29 | 1.22 | 1.13 | 1.07 | 1.00 | 0.96 | 0.90 |
| AK51        | 2.61          | 2.47 | 2.35 | 2.24 | 2.04 | 1.96 | 1.88 | 1.81 | 1.68 | 1.57 | 1.47 | 1.34 | 1.27 | 1.18 | 1.12 | 1.04 | 1.00 | 0.94 |
| AK54        | 2.72          | 2.58 | 2.45 | 2.33 | 2.13 | 2.04 | 1.96 | 1.88 | 1.75 | 1.63 | 1.53 | 1.40 | 1.32 | 1.23 | 1.17 | 1.09 | 1.04 | 0.98 |
| AK56        | 2.89          | 2.74 | 2.60 | 2.48 | 2.26 | 2.17 | 2.08 | 2.00 | 1.86 | 1.73 | 1.63 | 1.49 | 1.41 | 1.30 | 1.24 | 1.16 | 1.11 | 1.04 |
| AK59        | 3.06          | 2.89 | 2.75 | 2.62 | 2.39 | 2.29 | 2.20 | 2.12 | 1.96 | 1.83 | 1.72 | 1.57 | 1.49 | 1.38 | 1.31 | 1.22 | 1.17 | 1.10 |
| AK61        | 3.17          | 3.00 | 2.85 | 2.71 | 2.48 | 2.37 | 2.28 | 2.19 | 2.04 | 1.90 | 1.78 | 1.63 | 1.54 | 1.43 | 1.36 | 1.27 | 1.21 | 1.14 |
| AK64        | 3.33          | 3.16 | 3.00 | 2.86 | 2.61 | 2.50 | 2.40 | 2.31 | 2.14 | 2.00 | 1.88 | 1.71 | 1.62 | 1.50 | 1.43 | 1.33 | 1.28 | 1.20 |
| AK66        | 3.44          | 3.26 | 3.10 | 2.95 | 2.70 | 2.58 | 2.48 | 2.38 | 2.21 | 2.07 | 1.94 | 1.77 | 1.68 | 1.55 | 1.48 | 1.38 | 1.32 | 1.24 |
| AK69        | 3.61          | 3.42 | 3.25 | 3.10 | 2.83 | 2.71 | 2.60 | 2.50 | 2.32 | 2.17 | 2.03 | 1.86 | 1.76 | 1.63 | 1.55 | 1.44 | 1.38 | 1.30 |
| AK71        | 3.72          | 3.53 | 3.35 | 3.19 | 2.91 | 2.79 | 2.68 | 2.58 | 2.39 | 2.23 | 2.09 | 1.91 | 1.81 | 1.68 | 1.60 | 1.49 | 1.43 | 1.34 |
| AK74        | 3.89          | 3.68 | 3.50 | 3.33 | 3.04 | 2.92 | 2.80 | 2.69 | 2.50 | 2.33 | 2.19 | 2.00 | 1.89 | 1.75 | 1.67 | 1.56 | 1.49 | 1.40 |
| AK79        | 4.17          | 3.95 | 3.75 | 3.57 | 3.26 | 3.13 | 3.00 | 2.88 | 2.68 | 2.50 | 2.34 | 2.14 | 2.03 | 1.88 | 1.79 | 1.67 | 1.60 | 1.50 |
| AK84        | 4.44          | 4.21 | 4.00 | 3.81 | 3.48 | 3.33 | 3.20 | 3.08 | 2.86 | 2.67 | 2.50 | 2.29 | 2.16 | 2.00 | 1.90 | 1.78 | 1.70 | 1.60 |
| AK89        | 4.72          | 4.47 | 4.25 | 4.05 | 3.70 | 3.54 | 3.40 | 3.27 | 3.04 | 2.83 | 2.66 | 2.43 | 2.30 | 2.13 | 2.02 | 1.89 | 1.81 | 1.70 |
| AK94        | 5.00          | 4.74 | 4.50 | 4.29 | 3.91 | 3.75 | 3.60 | 3.46 | 3.21 | 3.00 | 2.81 | 2.57 | 2.43 | 2.25 | 2.14 | 2.00 | 1.91 | 1.80 |
| AK99        | 5.28          | 5.00 | 4.75 | 4.52 | 4.13 | 3.96 | 3.80 | 3.65 | 3.39 | 3.17 | 2.97 | 2.71 | 2.57 | 2.38 | 2.26 | 2.11 | 2.02 | 1.90 |
| AK104       | 5.56          | 5.26 | 5.00 | 4.76 | 4.35 | 4.17 | 4.00 | 3.85 | 3.57 | 3.33 | 3.13 | 2.86 | 2.70 | 2.50 | 2.38 | 2.22 | 2.13 | 2.00 |
| AK109       | 5.89          | 5.58 | 5.30 | 5.05 | 4.61 | 4.42 | 4.24 | 4.08 | 3.79 | 3.53 | 3.31 | 3.03 | 2.86 | 2.65 | 2.52 | 2.36 | 2.26 | 2.12 |
| AK114       | 6.11          | 5.79 | 5.50 | 5.24 | 4.78 | 4.58 | 4.40 | 4.23 | 3.93 | 3.67 | 3.44 | 3.14 | 2.97 | 2.75 | 2.62 | 2.44 | 2.34 | 2.20 |
| AK124       | 6.67          | 6.32 | 6.00 | 5.71 | 5.22 | 5.00 | 4.80 | 4.62 | 4.29 | 4.00 | 3.75 | 3.43 | 3.24 | 3.00 | 2.86 | 2.67 | 2.55 | 2.40 |
| AK134       | 7.22          | 6.84 | 6.50 | 6.19 | 5.65 | 5.42 | 5.20 | 5.00 | 4.64 | 4.33 | 4.06 | 3.71 | 3.51 | 3.25 | 3.10 | 2.89 | 2.77 | 2.60 |
| AK144       | 7.78          | 7.37 | 7.00 | 6.67 | 6.09 | 5.83 | 5.60 | 5.38 | 5.00 | 4.67 | 4.38 | 4.00 | 3.78 | 3.50 | 3.33 | 3.11 | 2.98 | 2.80 |
| AK154       | 8.33          | 7.89 | 7.50 | 7.14 | 6.52 | 6.25 | 6.00 | 5.77 | 5.36 | 5.00 | 4.69 | 4.29 | 4.05 | 3.75 | 3.57 | 3.33 | 3.19 | 3.00 |
| AK184       | 10.0          | 9.47 | 9.00 | 8.57 | 7.83 | 7.50 | 7.20 | 6.92 | 6.43 | 6.00 | 5.63 | 5.14 | 4.86 | 4.50 | 4.29 | 4.00 | 3.83 | 3.60 |

FEATURES/BENEFITS  
PAGE PT8-2

SELECTION/DIMENSIONS  
PAGE PT8-3

SELECTION  
PAGE PT8-10

V-Drives

FHP Drives

Drive Component  
Accessories

DVNA-SYNC

HT200/HTD  
Synchronous Drives

HT500  
Synchronous Drives

Roller Chain Sprockets

# SELECTION



## Ratio Table

| BK, 2BK, BKQT, 2BKQT SERIES |               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------------------|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Driven Shv.                 | Driver Sheave |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                             | BK23          | BK24 | BK25 | BK26 | BK27 | BK28 | BK30 | BK31 | BK32 | BK34 | BK36 | BK40 | BK45 | BK47 | BK50 | BK52 | BK55 | BK57 | BK60 | BK62 | BK65 |
| BK23                        | 1.00          | 0.95 | 0.91 | 0.88 | 0.84 | 0.81 | 0.75 | 0.72 | 0.70 | 0.66 | 0.62 | 0.58 | 0.54 | 0.51 | 0.48 | 0.46 | 0.43 | 0.41 | 0.39 | 0.38 | 0.36 |
| BK24                        | 1.05          | 1.00 | 0.96 | 0.92 | 0.88 | 0.85 | 0.79 | 0.76 | 0.73 | 0.69 | 0.65 | 0.61 | 0.56 | 0.54 | 0.50 | 0.48 | 0.45 | 0.43 | 0.41 | 0.39 | 0.37 |
| BK25                        | 1.10          | 1.05 | 1.00 | 0.96 | 0.92 | 0.88 | 0.82 | 0.79 | 0.77 | 0.72 | 0.68 | 0.64 | 0.59 | 0.56 | 0.52 | 0.50 | 0.47 | 0.45 | 0.43 | 0.41 | 0.39 |
| BK26                        | 1.14          | 1.09 | 1.04 | 1.00 | 0.96 | 0.92 | 0.86 | 0.83 | 0.80 | 0.75 | 0.71 | 0.67 | 0.62 | 0.59 | 0.55 | 0.52 | 0.49 | 0.47 | 0.44 | 0.43 | 0.41 |
| BK27                        | 1.19          | 1.14 | 1.09 | 1.04 | 1.00 | 0.96 | 0.89 | 0.86 | 0.83 | 0.78 | 0.74 | 0.69 | 0.64 | 0.61 | 0.57 | 0.54 | 0.51 | 0.49 | 0.46 | 0.45 | 0.42 |
| BK28                        | 1.24          | 1.18 | 1.13 | 1.08 | 1.04 | 1.00 | 0.93 | 0.90 | 0.87 | 0.81 | 0.76 | 0.72 | 0.67 | 0.63 | 0.59 | 0.57 | 0.53 | 0.51 | 0.48 | 0.46 | 0.44 |
| BK30                        | 1.33          | 1.27 | 1.22 | 1.17 | 1.12 | 1.08 | 1.00 | 0.97 | 0.93 | 0.88 | 0.82 | 0.78 | 0.72 | 0.68 | 0.64 | 0.61 | 0.57 | 0.55 | 0.52 | 0.50 | 0.47 |
| BK31                        | 1.38          | 1.32 | 1.26 | 1.21 | 1.16 | 1.12 | 1.04 | 1.00 | 0.97 | 0.91 | 0.85 | 0.81 | 0.74 | 0.71 | 0.66 | 0.63 | 0.59 | 0.57 | 0.54 | 0.52 | 0.49 |
| BK32                        | 1.43          | 1.36 | 1.30 | 1.25 | 1.20 | 1.15 | 1.07 | 1.03 | 1.00 | 0.94 | 0.88 | 0.83 | 0.77 | 0.73 | 0.68 | 0.65 | 0.61 | 0.59 | 0.56 | 0.54 | 0.51 |
| BK34                        | 1.52          | 1.45 | 1.39 | 1.33 | 1.28 | 1.23 | 1.14 | 1.10 | 1.07 | 1.00 | 0.94 | 0.89 | 0.82 | 0.78 | 0.73 | 0.70 | 0.65 | 0.63 | 0.59 | 0.57 | 0.54 |
| BK36                        | 1.62          | 1.55 | 1.48 | 1.42 | 1.36 | 1.31 | 1.21 | 1.17 | 1.13 | 1.06 | 1.00 | 0.94 | 0.87 | 0.83 | 0.77 | 0.74 | 0.69 | 0.67 | 0.63 | 0.61 | 0.58 |
| BK40                        | 1.71          | 1.64 | 1.57 | 1.50 | 1.44 | 1.38 | 1.29 | 1.24 | 1.20 | 1.13 | 1.06 | 1.00 | 0.92 | 0.88 | 0.82 | 0.78 | 0.73 | 0.71 | 0.67 | 0.64 | 0.61 |
| BK45                        | 1.86          | 1.77 | 1.70 | 1.63 | 1.56 | 1.50 | 1.39 | 1.34 | 1.30 | 1.22 | 1.15 | 1.08 | 1.00 | 0.95 | 0.89 | 0.85 | 0.80 | 0.76 | 0.72 | 0.70 | 0.66 |
| BK47                        | 1.95          | 1.86 | 1.78 | 1.71 | 1.64 | 1.58 | 1.46 | 1.41 | 1.37 | 1.28 | 1.21 | 1.14 | 1.05 | 1.00 | 0.93 | 0.89 | 0.84 | 0.80 | 0.76 | 0.73 | 0.69 |
| BK50                        | 2.10          | 2.00 | 1.91 | 1.83 | 1.76 | 1.69 | 1.57 | 1.52 | 1.47 | 1.38 | 1.29 | 1.22 | 1.13 | 1.07 | 1.00 | 0.96 | 0.90 | 0.86 | 0.81 | 0.79 | 0.75 |
| BK52                        | 2.19          | 2.09 | 2.00 | 1.92 | 1.84 | 1.77 | 1.64 | 1.59 | 1.53 | 1.44 | 1.35 | 1.28 | 1.18 | 1.12 | 1.05 | 1.00 | 0.94 | 0.90 | 0.85 | 0.82 | 0.78 |
| BK55                        | 2.33          | 2.23 | 2.13 | 2.04 | 1.96 | 1.88 | 1.75 | 1.69 | 1.63 | 1.53 | 1.44 | 1.36 | 1.26 | 1.20 | 1.11 | 1.07 | 1.00 | 0.96 | 0.91 | 0.88 | 0.83 |
| BK57                        | 2.43          | 2.32 | 2.22 | 2.12 | 2.04 | 1.96 | 1.82 | 1.76 | 1.70 | 1.59 | 1.50 | 1.42 | 1.31 | 1.24 | 1.16 | 1.11 | 1.04 | 1.00 | 0.94 | 0.91 | 0.86 |
| BK60                        | 2.57          | 2.45 | 2.35 | 2.25 | 2.16 | 2.08 | 1.93 | 1.86 | 1.80 | 1.69 | 1.59 | 1.50 | 1.38 | 1.32 | 1.23 | 1.17 | 1.10 | 1.06 | 1.00 | 0.96 | 0.92 |
| BK62                        | 2.67          | 2.55 | 2.43 | 2.33 | 2.24 | 2.15 | 2.00 | 1.93 | 1.87 | 1.75 | 1.65 | 1.56 | 1.44 | 1.37 | 1.27 | 1.22 | 1.14 | 1.10 | 1.04 | 1.00 | 0.95 |
| BK65                        | 2.81          | 2.68 | 2.57 | 2.46 | 2.36 | 2.27 | 2.11 | 2.03 | 1.97 | 1.84 | 1.74 | 1.64 | 1.51 | 1.44 | 1.34 | 1.28 | 1.20 | 1.16 | 1.09 | 1.05 | 1.00 |
| BK67                        | 2.90          | 2.77 | 2.65 | 2.54 | 2.44 | 2.35 | 2.18 | 2.10 | 2.03 | 1.91 | 1.79 | 1.69 | 1.56 | 1.49 | 1.39 | 1.33 | 1.24 | 1.20 | 1.13 | 1.09 | 1.03 |
| BK70                        | 3.05          | 2.91 | 2.78 | 2.67 | 2.56 | 2.46 | 2.29 | 2.21 | 2.13 | 2.00 | 1.88 | 1.78 | 1.64 | 1.56 | 1.45 | 1.39 | 1.31 | 1.25 | 1.19 | 1.14 | 1.08 |
| BK72                        | 3.14          | 3.00 | 2.87 | 2.75 | 2.64 | 2.54 | 2.36 | 2.28 | 2.20 | 2.06 | 1.94 | 1.83 | 1.69 | 1.61 | 1.50 | 1.43 | 1.35 | 1.29 | 1.22 | 1.18 | 1.12 |
| BK75                        | 3.29          | 3.14 | 3.00 | 2.88 | 2.76 | 2.65 | 2.46 | 2.38 | 2.30 | 2.16 | 2.03 | 1.92 | 1.77 | 1.68 | 1.57 | 1.50 | 1.41 | 1.35 | 1.28 | 1.23 | 1.17 |
| BK77                        | 3.38          | 3.23 | 3.09 | 2.96 | 2.84 | 2.73 | 2.54 | 2.45 | 2.37 | 2.22 | 2.09 | 1.97 | 1.82 | 1.73 | 1.61 | 1.54 | 1.45 | 1.39 | 1.31 | 1.27 | 1.20 |
| BK80                        | 3.52          | 3.36 | 3.22 | 3.08 | 2.96 | 2.85 | 2.64 | 2.55 | 2.47 | 2.31 | 2.18 | 2.06 | 1.90 | 1.80 | 1.68 | 1.61 | 1.51 | 1.45 | 1.37 | 1.32 | 1.25 |
| BK85                        | 3.76          | 3.59 | 3.43 | 3.29 | 3.16 | 3.04 | 2.82 | 2.72 | 2.63 | 2.47 | 2.32 | 2.19 | 2.03 | 1.93 | 1.80 | 1.72 | 1.61 | 1.55 | 1.46 | 1.41 | 1.34 |
| BK90                        | 4.00          | 3.82 | 3.65 | 3.50 | 3.36 | 3.23 | 3.00 | 2.90 | 2.80 | 2.63 | 2.47 | 2.33 | 2.15 | 2.05 | 1.91 | 1.83 | 1.71 | 1.65 | 1.56 | 1.50 | 1.42 |
| BK95                        | 4.24          | 4.05 | 3.87 | 3.71 | 3.56 | 3.42 | 3.18 | 3.07 | 2.97 | 2.78 | 2.62 | 2.47 | 2.28 | 2.17 | 2.02 | 1.93 | 1.82 | 1.75 | 1.65 | 1.59 | 1.51 |
| BK100                       | 4.48          | 4.27 | 4.09 | 3.92 | 3.76 | 3.62 | 3.36 | 3.24 | 3.13 | 2.94 | 2.76 | 2.61 | 2.41 | 2.29 | 2.14 | 2.04 | 1.92 | 1.84 | 1.74 | 1.68 | 1.59 |
| BK105                       | 4.71          | 4.50 | 4.30 | 4.12 | 3.96 | 3.81 | 3.54 | 3.41 | 3.30 | 3.09 | 2.91 | 2.75 | 2.54 | 2.41 | 2.25 | 2.15 | 2.02 | 1.94 | 1.83 | 1.77 | 1.68 |
| BK110                       | 4.95          | 4.73 | 4.52 | 4.33 | 4.16 | 4.00 | 3.71 | 3.59 | 3.47 | 3.25 | 3.06 | 2.89 | 2.67 | 2.54 | 2.36 | 2.26 | 2.12 | 2.04 | 1.93 | 1.86 | 1.76 |
| BK115                       | 5.19          | 4.95 | 4.74 | 4.54 | 4.36 | 4.19 | 3.89 | 3.76 | 3.63 | 3.41 | 3.21 | 3.03 | 2.79 | 2.66 | 2.48 | 2.37 | 2.22 | 2.14 | 2.02 | 1.95 | 1.85 |
| BK120                       | 5.43          | 5.18 | 4.96 | 4.75 | 4.56 | 4.38 | 4.07 | 3.93 | 3.80 | 3.56 | 3.35 | 3.17 | 2.92 | 2.78 | 2.59 | 2.48 | 2.33 | 2.24 | 2.11 | 2.04 | 1.93 |
| BK130                       | 5.90          | 5.64 | 5.39 | 5.17 | 4.96 | 4.77 | 4.43 | 4.28 | 4.13 | 3.88 | 3.65 | 3.44 | 3.18 | 3.02 | 2.82 | 2.70 | 2.53 | 2.43 | 2.30 | 2.21 | 2.10 |
| BK140                       | 6.38          | 6.09 | 5.83 | 5.58 | 5.36 | 5.15 | 4.79 | 4.62 | 4.47 | 4.19 | 3.94 | 3.72 | 3.44 | 3.27 | 3.05 | 2.91 | 2.73 | 2.63 | 2.48 | 2.39 | 2.27 |
| BK160                       | 7.33          | 7.00 | 6.70 | 6.42 | 6.16 | 5.92 | 5.50 | 5.31 | 5.13 | 4.81 | 4.53 | 4.28 | 3.95 | 3.76 | 3.50 | 3.35 | 3.14 | 3.02 | 2.85 | 2.75 | 2.61 |
| BK190                       | 8.76          | 8.36 | 8.00 | 7.67 | 7.36 | 7.08 | 6.57 | 6.34 | 6.13 | 5.75 | 5.41 | 5.11 | 4.72 | 4.49 | 4.18 | 4.00 | 3.76 | 3.61 | 3.41 | 3.29 | 3.12 |

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets

|                                 |                                    |                          |  |
|---------------------------------|------------------------------------|--------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT8-2 | SELECTION/DIMENSIONS<br>PAGE PT8-3 | SELECTION<br>PAGE PT8-10 |  |
|---------------------------------|------------------------------------|--------------------------|--|



# SELECTION

## Center Distance/Belt Length

This table provides approximate center distance for the majority of V-Drives up to 3:1 ratio.

Data is useful for higher ratios, but if more accurate results are required, use the belt length formula found in the "Special Drives" selection section for S-L Classic drives.

| Belt Lgth. | Sum of Both V-Belt Sheave Diameters |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |  |
|------------|-------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|
|            | 4                                   | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   |  |  |  |
| 16         | 4.9                                 | 4.1  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |  |
| 18         | 5.9                                 | 5.1  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |  |
| 20         | 6.9                                 | 6.1  | 5.2  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |  |
| 22         | 7.9                                 | 7.1  | 6.2  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |  |
| 24         | 8.9                                 | 8.1  | 7.2  | 6.3  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |  |
| 26         | 9.9                                 | 9.1  | 8.2  | 7.3  | 6.5  |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |  |
| 28         | 10.9                                | 10.1 | 9.2  | 8.4  | 7.6  | 6.6  |      |      |      |      |      |      |      |      |      |      |      |      |  |  |  |
| 30         | 11.9                                | 11.1 | 10.2 | 9.4  | 8.6  | 7.7  |      |      |      |      |      |      |      |      |      |      |      |      |  |  |  |
| 32         | 12.9                                | 12.1 | 11.2 | 10.4 | 9.6  | 8.7  | 8    |      |      |      |      |      |      |      |      |      |      |      |  |  |  |
| 34         | 13.9                                | 13.1 | 12.2 | 11.4 | 10.6 | 9.7  | 9    |      |      |      |      |      |      |      |      |      |      |      |  |  |  |
| 36         | 14.9                                | 14.1 | 13.2 | 12.4 | 11.6 | 10.7 | 10   | 9    |      |      |      |      |      |      |      |      |      |      |  |  |  |
| 38         | 15.9                                | 15.1 | 14.2 | 13.4 | 12.6 | 11.8 | 11   | 10   | 9.1  |      |      |      |      |      |      |      |      |      |  |  |  |
| 40         | 16.9                                | 16.1 | 15.3 | 14.4 | 13.6 | 12.8 | 12   | 11.1 | 10.1 |      |      |      |      |      |      |      |      |      |  |  |  |
| 42         | 17.9                                | 17.1 | 16.3 | 15.4 | 14.6 | 13.8 | 13.1 | 12.1 | 11.2 | 10.2 |      |      |      |      |      |      |      |      |  |  |  |
| 44         | 18.9                                | 18.1 | 17.3 | 16.4 | 15.6 | 14.8 | 14.1 | 13.1 | 12.2 | 11.2 |      |      |      |      |      |      |      |      |  |  |  |
| 46         | 19.9                                | 19.1 | 18.3 | 17.4 | 16.6 | 15.8 | 15.1 | 14.1 | 13.2 | 12.3 | 10.9 |      |      |      |      |      |      |      |  |  |  |
| 48         | 20.9                                | 20.1 | 19.3 | 18.4 | 17.7 | 16.8 | 16.1 | 15.1 | 14.3 | 13.3 | 12   | 11.3 |      |      |      |      |      |      |  |  |  |
| 50         | 21.9                                | 21.1 | 20.3 | 19.4 | 18.7 | 17.8 | 17.1 | 16.2 | 15.3 | 14.4 | 13.1 | 12.4 | 11.7 |      |      |      |      |      |  |  |  |
| 52         | 22.9                                | 22.1 | 21.3 | 20.4 | 19.7 | 18.8 | 18.1 | 17.2 | 16.3 | 15.4 | 14.1 | 13.5 | 12.8 |      |      |      |      |      |  |  |  |
| 54         | 23.9                                | 23.1 | 22.3 | 21.4 | 20.7 | 19.8 | 19.1 | 18.2 | 17.3 | 16.4 | 15.2 | 14.5 | 13.8 | 13.2 |      |      |      |      |  |  |  |
| 56         | 24.9                                | 24.1 | 23.3 | 22.4 | 21.7 | 20.8 | 20.1 | 19.2 | 18.3 | 17.4 | 16.2 | 15.6 | 14.9 | 14.2 |      |      |      |      |  |  |  |
| 58         | 25.9                                | 25.1 | 24.3 | 23.4 | 22.7 | 21.8 | 21.1 | 20.2 | 19.3 | 18.5 | 17.3 | 16.6 | 15.9 | 15.2 | 13.5 |      |      |      |  |  |  |
| 60         | 26.9                                | 26.1 | 25.3 | 24.5 | 23.7 | 22.8 | 22.1 | 21.2 | 20.4 | 19.5 | 18.3 | 17.6 | 17   | 16.3 | 14.6 | 14   |      |      |  |  |  |
| 62         | 27.9                                | 27.1 | 26.3 | 25.5 | 24.7 | 23.8 | 23.1 | 22.2 | 21.4 | 20.5 | 19.4 | 18.7 | 18   | 17.3 | 15.7 | 15.1 |      |      |  |  |  |
| 64         | 28.9                                | 28.1 | 27.3 | 26.5 | 25.7 | 24.8 | 24.1 | 23.2 | 22.4 | 21.5 | 20.4 | 19.7 | 19   | 18.3 | 16.8 | 16.1 | 15.5 |      |  |  |  |
| 66         | 29.9                                | 29.1 | 28.3 | 27.5 | 26.7 | 25.9 | 25.1 | 24.2 | 23.4 | 22.5 | 21.4 | 20.7 | 20   | 19.3 | 17.8 | 17.2 | 16.5 | 14.9 |  |  |  |
| 68         | 30.9                                | 30.1 | 29.3 | 28.5 | 27.7 | 26.9 | 26.1 | 25.2 | 24.4 | 23.5 | 22.4 | 21.7 | 21   | 20.3 | 18.9 | 18.2 | 17.6 | 16   |  |  |  |
| 70         | 31.9                                | 31.1 | 30.3 | 29.5 | 28.7 | 27.9 | 27.1 | 26.2 | 25.4 | 24.5 | 23.5 | 22.8 | 22.1 | 21.4 | 20   | 19.3 | 18.6 | 17.1 |  |  |  |
| 72         | 32.9                                | 32.1 | 31.3 | 30.5 | 29.7 | 28.9 | 28.1 | 27.2 | 26.4 | 25.5 | 24.5 | 23.8 | 23.1 | 22.4 | 21   | 20.3 | 19.6 | 18.2 |  |  |  |
| 74         | 33.9                                | 33.1 | 32.3 | 31.5 | 30.7 | 29.9 | 29.1 | 28.2 | 27.4 | 26.5 | 25.5 | 24.8 | 24.1 | 23.4 | 22   | 21.3 | 20.6 | 19.2 |  |  |  |
| 76         | 34.9                                | 34.1 | 33.3 | 32.5 | 31.7 | 30.9 | 30.1 | 29.2 | 28.4 | 27.6 | 26.5 | 25.8 | 25.1 | 24.4 | 23.1 | 22.4 | 21.7 | 20.3 |  |  |  |
| 78         | 35.9                                | 35.1 | 34.2 | 33.5 | 32.7 | 31.9 | 31.1 | 30.2 | 29.4 | 28.6 | 27.5 | 26.8 | 26.1 | 25.4 | 24.1 | 23.4 | 22.7 | 21.3 |  |  |  |
| 80         | 36.9                                | 36.1 | 35.3 | 34.5 | 33.7 | 32.9 | 32.1 | 31.3 | 30.4 | 29.6 | 28.6 | 27.9 | 27.1 | 26.4 | 25.1 | 24.5 | 23.8 | 22.4 |  |  |  |
| 82         | 37.6                                | 36.7 | 35.9 | 35.1 | 34.3 | 33.5 | 32.7 | 31.9 | 31   | 30.2 | 29.2 | 28.5 | 27.8 | 27   | 25.8 | 25.1 | 24.4 | 23.1 |  |  |  |
| 84         | 38.9                                | 38.1 | 37.3 | 36.5 | 35.7 | 34.9 | 34.1 | 33.3 | 32.4 | 31.6 | 30.6 | 29.9 | 29.2 | 28.4 | 27.2 | 26.5 | 25.8 | 24.5 |  |  |  |
| 86         | 39.6                                | 38.7 | 37.9 | 37.1 | 36.3 | 35.5 | 34.7 | 33.9 | 33   | 32.2 | 31.2 | 30.5 | 29.8 | 29   | 27.8 | 27.1 | 26.4 | 25.2 |  |  |  |
| 88         | 40.9                                | 40.1 | 39.3 | 38.5 | 37.7 | 36.9 | 36.1 | 35.3 | 34.4 | 33.6 | 32.6 | 31.9 | 31.2 | 30.4 | 29.2 | 28.5 | 27.8 | 26.6 |  |  |  |
| 90         | 41.9                                | 41.1 | 40.3 | 39.5 | 38.7 | 37.9 | 37.1 | 36.3 | 35.5 | 34.6 | 33.6 | 32.9 | 32.2 | 31.4 | 30.2 | 29.5 | 28.8 | 27.6 |  |  |  |
| 92         | 42.9                                | 42.1 | 41.3 | 40.5 | 39.7 | 38.9 | 38.1 | 37.3 | 36.5 | 35.6 | 34.6 | 33.9 | 33.2 | 32.5 | 31.3 | 30.6 | 29.9 | 28.7 |  |  |  |
| 94         | 43.9                                | 43.1 | 42.3 | 41.5 | 40.7 | 39.9 | 39.1 | 38.3 | 37.5 | 36.6 | 35.6 | 34.9 | 34.2 | 33.5 | 32.3 | 31.6 | 30.9 | 29.7 |  |  |  |
| 96         | 44.9                                | 44.1 | 43.3 | 42.5 | 41.7 | 40.9 | 40.1 | 39.3 | 38.5 | 37.6 | 36.7 | 35.9 | 35.2 | 34.5 | 33.3 | 32.6 | 31.9 | 30.7 |  |  |  |
| 98         | 45.9                                | 45.1 | 44.3 | 43.5 | 42.7 | 41.9 | 41.1 | 40.3 | 39.5 | 38.6 | 37.7 | 36.9 | 36.2 | 35.5 | 34.3 | 33.6 | 32.9 | 31.7 |  |  |  |
| 100        | 46.9                                | 46.1 | 45.3 | 44.5 | 43.7 | 42.9 | 42.1 | 41.3 | 40.5 | 39.6 | 38.7 | 37.9 | 37.2 | 36.5 | 35.3 | 34.6 | 33.9 | 32.8 |  |  |  |

The centers shown in this shaded area are below the recommended minimum.



# SELECTION

## Variable Pitch Selection Procedure 1750 RPM Motors, Fractional Thru 30 HP

### PROCEDURE

1. Calculate design HP: Motor HP x Service Factor
2. Determine motor shaft size from NEMA B MOTOR chart.
3. Scan Tables 1 & 2 for VP sheave and belt profile combination that will accommodate motor shaft size and design HP.
4. Go to associated VP SHEAVE-BELT table. Trace down the column headed by the selected VP Sheave size until the desired driven speed range is reached. The Driven Sheave size will be listed in the "Driven Sheave" column.

5. Calculate belt length as follows:

If CD/D is greater than 1.5:

**FORMULA A:**  $L=2CD + 1.57(D+d)$

CD = Center Distance

D = Large Sheave diameter

d = small sheave diameter

If CD/D is less than 1.5:

**FORMULA B:**

$$L = 2 CD + 1.57 (D + d) + \frac{(D - d)^2}{4 CD}$$

**NOTE:** "L" Belt length is Outside Length for FHP belts, Pitch Length for Classical Belts (A, B, AX, BX)

### EXAMPLE

A fan is to be driven at a speed in the range of 1400 to 1200 RPM by a 10 HP, 1750 RPM motor. Center Distance is 26". Desired Service Factor is 1.3.

### SOLUTION

1. Calculate Design HP:  $10 \times 1.3 = 13$  DHP.
2. Check NEMA B Motor shaft size: 1-3/8", from Table 3.
3. Scan Tables 1 & 2 for VP sheave size that covers 13 DHP and has 1-3/8" shaft capacity. Choose 2VP65 with AX belt (Other larger sizes are also suitable).
4. Check Selection Table for 2-Groove A-Section Belts. Locate column headed by "2VP65". Trace down to the "1425/1175" RPM range, which covers the 1400/1200 requirement. Trace over to the left hand column for the Driven Sheave size: Find Driven Sheave "2AK74".
5. Calculate belt length: Note that CD/D is  $26/7.0 = 3.5$ . This is greater than 1.5, so "Formula A" can be used.  $L=2 \times 26 + 1.57(7.0+5.7)$ ,  $L = 72.0$ , Use Belt Size AX71 which has a pitch length of 72.3".

**NOTE:** Calculated center distance is for maximum driven RPM. Center distance at minimum RPM will be approx. 1" longer.

## Variable Pitch Sheave Selection Tables

### One Groove VP Sheaves

Table 1.

| Size  | Max./Min. Pitch Dia. |         |         | Max. Bore | O.D. | Basic HP Rating At 1750 RPM * |      |      |      |       |       |
|-------|----------------------|---------|---------|-----------|------|-------------------------------|------|------|------|-------|-------|
|       | 4L/A                 | 5L/B    | 5V      |           |      | 4L                            | A    | AX   | 5L   | B     | BX    |
| 1VP25 | --                   | --      | --      | 1/2       | 2.32 | ...                           | ...  | ...  | ...  | ...   | ...   |
| 1VP30 | --                   | --      | --      | 3/4       | 2.87 | ...                           | ...  | ...  | ...  | ...   | ...   |
| 1VP34 | 2.9/1.9              | 3.2/2.4 | --      | 7/8       | 3.15 | 0.75                          | 1.50 | 2.00 | 0.63 | 0.34  | 3.45  |
| 1VP40 | 3.4/2.4              | 3.7/2.7 | --      | 7/8       | 3.75 | 1.00                          | 2.41 | 2.84 | 1.12 | 1.70  | 3.87  |
| 1VP44 | 3.8/2.9              | 4.1/3.1 | --      | 1-1/8     | 4.15 | 1.30                          | 3.13 | 3.57 | 1.48 | 2.87  | 4.66  |
| 1VP50 | 4.4/3.4              | 4.7/3.7 | --      | 1-1/8     | 4.75 | 1.50                          | 4.20 | 4.63 | 1.95 | 4.50  | 6.50  |
| 1VP56 | 5.0/4.0              | 5.3/4.3 | --      | 1-1/8     | 5.35 | ...                           | 5.20 | 5.67 | 2.20 | 5.15  | 8.10  |
| 1VP60 | 5.2/4.2              | 5.5/4.3 | --      | 1-1/8     | 6.00 | ...                           | 5.53 | 6.01 | 2.60 | 6.68  | 8.67  |
| 1VP62 | 5.6/4.6              | 5.9/4.9 | 6.3/5.3 | 1-1/4     | 5.95 | ...                           | 6.18 | 6.68 | 3.00 | 7.70  | 9.80  |
| 1VP65 | 5.7/4.7              | 6.0/4.8 | 6.4/5.2 | 1-1/8     | 6.50 | ...                           | 6.40 | 6.85 | ...  | 7.97  | 10.00 |
| 1VP68 | 6.2/5.2              | 6.5/5.5 | 6.9/5.9 | 1-3/8     | 6.55 | ...                           | 7.10 | 7.60 | ...  | 9.30  | 11.30 |
| 1VP71 | 6.3/5.3              | 6.6/5.4 | 7.0/5.8 | 1-1/8     | 7.10 | ...                           | 7.30 | 7.70 | ...  | 9.40  | 11.60 |
| 1VP75 | 6.7/5.7              | 7.0/5.8 | 7.4/6.2 | 1-1/8     | 7.50 | ...                           | 8.00 | 8.50 | ...  | 10.40 | 12.60 |

(Cont. next page)

\* For 3L Belts Only:

1VP25 2.2/1.4 P.D.

1VP30 2.7/1.8 P.D.

### Ac Motors

NEMA B

Table 3.

| 1750RPM HP | Shaft Dia. |
|------------|------------|
| 1/4, 1/3   | ...        |
| 1/2, 3/4   | 5/8        |
| 1, 1.5, 2  | 7/8        |
| 3, 5       | 1-1/8      |
| 7-1/2, 10  | 1-3/8      |
| 15, 20     | 1-5/8      |
| 25, 30     | 1-7/8      |

Selection program available online at [ptwizard.com](http://ptwizard.com)

|                                 |                                    |                          |  |
|---------------------------------|------------------------------------|--------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT8-2 | SELECTION/DIMENSIONS<br>PAGE PT8-3 | SELECTION<br>PAGE PT8-10 |  |
|---------------------------------|------------------------------------|--------------------------|--|



# SELECTION

## Variable Pitch Sheave Selection Tables

### Two Groove VP Sheaves

Table 2

| Size    | Max./Min. Pitch Dia. |         |         | Max. Bore | O.D. | Two-Belt Basic HP Rating At 1750 RPM * |       |       |      |       |       |       |
|---------|----------------------|---------|---------|-----------|------|--|-------|-------|------|-------|-------|-------|
|         | 4L/A                 | 5L/B    | 5V      |           |      | 4L                                     | A     | AX    | 5L   | B     | BX    | 5VX   |
| 2VP36   | 3.0/2.0              | 3.3/2.5 | --      | 1         | 3.35 | 1.6                                    | 3.34  | 4.20  | 1.40 | ...   | 4.40  | ...   |
| 2VP42   | 3.6/2.6              | 3.9/2.9 | --      | 1-1/8     | 3.95 | 2.4                                    | 5.54  | 6.42  | 2.60 | 2.98  | 6.34  | ...   |
| 2VP50   | 4.4/3.4              | 4.7/3.7 | --      | 1-1/8     | 4.75 | 2.8                                    | 6.20  | 9.26  | 4.00 | 7.48  | 11.06 | ...   |
| 2VP56   | 5.0/4.0              | 5.3/4.3 | --      | 1-1/8     | 5.35 | ...                                    | 10.40 | 11.34 | 4.40 | 9.40  | 11.76 | ...   |
| 2VP60   | 5.2/4.2              | 5.5/4.3 | --      | 1-3/8     | 6.00 | ...                                    | 11.06 | 12.02 | 4.80 | 11.80 | 15.60 | ...   |
| 2VP62   | 5.6/4.6              | 5.9/4.9 | 6.3/5.3 | 1-3/8     | 5.95 | ...                                    | 12.36 | 13.36 | 6.00 | 13.90 | 17.82 | 34.00 |
| 2VP65   | 5.7/4.7              | 6.0/4.8 | 6.4/5.2 | 1-3/8     | 6.50 | ...                                    | 12.60 | 13.66 | ...  | 14.20 | 18.20 | 34.60 |
| 2VP68   | 6.2/5.2              | 6.5/5.5 | 6.9/5.9 | 1-3/8     | 6.55 | ...                                    | 14.20 | 15.20 | ...  | 17.00 | 21.00 | 38.00 |
| 2VP71   | 6.3/5.3              | 6.5/5.4 | 7.0/5.8 | 1-3/8     | 7.10 | ...                                    | 14.60 | 15.60 | ...  | 17.60 | 21.60 | 40.00 |
| 2VP75   | 6.7/5.7              | 7.0/5.8 | 7.4/6.2 | 1-3/8     | 7.50 | ...                                    | 15.80 | 17.00 | ...  | 19.00 | 23.80 | 44.00 |
| 2VP60A  | 5.2/4.2              | 5.5/4.3 | --      | 1-5/8     | 6.00 | ...                                    | 11.06 | 12.02 | 4.80 | 11.80 | 15.60 | ...   |
| 2VP65A  | 5.7/4.7              | 6.0/4.8 | 6.4/5.2 | 1-5/8     | 6.50 | ...                                    | 12.60 | 13.66 | ...  | 14.20 | 18.20 | 34.60 |
| 2VP71A  | 6.3/5.3              | 6.5/5.4 | 7.0/5.8 | 1-5/8     | 7.10 | ...                                    | 14.60 | 15.60 | ...  | 17.60 | 21.60 | 40.00 |
| 2VP75A  | 6.7/5.7              | 7.0/5.8 | 7.4/6.2 | 1-5/8     | 7.50 | ...                                    | 15.80 | 17.00 | ...  | 19.00 | 23.80 | 44.00 |
| 2V56B70 | 6.7/5.7              | 7.0/5.8 | 7.4/6.2 | 1-7/8     | 7.50 | ...                                    | 15.80 | 17.00 | ...  | 19.00 | 23.80 | 44.00 |
| 2V68B80 | 7.7/6.7              | 7.7/6.8 | 8.4/7.2 | 1-7/8     | 8.50 | ...                                    | 18.00 | 18.80 | ...  | 23.40 | 28.20 | 52.00 |

\* Rating is at Max. Pitch Dia. Apply Arc and Length correction factors for greater accuracy.

### 1VP Sheave Using A Or Ax Belt Driven RPM For 1750 RPM Motor

| Driven SHV. | 1VP34 |      | 1VP40 |      | 1VP44 |      | 1VP50 |      | 1VP56 |      | 1VP60 |      | 1VP62 |      | 1VP65 |      |
|-------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
|             | Size  | P.D. | Max.  | Min. | Max.  | Min. | Max.  | Min. | Max.  | Min. | Max.  | Min. | Max.  | Min. | Max.  | Min. |
| AK20        | 1.80  | 2819 | 1847  | 3306 | 2333  | 3694 | 2722  | 4278 | 3306  | 4861 | 3889  | --   | --    | --   | --    | --   |
| AK21        | 1.90  | 2671 | 1750  | 3132 | 2211  | 3500 | 2579  | 4053 | 3132  | 4605 | 3684  | 4789 | 3868  | --   | --    | --   |
| AK22        | 2.00  | 2538 | 1663  | 2975 | 2100  | 3325 | 2450  | 3850 | 2975  | 4375 | 3500  | 4550 | 3675  | 4900 | 4025  | 4988 |
| AK23        | 2.10  | 2417 | 1583  | 2833 | 2000  | 3167 | 2333  | 3667 | 2833  | 4167 | 3333  | 4333 | 3500  | 4667 | 3833  | 4750 |
| AK25        | 2.30  | 2207 | 1446  | 2587 | 1826  | 2891 | 2130  | 3348 | 2587  | 3804 | 3043  | 3957 | 3196  | 4261 | 3500  | 4337 |
| AK26        | 2.40  | 2115 | 1385  | 2479 | 1750  | 2771 | 2042  | 3208 | 2479  | 3646 | 2917  | 3792 | 3062  | 4083 | 3354  | 4156 |
| AK27        | 2.50  | 2030 | 1330  | 2380 | 1680  | 2660 | 1960  | 3080 | 2380  | 3500 | 2800  | 3640 | 2940  | 3920 | 3220  | 3990 |
| AK28        | 2.60  | 1952 | 1279  | 2288 | 1615  | 2558 | 1885  | 2962 | 2288  | 3365 | 2692  | 3500 | 2827  | 3769 | 3096  | 3837 |
| AK30        | 2.80  | 1813 | 1188  | 2125 | 1500  | 2375 | 1750  | 2750 | 2125  | 3125 | 2500  | 3250 | 2625  | 3500 | 2875  | 3563 |
| AK32        | 3.00  | 1692 | 1108  | 1983 | 1400  | 2217 | 1633  | 2567 | 1983  | 2917 | 2333  | 3033 | 2450  | 3267 | 2683  | 3325 |
| AK34        | 3.20  | 1586 | 1039  | 1859 | 1313  | 2078 | 1531  | 2406 | 1859  | 2734 | 2188  | 2844 | 2297  | 3063 | 2516  | 3117 |
| AK39        | 3.50  | 1450 | 950   | 1700 | 1200  | 1900 | 1400  | 2200 | 1700  | 2500 | 2000  | 2600 | 2100  | 2800 | 2300  | 2850 |
| AK41        | 3.70  | 1372 | 899   | 1608 | 1135  | 1797 | 1324  | 2081 | 1608  | 2365 | 1892  | 2459 | 1986  | 2649 | 2176  | 2696 |
| AK44        | 4.00  | 1269 | 831   | 1488 | 1050  | 1663 | 1225  | 1925 | 1488  | 2188 | 1750  | 2275 | 1838  | 2450 | 2013  | 2494 |
| AK46        | 4.20  | 1208 | 792   | 1417 | 1000  | 1583 | 1167  | 1833 | 1417  | 2083 | 1667  | 2167 | 1750  | 2333 | 1917  | 2375 |
| AK49        | 4.50  | 1128 | 739   | 1322 | 933   | 1478 | 1089  | 1711 | 1322  | 1944 | 1556  | 2022 | 1633  | 2178 | 1789  | 2217 |
| AK51        | 4.70  | 1080 | 707   | 1266 | 894   | 1415 | 1043  | 1638 | 1266  | 1862 | 1489  | 1936 | 1564  | 2085 | 1713  | 2122 |
| AK54        | 4.90  | 1036 | 679   | 1214 | 857   | 1357 | 1000  | 1571 | 1214  | 1786 | 1429  | 1857 | 1500  | 2000 | 1643  | 2036 |

(Cont. next page)

**Note:** For drive selections below the bold line, use HP ratings on TABLE 1 or TABLE 2. For drive selections above the bold line, use BASIC HP RATING TABLES from DODGE engineering catalog for Driven Sheave size.

|                                 |                                    |                          |  |
|---------------------------------|------------------------------------|--------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT8-2 | SELECTION/DIMENSIONS<br>PAGE PT8-3 | SELECTION<br>PAGE PT8-10 |  |
|---------------------------------|------------------------------------|--------------------------|--|





# SELECTION

## 1 VP Sheave Using A or AX Belt

### Driven RPM For 1750 RPM Motor

| Driven SHV. |       | 1VP34 |      | 1VP40 |      | 1VP44 |      | 1VP50 |      | 1VP56 |      | 1VP60 |      | 1VP62 |      | 1VP65 |      |
|-------------|-------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| Size        | P.D.  | Max.  | Min. | Max.  | Min. | Max.  | Min. | Max.  | Min. | Max.  | Min. | Max.  | Min. | Max.  | Min. | Max.  | Min. |
| AK56        | 5.20  | 976   | 639  | 1144  | 808  | 1279  | 942  | 1481  | 1144 | 1683  | 1346 | 1750  | 1413 | 1885  | 1548 | 1918  | 1582 |
| AK59        | 5.50  | 923   | 605  | 1082  | 764  | 1209  | 891  | 1400  | 1082 | 1591  | 1273 | 1655  | 1336 | 1782  | 1464 | 1814  | 1495 |
| AK61        | 5.70  | 890   | 583  | 1044  | 737  | 1167  | 860  | 1351  | 1044 | 1535  | 1228 | 1596  | 1289 | 1719  | 1412 | 1750  | 1443 |
| AK64        | 6.00  | 846   | 554  | 992   | 700  | 1108  | 817  | 1283  | 992  | 1458  | 1167 | 1517  | 1225 | 1633  | 1342 | 1663  | 1371 |
| AK66        | 6.20  | 819   | 536  | 960   | 677  | 1073  | 790  | 1242  | 960  | 1411  | 1129 | 1468  | 1185 | 1581  | 1298 | 1609  | 1327 |
| AK69        | 6.50  | 781   | 512  | 915   | 646  | 1023  | 754  | 1185  | 915  | 1346  | 1077 | 1400  | 1131 | 1508  | 1238 | 1535  | 1265 |
| AK71        | 6.70  | 757   | 496  | 888   | 627  | 993   | 731  | 1149  | 888  | 1306  | 1045 | 1358  | 1097 | 1463  | 1201 | 1489  | 1228 |
| AK74        | 7.00  | 725   | 475  | 850   | 600  | 950   | 700  | 1100  | 850  | 1250  | 1000 | 1300  | 1050 | 1400  | 1150 | 1425  | 1175 |
| AK79        | 7.50  | 677   | 443  | 793   | 560  | 887   | 653  | 1027  | 793  | 1167  | 933  | 1213  | 980  | 1307  | 1073 | 1330  | 1097 |
| AK84        | 8.00  | 634   | 416  | 744   | 525  | 831   | 613  | 963   | 744  | 1094  | 875  | 1138  | 919  | 1225  | 1006 | 1247  | 1028 |
| AK89        | 8.50  | 597   | 391  | 700   | 494  | 782   | 576  | 906   | 700  | 1029  | 824  | 1071  | 865  | 1153  | 947  | 1174  | 968  |
| AK94        | 9.00  | 564   | 369  | 661   | 467  | 739   | 544  | 856   | 661  | 972   | 778  | 1011  | 817  | 1089  | 894  | 1108  | 914  |
| AK99        | 9.50  | 534   | 350  | 626   | 442  | 700   | 516  | 811   | 626  | 921   | 737  | 958   | 774  | 1032  | 847  | 1050  | 866  |
| AK104       | 10.00 | 508   | 333  | 595   | 420  | 665   | 490  | 770   | 595  | 875   | 700  | 910   | 735  | 980   | 805  | 998   | 823  |
| AK109       | 10.60 | 479   | 314  | 561   | 396  | 627   | 462  | 726   | 561  | 825   | 660  | 858   | 693  | 925   | 759  | 941   | 776  |
| AK114       | 11.00 | 461   | 302  | 541   | 382  | 605   | 445  | 700   | 541  | 795   | 636  | 827   | 668  | 891   | 732  | 907   | 748  |
| AK124       | 12.00 | 423   | 277  | 496   | 350  | 554   | 408  | 642   | 496  | 729   | 583  | 758   | 613  | 817   | 671  | 831   | 685  |
| AK134       | 13.00 | 390   | 256  | 458   | 323  | 512   | 377  | 592   | 458  | 673   | 538  | 700   | 565  | 754   | 619  | 767   | 633  |
| AK144       | 14.00 | 363   | 238  | 425   | 300  | 475   | 350  | 550   | 425  | 625   | 500  | 650   | 525  | 700   | 575  | 713   | 588  |
| AK154       | 15.00 | 338   | 222  | 397   | 280  | 443   | 327  | 513   | 397  | 583   | 467  | 607   | 490  | 653   | 537  | 665   | 548  |
| AK184       | 18.00 | 282   | 185  | 331   | 233  | 369   | 272  | 428   | 331  | 486   | 389  | 506   | 408  | 544   | 447  | 554   | 457  |

### Driven RPM For 1750 RPM Motor

| Driven SHV |       | 1VP68 |      | 1VP71 |      | 1VP75 |      |
|------------|-------|-------|------|-------|------|-------|------|
| Size       | P.D.  | Max.  | Min. | Max.  | Min. | Max.  | Min. |
| AK30       | 2.80  | 3875  | 3250 | 3938  | 3313 | 4188  | 3563 |
| AK32       | 3.00  | 3617  | 3033 | 3675  | 3092 | 3908  | 3325 |
| AK34       | 3.20  | 3391  | 2844 | 3445  | 2898 | 3664  | 3117 |
| AK39       | 3.50  | 3100  | 2600 | 3150  | 2650 | 3350  | 2850 |
| AK41       | 3.70  | 2932  | 2459 | 2980  | 2507 | 3169  | 2696 |
| AK44       | 4.00  | 2713  | 2275 | 2756  | 2319 | 2931  | 2494 |
| AK46       | 4.20  | 2583  | 2167 | 2625  | 2208 | 2792  | 2375 |
| AK49       | 4.50  | 2411  | 2022 | 2450  | 2061 | 2606  | 2217 |
| AK51       | 4.70  | 2309  | 1936 | 2346  | 1973 | 2495  | 2122 |
| AK54       | 4.90  | 2214  | 1857 | 2250  | 1893 | 2393  | 2036 |
| AK56       | 5.20  | 2087  | 1750 | 2120  | 1784 | 2255  | 1918 |
| AK59       | 5.50  | 1973  | 1655 | 2005  | 1686 | 2132  | 1814 |
| AK61       | 5.70  | 1904  | 1596 | 1934  | 1627 | 2057  | 1750 |
| AK64       | 6.00  | 1808  | 1517 | 1838  | 1546 | 1954  | 1663 |
| AK66       | 6.20  | 1750  | 1468 | 1778  | 1496 | 1891  | 1609 |
| AK69       | 6.50  | 1669  | 1400 | 1696  | 1427 | 1804  | 1535 |
| AK71       | 6.70  | 1619  | 1358 | 1646  | 1384 | 1750  | 1489 |
| AK74       | 7.00  | 1550  | 1300 | 1575  | 1325 | 1675  | 1425 |
| AK79       | 7.50  | 1447  | 1213 | 1470  | 1237 | 1563  | 1330 |
| AK84       | 8.00  | 1356  | 1138 | 1378  | 1159 | 1466  | 1247 |
| AK89       | 8.50  | 1276  | 1071 | 1297  | 1091 | 1379  | 1174 |
| AK94       | 9.00  | 1206  | 1011 | 1225  | 1031 | 1303  | 1108 |
| AK99       | 9.50  | 1142  | 958  | 1161  | 976  | 1234  | 1050 |
| AK104      | 10.00 | 1085  | 910  | 1103  | 928  | 1173  | 998  |
| AK109      | 10.60 | 1024  | 858  | 1040  | 875  | 1106  | 941  |
| AK114      | 11.00 | 986   | 827  | 1002  | 843  | 1066  | 907  |
| AK124      | 12.00 | 904   | 758  | 919   | 773  | 977   | 831  |
| AK134      | 13.00 | 835   | 700  | 848   | 713  | 902   | 767  |
| AK144      | 14.00 | 775   | 650  | 788   | 663  | 838   | 713  |
| AK154      | 15.00 | 723   | 607  | 735   | 618  | 782   | 665  |
| AK184      | 18.00 | 603   | 506  | 613   | 515  | 651   | 554  |

**NOTE:** For drive selections below the bold line, use HP ratings on TABLE 1 or TABLE 2. For drive selections above the bold line, use BASIC HP RATING TABLES from DODGE engineering catalog for Driven Sheave size.

|                                 |                                    |                          |  |
|---------------------------------|------------------------------------|--------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT8-2 | SELECTION/DIMENSIONS<br>PAGE PT8-3 | SELECTION<br>PAGE PT8-10 |  |
|---------------------------------|------------------------------------|--------------------------|--|





# SELECTION

## 1 VP Sheave Using B or BX Belt

### Driven RPM For 1750 RPM Motor

| Driven SHV. |       | 1VP34 |      | 1VP40 |      | 1VP44 |      | 1VP50 |      | 1VP56 |      | 1VP60 |      | 1VP62 |      | 1VP65 |      |
|-------------|-------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| Size        | P.D.  | Max.  | Min. | Max.  | Min. | Max.  | Min. | Max.  | Min. | Max.  | Min. | Max.  | Min. | Max.  | Min. | Max.  | Min. |
| BK23        | 2.10  | 2667  | 2000 | 3083  | 2250 | 3417  | 2583 | 3917  | 3083 | 4417  | 3583 | 4583  | 3583 | 4917  | 4083 | 5000  | 4000 |
| BK24        | 2.20  | 2545  | 1909 | 2943  | 2148 | 3261  | 2466 | 3739  | 2943 | 4216  | 3420 | 4375  | 3420 | 4693  | 3898 | 4773  | 3818 |
| BK25        | 2.30  | 2435  | 1826 | 2815  | 2054 | 3120  | 2359 | 3576  | 2815 | 4033  | 3272 | 4185  | 3272 | 4489  | 3728 | 4565  | 3652 |
| BK26        | 2.40  | 2333  | 1750 | 2698  | 1969 | 2990  | 2260 | 3427  | 2698 | 3865  | 3135 | 4010  | 3135 | 4302  | 3573 | 4375  | 3500 |
| BK28        | 2.60  | 2154  | 1615 | 2490  | 1817 | 2760  | 2087 | 3163  | 2490 | 3567  | 2894 | 3702  | 2894 | 3971  | 3298 | 4038  | 3231 |
| BK30        | 2.80  | 2000  | 1500 | 2313  | 1688 | 2563  | 1938 | 2938  | 2313 | 3313  | 2688 | 3438  | 2688 | 3688  | 3063 | 3750  | 3000 |
| BK31        | 2.90  | 1931  | 1448 | 2233  | 1629 | 2474  | 1871 | 2836  | 2233 | 3198  | 2595 | 3319  | 2595 | 3560  | 2957 | 3621  | 2897 |
| BK32        | 3.00  | 1867  | 1400 | 2158  | 1575 | 2392  | 1808 | 2742  | 2158 | 3092  | 2508 | 3208  | 2508 | 3442  | 2858 | 3500  | 2800 |
| BK34        | 3.20  | 1750  | 1313 | 2023  | 1477 | 2242  | 1695 | 2570  | 2023 | 2898  | 2352 | 3008  | 2352 | 3227  | 2680 | 3281  | 2625 |
| BK36        | 3.40  | 1647  | 1235 | 1904  | 1390 | 2110  | 1596 | 2419  | 1904 | 2728  | 2213 | 2831  | 2213 | 3037  | 2522 | 3088  | 2471 |
| BK40        | 3.60  | 1556  | 1167 | 1799  | 1312 | 1993  | 1507 | 2285  | 1799 | 2576  | 2090 | 2674  | 2090 | 2868  | 2382 | 2917  | 2333 |
| BK45        | 3.90  | 1436  | 1077 | 1660  | 1212 | 1840  | 1391 | 2109  | 1660 | 2378  | 1929 | 2468  | 1929 | 2647  | 2199 | 2692  | 2154 |
| BK47        | 4.10  | 1366  | 1024 | 1579  | 1152 | 1750  | 1323 | 2006  | 1579 | 2262  | 1835 | 2348  | 1835 | 2518  | 2091 | 2561  | 2049 |
| BK50        | 4.40  | 1273  | 955  | 1472  | 1074 | 1631  | 1233 | 1869  | 1472 | 2108  | 1710 | 2188  | 1710 | 2347  | 1949 | 2386  | 1909 |
| BK52        | 4.60  | 1217  | 913  | 1408  | 1027 | 1560  | 1179 | 1788  | 1408 | 2016  | 1636 | 2092  | 1636 | 2245  | 1864 | 2283  | 1826 |
| BK55        | 4.90  | 1143  | 857  | 1321  | 964  | 1464  | 1107 | 1679  | 1321 | 1893  | 1536 | 1964  | 1536 | 2107  | 1750 | 2143  | 1714 |
| BK57        | 5.10  | 1098  | 824  | 1270  | 926  | 1407  | 1064 | 1613  | 1270 | 1819  | 1475 | 1887  | 1475 | 2025  | 1681 | 2059  | 1647 |
| BK60        | 5.40  | 1037  | 778  | 1199  | 875  | 1329  | 1005 | 1523  | 1199 | 1718  | 1394 | 1782  | 1394 | 1912  | 1588 | 1944  | 1556 |
| BK62        | 5.60  | 1000  | 750  | 1156  | 844  | 1281  | 969  | 1469  | 1156 | 1656  | 1344 | 1719  | 1344 | 1844  | 1531 | 1875  | 1500 |
| BK65        | 5.90  | 949   | 712  | 1097  | 801  | 1216  | 919  | 1394  | 1097 | 1572  | 1275 | 1631  | 1275 | 1750  | 1453 | 1780  | 1424 |
| BK67        | 6.10  | 918   | 689  | 1061  | 775  | 1176  | 889  | 1348  | 1061 | 1520  | 1234 | 1578  | 1234 | 1693  | 1406 | 1721  | 1377 |
| BK70        | 6.40  | 875   | 656  | 1012  | 738  | 1121  | 848  | 1285  | 1012 | 1449  | 1176 | 1504  | 1176 | 1613  | 1340 | 1641  | 1313 |
| BK72        | 6.60  | 848   | 636  | 981   | 716  | 1087  | 822  | 1246  | 981  | 1405  | 1140 | 1458  | 1140 | 1564  | 1299 | 1591  | 1273 |
| BK75        | 6.90  | 812   | 609  | 938   | 685  | 1040  | 786  | 1192  | 938  | 1344  | 1091 | 1395  | 1091 | 1496  | 1243 | 1522  | 1217 |
| BK77        | 7.10  | 789   | 592  | 912   | 665  | 1011  | 764  | 1158  | 912  | 1306  | 1060 | 1356  | 1060 | 1454  | 1208 | 1479  | 1183 |
| BK80        | 7.40  | 757   | 568  | 875   | 639  | 970   | 733  | 1111  | 875  | 1253  | 1017 | 1301  | 1017 | 1395  | 1159 | 1419  | 1135 |
| BK85        | 7.90  | 709   | 532  | 820   | 598  | 908   | 687  | 1041  | 820  | 1174  | 953  | 1218  | 953  | 1307  | 1085 | 1329  | 1063 |
| BK90        | 8.40  | 667   | 500  | 771   | 563  | 854   | 646  | 979   | 771  | 1104  | 896  | 1146  | 896  | 1229  | 1021 | 1250  | 1000 |
| BK95        | 8.90  | 629   | 472  | 728   | 531  | 806   | 610  | 924   | 728  | 1042  | 846  | 1081  | 846  | 1160  | 963  | 1180  | 944  |
| BK100       | 9.40  | 596   | 447  | 689   | 503  | 763   | 577  | 875   | 689  | 987   | 801  | 1024  | 801  | 1098  | 912  | 1117  | 894  |
| BK105       | 9.90  | 566   | 424  | 654   | 477  | 725   | 548  | 831   | 654  | 937   | 760  | 972   | 760  | 1043  | 866  | 1061  | 848  |
| BK110       | 10.40 | 538   | 404  | 623   | 454  | 690   | 522  | 791   | 623  | 892   | 724  | 925   | 724  | 993   | 825  | 1010  | 808  |
| BK115       | 10.90 | 514   | 385  | 594   | 433  | 658   | 498  | 755   | 594  | 851   | 690  | 883   | 690  | 947   | 787  | 963   | 771  |
| BK120       | 11.40 | 491   | 368  | 568   | 414  | 629   | 476  | 721   | 568  | 814   | 660  | 844   | 660  | 906   | 752  | 921   | 737  |
| BK130       | 12.40 | 452   | 339  | 522   | 381  | 579   | 438  | 663   | 522  | 748   | 607  | 776   | 607  | 833   | 692  | 847   | 677  |
| BK140       | 13.40 | 418   | 313  | 483   | 353  | 535   | 405  | 614   | 483  | 692   | 562  | 718   | 562  | 771   | 640  | 784   | 627  |
| BK160       | 15.40 | 364   | 273  | 420   | 307  | 466   | 352  | 534   | 420  | 602   | 489  | 625   | 489  | 670   | 557  | 682   | 545  |
| BK190       | 18.40 | 304   | 228  | 352   | 257  | 390   | 295  | 447   | 352  | 504   | 409  | 523   | 409  | 561   | 466  | 571   | 457  |

(Cont. next page)

**NOTE:** For drive selections below the bold line, use HP ratings on TABLE 1 or TABLE 2. For drive selections above the bold line, use BASIC HORSEPOWER RATING TABLES from DODGE engineering catalog for Driven Sheave size.

|                                 |                                    |                          |  |
|---------------------------------|------------------------------------|--------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT8-2 | SELECTION/DIMENSIONS<br>PAGE PT8-3 | SELECTION<br>PAGE PT8-10 |  |
|---------------------------------|------------------------------------|--------------------------|--|

V-Drives

FHP Drives

Drive Component  
Accessories

DVNA-SYNC

HT200/HTD  
Synchronous Drives

HT500  
Synchronous Drives

Roller Chain Sprockets



# SELECTION

## 1 VP Sheave Using B or BX Belt

### Driven RPM For 1750 RPM Motor

| Driven SHV. |       | 1VP68 |      | 1VP71 |      | 1VP75 |      |
|-------------|-------|-------|------|-------|------|-------|------|
| Size        | P.D.  | Max.  | Min. | Max.  | Min. | Max.  | Min. |
| BK28        | 2.60  | 4375  | 3702 | 4442  | 3635 | 4712  | 3904 |
| BK30        | 2.80  | 4063  | 3438 | 4125  | 3375 | 4375  | 3625 |
| BK31        | 2.90  | 3922  | 3319 | 3983  | 3259 | 4224  | 3500 |
| BK34        | 3.20  | 3555  | 3008 | 3609  | 2953 | 3828  | 3172 |
| BK36        | 3.40  | 3346  | 2831 | 3397  | 2779 | 3603  | 2985 |
| BK40        | 3.60  | 3160  | 2674 | 3208  | 2625 | 3403  | 2819 |
| BK45        | 3.90  | 2917  | 2468 | 2962  | 2423 | 3141  | 2603 |
| BK47        | 4.10  | 2774  | 2348 | 2817  | 2305 | 2988  | 2476 |
| BK50        | 4.40  | 2585  | 2188 | 2625  | 2148 | 2784  | 2307 |
| BK52        | 4.60  | 2473  | 2092 | 2511  | 2054 | 2663  | 2207 |
| BK55        | 4.90  | 2321  | 1964 | 2357  | 1929 | 2500  | 2071 |
| BK57        | 5.10  | 2230  | 1887 | 2265  | 1853 | 2402  | 1990 |
| BK60        | 5.40  | 2106  | 1782 | 2139  | 1750 | 2269  | 1880 |
| BK62        | 5.60  | 2031  | 1719 | 2063  | 1688 | 2188  | 1813 |
| BK65        | 5.90  | 1928  | 1631 | 1958  | 1602 | 2076  | 1720 |
| BK67        | 6.10  | 1865  | 1578 | 1893  | 1549 | 2008  | 1664 |
| BK70        | 6.40  | 1777  | 1504 | 1805  | 1477 | 1914  | 1586 |
| BK72        | 6.60  | 1723  | 1458 | 1750  | 1432 | 1856  | 1538 |
| BK75        | 6.90  | 1649  | 1395 | 1674  | 1370 | 1775  | 1471 |
| BK77        | 7.10  | 1602  | 1356 | 1627  | 1331 | 1725  | 1430 |
| BK80        | 7.40  | 1537  | 1301 | 1561  | 1277 | 1655  | 1372 |
| BK85        | 7.90  | 1440  | 1218 | 1462  | 1196 | 1551  | 1285 |
| BK90        | 8.40  | 1354  | 1146 | 1375  | 1125 | 1458  | 1208 |
| BK95        | 8.90  | 1278  | 1081 | 1298  | 1062 | 1376  | 1140 |
| BK100       | 9.40  | 1210  | 1024 | 1229  | 1005 | 1303  | 1080 |
| BK105       | 9.90  | 1149  | 972  | 1167  | 955  | 1237  | 1025 |
| BK110       | 10.40 | 1094  | 925  | 1111  | 909  | 1178  | 976  |
| BK115       | 10.90 | 1044  | 883  | 1060  | 867  | 1124  | 931  |
| BK120       | 11.40 | 998   | 844  | 1013  | 829  | 1075  | 890  |
| BK130       | 12.40 | 917   | 776  | 931   | 762  | 988   | 819  |
| BK140       | 13.40 | 849   | 718  | 862   | 705  | 914   | 757  |
| BK160       | 15.40 | 739   | 625  | 750   | 614  | 795   | 659  |
| BK190       | 18.40 | 618   | 523  | 628   | 514  | 666   | 552  |

**NOTE:** For drive selections below the bold line, use HP ratings on TABLE 1 or TABLE 2. For drive selections above the bold line, refer to the BASIC HORSEPOWER Rating Tables in the DODGE Engineering Catalog for Driven Sheave size.

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets



# SELECTION

## 2 VP Sheave Using A or AX Belt

### Driven RPM For 1750 RPM Motor

| Driven SHV. |       | 2VP36 |      | 2VP42 |      | 2VP50 |      | 2VP56 |      | 2VP60 |      | 2VP62 |      | 2VP65 |      |
|-------------|-------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| Size        | P.D.  | Max.  | Min. | Max.  | Min. | Max.  | Min. | Max.  | Min. | Max.  | Min. | Max.  | Min. | Max.  | Min. |
| 2AK20       | 1.80  | 2917  | 1944 | 3500  | 2528 | 4278  | 3306 | 4861  | 3889 | --    | --   | --    | --   | --    | --   |
| 2AK21       | 1.90  | 2763  | 1842 | 3316  | 2395 | 4053  | 3132 | 4605  | 3684 | 4789  | 3868 | --    | --   | --    | --   |
| 2AK22       | 2.00  | 2625  | 1750 | 3150  | 2275 | 3850  | 2975 | 4375  | 3500 | 4550  | 3675 | 4900  | 4025 | 4988  | 4113 |
| 2AK23       | 2.10  | 2500  | 1667 | 3000  | 2167 | 3667  | 2833 | 4167  | 3333 | 4333  | 3500 | 4667  | 3833 | 4750  | 3917 |
| 2AK25       | 2.30  | 2283  | 1522 | 2739  | 1978 | 3348  | 2587 | 3804  | 3043 | 3957  | 3196 | 4261  | 3500 | 4337  | 3576 |
| 2AK26       | 2.40  | 2188  | 1458 | 2625  | 1896 | 3208  | 2479 | 3646  | 2917 | 3792  | 3062 | 4083  | 3354 | 4156  | 3427 |
| 2AK27       | 2.50  | 2100  | 1400 | 2520  | 1820 | 3080  | 2380 | 3500  | 2800 | 3640  | 2940 | 3920  | 3220 | 3990  | 3290 |
| 2AK28       | 2.60  | 2019  | 1346 | 2423  | 1750 | 2962  | 2288 | 3365  | 2692 | 3500  | 2827 | 3769  | 3096 | 3837  | 3163 |
| 2AK30       | 2.80  | 1875  | 1250 | 2250  | 1625 | 2750  | 2125 | 3125  | 2500 | 3250  | 2625 | 3500  | 2875 | 3563  | 2938 |
| 2AK32       | 3.00  | 1750  | 1167 | 2100  | 1517 | 2567  | 1983 | 2917  | 2333 | 3033  | 2450 | 3267  | 2683 | 3325  | 2742 |
| 2AK34       | 3.20  | 1641  | 1094 | 1969  | 1422 | 2406  | 1859 | 2734  | 2188 | 2844  | 2297 | 3063  | 2516 | 3117  | 2570 |
| 2AK39       | 3.50  | 1500  | 1000 | 1800  | 1300 | 2200  | 1700 | 2500  | 2000 | 2600  | 2100 | 2800  | 2300 | 2850  | 2350 |
| 2AK41       | 3.70  | 1419  | 946  | 1703  | 1230 | 2081  | 1608 | 2365  | 1892 | 2459  | 1986 | 2649  | 2176 | 2696  | 2223 |
| 2AK44       | 4.00  | 1313  | 875  | 1575  | 1138 | 1925  | 1488 | 2188  | 1750 | 2275  | 1838 | 2450  | 2013 | 2494  | 2056 |
| 2AK46       | 4.20  | 1250  | 833  | 1500  | 1083 | 1833  | 1417 | 2083  | 1667 | 2167  | 1750 | 2333  | 1917 | 2375  | 1958 |
| 2AK49       | 4.50  | 1167  | 778  | 1400  | 1011 | 1711  | 1322 | 1944  | 1556 | 2022  | 1633 | 2178  | 1789 | 2217  | 1828 |
| 2AK51       | 4.70  | 1117  | 745  | 1340  | 968  | 1638  | 1266 | 1862  | 1489 | 1936  | 1564 | 2085  | 1713 | 2122  | 1750 |
| 2AK54       | 5.00  | 1050  | 700  | 1260  | 910  | 1540  | 1190 | 1750  | 1400 | 1820  | 1470 | 1960  | 1610 | 1995  | 1645 |
| 2AK56       | 5.20  | 1010  | 673  | 1212  | 875  | 1481  | 1144 | 1683  | 1346 | 1750  | 1413 | 1885  | 1548 | 1918  | 1582 |
| 2AK59       | 5.50  | 955   | 636  | 1145  | 827  | 1400  | 1082 | 1591  | 1273 | 1655  | 1336 | 1782  | 1464 | 1814  | 1495 |
| 2AK61       | 5.70  | 921   | 614  | 1105  | 798  | 1351  | 1044 | 1535  | 1228 | 1596  | 1289 | 1719  | 1412 | 1750  | 1443 |
| 2AK64       | 6.00  | 875   | 583  | 1050  | 758  | 1283  | 992  | 1458  | 1167 | 1517  | 1225 | 1633  | 1342 | 1663  | 1371 |
| 2AK74       | 7.00  | 750   | 500  | 900   | 650  | 1100  | 850  | 1250  | 1000 | 1300  | 1050 | 1400  | 1150 | 1425  | 1175 |
| 2AK84       | 8.00  | 656   | 438  | 788   | 569  | 963   | 744  | 1094  | 875  | 1137  | 919  | 1225  | 1006 | 1247  | 1028 |
| 2AK94       | 9.00  | 583   | 389  | 700   | 506  | 856   | 661  | 972   | 778  | 1011  | 817  | 1089  | 894  | 1108  | 914  |
| 2AK104      | 10.00 | 525   | 350  | 630   | 455  | 770   | 595  | 875   | 700  | 910   | 735  | 980   | 805  | 998   | 823  |
| 2AK114      | 11.00 | 477   | 318  | 573   | 414  | 700   | 541  | 795   | 636  | 827   | 668  | 891   | 732  | 907   | 748  |
| 2AK124      | 12.00 | 438   | 292  | 525   | 379  | 642   | 496  | 729   | 583  | 758   | 613  | 817   | 671  | 831   | 685  |
| 2AK134      | 13.00 | 404   | 269  | 485   | 350  | 592   | 458  | 673   | 538  | 700   | 565  | 754   | 619  | 767   | 633  |
| 2AK144      | 14.00 | 375   | 250  | 450   | 325  | 550   | 425  | 625   | 500  | 650   | 525  | 700   | 575  | 713   | 588  |
| 2AK154      | 15.00 | 350   | 233  | 420   | 303  | 513   | 397  | 583   | 467  | 607   | 490  | 653   | 537  | 665   | 548  |
| 2AK184      | 18.00 | 292   | 194  | 350   | 253  | 428   | 331  | 486   | 389  | 506   | 408  | 544   | 447  | 554   | 457  |

### Driven RPM For 1750 RPM Motor

| Driven SHV. |      | 2VP68 |      | 2VP71 |      | 2VP75 |      |
|-------------|------|-------|------|-------|------|-------|------|
| Size        | P.D. | Max.  | Min. | Max.  | Min. | Max.  | Min. |
| 2AK27       | 2.50 | 4340  | 3640 | 4410  | 3710 | 4690  | 3990 |
| 2AK28       | 2.60 | 4173  | 3500 | 4240  | 3567 | 4510  | 3837 |
| 2AK30       | 2.80 | 3875  | 3250 | 3938  | 3313 | 4188  | 3563 |
| 2AK32       | 3.00 | 3617  | 3033 | 3675  | 3092 | 3908  | 3325 |
| 2AK34       | 3.20 | 3391  | 2844 | 3445  | 2898 | 3664  | 3117 |
| 2AK39       | 3.50 | 3100  | 2600 | 3150  | 2650 | 3350  | 2850 |
| 2AK41       | 3.70 | 2932  | 2459 | 2980  | 2507 | 3169  | 2696 |
| 2AK44       | 4.00 | 2713  | 2275 | 2756  | 2319 | 2931  | 2494 |
| 2AK46       | 4.20 | 2583  | 2167 | 2625  | 2208 | 2792  | 2375 |
| 2AK49       | 4.50 | 2411  | 2022 | 2450  | 2061 | 2606  | 2217 |
| 2AK51       | 4.70 | 2309  | 1936 | 2346  | 1973 | 2495  | 2122 |
| 2AK54       | 5.00 | 2170  | 1820 | 2205  | 1855 | 2345  | 1995 |
| 2AK56       | 5.20 | 2087  | 1750 | 2120  | 1784 | 2255  | 1918 |
| 2AK59       | 5.50 | 1973  | 1655 | 2005  | 1686 | 2132  | 1814 |
| 2AK61       | 5.70 | 1904  | 1596 | 1934  | 1627 | 2057  | 1750 |

### Driven RPM For 1750 RPM Motor

| Driven SHV. |       | 2VP68 |      | 2VP71 |      | 2VP75 |      |
|-------------|-------|-------|------|-------|------|-------|------|
| Size        | P.D.  | Max.  | Min. | Max.  | Min. | Max.  | Min. |
| 2AK64       | 6.00  | 1808  | 1517 | 1838  | 1546 | 1954  | 1663 |
| 2AK74       | 7.00  | 1550  | 1300 | 1575  | 1325 | 1675  | 1425 |
| 2AK84       | 8.00  | 1356  | 1138 | 1378  | 1159 | 1466  | 1247 |
| 2AK94       | 9.00  | 1206  | 1011 | 1225  | 1031 | 1303  | 1108 |
| 2AK104      | 10.00 | 1085  | 910  | 1103  | 928  | 1173  | 998  |
| 2AK114      | 11.00 | 986   | 827  | 1002  | 843  | 1066  | 907  |
| 2AK124      | 12.00 | 904   | 758  | 919   | 773  | 977   | 831  |
| 2AK134      | 13.00 | 835   | 700  | 848   | 713  | 902   | 767  |
| 2AK144      | 14.00 | 775   | 650  | 788   | 663  | 838   | 713  |
| 2AK154      | 15.00 | 723   | 607  | 735   | 618  | 782   | 665  |
| 2AK184      | 18.00 | 603   | 506  | 613   | 515  | 651   | 554  |

**NOTE:** For drive selections below the bold line, use HP ratings on TABLE 1 or TABLE 2. For drive selections above the bold line, refer to the BASIC HORSEPOWER Rating Tables in the DODGE Engineering Catalog for Driven Sheave size.

FEATURES/BENEFITS  
PAGE PT8-2

SELECTION/DIMENSIONS  
PAGE PT8-3

SELECTION  
PAGE PT8-10

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets



# SELECTION

## 2 VP Sheave Using B or BX Belt

### Driven RPM For 1750 RPM Motor

| Dia.  | Driven Sheave |       | 2VP36 |      | 2VP42 |      | 2VP50 |      | 2VP56 |      | 2VP60 |      | 2VP62 |      | 2VP65 |      |
|-------|---------------|-------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
|       | O.D.          | Size  | P.D.  | Max. | Min.  | Max. | Min.  | Max. | Min.  | Max. | Min.  | Max. | Min.  | Max. | Min.  | Max. |
| 2.5   | 2BK25         | 2.30  | 2511  | 1902 | 2967  | 2207 | 3576  | 2815 | 4033  | 3272 | --    | --   | --    | --   | --    | --   |
| 2.7   | 2BK27         | 2.50  | 2310  | 1750 | 2730  | 2030 | 3290  | 2590 | 3710  | 3010 | 3850  | 3010 | 4130  | 3430 | 4200  | 3360 |
| 2.95  | 2BK28         | 2.60  | 2221  | 1683 | 2625  | 1952 | 3163  | 2490 | 3567  | 2894 | 3702  | 2894 | 3971  | 3298 | 4038  | 3231 |
| 3.15  | 2BK30         | 2.80  | 2062  | 1563 | 2437  | 1813 | 2937  | 2312 | 3312  | 2687 | 3438  | 2687 | 3688  | 3063 | 3750  | 3000 |
| 3.35  | 2BK32         | 3.00  | 1925  | 1458 | 2275  | 1692 | 2742  | 2158 | 3092  | 2508 | 3208  | 2508 | 3442  | 2858 | 3500  | 2800 |
| 3.55  | 2BK34         | 3.20  | 1805  | 1367 | 2133  | 1586 | 2570  | 2023 | 2898  | 2352 | 3008  | 2352 | 3227  | 2680 | 3281  | 2625 |
| 3.75  | 2BK36         | 3.40  | 1699  | 1287 | 2007  | 1493 | 2419  | 1904 | 2728  | 2213 | 2831  | 2213 | 3037  | 2522 | 3088  | 2471 |
| 3.95  | 2BK40         | 3.60  | 1604  | 1215 | 1896  | 1410 | 2285  | 1799 | 2576  | 2090 | 2674  | 2090 | 2868  | 2382 | 2917  | 2333 |
| 4.25  | 2BK45         | 3.90  | 1481  | 1122 | 1750  | 1301 | 2109  | 1660 | 2378  | 1929 | 2468  | 1929 | 2647  | 2199 | 2692  | 2154 |
| 4.45  | 2BK47         | 4.10  | 1409  | 1067 | 1665  | 1238 | 2006  | 1579 | 2262  | 1835 | 2348  | 1835 | 2518  | 2091 | 2561  | 2049 |
| 4.75  | 2BK50         | 4.40  | 1312  | 994  | 1551  | 1153 | 1869  | 1472 | 2108  | 1710 | 2188  | 1710 | 2347  | 1949 | 2386  | 1909 |
| 4.95  | 2BK52         | 4.60  | 1255  | 951  | 1484  | 1103 | 1788  | 1408 | 2016  | 1636 | 2092  | 1636 | 2245  | 1864 | 2283  | 1826 |
| 5.25  | 2BK55         | 4.90  | 1179  | 893  | 1393  | 1036 | 1679  | 1321 | 1893  | 1536 | 1964  | 1536 | 2107  | 1750 | 2143  | 1714 |
| 5.45  | 2BK57         | 5.10  | 1132  | 858  | 1338  | 995  | 1613  | 1270 | 1819  | 1475 | 1887  | 1475 | 2025  | 1681 | 2059  | 1647 |
| 5.75  | 2BK60         | 5.40  | 1069  | 810  | 1264  | 940  | 1523  | 1199 | 1718  | 1394 | 1782  | 1394 | 1912  | 1588 | 1944  | 1556 |
| 5.95  | 2BK62         | 5.60  | 1031  | 781  | 1219  | 906  | 1469  | 1156 | 1656  | 1344 | 1719  | 1344 | 1844  | 1531 | 1875  | 1500 |
| 6.25  | 2BK65         | 5.90  | 979   | 742  | 1157  | 860  | 1394  | 1097 | 1572  | 1275 | 1631  | 1275 | 1750  | 1453 | 1780  | 1424 |
| 6.45  | 2BK67         | 6.10  | 947   | 717  | 1119  | 832  | 1348  | 1061 | 1520  | 1234 | 1578  | 1234 | 1693  | 1406 | 1721  | 1377 |
| 6.75  | 2BK70         | 6.40  | 902   | 684  | 1066  | 793  | 1285  | 1012 | 1449  | 1176 | 1504  | 1176 | 1613  | 1340 | 1641  | 1312 |
| 7.75  | 2BK80         | 7.40  | 780   | 591  | 922   | 686  | 1111  | 875  | 1253  | 1017 | 1301  | 1017 | 1395  | 1159 | 1419  | 1135 |
| 8.75  | 2BK90         | 8.40  | 688   | 521  | 813   | 604  | 979   | 771  | 1104  | 896  | 1146  | 896  | 1229  | 1021 | 1250  | 1000 |
| 9.75  | 2BK100        | 9.40  | 614   | 465  | 726   | 540  | 875   | 689  | 987   | 801  | 1024  | 801  | 1098  | 912  | 1117  | 894  |
| 11.75 | 2BK120        | 11.40 | 507   | 384  | 599   | 445  | 721   | 568  | 814   | 660  | 844   | 660  | 906   | 752  | 921   | 737  |
| 12.75 | 2BK130        | 12.40 | 466   | 353  | 550   | 409  | 663   | 522  | 748   | 607  | 776   | 607  | 833   | 692  | 847   | 677  |
| 13.75 | 2BK140        | 13.40 | 431   | 326  | 509   | 379  | 614   | 483  | 692   | 562  | 718   | 562  | 771   | 640  | 784   | 627  |
| 15.75 | 2BK160        | 15.40 | 375   | 284  | 443   | 330  | 534   | 420  | 602   | 489  | 625   | 489  | 670   | 557  | 682   | 545  |
| 18.75 | 2BK190        | 18.40 | 314   | 238  | 371   | 276  | 447   | 352  | 504   | 409  | 523   | 409  | 561   | 466  | 571   | 457  |

### Driven RPM For 1750 RPM Motor

| Dia.  | Driven Sheave |       | 2VP68 |      | 2VP71 |      | 2VP75 |      | 2V58B70 |      | 2V68B80 |      |
|-------|---------------|-------|-------|------|-------|------|-------|------|---------|------|---------|------|
|       | O.D.          | Size  | P.D.  | Max. | Min.  | Max. | Min.  | Max. | Min.    | Max. | Min.    | Max. |
| 3.55  | 2BK34         | 3.20  | 3555  | 3008 | 3555  | 2953 | 3828  | 3172 | 3828    | 3172 | --      | --   |
| 3.75  | 2BK36         | 3.40  | 3346  | 2831 | 3346  | 2779 | 3603  | 2985 | 3603    | 2985 | 3963    | 3500 |
| 3.95  | 2BK40         | 3.60  | 3160  | 2674 | 3160  | 2625 | 3403  | 2819 | 3403    | 2819 | 3743    | 3306 |
| 4.25  | 2BK45         | 3.90  | 2917  | 2468 | 2917  | 2423 | 3141  | 2603 | 3141    | 2603 | 3455    | 3051 |
| 4.45  | 2BK47         | 4.10  | 2774  | 2348 | 2774  | 2305 | 2988  | 2476 | 2988    | 2476 | 3287    | 2902 |
| 4.75  | 2BK50         | 4.40  | 2585  | 2188 | 2585  | 2148 | 2784  | 2307 | 2784    | 2307 | 3062    | 2705 |
| 4.95  | 2BK52         | 4.60  | 2473  | 2092 | 2473  | 2054 | 2663  | 2207 | 2663    | 2207 | 2929    | 2587 |
| 5.25  | 2BK55         | 4.90  | 2321  | 1964 | 2321  | 1929 | 2500  | 2071 | 2500    | 2071 | 2750    | 2429 |
| 5.45  | 2BK57         | 5.10  | 2230  | 1887 | 2230  | 1853 | 2402  | 1990 | 2402    | 1990 | 2642    | 2333 |
| 5.75  | 2BK60         | 5.40  | 2106  | 1782 | 2106  | 1750 | 2269  | 1880 | 2269    | 1880 | 2495    | 2204 |
| 5.95  | 2BK62         | 5.60  | 2031  | 1719 | 2031  | 1687 | 2188  | 1813 | 2188    | 1813 | 2406    | 2125 |
| 6.25  | 2BK65         | 5.90  | 1928  | 1631 | 1928  | 1602 | 2076  | 1720 | 2076    | 1720 | 2284    | 2017 |
| 6.45  | 2BK67         | 6.10  | 1865  | 1578 | 1865  | 1549 | 2008  | 1664 | 2008    | 1664 | 2209    | 1951 |
| 6.75  | 2BK70         | 6.40  | 1777  | 1504 | 1777  | 1477 | 1914  | 1586 | 1914    | 1586 | 2105    | 1859 |
| 7.75  | 2BK80         | 7.40  | 1537  | 1301 | 1537  | 1277 | 1655  | 1372 | 1655    | 1372 | 1821    | 1608 |
| 8.75  | 2BK90         | 8.40  | 1354  | 1146 | 1354  | 1125 | 1458  | 1208 | 1458    | 1208 | 1604    | 1417 |
| 9.75  | 2BK100        | 9.40  | 1210  | 1024 | 1210  | 1005 | 1303  | 1080 | 1303    | 1080 | 1434    | 1266 |
| 11.75 | 2BK120        | 11.40 | 998   | 844  | 998   | 829  | 1075  | 890  | 1075    | 890  | 1182    | 1044 |
| 12.75 | 2BK130        | 12.40 | 917   | 776  | 917   | 762  | 988   | 819  | 988     | 819  | 1087    | 960  |
| 13.75 | 2BK140        | 13.40 | 849   | 718  | 849   | 705  | 914   | 757  | 914     | 757  | 1006    | 888  |
| 15.75 | 2BK160        | 15.40 | 739   | 625  | 739   | 614  | 795   | 659  | 795     | 659  | 875     | 773  |
| 18.75 | 2BK190        | 18.40 | 618   | 523  | 618   | 514  | 666   | 552  | 666     | 552  | 732     | 647  |

**NOTE:** For drive selections below the bold line, use HP ratings on TABLE 1 or TABLE 2. For drive selections above the bold line, refer to the BASIC HORSEPOWER Rating Tables in the DODGE Engineering Catalog for Driven Sheave size.

|                                 |                                    |                          |  |
|---------------------------------|------------------------------------|--------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT8-2 | SELECTION/DIMENSIONS<br>PAGE PT8-3 | SELECTION<br>PAGE PT8-10 |  |
|---------------------------------|------------------------------------|--------------------------|--|



# SELECTION

## 2VP Sheave Using 5VX Belt

### Driven RPM For 1750 RPM Motor

| Driven Sheave | 2VP62 |      | 2VP65 |      | 2VP68 |      | 2VP71 |      | 2VP75 |      | 2V58B70 |      | 2V68B80 |      |
|---------------|-------|------|-------|------|-------|------|-------|------|-------|------|---------|------|---------|------|
|               | Max.  | Min. | Max.  | Min. | Max.  | Min. | Max.  | Min. | Max.  | Min. | Max.    | Min. | Max.    | Min. |
| 2/5V4.4       | 2564  | 2157 | 2605  | 2116 | 2808  | 2401 | 2849  | 2360 | 3012  | 2523 | 3012    | 2442 | 3419    | 2930 |
| 2/5V4.65      | 2423  | 2038 | 2462  | 2000 | 2654  | 2269 | 2692  | 2231 | 2846  | 2385 | 2846    | 2308 | 3231    | 2769 |
| 2/5V4.9       | 2297  | 1932 | 2333  | 1896 | 2516  | 2151 | 2552  | 2115 | 2698  | 2260 | 2698    | 2188 | 3063    | 2625 |
| 2/5V5.2       | 2201  | 1851 | 2236  | 1816 | 2410  | 2061 | 2445  | 2026 | 2585  | 2166 | 2585    | 2096 | 2934    | 2515 |
| 2/5V5.5       | 2042  | 1718 | 2074  | 1685 | 2236  | 1912 | 2269  | 1880 | 2398  | 2009 | 2398    | 1944 | 2722    | 2333 |
| 2/5V5.9       | 1901  | 1599 | 1931  | 1569 | 2082  | 1780 | 2112  | 1750 | 2233  | 1871 | 2233    | 1810 | 2534    | 2172 |
| 2/5V6.3       | 1778  | 1496 | 1806  | 1468 | 1948  | 1665 | 1976  | 1637 | 2089  | 1750 | 2089    | 1694 | 2371    | 2032 |
| 2/5V6.7       | 1670  | 1405 | 1697  | 1379 | 1830  | 1564 | 1856  | 1538 | 1962  | 1644 | 1962    | 1591 | 2227    | 1909 |
| 2/5V7.1       | 1575  | 1325 | 1600  | 1300 | 1725  | 1475 | 1750  | 1450 | 1850  | 1550 | 1850    | 1500 | 2100    | 1800 |
| 2/5V7.5       | 1490  | 1253 | 1514  | 1230 | 1632  | 1395 | 1655  | 1372 | 1750  | 1466 | 1750    | 1419 | 1986    | 1703 |
| 2/5V8.0       | 1396  | 1174 | 1418  | 1152 | 1528  | 1307 | 1551  | 1285 | 1639  | 1373 | 1639    | 1329 | 1861    | 1595 |
| 2/5V8.5       | 1313  | 1104 | 1333  | 1083 | 1438  | 1229 | 1458  | 1208 | 1542  | 1292 | 1542    | 1250 | 1750    | 1500 |
| 2/5V9.0       | 1239  | 1042 | 1258  | 1022 | 1357  | 1160 | 1376  | 1140 | 1455  | 1219 | 1455    | 1180 | 1652    | 1416 |
| 2/5V9.25      | 1205  | 1014 | 1224  | 995  | 1320  | 1128 | 1339  | 1109 | 1415  | 1186 | 1415    | 1148 | 1607    | 1377 |
| 2/5V9.75      | 1142  | 961  | 1161  | 943  | 1251  | 1070 | 1269  | 1052 | 1342  | 1124 | 1342    | 1088 | 1523    | 1306 |
| 2/5V10.3      | 1081  | 909  | 1098  | 892  | 1184  | 1012 | 1201  | 995  | 1270  | 1064 | 1270    | 1029 | 1441    | 1235 |
| 2/5V10.9      | 1021  | 859  | 1037  | 843  | 1118  | 956  | 1134  | 940  | 1199  | 1005 | 1199    | 972  | 1361    | 1167 |
| 2/5V11.3      | 984   | 828  | 1000  | 813  | 1078  | 922  | 1094  | 906  | 1156  | 969  | 1156    | 938  | 1313    | 1125 |
| 2/5V11.8      | 942   | 793  | 957   | 778  | 1032  | 882  | 1047  | 868  | 1107  | 927  | 1107    | 897  | 1256    | 1077 |
| 2/5V12.5      | 889   | 748  | 903   | 734  | 974   | 833  | 988   | 819  | 1044  | 875  | 1044    | 847  | 1185    | 1016 |
| 2/5V13.2      | 842   | 708  | 855   | 695  | 922   | 788  | 935   | 775  | 989   | 828  | 989     | 802  | 1122    | 962  |
| 2/5V14.0      | 793   | 667  | 806   | 655  | 869   | 743  | 881   | 730  | 932   | 781  | 932     | 755  | 1058    | 906  |
| 2/5V15.0      | 740   | 622  | 752   | 611  | 810   | 693  | 822   | 681  | 869   | 728  | 869     | 705  | 987     | 846  |
| 2/5V16.0      | 693   | 583  | 704   | 572  | 759   | 649  | 770   | 638  | 814   | 682  | 814     | 660  | 925     | 792  |
| 2/5V18.7      | 593   | 499  | 602   | 489  | 649   | 555  | 659   | 546  | 696   | 583  | 696     | 565  | 790     | 677  |
| 2/5V21.2      | 523   | 440  | 531   | 431  | 572   | 489  | 581   | 481  | 614   | 514  | 614     | 498  | 697     | 597  |
| 2/5V23.6      | 469   | 395  | 477   | 387  | 514   | 439  | 521   | 432  | 551   | 462  | 551     | 447  | 626     | 536  |
| 2/5V28.0      | 395   | 332  | 401   | 326  | 433   | 370  | 439   | 364  | 464   | 389  | 464     | 376  | 527     | 452  |

**NOTE:** For drive selections below the bold line, use HP ratings on TABLE 1. or TABLE 2.  
 For drive selections above the bold line, use BASIC HP RATING TABLES from DODGE ENGINEERING Catalog for driven sheave size.

V-Drives  
 FHP Drives  
 Drive Component Accessories  
 DYNA-SYNC  
 HT200/HTD Synchronous Drives  
 HT500 Synchronous Drives  
 Roller Chain Sprockets

|                                 |                                    |                          |  |
|---------------------------------|------------------------------------|--------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT8-2 | SELECTION/DIMENSIONS<br>PAGE PT8-3 | SELECTION<br>PAGE PT8-10 |  |
|---------------------------------|------------------------------------|--------------------------|--|

# CONTENTS



## Drive Component Accessories

|   |          |
|---|----------|
| <b>Wide Range Belts - REEVES</b> .....    | PT9-2    |
| <b>Wide Range Belts</b> .....             | PT9-3    |
| <b>TAPER-LOCK Flat-Face Pulleys</b> ..... | PT9-4    |
| <b>DODGE Motor Bases</b> .....            | PT9-5    |
| <b>Shaft Collars</b> .....                | PT9-7    |
| <b>Adjustable NEMA Motor Bases</b> .....  | PT9-8    |
| Part Number Index .....                   | INDEX-1  |
| Keyword Index .....                       | INDEX-43 |

V-Drives

FHP Drives

Drive Component  
Accessories

DYNA-SYNC

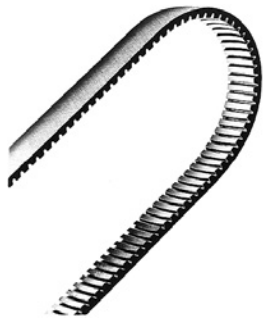
HT200/HTD  
Synchronous Drives

HT500  
Synchronous Drives

Roller Chain Sprockets



## Wide Range Belts - REEVES



| Belt Series | For Pulley Numbers     |
|-------------|------------------------|
| 1422        | 95, 5675, 406          |
| 1922        | 96, 97, 7202, 408      |
| 2322        | 98, 409                |
| 2926        | 98-1/2, 9205, 411      |
| 3236        | 910, 410, 410/8        |
| 4430        | 912, 912-15, 1110, 412 |
|             | 412/15, 1320, 1330     |
| 4830        | 414, 414/25            |

### WIDE RANGE BELTS FOR REEVES PULLEYS

For Adjustable Speed Drive Applications  
 Oil And Heat Resistant  
 Static Conducting  
 Industry Standard Belt Numbers

1st Two Digits - Belt Width in Sixteenth Inch  
 2nd Two Digits - Sheave Groove Angle  
 Remaining Digits - Pitch Length in Tenths of an inch.

| Belt Size           | DODGE P/N | REEVES P/N | Belt Size                  | DODGE P/N | REEVES P/N | Belt Size                  | DODGE P/N | REEVES P/N |
|---------------------|-----------|------------|----------------------------|-----------|------------|----------------------------|-----------|------------|
| <b>1422V SERIES</b> |           |            | <b>2322V SERIES (CONT)</b> |           |            | <b>3226V SERIES (CONT)</b> |           |            |
| 1422V270            | 109407    | 8H95450    | 2322V486                   | -         | 8H95155    | 3226V903                   | 109760    | 8H95197    |
| 1422V300            | 109409    | 8H95123    | 2322V521                   | 109031    | 8H95156    | 3226V963                   | 109761    | 8H95198    |
| 1422V330            | 109411    | 8H95451    | 2322V541                   | 109607    | 8H95157    | 3226V1023                  | 109762    | 8H95475    |
| 1422V360            | 109011    | 8H95124    | 2322V601                   | 109601    | 8H95466    | 3226V1083                  | 109763    | 8H95476    |
| 1422V400            | 109414    | 8H95452    | 2322V661                   | 109033    | 8H95159    | <b>4430V SERIES</b>        |           |            |
| 1422V420            | 109012    | 8H95125    | 2322V681                   | 109611    | 8H95467    | 4430V548                   | 109848    | 8H95479    |
| 1422V466            | 109418    | 8H95453    | 2322V721                   | 109034    | 8H95162    | 4430V555                   | 109849    | 8H95480    |
| 1422V480            | 109013    | 8H95126    | 2322V801                   | 109614    | 8H95163    | 4430V578                   | 109852    | 8H95481    |
| 1422V540            | 109014    | 8H95127    | 2322V886                   | 109617    | 8H95468    | 4430V610                   | 109705    | 8H95482    |
| 1422V600            | 109422    | 8H95128    | 2322V1001                  | 109619    | 8H95469    | 4430V630                   | 109855    | 8H95483    |
| 1422V660            | 109423    | 8H95454    | <b>2926V SERIES</b>        |           |            | 4430V660                   | 109856    | 8H95484    |
| 1422V720            | 109424    | 8H95455    | 2926V471                   | 109713    | 8H95477    | 4430V670                   | 109705    | 8H95705    |
| 1422V780            | 109425    | 8H95456    | 2926V486                   | 109715    | 8H95170    | 4430V690                   | 109858    | 8H95485    |
| <b>1922V SERIES</b> |           |            | 2926V521                   | 109717    | 8H95171    | 4430V700                   | 109050    | 8H95486    |
| 1922V256            | 109493    | 8H95457    | 2926V546                   | 109719    | 8H95172    | 4430V730                   | 109862    | 8H95204    |
| 1922V321            | 109498    | 8H95133    | 2926V574                   | 109720    | 8H95173    | 4430V740                   | 109863    | 8H95740    |
| 1922V338            | 109500    | 8H95458    | 2926V586                   | 109721    | 8H95174    | 4430V790                   | 109837    | 8H95205    |
| 1922V363            | 109501    | 8H95134    | 2926V606                   | 109722    | 8H95175    | 4430V850                   | 109052    | 8H95206    |
| 1922V386            | 109020    | 8H95135    | 2926V636                   | 109740    | 8H95177    | 4430V910                   | 109053    | 8H95207    |
| 1922V403            | 109504    | 8H95459    | 2926V646                   | 109724    | 8H95178    | 4430V970                   | 109845    | 8H95208    |
| 1922V417            | 109505    | 8H95460    | 2926V686                   | 109726    | 8H95180    | 4430V1030                  | 109893    | 8H95209    |
| 1922V426            | 109021    | 8H95137    | 2926V726                   | 109728    | 8H95182    | 4430V1090                  | 109877    | 8H95210    |
| 1922V443            | 109507    | 8H95461    | 2926V776                   | 109729    | 8H95183    | 4430V1150                  | 109879    | 8H95488    |
| 1922V454            | 109508    | 8H95139    | 2926V834                   | 109731    | 8H95184    | 4430V1320                  | 109882    | 8H95489    |
| 1922V484            | 109022    | 8H95140    | 2926V856                   | 109732    | 8H95185    | <b>4480V SERIES</b>        |           |            |
| 1922V544            | 109023    | 8H95142    | 2926V906                   | 109734    | 8H95187    | 4830V614                   | 109907    | 8H95490    |
| 1922V604            | 109024    | 8H95143    | 2926V966                   | 109735    | 8H95478    | 4830V653                   | 109908    | 8H95491    |
| 1922V646            | 109515    | 8H95462    | <b>3226V SERIES</b>        |           |            | 4830V692                   | 109909    | 8H95492    |
| 1922V666            | 109516    | 8H95145    | 3226V433                   | 109749    | 8H95470    | 4830V699                   | 109910    | 8H95493    |
| 1922V726            | 109520    | 8H95148    | 3226V465                   | 109750    | 8H95471    | 4830V730                   | 109911    | 8H95494    |
| 1922V751            | 109521    | 8H95463    | 3226V505                   | 109751    | 8H95472    | 4830V850                   | 109912    | 8H95495    |
| 1922V756            | 109522    | 8H95464    | 3226V545                   | 109753    | 8H95473    | 4830V970                   | 109913    | 8H95496    |
| 1922V806            | 109523    | 8H95149    | 3226V585                   | 109754    | 8H95474    | 4830V1070                  | 109914    | 8H95497    |
| <b>2322V SERIES</b> |           |            | 3226V603                   | 109040    | 8H95192    |                            |           |            |
| 2322V364            | 109599    | 8H95465    | 3226V663                   | 109041    | 8H95193    |                            |           |            |
| 2322V396            | 109601    | 8H95466    | 3226V723                   | 109042    | 8H95194    |                            |           |            |
| 2322V421            | 109602    | 8H95153    | 3226V783                   | 109043    | 8H95195    |                            |           |            |
| 2322V443            | -         | 8H95154    | 3226V843                   | 109044    | 8H95196    |                            |           |            |



# DRIVE COMPONENT ACCESSORIES



## Wide Range Belts

| Part No.           | Descr.   | Wt.  |
|--------------------|----------|------|
| <b>1200 SERIES</b> |          |      |
| 109400             | 1228V255 | .26  |
| <b>1400 SERIES</b> |          |      |
| 109407             | 1422V270 | .30  |
| 109408             | 1422V290 | .33  |
| 109409             | 1422V300 | .30  |
| 109411             | 1422V330 | .37  |
| 109412             | 1422V340 | .40  |
| 109011             | 1422V360 | .50  |
| 109414             | 1422V400 | .45  |
| 109012             | 1422V420 | .50  |
| 109416             | 1422V440 | .50  |
| 109417             | 1422V460 | .52  |
| 109418             | 1422V466 | .52  |
| 109419             | 1422V470 | .53  |
| 109013             | 1422V480 | .60  |
| 109014             | 1422V540 | .70  |
| 109422             | 1422V600 | .68  |
| 109423             | 1422V660 | .74  |
| 109425             | 1422V780 | .87  |
| 109424             | 1430V215 | .31  |
| <b>1600 SERIES</b> |          |      |
| 109459             | 1626V262 | .42  |
| 109461             | 1626V293 | .47  |
| 109462             | 1626V304 | .40  |
| 109463             | 1626V330 | .50  |
| 109464             | 1626V339 | .60  |
| 109466             | 1626V384 | .70  |
| 109469             | 1626V428 | .68  |
| 109470             | 1626V440 | .70  |
| 109472             | 1626V513 | .81  |
| 109473             | 1626V517 | .82  |
| 109475             | 1626V604 | .95  |
| 109477             | 1626V700 | 1.10 |
| 109480             | 1628V315 | .51  |
| 109479             | 1628V210 | .29  |
| 109482             | 1632V210 | .40  |
| <b>1800 SERIES</b> |          |      |
| 109485             | 1822V328 | .57  |
| 109487             | 1828V368 | .73  |
| <b>1900 SERIES</b> |          |      |
| 109493             | 1922V256 | .50  |
| 109494             | 1922V277 | .51  |
| 109495             | 1922V282 | .60  |
| 109496             | 1922V289 | .55  |
| 109497             | 1922V302 | .56  |
| 109498             | 1922V321 | .60  |
| 109499             | 1922V332 | .61  |
| 109501             | 1922V363 | .60  |
| 109502             | 1922V381 | .70  |
| 109020             | 1922V386 | .80  |
| 109504             | 1922V403 | .70  |
| 109505             | 1922V417 | .76  |
| 109021             | 1922V426 | .90  |
| 109507             | 1922V443 | .81  |
| 109508             | 1922V454 | .70  |
| 109509             | 1922V460 | .84  |
| 109022             | 1922V484 | 1.20 |
| 109511             | 1922V526 | .96  |
| 109023             | 1922V544 | 1.20 |
| 109024             | 1922V604 | 1.40 |

| Part No.           | Descr.    | Wt.  |
|--------------------|-----------|------|
| 109514             | 1922V630  | 1.10 |
| 109515             | 1922V646  | 1.20 |
| 109516             | 1922V516  | 1.20 |
| 109517             | 1922V686  | 1.20 |
| 109517             | 1922V706  | 1.30 |
| 109520             | 1922V726  | 1.30 |
| 109522             | 1922V756  | 1.40 |
| 109523             | 1922V806  | 1.50 |
| 109524             | 1922V846  | 1.50 |
| 109525             | 1922V891  | 1.60 |
| 109533             | 1926V250  | .50  |
| 109068             | 1926V275  | .53  |
| 109542             | 1930V366  | .80  |
| 109543             | 1930V375  | .81  |
| 109544             | 1930V400  | .87  |
| 109545             | 1930V425  | .90  |
| 109546             | 1930V431  | .93  |
| 109549             | 1930V491  | 1.10 |
| 109552             | 1930V541  | 1.10 |
| 109554             | 1930V591  | 1.30 |
| 109555             | 1930V600  | 1.30 |
| 109557             | 1930V641  | 1.30 |
| 109559             | 1930V691  | 1.50 |
| 109561             | 1930V750  | 1.60 |
| 109562             | 1930V791  | 1.70 |
| 109565             | 1930V891  | 1.90 |
| 109568             | 1930V991  | 2.10 |
| 109571             | 1930V1091 | 2.30 |
| <b>2100 SERIES</b> |           |      |
| 109585             | 2126V309  | .60  |
| <b>2200 SERIES</b> |           |      |
| 109590             | 2226V307  | .58  |
| 109592             | 2230V266  | .49  |
| 109594             | 2230V275  | .60  |
| 109596             | 2230V326  | .69  |
| <b>2300 SERIES</b> |           |      |
| 109599             | 2322V364  | .90  |
| 109601             | 2322V601  | 1.10 |
| 109602             | 2322V421  | 1.00 |
| 109604             | 2322V441  | 1.20 |
| 109030             | 2322V481  | 1.50 |
| 109031             | 2322V521  | 1.60 |
| 109607             | 2322V541  | 1.40 |
| 109032             | 2322V601  | 1.80 |
| 109609             | 2322V621  | 1.60 |
| 109033             | 2322V661  | 1.90 |
| 109611             | 2322V681  | 1.80 |
| 109612             | 2322V701  | 1.80 |
| 109034             | 2322V721  | 2.30 |
| 109614             | 2322V801  | 2.10 |
| 109615             | 2322V826  | 2.30 |
| 109617             | 2322V886  | 2.30 |
| 109618             | 2322V921  | 2.40 |
| 109620             | 2322V1061 | 2.80 |
| 109623             | 2326V310  | .74  |
| 109242             | 2326V359  | .92  |
| 109625             | 2330V273  | .56  |
| <b>2400 SERIES</b> |           |      |
| 109631             | 2426V343  | .82  |
| 109637             | 2430V297  | .71  |
| 109639             | 2436V331  | .77  |

| Part No.           | Descr.    | Wt.  |
|--------------------|-----------|------|
| <b>2500 SERIES</b> |           |      |
| 109641             | 2526V314  | .92  |
| 109644             | 2530V470  | 1.80 |
| 109647             | 2530V530  | 1.90 |
| 109648             | 2530V550  | 1.90 |
| 109650             | 2530V575  | 2.20 |
| 109100             | 2530V595  | 2.50 |
| 109652             | 2530V600  | 2.30 |
| 109653             | 2530V610  | 2.50 |
| 109101             | 2530V630  | 2.70 |
| 109109             | 2530V660  | 2.60 |
| 109102             | 2530V670  | 2.60 |
| 109658             | 2530V690  | 2.60 |
| 109104             | 2530V730  | 3.00 |
| 109662             | 2530V740  | 2.80 |
| 109664             | 2530V790  | 3.00 |
| 109107             | 2530V840  | 3.30 |
| 109672             | 2530V990  | 3.70 |
| 109675             | 2530V1090 | 4.10 |
| <b>2600 SERIES</b> |           |      |
| 109688             | 2626V369  | 1.20 |
| 109689             | 2626V388  | 1.20 |
| 109692             | 2630V345  | 1.00 |
| 109694             | 2636V332  | 1.10 |
| <b>2800 SERIES</b> |           |      |
| 109696             | 2822V778  | 3.40 |
| 109698             | 2826V412  | 1.50 |
| 109699             | 2826V452  | 1.60 |
| 109250             | 2830V337  | 1.13 |
| 109701             | 2830V363  | 1.00 |
| 109700             | 2830V366  | 1.03 |
| 109251             | 2830V367  | 1.23 |
| 109702             | 2830V393  | .99  |
| 109703             | 2830V422  | 1.50 |
| 109706             | 2836V343  | 1.20 |
| 109708             | 2836V380  | 1.30 |
| <b>2900 SERIES</b> |           |      |
| 109710             | 2926V366  | 1.40 |
| 109711             | 2926V400  | 1.50 |
| 109712             | 2926V426  | 1.60 |
| 109713             | 2926V471  | 1.80 |
| 109714             | 2926V477  | 1.60 |
| 109715             | 2926V486  | 1.80 |
| 109716             | 2926V491  | 1.80 |
| 109717             | 2926V521  | 2.00 |
| 109719             | 2926V546  | 1.90 |
| 109720             | 2926V574  | 2.10 |
| 109721             | 2926V721  | 2.20 |
| 109722             | 2926V606  | 2.10 |
| 109723             | 2926V616  | 2.30 |
| 109740             | 2926V636  | 2.30 |
| 109724             | 2926V724  | 2.40 |
| 109725             | 2926V666  | 2.40 |
| 109726             | 2926V726  | 2.40 |
| 109727             | 2926V706  | 2.60 |
| 109728             | 2926V726  | 2.80 |
| 109729             | 2926V776  | 2.80 |
| 109730             | 2926V786  | 2.90 |
| 109731             | 2926V834  | 2.90 |
| 109732             | 2926V856  | 3.10 |
| 109733             | 2926V891  | 3.52 |

| Part No.           | Descr.    | Wt.  |
|--------------------|-----------|------|
| 109734             | 2926V906  | 3.30 |
| 109735             | 2926V966  | 3.50 |
| 109736             | 2926V1006 | 3.70 |
| 109745             | 3226V392  | 1.50 |
| 109262             | 3226V439  | 1.99 |
| 109764             | 3226V450  | 2.00 |
| 109750             | 3226V465  | 2.00 |
| 109751             | 3226V505  | 2.20 |
| <b>3200 SERIES</b> |           |      |
| 109752             | 3226V514  | 2.20 |
| 109753             | 3226V545  | 2.30 |
| 109754             | 3226V585  | 2.50 |
| 109040             | 3226V603  | 2.40 |
| 109263             | 3226V650  | 2.93 |
| 109041             | 3226V663  | 2.80 |
| 109042             | 3226V723  | 3.10 |
| 109043             | 3226V783  | 3.40 |
| 109044             | 3226V843  | 3.60 |
| 109760             | 3226V903  | 3.90 |
| 109761             | 3226V963  | 4.10 |
| 109763             | 3226V1083 | 4.60 |
| 109766             | 3230V419  | 2.10 |
| 109772             | 3230V670  | 3.40 |
| 109774             | 3230V710  | 3.60 |
| 109803             | 3236V369  | 1.60 |
| 109805             | 3236V432  | 1.90 |
| 109807             | 3326V478  | 2.40 |
| <b>3400 SERIES</b> |           |      |
| 109822             | 3432V450  | 2.13 |
| 109809             | 3432V456  | 2.10 |
| 109808             | 3432V480  | 2.27 |
| 109810             | 3432V484  | 2.20 |
| 109269             | 3432V534  | 2.52 |
| <b>3600 SERIES</b> |           |      |
| 109817             | 3636V479  | 2.50 |
| <b>3700 SERIES</b> |           |      |
| 109821             | 3726V558  | 3.40 |
| <b>3800 SERIES</b> |           |      |
| 109824             | 3826V465  | 2.60 |
| 109826             | 3830V510  | 3.10 |
| 109827             | 3830V517  | 3.20 |
| 109835             | 3830V580  | 6.60 |
| 109828             | 3830V587  | 3.30 |
| 109830             | 3836V418  | 2.00 |
| 109831             | 3836V426  | 2.10 |
| 109832             | 3836V654  | 3.50 |
| 109833             | 3836V734  | 3.90 |
| 109834             | 3836V794  | 4.40 |
| <b>4000 SERIES</b> |           |      |
| 109836             | 4030V538  | 3.40 |
| 109840             | 4036V541  | 3.50 |
| 109841             | 4036V547  | 3.60 |
| <b>4200 SERIES</b> |           |      |
| 109843             | 4230V556  | 3.30 |
| 109844             | 4230V605  | 3.60 |
| <b>4400 SERIES</b> |           |      |
| 109846             | 4430V510  | 3.70 |
| 109847             | 4430V530  | 3.80 |
| 109848             | 4430V548  | 3.90 |
| 109849             | 4430V555  | 4.00 |
| 109851             | 4430V570  | 4.10 |

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets



## Wide Range Belts (cont)

| Part No.                       | Descr.    | Wt.   |
|--------------------------------|-----------|-------|
| <b>4400 Series (Continued)</b> |           |       |
| 109852                         | 4430V578  | 4.20  |
| 109854                         | 4430V610  | 4.30  |
| 109855                         | 4430V630  | 4.40  |
| 109856                         | 4430V660  | 4.50  |
| 109857                         | 4430V670  | 4.70  |
| 109858                         | 4430V690  | 4.90  |
| 109050                         | 4430V700  | 4.80  |
| 109861                         | 4430V710  | 5.10  |
| 109862                         | 4430V730  | 5.40  |
| 109863                         | 4430V740  | 5.30  |
| <b>4430 SERIES</b>             |           |       |
| 109865                         | 4430V760  | 5.40  |
| 109051                         | 4430V790  | 6.00  |
| 109052                         | 4430V850  | 6.30  |
| 109053                         | 4430V910  | 6.90  |
| 109054                         | 4430V970  | 6.70  |
| 109875                         | 4430V1030 | 7.50  |
| 109877                         | 4430V877  | 8.40  |
| 109879                         | 4430V1150 | 8.10  |
| 109882                         | 4430V1320 | 9.30  |
| 109885                         | 4430V1610 | 11.40 |

| Part No.           | Descr.    | Wt.   |
|--------------------|-----------|-------|
| 109886             | 4436V525  | 3.70  |
| 109887             | 4436V551  | 3.90  |
| 109889             | 4436V561  | 4.00  |
| 109890             | 4436V576  | 4.10  |
| 109892             | 4436V646  | 4.70  |
| <b>4600 SERIES</b> |           |       |
| 109894             | 4626V596  | 4.90  |
| 109896             | 4630V650  | 5.90  |
| 109897             | 4630V663  | 6.00  |
| 109901             | 4630V733  | 7.39  |
| 109904             | 4636V613  | 5.60  |
| <b>4800 SERIES</b> |           |       |
| 109906             | 4830V602  | 4.70  |
| 109908             | 4830V653  | 5.10  |
| 109910             | 4830V699  | 5.50  |
| 109916             | 4836V588  | 4.60  |
| 109918             | 4836V618  | 4.90  |
| 109920             | 4836V655  | 5.20  |
| 109057             | 4836V670  | 5.99  |
| 109927             | 4836V850  | 6.70  |
| 109066             | 4836V1180 | 11.52 |

| Part No.             | Descr.    | Wt.   |
|----------------------|-----------|-------|
| <b>5100 SERIES</b>   |           |       |
| 109825               | 5130V732  | 8.44  |
| 109935               | 5228V930  | 9.70  |
| 109936               | 5230V734  | 7.80  |
| 109829               | 5230V867  | 10.16 |
| <b>5600 SERIES</b>   |           |       |
| 109939               | 5636V750  | 8.20  |
| 109940               | 5636V774  | 8.40  |
| <b>3230HV SERIES</b> |           |       |
| 109789               | 3230HV528 | 2.60  |
| 109790               | 3230HV553 | 2.80  |
| 109791               | 3230HV570 | 2.90  |
| 109792               | 3230HV585 | 2.90  |
| 109793               | 3230HV603 | 3.20  |
| 109794               | 3230HV613 | 3.10  |
| 109795               | 3230HV620 | 3.10  |
| 109796               | 3230HV626 | 3.10  |
| 109797               | 3230HV644 | 3.20  |
| 109802               | 3230HV656 | 3.88  |
| 109798               | 3230HV670 | 3.40  |
| 109799               | 3230HV685 | 3.50  |

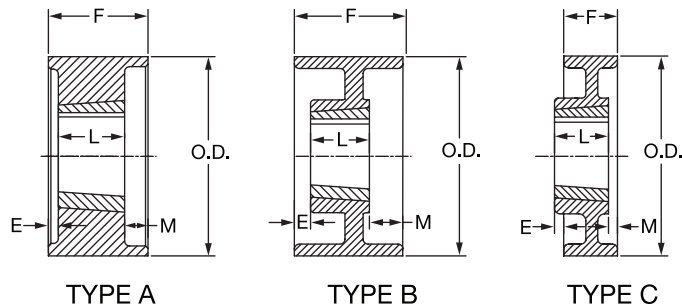
| Part No. | Descr.    | Wt.  |
|----------|-----------|------|
| 109800   | 3230HV702 | 3.50 |
| 109801   | 3230HV723 | 3.60 |
| 109806   | 3230HV821 | 4.85 |
| 109814   | 3230HV856 | 5.05 |
| 109816   | 3230HV931 | 5.49 |

## TAPER-LOCK FLAT FACE PULLEYS

The TAPER-LOCK flat face pulley was designed primarily to be used with adjustable speed drives using wide range belts. They are made of quality gray iron and are carefully static balanced.



TAPER-LOCK bushings grip the shaft but can be easily removed. One of the outstanding features is that they go from "shelf-to-shaft" without costly reboring, keyseating or machining.



| O.D.                    | Part No. | Description    | Wt.  | * Type | DIMENSIONS |      |      |
|-------------------------|----------|----------------|------|--------|------------|------|------|
|                         |          |                |      |        | L          | E    | M    |
| <b>2.5" FACE WIDTH</b>  |          |                |      |        |            |      |      |
| 5                       | 330250   | 5 X 2.5-2012   | 4.6  | A-1    | 1.25       | 0.25 | 1.0  |
| 6                       | 330251   | 6 X 2.5-2012   | 8.1  | A-1    | 1.25       | 0.25 | 1.0  |
| 7                       | 330252   | 7 X 2.5-2012   | 8.0  | B-2    | 1.25       | 0.38 | 0.88 |
| 8                       | 330253   | 8 X 2.5-2012   | 9.0  | B-2    | 1.25       | 0.38 | 0.88 |
| 9                       | 330254   | 9 X 2.5-2012   | 13.5 | B-2    | 1.25       | 0.44 | 0.81 |
| 10                      | 330255   | 10 X 2.5-2012  | 16.3 | B-2    | 1.25       | 0.44 | 0.81 |
| 11                      | 330256   | 11 X 2.5-2012  | 17.9 | B-3    | 1.25       | 0.44 | 0.81 |
| 12                      | 330257   | 12 X 2.5-2012  | 19.6 | B-3    | 1.25       | 0.44 | 0.81 |
| 14                      | 330258   | 14 X 2.5-3020  | 23.4 | C-3    | 2.0        | 0.38 | 0.88 |
| 16                      | 330259   | 16 X 2.5-3020  | 30.8 | C-3    | 2.0        | 0.38 | 0.88 |
| 18                      | 330260   | 18 X 2.5-3020  | 35.3 | C-3    | 2.0        | 0.38 | 0.88 |
| 20                      | 330261   | 20 X 2.5-3020  | 44.8 | C-3    | 2.0        | 0.44 | 0.94 |
| <b>3.25" FACE WIDTH</b> |          |                |      |        |            |      |      |
| 10                      | 330262   | 10 X 3.25-2012 | 18.2 | B-3    | 1.25       | 0.81 | 1.19 |
| 11                      | 330263   | 11 X 3.25-2012 | 20.5 | B-3    | 1.25       | 0.81 | 1.19 |
| 12                      | 330264   | 12 X 3.25-2012 | 22.4 | B-3    | 1.25       | 0.81 | 1.19 |
| 14                      | 330265   | 14 X 3.25-3020 | 28.4 | B-3    | 2.00       | 0.06 | 1.19 |
| 16                      | 330266   | 16 X 3.25-3020 | 39.4 | B-3    | 2.00       | 0.06 | 1.19 |
| 18                      | 330267   | 18 X 3.25-3020 | 38.5 | B-3    | 2.00       | 0.13 | 1.13 |
| 20                      | 330268   | 20 X 3.25-3020 | 48.8 | B-3    | 2.00       | 0.13 | 1.13 |
| 22                      | 330269   | 22 X 3.25-3020 | 51.8 | B-3    | 2.00       | 0.06 | 1.19 |
| 24                      | 330270   | 24 X 3.25-3020 | 58.3 | B-3    | 2.00       | 0.13 | 1.13 |
| <b>4.25" FACE WIDTH</b> |          |                |      |        |            |      |      |
| 12                      | 330271   | 12 x 4.25-3020 | 26.2 | B-3    | 2.0        | 0.06 | 2.19 |
| 14                      | 330272   | 14 x 4.25-3020 | 26.2 | B-3    | 2.0        | 0.13 | 2.13 |
| 16                      | 330273   | 16 x 4.25-3020 | 36.0 | B-3    | 2.0        | 0.13 | 2.13 |
| 18                      | 330274   | 18 x 4.25-3020 | 41.7 | B-3    | 2.0        | 0.13 | 2.13 |
| 20                      | 330279   | 20 x 4.25-3020 | 44.3 | B-3    | 2.0        | 0.13 | 2.13 |
| 22                      | 330275   | 22 x 4.25-3020 | 55.8 | B-3    | 2.0        | 0.13 | 2.13 |
| 24                      | 330276   | 24 x 4.25-3020 | 59.3 | B-3    | 2.0        | 0.13 | 2.13 |

\* Sheave Type: -1 = Block, -2 = Web, -3 = Arm

# DRIVE COMPONENT ACCESSORIES

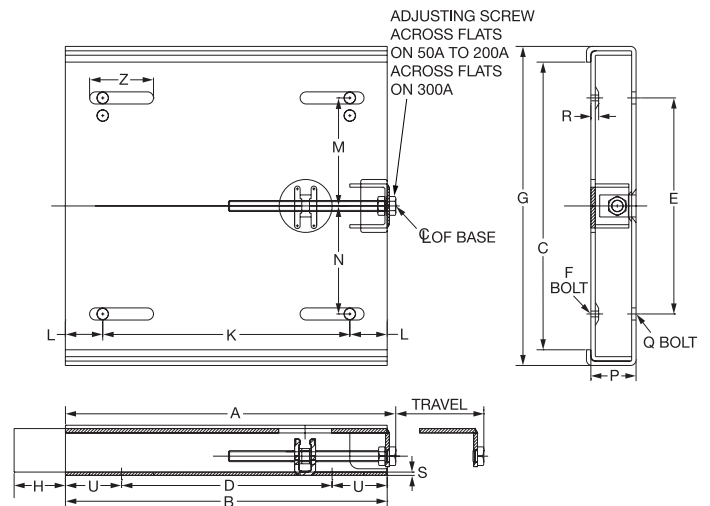


## DODGE Motor Bases TYPE A SLIDE MOTOR BASES



Type A Motor Bases are fabricated of steel which offers a base of rugged design, compact and smooth in appearance. These bases, which are designed to provide adequate travel, are fully adjustable by the use of a single adjusting screw and have elongated mounting holes in the base plate.

Order by base number. Bases are tapped to receive popular NEMA frames and can be tapped on order for others by specifying the frame size required. See table below.



| Base No.<br>Part No. | NEMA Motor Frame No. |                 | Travel | A     | B     | C     | D     | E     | F * | G     | H    | K    | L    |
|----------------------|----------------------|-----------------|--------|-------|-------|-------|-------|-------|-----|-------|------|------|------|
|                      | 1750 RPM             | 1160 RPM        |        |       |       |       |       |       |     |       |      |      |      |
| 50A<br>122120        | 213                  | 213, 213T       | 4.75   | 11.25 | 10.75 | 9.38  | 7.44  | 7     | 3/8 | 10.25 | 2.06 | 8.5  | 1.13 |
|                      | 215                  | 215             |        |       |       |       |       |       | 3/8 |       |      | 8.5  | 1.13 |
|                      | 182T*                | 182T*           |        |       |       |       |       |       | 3/8 |       |      | 7.5  | 1.63 |
|                      | 184T*                | 184T*           |        |       |       |       |       |       | 3/8 |       |      | 7.5  | 1.63 |
| 100A<br>122121       | 254, 254U            | 254, 254U, 254T | 4.75   | 13.5  | 13    | 12.81 | 8.25  | 10    | 1/2 | 14.25 | 2.38 | 10   | 1.5  |
|                      | 256U                 | 256U            |        |       |       |       |       |       | 1/2 |       |      | 10   | 1.5  |
|                      | 213T*                | .....           |        |       |       |       |       |       | 3/8 |       |      | 8.5  | 2.25 |
|                      | 215T*                | 215T*           |        |       |       |       |       |       | 3/8 |       |      | 5.5  | 2.25 |
|                      |                      |                 |        |       |       |       |       |       |     |       |      |      |      |
| 200A<br>122122       | 284, 284U, 284T      | 284, 284U, 284T | 6.88   | 16.75 | 16.25 | 15.81 | 11.50 | 12    | 1/2 | 17.25 | 3.38 | 11   | 2.63 |
|                      | 286U, 286T           | 286U, 286T      |        |       |       |       |       |       | 1/2 |       |      | 11   | 2.63 |
|                      | 324, 324U            | 324, 324U       |        |       |       |       |       |       | 5/8 |       |      | 12.5 | 1.88 |
|                      | 326, 326U            | 326, 326U       |        |       |       |       |       |       | 5/8 |       |      | 12.5 | 1.88 |
|                      | 254T*                | .....           |        |       |       |       |       |       | 1/2 |       |      | 10   | 3.13 |
|                      | 256T*                | 256T*           |        |       |       |       |       |       | 1/2 |       |      | 10   | 3.13 |
| 300A<br>122123       | 364, 364U            | 364, 364U       | 6.25   | 18.88 | 18.25 | 16.31 | 11.88 | 12.25 | 5/8 | 18.13 | 3.25 | 14   | 2.13 |
|                      | 365                  | 365             |        |       |       |       |       |       | 5/8 |       |      | 14   | 2.13 |
|                      | 324T*                | 324T*           |        |       |       |       |       |       | 5/8 |       |      | 12.5 | 2.88 |
|                      |                      |                 |        |       |       |       |       |       |     |       |      |      |      |

| Base No.<br>Part No. | M    | N    | P    | Q   | S   | U    | Z    |
|----------------------|------|------|------|-----|-----|------|------|
| 50A<br>122120        | 2.0  | 3.5  | 1.75 | .38 | .13 | 1.66 | 1.69 |
|                      | 3.5  | 3.5  |      |     |     |      |      |
|                      | 2.75 | 1.75 |      |     |     |      |      |
|                      | 2.75 | 2.75 |      |     |     |      |      |
| 100A<br>122121       | 3.25 | 5.0  | 2    | .68 | .19 | 2.38 | 2.5  |
|                      | 5.0  | 5.0  |      |     |     |      |      |
|                      | 2.75 | 2.75 |      |     |     |      |      |
|                      | 3.5  | 3.5  |      |     |     |      |      |
| 200A<br>122122       | 5.25 | 4.25 | 2.25 | .68 | .19 | 2.38 | 2.5  |
|                      | 5.25 | 5.75 |      |     |     |      |      |
|                      | 4.5  | 6.0  |      |     |     |      |      |
|                      | 6.0  | 6.0  |      |     |     |      |      |
|                      | 4.75 | 3.5  |      |     |     |      |      |
| 300A<br>122123       | 5.13 | 6.13 | 2.5  | .68 | .25 | 3.19 | 3.63 |
|                      | 6.13 | 6.13 |      |     |     |      |      |
|                      | 5.63 | 4.83 |      |     |     |      |      |
|                      |      |      |      |     |     |      |      |

\* Bases are tapped with national coarse threads for those motor frames not marked with an asterisk. Bases for motor frames marked with an asterisk will be drilled and tapped on order at an extra charge and will require "F" diameter bolts and nuts - when ordering specify NEMA motor frame size.

# DRIVE COMPONENT ACCESSORIES



V-Drives

FHP Drives

Drive Component Accessories

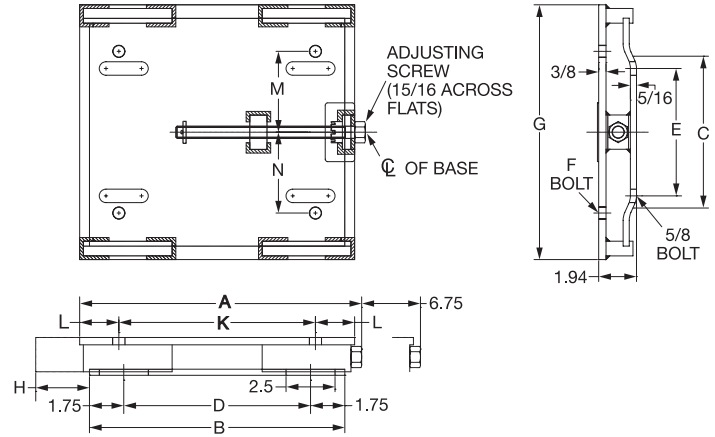
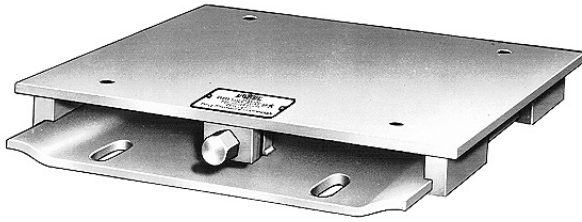
DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets

## DODGE Motor Bases TYPE B SLIDE MOTOR BASES



Type B Motor Bases are made of fabricated steel and include all of the same quality features as the Type A bases. Type B bases were primarily designed to be used where a base of heavier construction is required.

Order by base number. Bases are tapped to receive popular NEMA frames and can be tapped on order for others by specifying the frame size required. See table below.

| Base No.<br>Part No. | NEMA Motor Frame No. |              | Wt. | A     | B  | C     | D    | E    | F*  | G     | H    | K    | L    | M    | N    |
|----------------------|----------------------|--------------|-----|-------|----|-------|------|------|-----|-------|------|------|------|------|------|
|                      | 1750 RPM             | 1160 RPM     |     |       |    |       |      |      |     |       |      |      |      |      |      |
| 11B<br>122114        | 254, 254U            | 254, 254U    | 37  | 14.38 | 13 | 9.25  | 9.5  | 6.5  | 1/2 | 13    | 3.88 | 10.0 | 2.0  | 4.13 | 4.13 |
|                      | 215*                 | 215*, 215T*  |     |       |    |       |      |      | 3/8 |       |      | 8.5  | 2.75 | 3.5  | 3.5  |
|                      | 184T*                | 184T*        |     |       |    |       |      |      | 3/8 |       |      | 7.5  | 3.25 | 2.75 | 2.75 |
|                      | 213T*                | 213T*        |     |       |    |       |      |      | 3/8 |       |      | 8.5  | 2.75 | 2.75 | 2.75 |
| 22B<br>122115        | 284, 284U            | 284, 284U    | 37  | 14.38 | 13 | 9.25  | 9.5  | 6.5  | 1/2 | 13    | 3.88 | 11.0 | 1.5  | 4.75 | 4.75 |
|                      | 256U*                | 256U*, 265T* |     |       |    |       |      |      | 1/2 |       |      | 10.0 | 2.0  | 5.0  | 5.0  |
|                      | 215T*                | .....        |     |       |    |       |      |      | 3/8 |       |      | 8.5  | 2.75 | 3.5  | 3.5  |
|                      | 254T*                | 254T*        |     |       |    |       |      |      | 1/2 |       |      | 10.0 | 2.0  | 4.13 | 4.13 |
| 33B<br>122116        | 324, 324U            | 324, 324U    | 48  | 16.38 | 14 | 11.5  | 10.5 | 7.75 | 5/8 | 15.75 | 4.38 | 12.5 | 1.75 | 5.25 | 5.25 |
|                      | 326, 326U            | 326, 326U    |     |       |    |       |      |      | 5/8 |       |      | 12.5 | 1.75 | 6.0  | 6.0  |
|                      | 286U*, 286T*         | 286U*, 286T* |     |       |    |       |      |      | 1/2 |       |      | 11.0 | 2.5  | 5.5  | 5.5  |
|                      | 256T*                | .....        |     |       |    |       |      |      | 1/2 |       |      | 10.0 | 3.0  | 5.0  | 5.0  |
| 45B<br>122118        | 364, 364U            | 364, 364U    | 56  | 18.38 | 16 | 12.25 | 12.5 | 8    | 5/8 | 16.5  | 4.38 | 14.0 | 2.0  | 5.13 | 6.13 |
|                      | 365                  | 365          |     |       |    |       |      |      | 5/8 |       |      | 14.0 | 2.0  | 6.13 | 6.13 |
|                      | 324T*                | 324T*        |     |       |    |       |      |      | 5/8 |       |      | 12.5 | 2.75 | 5.75 | 4.75 |
|                      |                      |              |     |       |    |       |      |      |     |       |      |      |      |      |      |

\* Bases are tapped with national coarse threads for those motor frames not marked with an asterisk.

Bases for motor frames marked with an asterisk will be drilled and tapped on order at an extra charge and will require "F" diameter bolts and nuts – when ordering specify NEMA motor frame size.



## Shaft Collars



| Solid Steel Shaft Collars |             |           |            |       |       |      |
|---------------------------|-------------|-----------|------------|-------|-------|------|
| Shaft Size                | Part Number |           | Dimensions |       |       |      |
|                           | Steel       | Stainless | O.D.       | Width | Screw | Wt.  |
| 1/8                       | -           | 456225    | 3/8        | 1/4   | #6    | 0.01 |
| 3/16                      | 040001      | 456226    | 7/16       | 1/4   | #8    | 0.01 |
| 1/4                       | 040002      | 456227    | 1/2        | 5/16  | #10   | 0.01 |
| 5/16                      | 040003      | 456228    | 5/8        | 5/16  | #10   | 0.02 |
| 3/8                       | 040004      | 456229    | 3/4        | 3/8   | 1/4   | 0.03 |
| 7/16                      | 040005      |           | 7/8        | 7/16  | 1/4   | 0.05 |
| 1/2                       | 040006      | 456230    | 1          | 7/16  | 1/4   | 0.07 |
| 9/16                      | 040007      |           | 1          | 7/16  | 1/4   | 0.06 |
| 5/8                       | 040008      | 456231    | 1-1/8      | 1/2   | 5/16  | 0.09 |
| 11/16                     | 040009      |           | 1-1/4      | 9/16  | 5/16  | 0.13 |
| 3/4                       | 040010      | 456232    | 1-1/4      | 9/16  | 5/16  | 0.12 |
| 13/16                     | 040011      |           | 1-1/4      | 9/16  | 5/16  | 0.11 |
| 7/8                       | 040012      | 456233    | 1-1/2      | 9/16  | 5/16  | 0.18 |
| 15/16                     | 040013      |           | 1-1/2      | 9/16  | 5/16  | 0.17 |
| 1                         | 040014      | 456234    | 1-1/2      | 5/8   | 5/16  | 0.17 |
| 1-1/16                    | 040015      |           | 1-3/4      | 5/8   | 5/16  | 0.26 |
| 1-1/8                     | 040016      | 456235    | 1-3/4      | 5/8   | 5/16  | 0.24 |
| 1-3/16                    | 040017      |           | 2          | 11/16 | 3/8   | 0.38 |
| 1-1/4                     | 040018      | 456236    | 2          | 11/16 | 3/8   | 0.36 |
| 1-5/16                    | 010019      |           | 2-1/8      | 11/16 | 3/8   | 0.41 |
| 1-3/8                     | 040020      |           | 2-1/8      | 3/4   | 3/8   | 0.42 |
| 1-7/16                    | 040021      |           | 2-1/4      | 3/4   | 3/8   | 0.48 |
| 1-1/2                     | 040022      | 456237    | 2-1/4      | 3/4   | 3/8   | 0.45 |
| 1-9/16                    | 040023      |           | 2-1/2      | 13/16 | 3/8   | 0.67 |
| 1-5/8                     | 040024      |           | 2-1/2      | 13/16 | 3/8   | 0.63 |
| 1-11/16                   | 040025      |           | 2-1/2      | 13/16 | 3/8   | 0.59 |
| 1-3/4                     | 040026      | 456238    | 2-5/8      | 7/8   | 1/2   | 0.71 |
| 1-7/8                     | 040027      |           | 2-3/4      | 7/8   | 1/2   | 0.76 |
| 1-15/16                   | 040028      |           | 3          | 7/8   | 1/2   | 0.98 |
| 2                         | 040029      | 456239    | 3          | 7/8   | 1/2   | 0.93 |
| 2-3/16                    | 040030      |           | 3-1/4      | 15/16 | 1/2   | 1.16 |
| 2-1/4                     | 040031      |           | 3-1/4      | 15/16 | 1/2   | 1.11 |
| 2-7/16                    | 040032      |           | 3-1/2      | 1     | 1/2   | 1.36 |
| 2-1/2                     | 040033      |           | 3-1/2      | 1     | 1/2   | 1.30 |
| 2-15/16                   | 040034      |           | 4          | 1-1/8 | 1/2   | 1.83 |

| Bore Tolerance |                 |
|----------------|-----------------|
| Bore           | Tolerance       |
| 1/8 - 1/2      | +0.0005/+0.0025 |
| 9/16 - 2       | +0.0005/+0.0030 |
| >2             | +0.0010/+0.0040 |

| Solid Iron Shaft Collars |             |            |       |      |
|--------------------------|-------------|------------|-------|------|
| Shaft Size               | Part Number | Dimensions |       |      |
|                          |             | O.D.       | Width | Wt.  |
| 1-15/16                  | 010020      | 3-3/8      | 1-3/8 | 1.75 |
| 2                        | 010021      | 3-3/8      | 1-3/8 | 1.75 |
| 2-3/16                   | 010024      | 3-3/4      | 1-3/8 | 3    |
| 2-7/16                   | 010028      | 4-1/4      | 1-1/2 | 3    |
| 2-1/2                    | 010029      | 4-1/4      | 1-1/2 | 3    |
| 2-11/16                  | 010032      | 4-3/4      | 1-1/2 | 5    |
| 2-15/16                  | 010036      | 5          | 1-5/8 | 5    |
| 3-3/16                   | 010039      | 5-1/2      | 1-5/8 | 7    |
| 3-7/16                   | 010043      | 5-3/4      | 1-3/4 | 8    |
| 3-15/16                  | 010048      | 6-1/2      | 1-7/8 | 10.5 |
| 4-7/16                   | 010051      | 7-1/4      | 2     | 13.5 |
| 4-15/16                  | 010054      | 8          | 2-1/8 | 17   |
| 5-7/16                   | 010055      | 8-3/4      | 2-1/8 | 20   |
| 5-15/16                  | 010056      | 9-1/4      | 2-1/4 | 22   |
| 6                        | 010057      | 9-1/4      | 2-1/4 | 22   |
| 6-1/2                    | 010058      | 10         | 2-1/4 | 25   |
| 7                        | 010059      | 10-1/2     | 2-3/8 | 30   |
| 7-1/2                    | 010060      | 11-3/8     | 2-1/2 | 35   |
| 8                        | 010061      | 12-1/8     | 2-7/8 | 45   |

| Bore Tolerance |               |
|----------------|---------------|
| Bore           | Tolerance     |
| <1-1/2         | +0.002/+0.004 |
| 1-9/16 - 2-1/2 | +0.003/+0.005 |
| 2-9/16 - 4     | +0.003/+0.006 |
| 4-1/16 - 6     | +0.003/+0.007 |
| 6-1/16 - 8     | +0.004/+0.008 |

| Split Iron Shaft Collars |             |            |         |      |
|--------------------------|-------------|------------|---------|------|
| Shaft Size               | Part Number | Dimensions |         |      |
|                          |             | O.D.       | Width   | Wt.  |
| 1-1/8                    | 010075      | 3-1/8      | 1-1/4   | 1.3  |
| 1-3/16                   | 010076      | 3-1/8      | 1-1/4   | 1.3  |
| 1-1/4                    | 010077      | 3-1/8      | 1-1/4   | 1.3  |
| 1-5/16                   | 010078      | 3-3/8      | 1-7/16  | 1.5  |
| 1-7/16                   | 010080      | 3-3/8      | 1-7/16  | 1.5  |
| 1-1/2                    | 010081      | 3-3/8      | 1-7/16  | 1.5  |
| 1-11/16                  | 010084      | 3-3/4      | 1-9/16  | 2.3  |
| 1-3/4                    | 010085      | 3-3/4      | 1-9/16  | 2.3  |
| 1-15/16                  | 010088      | 4-1/16     | 1-3/4   | 2.8  |
| 2                        | 010089      | 4-1/16     | 1-3/4   | 2.8  |
| 2-3/16                   | 010092      | 4-1/2      | 1-7/8   | 3.0  |
| 2-1/4                    | 010093      | 4-1/2      | 1-7/8   | 3.0  |
| 2-7/16                   | 010096      | 4-7/8      | 2       | 4.0  |
| 2-1/2                    | 010097      | 4-7/8      | 2       | 4.0  |
| 2-11/16                  | 010100      | 5-5/16     | 2-1/16  | 5.0  |
| 2-15/16                  | 010104      | 5-5/8      | 2-5/16  | 5.8  |
| 3                        | 010105      | 5-5/8      | 2-5/16  | 5.8  |
| 3-3/16                   | 010107      | 6-1/16     | 2-3/8   | 8.5  |
| 3-7/16                   | 010110      | 6-7/8      | 2-9/16  | 9.8  |
| 3-11/16                  | 010112      | 6-13/16    | 2-5/8   | 10.0 |
| 3-15/16                  | 010114      | 7-3/16     | 2-3/4   | 11.0 |
| 4-7/16                   | 010117      | 8-1/8      | 3-5/16  | 16.5 |
| 4-15/16                  | 010120      | 8-3/4      | 3-1/2   | 20.5 |
| 5-7/16                   | 010123      | 9-5/8      | 3-3/4   | 28.0 |
| 5-15/16                  | 010126      | 10-1/8     | 4-1/16  | 30.0 |
| 6                        | 010127      | 10-1/8     | 4-1/16  | 30.0 |
| 6-1/2                    | 010128      | 11         | 4-1/4   | 41.0 |
| 7                        | 010129      | 12         | 4-1/2   | 46.0 |
| 7-1/2                    | 010130      | 12-15/16   | 4-11/16 | 56.0 |
| 8                        | 010131      | 13-5/8     | 5-1/16  | 69.0 |

| Bore Tolerance |               |
|----------------|---------------|
| Bore           | Tolerance     |
| <1-1/2         | +0.002/+0.004 |
| 1-9/16 - 2-1/2 | +0.003/+0.005 |
| 2-9/16 - 4     | +0.003/+0.006 |
| 4-1/16 - 6     | +0.003/+0.007 |
| 6-1/16 - 8     | +0.004/+0.008 |

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

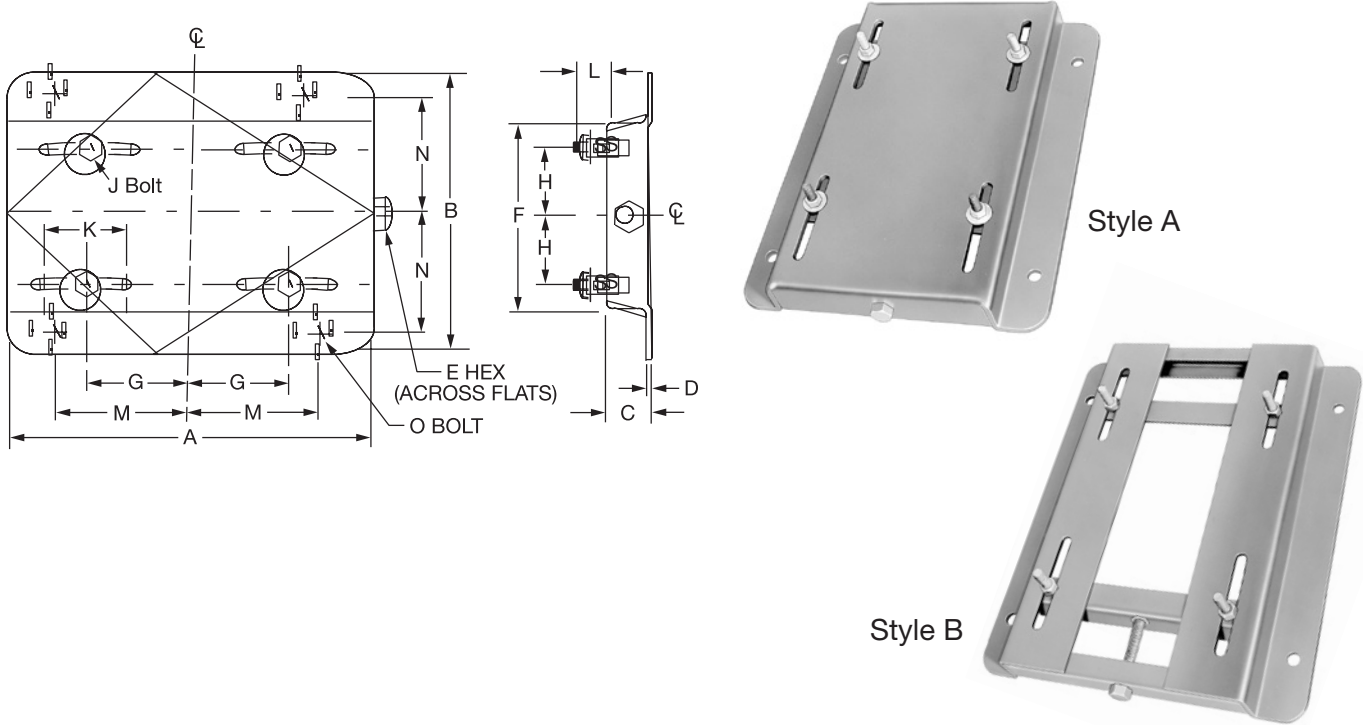
Roller Chain Sprockets





## Adjustable NEMA Motor Bases

DODGE Adjustable motor bases provide a convenient method for mounting standard NEMA-frame motors. Hex- screw "E" is used to adjust the drive center distance over range "K" for tensioning V-Belt and Synchronous belt drives. Once the drive is tensioned, bolts "J" are tightened for a secure, stable mounting of the motor.



| Base No. | Part No. | Wt.  | Style | Dimensions |       |      |      |       |      |      |      |      |      |      |      | Bolt Dimensions |      |     |  |
|----------|----------|------|-------|------------|-------|------|------|-------|------|------|------|------|------|------|------|-----------------|------|-----|--|
|          |          |      |       | A          | B     | C    | D    | F     | G    | H    | K    | L    | M    | N    | Adj. | Hex             | J    | O   |  |
| 56       | 122090   | 3.0  | A     | 10.63      | 6.50  | 1.13 | 0.08 | 4.50  | 2.44 | 1.50 | 3.00 | 0.87 | 3.81 | 2.88 | 3/8  | 9/16            | 5/16 | 3/8 |  |
| 143      | 122091   | 5.0  | A     | 10.50      | 7.50  | 1.13 | 0.12 | 5.50  | 2.75 | 2.00 | 3.00 | 0.81 | 3.75 | 3.38 | 3/8  | 9/16            | 5/16 | 3/8 |  |
| 145      | 122092   | 6.0  | A     | 10.50      | 8.50  | 1.13 | 0.12 | 6.50  | 2.75 | 2.50 | 3.00 | 0.81 | 3.75 | 3.88 | 3/8  | 9/16            | 5/16 | 3/8 |  |
| 182      | 122093   | 9.0  | A     | 12.75      | 9.50  | 1.50 | 0.13 | 6.50  | 3.75 | 2.25 | 3.00 | 1.25 | 4.50 | 4.25 | 1/2  | 3/4             | 3/8  | 1/2 |  |
| 184      | 122094   | 9.5  | A     | 12.75      | 10.50 | 1.50 | 0.13 | 7.50  | 3.75 | 2.75 | 3.00 | 1.25 | 4.50 | 4.75 | 1/2  | 3/4             | 3/8  | 1/2 |  |
| 213      | 122095   | 13.5 | A     | 15.00      | 11.00 | 1.75 | 0.16 | 7.50  | 4.25 | 2.75 | 3.50 | 1.25 | 5.25 | 4.75 | 1/2  | 3/4             | 3/8  | 1/2 |  |
| 215      | 122096   | 15.5 | A     | 15.00      | 12.50 | 1.75 | 0.16 | 9.00  | 4.25 | 3.50 | 3.50 | 1.25 | 5.25 | 5.50 | 1/2  | 3/4             | 3/8  | 1/2 |  |
| 254      | 122097   | 17.5 | B     | 17.75      | 15.13 | 2.00 | 0.19 | 10.75 | 5.00 | 4.13 | 4.00 | 1.44 | 6.25 | 6.63 | 5/8  | 15/16           | 1/2  | 5/8 |  |
| 256      | 122098   | 18.5 | B     | 17.75      | 16.88 | 2.00 | 0.19 | 12.50 | 5.00 | 5.00 | 4.00 | 1.44 | 6.25 | 7.50 | 5/8  | 15/16           | 1/2  | 5/8 |  |
| 284      | 122099   | 21.0 | B     | 19.75      | 16.88 | 2.00 | 0.19 | 12.50 | 5.50 | 4.75 | 4.50 | 1.69 | 7.00 | 7.50 | 5/8  | 15/16           | 1/2  | 5/8 |  |
| 286      | 122100   | 22.0 | B     | 19.75      | 18.38 | 2.00 | 0.19 | 14.00 | 5.50 | 5.50 | 4.50 | 1.69 | 7.00 | 8.25 | 5/8  | 15/16           | 1/2  | 5/8 |  |
| 324      | 122101   | 31.0 | B     | 22.75      | 19.25 | 2.50 | 0.19 | 14.00 | 6.25 | 5.25 | 5.25 | 2.19 | 8.00 | 8.25 | 3/4  | 1-1/8           | 5/8  | 3/4 |  |
| 326      | 122102   | 32.0 | B     | 22.75      | 20.75 | 2.50 | 0.19 | 15.50 | 6.25 | 6.00 | 5.25 | 2.19 | 8.00 | 9.25 | 3/4  | 1-1/8           | 5/8  | 3/4 |  |
| 364      | 122103   | 44.0 | B     | 25.50      | 20.50 | 2.50 | 0.25 | 15.50 | 7.00 | 5.63 | 6.00 | 2.06 | 9.00 | 9.13 | 3/4  | 1-1/8           | 5/8  | 3/4 |  |
| 365      | 122104   | 45.0 | B     | 25.50      | 21.50 | 2.50 | 0.25 | 16.50 | 7.00 | 6.13 | 6.00 | 2.06 | 9.00 | 9.63 | 3/4  | 1-1/8           | 5/8  | 3/4 |  |



## DYNA-SYNC® Drives

|                                |          |
|--------------------------------|----------|
| <b>Features/Benefits</b> ..... | PT10-2   |
| <b>Specification: Pulleys</b>  |          |
| XL Pitch .....                 | PT10-3   |
| L Pitch .....                  | PT10-4   |
| H Pitch .....                  | PT10-6   |
| XH Pitch .....                 | PT10-7   |
| Reborable .....                | PT10-9   |
| <b>Specification: Belts</b>    |          |
| Dual DYNA-SYNC .....           | PT10-11  |
| XL Pitch .....                 | PT10-12  |
| L Pitch .....                  | PT10-12  |
| H Pitch .....                  | PT10-13  |
| XH Pitch .....                 | PT10-13  |
| XXH Pitch .....                | PT10-13  |
| <b>Selection</b> .....         | PT10-14  |
| XL Pitch .....                 | PT10-18  |
| L Pitch .....                  | PT10-24  |
| H Pitch .....                  | PT10-30  |
| XH Pitch .....                 | PT10-36  |
| Basic HP Ratings .....         | PT10-43  |
| <b>Engineering/Technical</b>   |          |
| Dimensions, Tolerances .....   | PT10-44  |
| Installation .....             | PT10-45  |
| Tensioning .....               | PT10-45  |
| Belt Working Tension .....     | PT10-45  |
| Part Number Index .....        | INDEX-1  |
| Keyword Index .....            | INDEX-43 |

V-Drives

FHP Drives

Drive Component  
Accessories

DYNA-SYNC

HT200/HTD  
Synchronous Drives

HT500  
Synchronous Drives

Roller Chain Sprockets





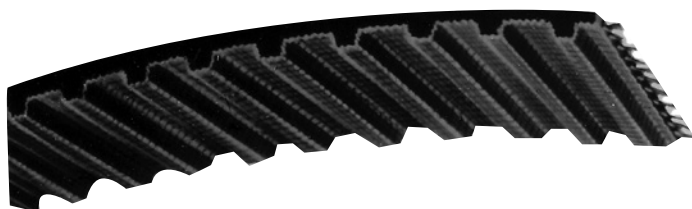
# FEATURES/BENEFITS

## DYNA-SYNC Drives

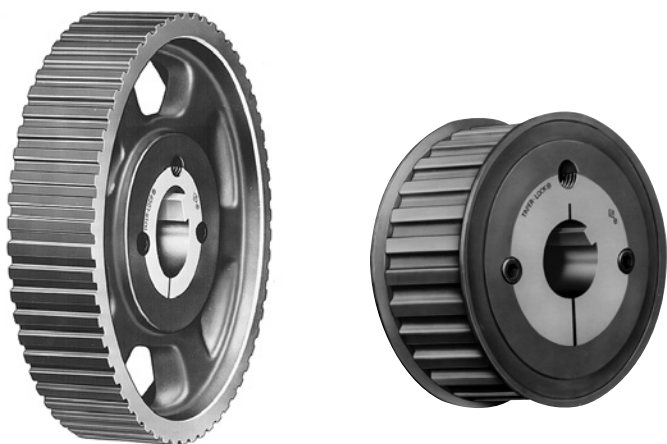


### The Original Timing Drive

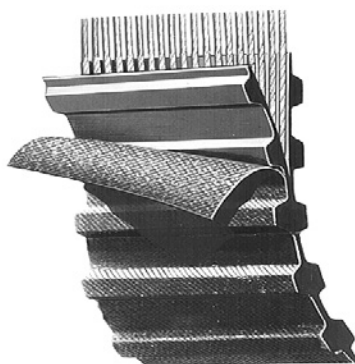
- Synchronized No-Slip Transmission
- No Lubrication Required
- Efficiency: Approximately 98%
- Low Maintenance
- Virtually No Backlash
- Constant Linear Velocity
- Drive Ratios to 8.5:1
- Pitches: XL, L, H, and XH



### DYNA-SYNC Pulley

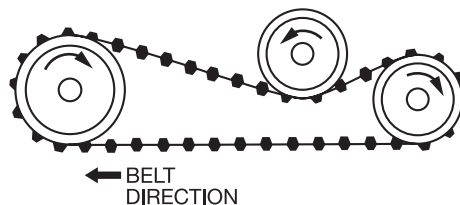


- Tough, Tensile Cords, No-Stretch Fiberglass
- Durable Neoprene Rubber Body
- Long-Wearing Nylon Duck Facing
- Oil, Heat, and Ozone Resistant



- Dual-Sided Teeth Available for Serpentine Drives

- Clean, Compact TAPER-LOCK Design
- Easy-on/Easy-off
- Precision Manufactured in ISO9000 Certified Plant
- Flanged Design Standard on Driver Sizes



V-Drives

FHP Drives

Drive Component  
Accessories

DYNA-SYNC

HT200/HTD  
Synchronous Drives

HT500  
Synchronous Drives

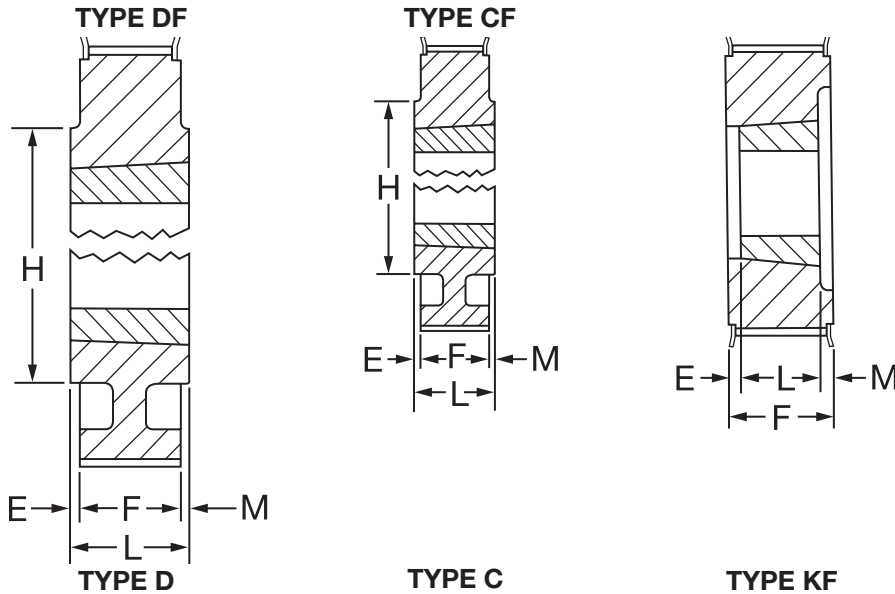
Roller Chain Sprockets





## SPECIFICATIONS

### DYNA-SYNC Pulleys - L PITCH



#### L075 - 3/8" Pitch (.75" Wide Belt)

F=1.00"

| No. of Teeth | Description   | Part No. | Wt  | Pitch Dia. (P.D.) | Max. Fig. O.D. | Type † | Brushed Bore Range |         | Dimensions |      |      |      |
|--------------|---------------|----------|-----|-------------------|----------------|--------|--------------------|---------|------------|------|------|------|
|              |               |          |     |                   |                |        | Min.               | Max.    | E          | H    | L    | M    |
|              |               |          |     |                   |                |        |                    |         |            |      |      |      |
| 18           | TL18L075-1108 | 113589   | .45 | 2.149             | 2.39           | KF-1   | 1/2                | 1-1/8   | .06        | .... | .88  | .06  |
| 20           | TL20L075-1108 | 113594   | .68 | 2.387             | 2.63           | KF-1   | 1/2                | 1-1/8   | .06        | .... | .88  | .06  |
| 22           | TL22L075-1108 | 113595   | .90 | 2.626             | 2.87           | KF-1   | 1/2                | 1-1/8   | .06        | .... | .88  | .06  |
| 24           | TL24L075-1210 | 113513   | 1.0 | 2.865             | 3.11           | KF-1   | 1/2                | 1-1/4   | 0          | .... | 1.00 | .... |
| 26           | TL26L075-1210 | 113515   | 1.2 | 3.104             | 3.34           | KF-1   | 1/2                | 1-1/4   | 0          | .... | 1.00 | .... |
| 28           | TL28L075-1610 | 113517   | 1.2 | 3.342             | 3.58           | KF-1   | 1/2                | 1-11/16 | 0          | .... | 1.00 | .... |
| 30           | TL30L075-1610 | 113519   | 1.5 | 3.581             | 3.83           | KF-1   | 1/2                | 1-11/16 | 0          | .... | 1.00 | .... |
| 32           | TL32L075-1610 | 113521   | 1.9 | 3.820             | 4.06           | KF-1   | 1/2                | 1-11/16 | 0          | .... | 1.00 | .... |
| 40           | TL40L075-2012 | 113527   | 2.4 | 4.775             | 5.02           | CF-1   | 1/2                | 2-1/8   | .25        | 3.94 | 1.25 | 0    |
| 48           | TL48L075-2012 | 113533   | 3.2 | 5.730             | 6.02           | CF-1   | 1/2                | 2-1/8   | .25        | 3.94 | 1.25 | 0    |
| 60           | TL60L075-2012 | 113534   | 4.9 | 7.162             | None           | C-2    | 1/2                | 2-1/8   | .13        | 4.38 | 1.25 | .13  |
| 72           | TL72L075-2012 | 113535   | 6.5 | 8.594             |                | C-1    | 1/2                | 2-1/8   | .13        | 4.38 | 1.25 | .13  |
| 84           | TL84L075-2517 | 113536   | 7.8 | 10.027            | C-1            | 1/2    | 2-11/16            | .25     | 4.88       | 1.75 | .50  |      |

#### L100 - 3/8" Pitch (1" Wide Belt)

F=1.25"

| No. of Teeth | Description   | Part No. | Wt  | Pitch Dia. (P.D.) | Max. Fig. O.D. | Type † | Brushed Bore Range |         | Dimensions |      |      |      |
|--------------|---------------|----------|-----|-------------------|----------------|--------|--------------------|---------|------------|------|------|------|
|              |               |          |     |                   |                |        | Min.               | Max.    | E          | H    | L    | M    |
|              |               |          |     |                   |                |        |                    |         |            |      |      |      |
| 18           | TL18L100-1108 | 113599   | .7  | 2.149             | 2.39           | KF-1   | 1/2                | 1-1/8   | .06        | ...  | .87  | .31  |
| 20           | TL20L100-1108 | 113641   | 1.0 | 2.387             | 2.63           | KF-1   | 1/2                | 1-1/8   | .06        | ...  | .87  | .31  |
| 22           | TL22L100-1108 | 113669   | 1.3 | 2.626             | 2.87           | KF-1   | 1/2                | 1-1/8   | .06        | ...  | .87  | .31  |
| 24           | TL24L100-1210 | 113562   | 1.3 | 2.865             | 3.11           | KF-1   | 1/2                | 1-1/4   | .06        | ...  | 1    | .19  |
| 26           | TL26L100-1210 | 113564   | 1.7 | 3.104             | 3.34           | KF-1   | 1/2                | 1-1/4   | .06        | ...  | 1    | .19  |
| 28           | TL28L100-1610 | 113566   | 1.7 | 3.342             | 3.58           | KF-1   | 1/2                | 1-11/16 | .11        | ...  | 1    | .15  |
| 30           | TL30L100-1610 | 113568   | 2.2 | 3.581             | 3.83           | KF-1   | 1/2                | 1-11/16 | .11        | ...  | 1    | .15  |
| 32           | TL32L100-1610 | 113570   | 2.7 | 3.820             | 4.06           | KF-1   | 1/2                | 1-11/16 | .25        | ...  | 1    | 0    |
| 40           | TL40L100-2012 | 113576   | 3.6 | 4.775             | 5.02           | KF-1   | 1/2                | 2-1/8   | 0          | ...  | 1.25 | .... |
| 48           | TL48L100-2012 | 113582   | 5.1 | 5.730             | 6.02           | KF-1   | 1/2                | 2-1/8   | 0          | ...  | 1.25 | .... |
| 60           | TL60L100-2012 | 113583   | 6.0 | 7.162             | None           | C-2    | 1/2                | 2-1/8   | 0          | 4.38 | 1.25 | .... |
| 72           | TL72L100-2012 | 113584   | 8.0 | 8.594             |                | C-2    | 1/2                | 2-1/8   | 0          | 4.38 | 1.25 | .... |
| 84           | TL84L100-2517 | 113585   | 9.2 | 10.027            | C-1            | 1/2    | 2-11/16            | .55     | 4.88       | 1.75 | .... |      |

† Dash 1 = Block, 2 = Web, 3 = Arm.. (See page PT10-3, V-Drives Section) Letter "F" indicates pulley is flanged.

◇ See page PT10-8 - PT10-10 for MPB sizes.

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|

# SPECIFICATIONS



## DYNA-SYNC Pulleys - L, H



- † Dash 1 = Block, 2 = Web, 3 = Arm  
Letter "F" indicates pulley is flanged
- + Available from stock in Min. Plain Bore (MPB) only  
Max. bore is without keyway. (If keyway is used, reduce max bore listed by twice the keyway depth.)
- ◇ See page PT10-9 for additional MPB sizes

### H100 - 1/2" Pitch (1" Wide Belt) (for H075 & H100 Belts)

F=1.32"

| No. of Teeth | Description<br>◇ | Part No. | Wt.  | Pitch Dia. (P.D.) | Max. Fig. O.D. | Type † | Bore Range |         | Dimensions |      |      |     |
|--------------|------------------|----------|------|-------------------|----------------|--------|------------|---------|------------|------|------|-----|
|              |                  |          |      |                   |                |        | Min.       | Max.    | E          | H    | L    | M   |
| 14           | TL14H100-1108    | 113678   | .8   | 2.228             | 2.48           | KF-1   | 1/2        | 1-1/8   | .06        | .... | .88  | .42 |
| 16           | TL16H100-1108    | 113684   | 1.3  | 2.546             | 2.80           | KF-1   | 1/2        | 1-1/8   | .06        | .... | .88  | .42 |
| 18           | TL18H100-1210    | 113605   | 1.2  | 2.865             | 3.11           | KF-1   | 1/2        | 1-1/4   | .06        | .... | 1    | .25 |
| 20           | TL20H100-1210    | 113608   | 1.7  | 3.183             | 3.44           | KF-1   | 1/2        | 1-1/4   | .11        | .... | 1    | .25 |
| 22           | TL22H100-1610    | 113611   | 1.8  | 3.501             | 3.75           | KF-1   | 1/2        | 1-11/16 | .11        | .... | 1    | .25 |
| 24           | TL24H100-1610    | 113642   | 2.3  | 3.820             | 4.02           | KF-1   | 1/2        | 1-11/16 | .11        | .... | 1    | .25 |
| 26           | TL26H100-2012    | 113615   | 2.2  | 4.138             | 4.39           | KF-1   | 1/2        | 2-1/8   | .06        | .... | 1.25 | 0   |
| 28           | TL28H100-2012    | 113617   | 2.8  | 4.456             | 4.70           | KF-1   | 1/2        | 2-1/8   | .06        | .... | 1.25 | 0   |
| 30           | TL30H100-2012    | 113620   | 4.2  | 4.775             | 5.02           | KF-1   | 1/2        | 2-1/8   | .06        | .... | 1.25 | 0   |
| 32           | TL32H100-2517    | 113623   | 4.1  | 5.093             | 5.33           | CF-1   | 1/2        | 2-11/16 | .44        | 4.44 | 1.75 | 0   |
| 40           | TL40H100-2517    | 113629   | 7.8  | 6.366             | 6.58           | CF-1   | 1/2        | 2-11/16 | .44        | 4.44 | 1.75 | 0   |
| 48           | TL48H100-2517    | 113635   | 12.1 | 7.639             | 8.02           | CF-1   | 1/2        | 2-11/16 | .44        | 4.44 | 1.75 | 0   |
| 60           | TL60H100-3020    | 113636   | 10.3 | 9.549             | None           | C-2    | 7/8        | 3-1/4   | .34        | 6.25 | 2    | .34 |
| 72           | TL72H100-3020    | 113637   | 14   | 11.459            |                | C-1    | 7/8        | 3-1/4   | .34        | 6.25 | 2    | .34 |
| 84           | TL84H100-3020    | 113638   | 20   | 13.369            |                | C-2    | 7/8        | 3-1/4   | .34        | 6.25 | 2    | .34 |
| 96           | TL96H100-3020    | 113639   | 27   | 15.279            |                | C-2    | 7/8        | 3-1/4   | .34        | 6.25 | 2    | .34 |
| 120          | TL120H100-3020   | 113640   | 38   | 19.099            | C-3            | 7/8    | 3-1/4      | 0       | 6.25       | 2    | .59  |     |

### H150 - 1/2" Pitch (1.5" Wide Belt)

F=1.86"

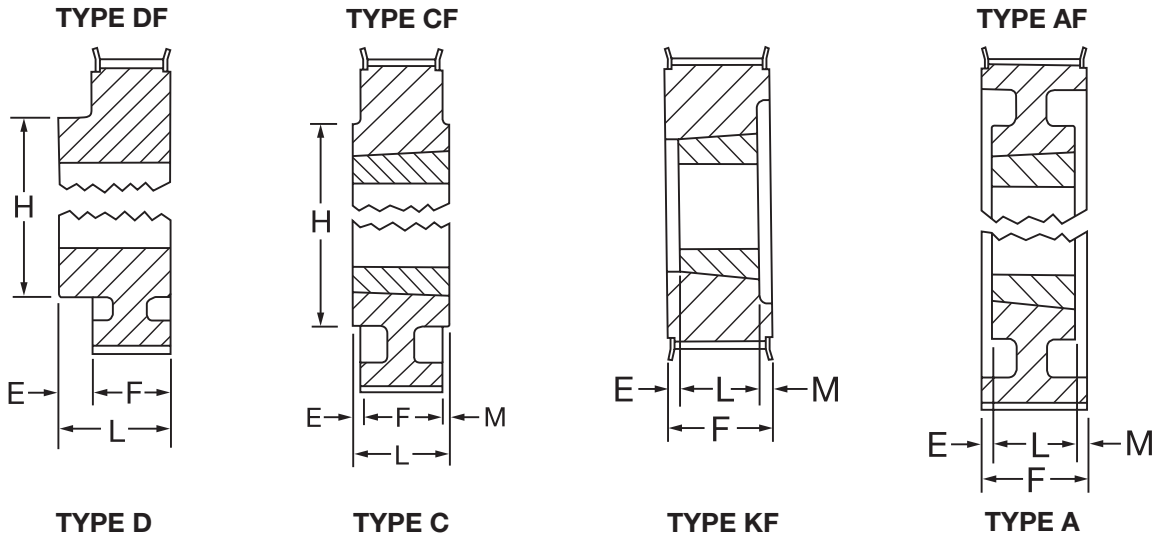
| No. of Teeth | Description<br>◇ | Part No. | Wt.  | Pitch Dia. (P.D.) | Max. Fig. O.D. | Type † | Bore Range |         | Dimensions |      |      |     |
|--------------|------------------|----------|------|-------------------|----------------|--------|------------|---------|------------|------|------|-----|
|              |                  |          |      |                   |                |        | Min.       | Max.    | E          | H    | L    | M   |
| 14           | TL14H150-1108    | 113691   | 1.0  | 2.228             | 2.48           | KF-1   | 1/2        | 1       | .47        | .... | .88  | .88 |
| 16           | TL16H150-1108    | 113692   | 1.5  | 2.546             | 2.80           | KF-1   | 1/2        | 1       | .47        | .... | .88  | .88 |
| 18           | TL18H150-1210    | 113693   | 1.6  | 2.865             | 3.11           | KF-1   | 1/2        | 1-1/4   | .11        | .... | 1    | .75 |
| 20           | TL20H150-1210    | 113694   | 2.2  | 3.183             | 3.44           | KF-1   | 1/2        | 1-1/4   | .11        | .... | 1    | .75 |
| 22           | TL22H150-1610    | 113695   | 2.5  | 3.501             | 3.75           | KF-1   | 1/2        | 1-11/16 | .11        | .... | 1    | .75 |
| 24           | TL24H150-2012    | 113663   | 2.2  | 3.820             | 4.06           | KF-1   | 1/2        | 2-1/8   | .56        | .... | 1.25 | 0   |
| 26           | TL26H150-2012    | 113665   | 3.2  | 4.138             | 4.78           | KF-1   | 1/2        | 2-1/8   | .56        | .... | 1.25 | 0   |
| 28           | TL28H150-2012    | 113667   | 4.1  | 4.456             | 4.70           | KF-1   | 1/2        | 2-1/8   | .56        | .... | 1.25 | 0   |
| 30           | TL30H150-2012    | 113670   | 5.1  | 4.775             | 5.02           | KF-1   | 1/2        | 2-1/8   | .56        | .... | 1.25 | 0   |
| 32           | TL32H150-2517    | 113673   | 4.6  | 5.093             | 5.33           | KF-1   | 1/2        | 2-11/16 | .11        | .... | 1.75 | 0   |
| 40           | TL40H150-2517    | 113679   | 8.6  | 6.366             | 6.58           | KF-1   | 1/2        | 2-11/16 | .11        | .... | 1.75 | 0   |
| 48           | TL48H150-2517    | 113685   | 13.6 | 7.639             | 8.02           | AF-2   | 1/2        | 2-11/16 | 0          | .... | 1.75 | .06 |
| 60           | TL60H150-3020    | 113686   | 12.3 | 9.549             | None           | C-2    | 7/8        | 3-1/4   | .09        | 6.25 | 2    | .09 |
| 72           | TL72H150-3020    | 113687   | 17.0 | 11.459            |                | C-2    | 7/8        | 3-1/4   | .09        | 6.25 | 2    | .09 |
| 84           | TL84H150-3020    | 113688   | 21.5 | 13.369            |                | C-3    | 7/8        | 3-1/4   | .09        | 6.25 | 2    | .09 |
| 96           | TL96H150-3020    | 113689   | 31   | 15.279            |                | C-3    | 7/8        | 3-15/16 | .09        | 6.25 | 2    | .09 |
| 120          | TL120H150-3020   | 113690   | 40   | 19.099            | C-3            | 7/8    | 3-1/4      | .09     | 6.25       | 2    | .09  |     |

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|



## SPECIFICATIONS

### DYNA-SYNC Pulleys - H



#### H200 - 1/2" Pitch (2" Wide Belt)

F=2.34"

| No. of Teeth | Description    | Part No. | Wt.  | Pitch Dia. (P.D.) | Max. Flg. O.D. | Type † | Bore Range |         | Dimensions |     |      |     |
|--------------|----------------|----------|------|-------------------|----------------|--------|------------|---------|------------|-----|------|-----|
|              |                |          |      |                   |                |        | Min.       | Max.    | E          | H   | L    | M   |
| 16           | TL16H200-1108  | 113072   | 1.9  | 2.546             | 2.80           | KF-1   | 1/2        | 1-1/8   | .75        | 0   | .88  | .72 |
| 18           | TL18H200-1215  | 113704   | 1.8  | 2.865             | 3.11           | KF-1   | 1/2        | 1-1/4   | .44        | 0   | 1.5  | .41 |
| 20           | TL20H200-1215  | 113707   | 2.6  | 3.183             | 3.44           | KF-1   | 1/2        | 1-1/4   | .42        | 0   | 1.5  | .42 |
| 22           | TL22H200-1615  | 113710   | 28   | 3.501             | 3.75           | KF-1   | 1/2        | 1-5/8   | .42        | 0   | 1.5  | .42 |
| 24           | TL24H200-2012  | 113712   | 2.6  | 3.820             | 4.06           | KF-1   | 1/2        | 2       | .55        | 0   | 1.25 | .55 |
| 26           | TL26H200-2012  | 113714   | 3.6  | 4.138             | 4.78           | KF-1   | 1/2        | 2       | .55        | 0   | 1.25 | .55 |
| 28           | TL28H200-2012  | 113716   | 5.1  | 4.456             | 4.70           | KF-1   | 1/2        | 2       | .55        | 0   | 1.25 | .55 |
| 30           | TL30H200-2012  | 113719   | 7.0  | 4.775             | 5.02           | KF-1   | 1/2        | 2       | 1.09       | 0   | 1.25 | 0   |
| 32           | TL32H200-2517  | 113722   | 5.5  | 5.093             | 5.33           | KF-1   | 1/2        | 2-1/2   | .59        | 0   | 1.75 | 0   |
| 40           | TL40H200-2517  | 113728   | 9.9  | 6.366             | 6.58           | KF-1   | 1/2        | 2-1/2   | .59        | 0   | 1.75 | 0   |
| 48           | TL48H200-3020  | 113734   | 14.3 | 7.639             | 8.02           | KF-1   | 7/8        | 3       | .41        | 0   | 2    | 0   |
| 60           | TL60H200-3020  | 113735   | 15.3 | 9.549             |                | A-2    | 7/8        | 3       | .17        | 0   | 2    | .17 |
| 72           | TL72H200-3020  | 113736   | 21   | 11.459            |                | A-2    | 7/8        | 3-1/4   | 0          | 0   | 2    | .34 |
| 84           | TL84H200-3020  | 113737   | 23   | 13.369            |                | A-3    | 7/8        | 3-1/4   | 0          | 0   | 2    | .34 |
| 96           | TL96H200-3535  | 113738   | 34   | 15.279            |                | C-3    | 1-3/16     | 3-15/16 | .40        | 7.0 | 3.5  | .75 |
| 120          | TL120H200-3020 | 113739   | 42   | 19.099            |                | A-3    | 7/8        | 3-1/4   | 0          | 0   | 2    | .34 |

#### H300 - 1/2" Pitch (3" Wide Belt)

F=3.38"

| No. of Teeth | Description    | Part No. | Wt.  | Pitch Dia. (P.D.) | Max. Flg. O.D. | Type † | Brushed Bore Range |               | Dimensions |     |       |      |
|--------------|----------------|----------|------|-------------------|----------------|--------|--------------------|---------------|------------|-----|-------|------|
|              |                |          |      |                   |                |        | Min.               | Max.          | E          | H   | L     | M    |
|              |                |          |      |                   |                |        | 16                 | TL16H300-1108 | 113073     | 2.5 | 2.546 | 2.80 |
| 18           | TL18H300-1215  | 113752   | 2.6  | 2.865             | 3.11           | KF-1   | 1/2                | 1-1/4         | .94        | 0   | 1.5   | .94  |
| 20           | TL20H300-1215  | 113755   | 3.9  | 3.183             | 3.44           | KF-1   | 1/2                | 1-1/4         | .94        | 0   | 1.5   | .94  |
| 22           | TL22H300-1615  | 113758   | 4.0  | 3.501             | 3.75           | KF-1   | 1/2                | 1-11/16       | .94        | 0   | 1.5   | .94  |
| 24           | TL24H300-2012  | 113760   | 4.3  | 3.820             | 4.06           | KF-1   | 1/2                | 2-1/8         | 1.06       | 0   | 1.25  | 1.06 |
| 26           | TL26H300-2012  | 113762   | 5.4  | 4.138             | 4.78           | KF-1   | 1/2                | 2-1/8         | 1.06       | 0   | 1.25  | 1.06 |
| 28           | TL28H300-2012  | 113764   | 6.8  | 4.456             | 4.70           | KF-1   | 1/2                | 2-1/8         | 1.06       | 0   | 1.25  | 1.06 |
| 30           | TL30H300-2012  | 113767   | 7.5  | 4.775             | 5.02           | KF-1   | 1/2                | 2-1/8         | 1.06       | 0   | 1.25  | 1.06 |
| 32           | TL32H300-2517  | 113770   | 7.4  | 5.093             | 5.33           | KF-1   | 1/2                | 2-11/16       | .81        | 0   | 1.75  | .81  |
| 40           | TL40H300-2517  | 113776   | 12.1 | 6.366             | 6.58           | KF-1   | 1/2                | 2-11/16       | .81        | 0   | 1.75  | .81  |
| 48           | TL48H300-3020  | 113782   | 16.3 | 7.639             | 8.02           | KF-1   | 7/8                | 3-1/4         | .69        | 0   | 2     | .69  |
| 60           | TL60H300-3020  | 113783   | 17.3 | 9.549             |                | A-2    | 7/8                | 3-1/4         | .69        | 0   | 2     | .69  |
| 72           | TL72H300-3020  | 113784   | 23   | 11.459            |                | A-2    | 7/8                | 3-1/4         | .31        | 0   | 2     | 1.06 |
| 84           | TL84H300-3020  | 113785   | 30   | 13.369            |                | A-3    | 7/8                | 3-1/4         | .69        | 0   | 2     | .69  |
| 96           | TL96H300-3535  | 113786   | 38   | 15.279            |                | C-3    | 1-3/16             | 3-15/16       | .06        | 0   | 3.5   | .06  |
| 120          | TL120H300-3535 | 113787   | 51   | 19.099            |                | C-3    | 1-3/16             | 3-15/16       | .125       | 7.0 | 3.5   | 0    |

† Dash 1 = Block, 2 = Web, 3 = Arm. Letter "F" indicates pulley is flanged.

◇ See page PT10-8 - PT10-10 for MPB sizes.

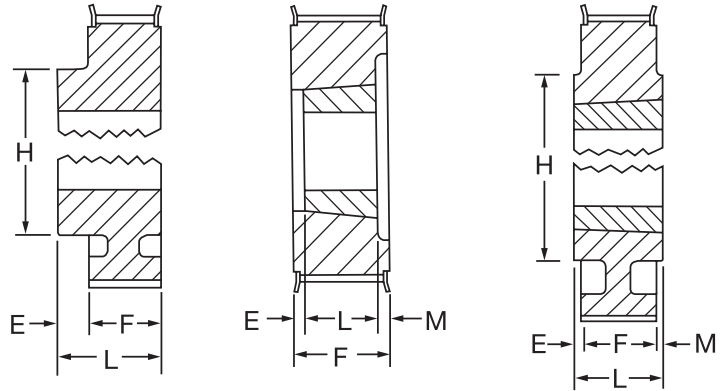
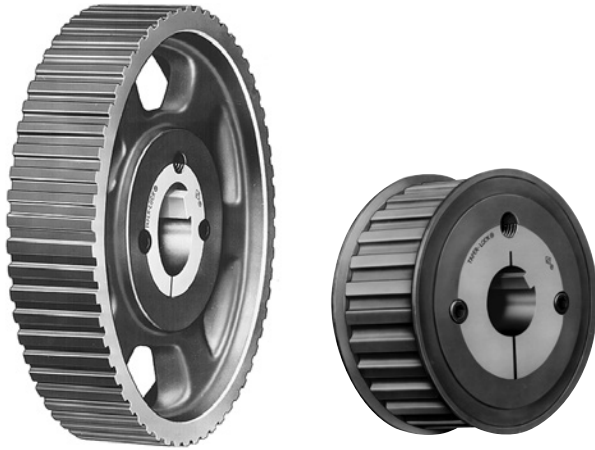
|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|



# SPECIFICATIONS



## DYNA-SYNC Pulleys - XH



### XH200 - 7/8" Pitch (2" Wide Belt)

**F=2.56"**

| No. of Teeth | Description<br>◇ | Part No.      | Wt.  | Pitch Dia. (P.D.) | Max. Flg. O.D. | Type † | Bore Range |         | Dimensions |      |      |     |
|--------------|------------------|---------------|------|-------------------|----------------|--------|------------|---------|------------|------|------|-----|
|              |                  |               |      |                   |                |        | Min.       | Max.    | E          | H    | L    | M   |
| 18           | TL18XH200-2012   | <b>113074</b> | 12   | 5.013             | 5.58           | KF-1   | 1/2        | 2-1/8   | .84        | ...  | 1.25 | .47 |
| 20           | TL20XH200-2012   | <b>113120</b> | 16   | 5.570             | 6.11           | KF-1   | 1/2        | 2-1/8   | .84        | ...  | 1.25 | .47 |
| 22           | TL22XH200-2517   | <b>113804</b> | 10.6 | 6.127             | 6.59           | KF-1   | 1/2        | 2-11/16 | .81        | .... | 1.75 | 0   |
| 24           | TL24XH200-3020   | <b>113807</b> | 11.3 | 6.685             | 7.28           | KF-1   | 7/8        | 3-1/4   | .56        | .... | 2.0  | 0   |
| 26           | TL26XH200-3020   | <b>113810</b> | 13.3 | 7.241             | 7.78           | KF-1   | 7/8        | 3-1/4   | .56        | .... | 2.0  | 0   |
| 28           | TL28XH200-3535   | <b>113813</b> | 13.5 | 7.799             | 8.27           | CF-1   | 1-3/16     | 3-15/16 | .94        | 6.50 | 3.5  | 0   |
| 30           | TL30XH200-3535   | <b>113816</b> | 18.5 | 8.356             | 9.31           | CF-1   | 1-3/16     | 3-15/16 | .94        | 6.50 | 3.5  | 0   |
| 32           | TL32XH200-3535   | <b>113819</b> | 21.5 | 8.913             | 9.52           | CF-1   | 1-3/16     | 3-15/16 | .94        | 6.50 | 3.5  | 0   |
| 40           | TL40XH200-4040   | <b>113822</b> | 37.5 | 11.141            | 11.80          | CF-1   | 1-7/16     | 4-7/16  | 1.44       | 8.50 | 4.0  | 0   |
| 48           | TL48XH200-4040   | <b>113823</b> | 44.5 | 13.369            | None           | C-2    | 1-7/16     | 4-7/16  | .72        | 8.50 | 4.0  | .72 |
| 60           | TL60XH200-4040   | <b>113824</b> | 47   | 16.711            |                | C-3    | 1-7/16     | 4-7/16  | .72        | 8.50 | 4.0  | .72 |

### XH300 - 7/8" Pitch (3" Wide Belt)

**F=3.63"**

| No. of Teeth | Description<br>◇ | Part No.      | Wt.  | Pitch Dia. (P.D.) | Max. Flg. O.D. | Type † | Bore Range |         | Dimensions |      |      |      |
|--------------|------------------|---------------|------|-------------------|----------------|--------|------------|---------|------------|------|------|------|
|              |                  |               |      |                   |                |        | Min.       | Max.    | E          | H    | L    | M    |
| 18           | TL18XH300-2012   | <b>113121</b> | 15   | 5.013             | 5.58           | KF-1   | 1/2        | 2-1/8   | 1.38       | ...  | 1.25 | 1.0  |
| 20           | TL20XH300-2012   | <b>113122</b> | 19   | 5.570             | 6.11           | KF-1   | 1/2        | 2-1/8   | 1.38       | ...  | 1.25 | 1.0  |
| 22           | TL22XH300-2517   | <b>113854</b> | 13.6 | 6.127             | 6.59           | KF-1   | 1/2        | 2-11/16 | .94        | .... | 1.75 | .94  |
| 24           | TL24XH300-3020   | <b>113857</b> | 15.3 | 6.685             | 7.28           | KF-1   | 7/8        | 3-1/4   | .81        | .... | 2.0  | .81  |
| 26           | TL26XH300-3020   | <b>113860</b> | 17.3 | 7.241             | 7.78           | KF-1   | 7/8        | 3-1/4   | .81        | .... | 2.0  | .81  |
| 28           | TL28XH300-3535   | <b>113863</b> | 17.3 | 7.799             | 8.27           | KF-1   | 1-3/16     | 3-15/16 | .13        | .... | 3.5  | .... |
| 30           | TL30XH300-3535   | <b>113866</b> | 22.5 | 8.356             | 9.31           | KF-1   | 1-3/16     | 3-15/16 | .13        | .... | 3.5  | .... |
| 32           | TL32XH300-3535   | <b>113869</b> | 26.5 | 8.913             | 9.52           | KF-1   | 1-3/16     | 3-15/16 | .13        | .... | 3.5  | .... |
| 40           | TL40XH300-4040   | <b>113872</b> | 43.5 | 11.141            | 11.80          | CF-1   | 1-7/16     | 4-7/16  | .38        | 7.50 | 4.0  | .... |
| 48           | TL48XH300-4040   | <b>113873</b> | 51.5 | 13.369            | None           | C-1    | 1-7/16     | 4-7/16  | .19        | 8.50 | 4.0  | .19  |
| 60           | TL60XH300-4040   | <b>113874</b> | 55.5 | 16.711            |                | C-3    | 1-7/16     | 4-7/16  | .19        | 8.50 | 4.0  | .19  |

† Dash 1 = Block, 2 = Web, 3 = Arm. (See page PT10-3, V-Drives Section) Letter "F" indicates pulley is flanged.

**XXH Pulley Note:** Discontinued Product. Recommend that drive be redesigned to HT100 or HT150. Refer to HT section of this catalog.

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|

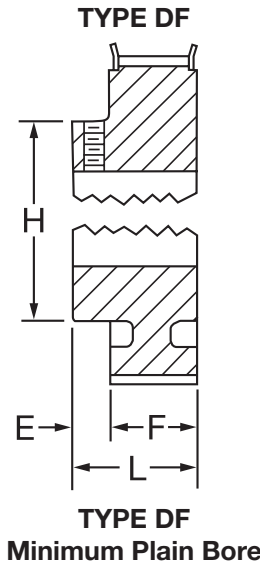


# SPECIFICATIONS

## DYNA-SYNC Pulleys - XL037



Minimum Plain Bore



### XL037 - 1/5" Pitch (.375" Wide Belt) - Minimum Plain Bore

F = 0.56"

| No of Teeth | Description | Part Number     | Approx. Weight | Pitch Dia (PD) | Fig O.D. | Type | Stock Bore * | Max Bore * | Dimension |      |     |
|-------------|-------------|-----------------|----------------|----------------|----------|------|--------------|------------|-----------|------|-----|
|             |             |                 |                |                |          |      |              |            | H         | L    | E   |
| 10          | 10XL037-MPB | <b>113400</b>   | .08            | 0.637          | .88      | DF-1 | 3/16         | 3/16       | .44       | .81  | .25 |
| 11          | 11XL037-MPB | <b>113401</b>   | .09            | 0.700          | .94      | DF-1 | 3/16         | 3/16       | .50       | .81  | .25 |
| 12          | 12XL037-MPB | <b>113402</b>   | .10            | 0.764          | 1.00     | DF-1 | 3/16         | 1/2        | .50       | .81  | .25 |
| 14          | 14XL037-MPB | <b>113403</b>   | .13            | 0.891          | 1.03     | DF-1 | 1/4          | 1/4        | .56       | .81  | .25 |
| 15          | 15XL037-MPB | <b>113404</b>   | .14            | 0.955          | 1.19     | DF-1 | 1/4          | 5/16       | .63       | .81  | .25 |
| 16          | 16XL037-MPB | <b>113405</b>   | .17            | 1.019          | 1.25     | DF-1 | 1/4          | 3/8        | .69       | .81  | .25 |
| 18          | 18XL037-MPB | <b>113406</b>   | .20            | 1.146          | 1.38     | DF-1 | 1/4          | 1/2        | .81       | .81  | .25 |
| 20          | 20XL037-MPB | <b>113407</b>   | .25            | 1.273          | 1.50     | DF-1 | 1/4          | 9/16       | .94       | .88  | .32 |
| 21          | 21XL037-MPB | <b>113408</b>   | .26            | 1.337          | 1.56     | DF-1 | 1/4          | 9/16       | 1.00      | .88  | .32 |
| 22          | 22XL037-MPB | <b>113409</b>   | .30            | 1.401          | 1.63     | DF-1 | 1/4          | 5/8        | 1.00      | .88  | .32 |
| 24          | 24XL037-MPB | <b>113410</b>   | .35            | 1.528          | 1.75     | DF-1 | 1/4          | 11/16      | 1.06      | .91  | .35 |
| 28          | 28XL037-MPB | <b>113411</b>   | .46            | 1.783          | 2.00     | DF-1 | 1/4          | 13/16      | 1.19      | .91  | .35 |
| 30          | 30XL037-MPB | <b>113412</b>   | .55            | 1.910          | 2.13     | DF-1 | 5/16         | 15/16      | 1.31      | .91  | .35 |
| 32          | 32XL037-MPB | • <b>113413</b> | .71            | 2.037          | ---      | D-1  | 5/16         | 1-3/16     | 1.50      | 1.00 | .44 |
| 36          | 36XL037-MPB | • <b>113414</b> | .85            | 2.292          | ---      | D-1  | 5/16         | 1-3/16     | 1.50      | 1.00 | .44 |
| 40          | 40XL037-MPB | • <b>113415</b> | .99            | 2.546          | ---      | D-1  | 5/16         | 1-3/16     | 1.50      | 1.00 | .44 |
| 42          | 42XL037-MPB | • <b>113416</b> | 1.09           | 2.674          | ---      | D-1  | 5/16         | 1-3/16     | 1.50      | 1.00 | .44 |
| 44          | 44XL037-MPB | • <b>113417</b> | 1.17           | 2.801          | ---      | D-1  | 5/16         | 1-3/16     | 1.50      | 1.00 | .44 |
| 48          | 48XL037-MPB | • <b>113418</b> | 1.19           | 3.056          | ---      | D-1  | 5/16         | 1-3/16     | 1.50      | 1.00 | .44 |
| 60          | 60XL037-MPB | • <b>113419</b> | 2.02           | 3.820          | ---      | D-2  | 3/8          | 1-3/16     | 1.50      | 1.00 | .44 |
| 72          | 72XL037-MPB | • <b>113420</b> | 2.81           | 4.584          | ---      | D-2  | 3/8          | 1-3/16     | 1.50      | 1.00 | .44 |

**NOTE:** Above pulleys are supplied with two (2) set screws at 90 deg.  
Max. bore is without keyway. (if keyway is used, reduce max bore by twice the keyway depth.)

\* Standard keyways are listed on page PT1-83

• Aluminum

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|



# SPECIFICATIONS



## DYNA-SYNC Pulleys - Reborable Minimum Plain Bore

### L050 - 3/8" Pitch (.5" Wide Belt) - Minimum Plain Bore

F = 0.75"

| No of Teeth | Description | Part Number | Approx. Weight | Pitch Dia (PD) | Flg O.D. | Type | Stock Bore | Max Bore | Dimension |      |     |
|-------------|-------------|-------------|----------------|----------------|----------|------|------------|----------|-----------|------|-----|
|             |             |             |                |                |          |      |            |          | H         | L    | E   |
| 10          | 10L050-MPB  | 113450      | .26            | 1.194          | 1.44     | DF-1 | 3/8        | 1/2      | .81       | 1.25 | .50 |
| 12          | 12L050-MPB  | 113451      | .38            | 1.432          | 1.66     | DF-1 | 3/8        | 3/4      | 1.00      | 1.25 | .50 |
| 13          | 13L050-MPB  | 114441      | .50            | 1.552          | 1.78     | DF-1 | 3/8        | 3/4      | 1.13      | 1.25 | .50 |
| 14          | 14L050-MPB  | 113452      | .55            | 1.671          | 1.91     | DF-1 | 3/8        | 3/4      | 1.13      | 1.25 | .50 |
| 15          | 15L050-MPB  | 114442      | .66            | 2.030          | 2.03     | DF-1 | 1/2        | 7/8      | 1.34      | 1.25 | .50 |
| 16          | 16L050-MPB  | 113453      | .69            | 1.790          | 2.13     | DF-1 | 1/2        | 1        | 1.44      | 1.25 | .50 |
| 17          | 17L050-MPB  | 114301      | .84            | 1.910          | 2.25     | DF-1 | 1/2        | 1        | 1.44      | 1.25 | .50 |
| 18          | 18L050-MPB  | 114302      | .87            | 2.149          | 2.38     | DF-1 | 1/2        | 1        | 1.56      | 1.25 | .50 |
| 19          | 19L050-MPB  | 114303      | 1.11           | 2.268          | 2.50     | DF-1 | 1/2        | 1        | 1.69      | 1.25 | .50 |
| 20          | 20L050-MPB  | 114304      | 1.20           | 2.378          | 2.63     | DF-1 | 1/2        | 1        | 1.69      | 1.25 | .50 |
| 21          | 21L050-MPB  | 114305      | 1.41           | 2.507          | 2.75     | DF-1 | 1/2        | 1-1/4    | 2.00      | 1.25 | .50 |
| 22          | 22L050-MPB  | 114306      | 1.50           | 2.626          | 2.88     | DF-1 | 1/2        | 1-1/4    | 2.00      | 1.25 | .50 |
| 24          | 24L050-MPB  | 114307      | 1.80           | 2.865          | 3.09     | DF-1 | 1/2        | 1-3/8    | 2.25      | 1.25 | .50 |
| 26          | 26L050-MPB  | 114308      | 2.07           | 3.104          | 3.33     | DF-1 | 1/2        | 1-3/8    | 2.25      | 1.25 | .50 |
| 28          | 28L050-MPB  | 114309      | 2.33           | 3.342          | 3.57     | DF-1 | 1/2        | 1-3/8    | 2.25      | 1.25 | .50 |
| 30          | 30L050-MPB  | 114310      | 2.58           | 3.581          | 3.80     | DF-1 | 1/2        | 1-3/8    | 2.25      | 1.25 | .50 |
| 32          | 32L050-MPB  | 114311      | 3.13           | 3.820          | 4.04     | DF-1 | 1/2        | 1-5/8    | 2.63      | 1.25 | .50 |
| 36          | 36L050-MPB  | 114443      | 4.39           | 4.297          | 4.52     | DF-1 | 1/2        | 2-5/16   | 3.50      | 1.25 | .50 |
| 40          | 40L050-MPB  | 114444      | 5.16           | 4.775          | 5.00     | DF-1 | 1/2        | 2-3/8    | 3.63      | 1.25 | .50 |

### L075 - 3/8" Pitch (.75" Wide Belt) - Minimum Plain Bore

F = 1.00"

|    |            |        |      |       |      |      |     |        |      |      |     |
|----|------------|--------|------|-------|------|------|-----|--------|------|------|-----|
| 12 | 12L075-MPB | 113500 | .46  | 1.432 | 1.66 | DF-1 | 3/8 | 1/2    | 1.00 | 1.50 | .50 |
| 13 | 13L075-MPB | 114445 | .62  | 1.552 | 1.78 | DF-1 | 3/8 | 3/4    | 1.13 | 1.50 | .50 |
| 14 | 14L075-MPB | 113501 | .69  | 1.671 | 1.91 | DF-1 | 3/8 | 3/4    | 1.13 | 1.50 | .50 |
| 15 | 15L075-MPB | 114446 | .81  | 1.790 | 2.03 | DF-1 | 1/2 | 7/8    | 1.34 | 1.50 | .50 |
| 16 | 16L075-MPB | 113502 | .84  | 1.910 | 2.13 | DF-1 | 1/2 | 1      | 1.44 | 1.50 | .50 |
| 17 | 17L075-MPB | 114312 | 1.03 | 2.029 | 2.25 | DF-1 | 1/2 | 1      | 1.44 | 1.50 | .50 |
| 18 | 18L075-MPB | 114313 | 1.17 | 2.149 | 2.38 | DF-1 | 1/2 | 1      | 1.56 | 1.50 | .50 |
| 19 | 19L075-MPB | 114314 | 1.32 | 2.268 | 2.50 | DF-1 | 1/2 | 1      | 1.69 | 1.50 | .50 |
| 20 | 20L075-MPB | 114315 | 1.44 | 2.387 | 2.63 | DF-1 | 1/2 | 1-1/4  | 1.69 | 1.50 | .50 |
| 21 | 21L075-MPB | 114316 | 1.68 | 2.507 | 2.75 | DF-1 | 5/8 | 1-1/4  | 2.00 | 1.50 | .50 |
| 22 | 22L075-MPB | 114317 | 1.79 | 2.626 | 2.88 | DF-1 | 5/8 | 1-3/8  | 2.00 | 1.50 | .50 |
| 24 | 24L075-MPB | 114318 | 2.22 | 2.865 | 3.09 | DF-1 | 5/8 | 1-3/8  | 2.25 | 1.50 | .50 |
| 26 | 26L075-MPB | 114319 | 2.48 | 3.104 | 3.33 | DF-1 | 5/8 | 1-3/8  | 2.25 | 1.50 | .50 |
| 28 | 28L075-MPB | 114320 | 2.84 | 3.342 | 3.57 | DF-1 | 5/8 | 1-3/8  | 2.25 | 1.50 | .50 |
| 30 | 30L075-MPB | 114321 | 3.24 | 3.581 | 3.80 | DF-1 | 5/8 | 1-3/8  | 2.25 | 1.50 | .50 |
| 32 | 32L075-MPB | 114322 | 3.77 | 3.820 | 4.04 | DF-1 | 5/8 | 1-5/8  | 2.63 | 1.50 | .50 |
| 36 | 36L075-MPB | 114447 | 5.33 | 4.297 | 4.52 | DF-1 | 5/8 | 2-5/16 | 3.50 | 1.50 | .50 |
| 40 | 40L075-MPB | 114448 | 6.31 | 4.775 | 5.00 | DF-1 | 5/8 | 2-3/8  | 3.63 | 1.50 | .50 |

### L100 - 3/8" Pitch (1" Wide Belt) - Minimum Plain Bore

F = 1.25"

|    |            |        |      |       |      |      |     |        |      |      |     |
|----|------------|--------|------|-------|------|------|-----|--------|------|------|-----|
| 13 | 13L100-MPB | 114449 | .72  | 1.552 | 1.78 | DF-1 | 3/8 | 3/4    | 1.13 | 1.75 | .50 |
| 14 | 14L100-MPB | 113550 | .82  | 1.671 | 1.91 | DF-1 | 3/8 | 3/4    | 1.13 | 1.75 | .50 |
| 15 | 15L100-MPB | 114450 | .96  | 1.790 | 2.03 | DF-1 | 1/2 | 7/8    | 1.34 | 1.75 | .50 |
| 16 | 16L100-MPB | 113551 | .98  | 1.910 | 2.13 | DF-1 | 1/2 | 1      | 1.44 | 1.75 | .50 |
| 17 | 17L100-MPB | 114323 | 1.23 | 2.029 | 2.25 | DF-1 | 1/2 | 1      | 1.44 | 1.75 | .50 |
| 18 | 18L100-MPB | 114324 | 1.38 | 2.149 | 2.38 | DF-1 | 1/2 | 1      | 1.56 | 1.75 | .50 |
| 19 | 19L100-MPB | 114325 | 1.56 | 2.268 | 2.50 | DF-1 | 1/2 | 1      | 1.69 | 1.75 | .50 |
| 20 | 20L100-MPB | 114326 | 1.71 | 2.387 | 2.63 | DF-1 | 1/2 | 1      | 1.69 | 1.75 | .50 |
| 21 | 21L100-MPB | 114327 | 1.97 | 2.507 | 2.75 | DF-1 | 5/8 | 1-1/4  | 2.00 | 1.75 | .50 |
| 22 | 22L100-MPB | 114328 | 2.13 | 2.626 | 2.88 | DF-1 | 5/8 | 1-1/4  | 2.00 | 1.75 | .50 |
| 24 | 24L100-MPB | 114329 | 2.60 | 2.865 | 3.09 | DF-1 | 5/8 | 1-3/8  | 2.25 | 1.75 | .50 |
| 26 | 26L100-MPB | 114330 | 3.12 | 3.104 | 3.33 | DF-1 | 5/8 | 1-5/8  | 2.44 | 1.75 | .50 |
| 28 | 28L100-MPB | 114331 | 3.65 | 3.342 | 3.57 | DF-1 | 5/8 | 1-3/4  | 2.69 | 1.75 | .50 |
| 30 | 30L100-MPB | 114332 | 4.19 | 3.581 | 3.80 | DF-1 | 5/8 | 1-7/8  | 2.81 | 1.75 | .50 |
| 32 | 32L100-MPB | 114333 | 4.86 | 3.820 | 4.04 | DF-1 | 5/8 | 2      | 3.13 | 1.75 | .50 |
| 36 | 36L100-MPB | 114451 | 6.24 | 4.297 | 4.52 | DF-1 | 5/8 | 2-5/16 | 3.50 | 1.75 | .50 |
| 40 | 40L100-MPB | 114452 | 7.52 | 4.775 | 5.00 | DF-1 | 5/8 | 2-5/16 | 3.63 | 1.75 | .50 |

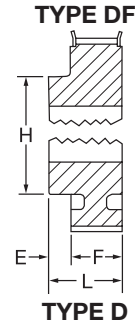
**NOTE:** Available from stock in Min. Plain Bore (MPB) only.  
Max. bore is without keyway. (if keyway is used, reduce max bore by twice the keyway depth.)

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|



# SPECIFICATIONS

## DYNA-SYNC Pulleys - Reborable Minimum Plain Bore



### H100 - 1/2" Pitch (1" Wide Belt) - Minimum Plain Bore

F = 1.25"

| No of Teeth | Description | Part Number | Approx Weight | Pitch Dia (PD) | Flg O.D. | Type | Stock Bore | Max Bore | Dimension |      |      |
|-------------|-------------|-------------|---------------|----------------|----------|------|------------|----------|-----------|------|------|
|             |             |             |               |                |          |      |            |          | H         | L    | E    |
| 14          | 14H100-MPB  | 114334      | 1.48          | 2.228          | 2.46     | DF-1 | 5/8        | 7/8      | 1.63      | 1.88 | .63  |
| 16          | 16H100-MPB  | 114335      | 2.12          | 2.546          | 2.78     | DF-1 | 5/8        | 1-1/8    | 1.88      | 2.00 | .75  |
| 17          | 17H100-MPB  | 114453      | 2.42          | 2.706          | 2.94     | DF-1 | 5/8        | 1-1/4    | 2.00      | 2.00 | .75  |
| 18          | 18H100-MPB  | 114336      | 2.86          | 2.865          | 3.10     | DF-1 | 5/8        | 1-3/8    | 2.25      | 2.00 | .75  |
| 19          | 19H100-MPB  | 114337      | 3.21          | 3.024          | 3.26     | DF-1 | 5/8        | 1-1/2    | 2.38      | 2.00 | .75  |
| 20          | 20H100-MPB  | 114338      | 3.68          | 3.183          | 3.42     | DF-1 | 5/8        | 1-5/8    | 2.50      | 2.13 | .88  |
| 21          | 21H100-MPB  | 114339      | 4.08          | 3.342          | 3.57     | DF-1 | 3/4        | 1-11/16  | 2.63      | 2.13 | .88  |
| 22          | 22H100-MPB  | 114340      | 4.67          | 3.501          | 3.74     | DF-1 | 3/4        | 1-3/4    | 2.75      | 2.25 | 1.00 |
| 24          | 24H100-MPB  | 114341      | 5.60          | 3.820          | 4.05     | DF-1 | 3/4        | 1-7/8    | 3.00      | 2.25 | 1.00 |
| 26          | 26H100-MPB  | 114342      | 7.16          | 4.138          | 4.37     | DF-1 | 3/4        | 2-1/4    | 3.38      | 2.38 | 1.13 |
| 28          | 28H100-MPB  | 114343      | 8.15          | 4.456          | 4.69     | DF-1 | 3/4        | 2-5/16   | 3.50      | 2.38 | 1.13 |
| 30          | 30H100-MPB  | 114454      | 9.15          | 4.775          | 5.01     | DF-1 | 3/4        | 2-3/8    | 3.63      | 2.38 | 1.13 |

### H150 - 1/2" Pitch (1.5" Wide Belt) - Minimum Plain Bore

F = 1.75"

|    |            |        |       |       |      |      |     |         |      |      |      |
|----|------------|--------|-------|-------|------|------|-----|---------|------|------|------|
| 14 | 14H150-MPB | 114344 | 1.85  | 2.228 | 2.46 | DF-1 | 3/4 | 7/8     | 1.63 | 2.38 | .63  |
| 16 | 16H150-MPB | 114345 | 2.63  | 2.546 | 2.78 | DF-1 | 3/4 | 1-1/8   | 1.88 | 2.50 | .75  |
| 17 | 17H150-MPB | 114455 | 3.06  | 2.706 | 2.94 | DF-1 | 3/4 | 1-1/4   | 2.00 | 2.50 | .75  |
| 18 | 18H150-MPB | 114346 | 3.55  | 2.865 | 3.10 | DF-1 | 3/4 | 1-3/8   | 2.25 | 2.50 | .75  |
| 19 | 19H150-MPB | 114347 | 4.01  | 3.024 | 3.26 | DF-1 | 3/4 | 1-1/2   | 2.38 | 2.50 | .75  |
| 20 | 20H150-MPB | 114348 | 4.62  | 3.183 | 3.42 | DF-1 | 3/4 | 1-5/8   | 2.50 | 2.63 | .88  |
| 21 | 21H150-MPB | 114349 | 5.15  | 3.342 | 3.57 | DF-1 | 3/4 | 1-11/16 | 2.63 | 2.63 | .88  |
| 22 | 22H150-MPB | 114350 | 5.89  | 3.501 | 3.74 | DF-1 | 3/4 | 1-3/4   | 2.75 | 2.75 | 1.00 |
| 24 | 24H150-MPB | 114351 | 7.09  | 3.820 | 4.05 | DF-1 | 3/4 | 1-7/8   | 3.00 | 2.75 | 1.00 |
| 26 | 26H150-MPB | 114352 | 8.62  | 4.138 | 4.37 | DF-1 | 3/4 | 2-1/4   | 3.38 | 2.75 | 1.00 |
| 28 | 28H150-MPB | 114353 | 10.09 | 4.456 | 4.69 | DF-1 | 3/4 | 2-5/16  | 3.50 | 2.88 | 1.13 |
| 30 | 30H150-MPB | 114456 | 11.52 | 4.775 | 5.01 | DF-1 | 3/4 | 2-3/8   | 3.63 | 2.88 | 1.13 |

### H200 - 1/2" Pitch (2" Wide Belt) - Minimum Plain Bore

F = 2.28"

|    |            |        |       |       |      |      |     |         |      |      |      |
|----|------------|--------|-------|-------|------|------|-----|---------|------|------|------|
| 14 | 14H200-MPB | 114354 | 2.35  | 2.228 | 2.44 | DF-1 | 3/4 | 7/8     | 1.63 | 2.91 | .63  |
| 16 | 16H200-MPB | 114355 | 3.29  | 2.546 | 2.88 | DF-1 | 3/4 | 1-1/8   | 1.88 | 3.03 | .75  |
| 17 | 17H200-MPB | 114457 | 3.77  | 2.706 | 3.00 | DF-1 | 3/4 | 1-1/4   | 2.00 | 3.03 | .75  |
| 18 | 18H200-MPB | 114356 | 3.90  | 2.865 | 3.13 | DF-1 | 3/4 | 1-3/8   | 2.25 | 3.03 | .75  |
| 19 | 19H200-MPB | 114357 | 3.90  | 3.024 | 3.38 | DF-1 | 3/4 | 1-1/2   | 2.38 | 3.03 | .75  |
| 20 | 20H200-MPB | 114358 | 5.34  | 3.183 | 3.38 | DF-1 | 3/4 | 1-5/8   | 2.50 | 3.16 | .88  |
| 21 | 21H200-MPB | 114359 | 6.10  | 3.342 | 3.63 | DF-1 | 1   | 1-11/16 | 2.63 | 3.16 | .88  |
| 22 | 22H200-MPB | 114360 | 6.30  | 3.501 | 3.81 | DF-1 | 1   | 1-3/4   | 2.75 | 3.28 | 1.00 |
| 24 | 24H200-MPB | 114361 | 8.35  | 3.820 | 4.06 | DF-1 | 1   | 1-7/8   | 3.00 | 3.28 | 1.00 |
| 26 | 26H200-MPB | 114362 | 10.44 | 4.138 | 4.38 | DF-1 | 1   | 2-1/4   | 3.38 | 3.41 | 1.13 |
| 28 | 28H200-MPB | 114363 | 12.01 | 4.456 | 4.69 | DF-1 | 1   | 2-5/16  | 3.50 | 4.44 | 2.16 |
| 30 | 30H200-MPB | 114458 | 13.80 | 4.775 | 5.00 | DF-1 | 1   | 2-3/8   | 3.63 | 4.44 | 2.16 |

### H300 - 1/2" Pitch (3" Wide Belt) - Minimum Plain Bore

F = 3.31"

|    |            |        |       |       |      |      |       |         |      |      |      |
|----|------------|--------|-------|-------|------|------|-------|---------|------|------|------|
| 16 | 16H300-MPB | 114364 | 4.54  | 2.546 | 2.88 | DF-1 | 3/4   | 1-1/8   | 1.88 | 4.06 | .75  |
| 17 | 17H300-MPB | 114459 | 5.23  | 2.706 | 3.00 | DF-1 | 3/4   | 1-1/4   | 2.00 | 4.06 | .75  |
| 18 | 18H300-MPB | 114365 | 6.00  | 2.865 | 3.13 | DF-1 | 3/4   | 1-3/8   | 2.25 | 4.06 | .75  |
| 19 | 19H300-MPB | 114366 | 6.80  | 3.024 | 3.38 | DF-1 | 3/4   | 1-1/2   | 2.35 | 4.06 | .75  |
| 20 | 20H300-MPB | 114367 | 7.69  | 3.183 | 3.38 | DF-1 | 3/4   | 1-5/8   | 2.50 | 4.19 | .88  |
| 21 | 21H300-MPB | 114368 | 8.59  | 3.342 | 3.63 | DF-1 | 1     | 1-11/16 | 2.66 | 4.19 | .88  |
| 22 | 22H300-MPB | 114369 | 9.00  | 3.501 | 3.81 | DF-1 | 1     | 1-3/4   | 2.75 | 4.31 | 1.00 |
| 24 | 24H300-MPB | 114370 | 11.01 | 3.820 | 4.06 | DF-1 | 1-1/8 | 1-7/8   | 3.00 | 4.31 | 1.00 |
| 26 | 26H300-MPB | 114371 | 13.60 | 4.138 | 4.38 | DF-1 | 1-1/8 | 2-1/4   | 3.38 | 4.44 | 1.13 |
| 28 | 28H300-MPB | 114372 | 15.60 | 4.456 | 4.69 | DF-1 | 1-1/8 | 2-5/16  | 3.50 | 4.44 | 1.13 |
| 30 | 30H300-MPB | 114460 | 18.11 | 4.775 | 5.00 | DF-1 | 1-1/8 | 2-3/8   | 3.63 | 4.44 | 1.13 |

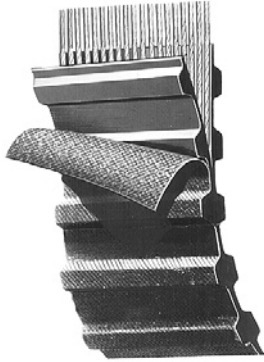
**NOTE:** Available from stock in Min. Plain Bore (MPB) only.  
Max. bore is without keyway. (if keyway is used, reduce max bore by twice the keyway depth.)

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|

# SPECIFICATIONS

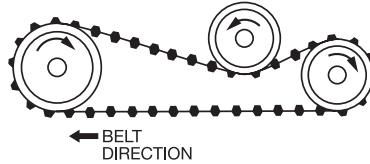


## Dual DYNA-SYNC Belts



For Serpentine Drives

| DXL Series Dual DYNA-SYNC Belts |                   |                 |                   |                 | DL Series Dual DYNA-SYNC Belts |                  |               |                  |               |                 |               |
|---------------------------------|-------------------|-----------------|-------------------|-----------------|--------------------------------|------------------|---------------|------------------|---------------|-----------------|---------------|
| Belt Lgth.                      | 1/5" Pitch (XL)   |                 |                   |                 | Belt Lgth.                     | 3/8" Pitch (L)   |               |                  |               |                 |               |
|                                 | XL025 (1/4" Wide) |                 | XL037 (3/8" Wide) |                 |                                | L050 (1/2" Wide) |               | L075 (3/4" Wide) |               | L100 (1" Wide)  |               |
|                                 | Belt No.          | Part No.        | Belt No.          | Part No.        |                                | Belt No.         | Part No.      | Belt No.         | Part No.      | Belt No.        | Part No.      |
| 12.0                            | D120XL025         | <b>110132</b>   | D120XL037         | <b>110133</b>   | 15.0                           | D150L050         | <b>110187</b> | D150L075         | <b>110158</b> | D150L100        | <b>110189</b> |
| 13.0                            | D130XL025         | <b>110134</b>   | D130XL037         | <b>110135</b>   | 18.7                           | D187L050         | <b>110190</b> | D187L075         | <b>110191</b> | D187L100        | <b>110192</b> |
| 14.0                            | D140XL025         | <b>110136</b>   | D140XL037         | <b>110137</b>   | 21.0                           | D210L050         | <b>110193</b> | D210L075         | <b>110194</b> | D210L100        | <b>110195</b> |
| 15.0                            | D150XL025         | <b>110138</b>   | D150XL037         | <b>110139</b>   | 22.5                           | D225L050         | <b>110196</b> | D225L075         | <b>110197</b> | D255L100        | <b>110198</b> |
| 16.0                            | D160XL025         | <b>110140</b>   | D160XL037         | <b>110141</b>   | 24.0                           | D240L050         | <b>110199</b> | D240L075         | <b>110200</b> | D240L100        | <b>110201</b> |
| 17.0                            | D170XL025         | <b>110142</b>   | D170XL037         | <b>110143</b>   | 25.5                           | D255L050         | <b>110202</b> | D255L075         | <b>110203</b> | D255L100        | <b>110204</b> |
| 18.0                            | D180XL025         | <b>110144</b>   | D180XL037         | <b>110145</b>   | 27.0                           | D270L050         | <b>110205</b> | D270L075         | <b>110206</b> | D270L100        | <b>110207</b> |
| 19.0                            | D190XL025         | <b>110146</b>   | D190XL037         | <b>110147</b>   | 28.5                           | D285L050         | <b>110208</b> | D285L075         | <b>110209</b> | D285L100        | <b>110210</b> |
| 20.0                            | D200XL025         | <b>110148</b>   | D200XL037         | <b>110149</b>   | 30.0                           | D300L050         | <b>110211</b> | D300L075         | <b>110212</b> | D300L100        | <b>110213</b> |
| 21.0                            | D210XL025         | <b>110150</b>   | D210XL037         | <b>110151</b>   | 32.2                           | D322L050         | <b>110214</b> | D322L075         | <b>110215</b> | D322L100        | <b>110216</b> |
| 22.0                            | D220XL025         | <b>110152</b>   | D220XL037         | <b>110153</b>   | 34.5                           | D345L050         | <b>110217</b> | D345L075         | <b>110218</b> | D345L100        | <b>110219</b> |
| 23.0                            | D230XL025         | <b>110154</b>   | D230XL037         | <b>110155</b>   | 36.7                           | D367L050         | <b>110220</b> | D367L075         | <b>110221</b> | D367L100        | <b>110222</b> |
| 24.0                            | D240XL025         | <b>110156</b>   | D240XL037         | <b>110157</b>   | 39.0                           | D390L050         | <b>110223</b> | D390L075         | <b>110224</b> | D390L100        | <b>110225</b> |
| 25.0                            | D250XL025         | <b>110158</b>   | D250XL037         | <b>110159</b>   | 42.0                           | D420L050         | <b>110226</b> | D420L075         | <b>110227</b> | D420L100        | <b>110228</b> |
| 26.0                            | D260XL025         | <b>110160</b>   | D260XL037         | <b>110161</b>   | 45.0                           | D450L050         | <b>110229</b> | D450L075         | <b>110230</b> | D450L100        | <b>110231</b> |
| 28.0                            | D280XL025         | <b>110162</b>   | D280XL037         | <b>110163</b>   | 48.0                           | D480L050         | <b>110232</b> | D460L075         | <b>110233</b> | D480L100        | <b>110234</b> |
| 29.0                            | D290XL025         | <b>110164</b>   | D290XL037         | <b>110165</b>   | 51.0                           | D510L050         | <b>110235</b> | D510L075         | <b>110236</b> | D510L100        | <b>110237</b> |
| 30.0                            | D300XL025         | <b>110166</b>   | D300XL037         | <b>110167</b>   | 54.0                           | D540L050         | <b>110238</b> | D540L075         | <b>110239</b> | D540L100        | <b>110240</b> |
| 31.0                            | D310XL025         | <b>110168</b>   | D310XL037         | <b>110169</b>   | 60.0                           | D600L050         | <b>110241</b> | D600L075         | <b>110242</b> | D600L100        | <b>110243</b> |
| 33.0                            | D330XL025         | <b>110170</b>   | D330XL037         | <b>110171</b>   | 66.0                           | D660L050         | <b>110244</b> | D660L075         | <b>110245</b> | D660L100        | <b>110246</b> |
|                                 |                   | Avg. Wt. .03Lb. |                   | Avg. Wt. 0.5Lb. |                                | Avg. Wt. .14Lb.  |               | Avg. Wt. .21Lb.  |               | Avg. Wt. .26Lb. |               |



## DH Series Dual DYNA-SYNC Belts

| Belt Lgth. | 1/2" Pitch (H)   |                 |                |                 |                    |                 |                |                 |                |                  |  |
|------------|------------------|-----------------|----------------|-----------------|--------------------|-----------------|----------------|-----------------|----------------|------------------|--|
|            | H075 (3/4" Wide) |                 | H100 (1" Wide) |                 | H150 (1-1/2" Wide) |                 | H200 (2" Wide) |                 | H300 (3" Wide) |                  |  |
|            | Belt No.         | Part No.        | Belt No.       | Part No.        | Belt No.           | Part No.        | Belt No.       | Part No.        | Belt No.       | Part No.         |  |
| 24.0       | D240H075         | <b>110247</b>   | D240H100       | <b>110248</b>   | D240H150           | <b>110249</b>   | D240H200       | <b>110250</b>   | D240H300       | <b>110251</b>    |  |
| 27.0       | D270H075         | <b>110252</b>   | D270H100       | <b>110253</b>   | D270H150           | <b>110254</b>   | D270H200       | <b>110255</b>   | D270H300       | <b>110256</b>    |  |
| 30.0       | D300H075         | <b>110257</b>   | D300H100       | <b>110258</b>   | D300H150           | <b>110259</b>   | D300H200       | <b>110260</b>   | D300H300       | <b>110261</b>    |  |
| 33.0       | D330H075         | <b>110262</b>   | D330H100       | <b>110263</b>   | D330H150           | <b>110264</b>   | D330H200       | <b>110265</b>   | D330H300       | <b>110266</b>    |  |
| 36.0       | D360H075         | <b>110267</b>   | D360H100       | <b>110268</b>   | D360H150           | <b>110269</b>   | D360H200       | <b>110270</b>   | D360H300       | <b>110271</b>    |  |
| 39.0       | D390H075         | <b>110272</b>   | D390H100       | <b>110273</b>   | D390H150           | <b>110274</b>   | D390H200       | <b>110275</b>   | D390H300       | <b>110276</b>    |  |
| 42.0       | D420H075         | <b>110277</b>   | D420H100       | <b>110278</b>   | D420H150           | <b>110279</b>   | D420H200       | <b>110280</b>   | D420H300       | <b>110281</b>    |  |
| 45.0       | D450H075         | <b>110282</b>   | D450H100       | <b>110283</b>   | D450H150           | <b>110284</b>   | D450H200       | <b>110285</b>   | D450H300       | <b>110286</b>    |  |
| 48.0       | D480H075         | <b>110287</b>   | D480H100       | <b>110288</b>   | D480H150           | <b>110289</b>   | D480H200       | <b>110290</b>   | D480H300       | <b>110291</b>    |  |
| 51.0       | D510H075         | <b>110292</b>   | D510H100       | <b>110293</b>   | D510H150           | <b>110294</b>   | D510H200       | <b>110295</b>   | D510H300       | <b>110296</b>    |  |
| 54.0       | D540H075         | <b>110297</b>   | D540H100       | <b>110298</b>   | D540H150           | <b>110299</b>   | D540H200       | <b>110300</b>   | D540H300       | <b>110301</b>    |  |
| 57.0       | D570H075         | <b>110302</b>   | D570H100       | <b>110303</b>   | D570H150           | <b>110304</b>   | D570H200       | <b>110305</b>   | D570H300       | <b>110306</b>    |  |
| 60.0       | D600H075         | <b>110307</b>   | D600H100       | <b>110308</b>   | D600H150           | <b>110309</b>   | D600H200       | <b>110310</b>   | D600H300       | <b>110311</b>    |  |
| 63.0       | D630H075         | <b>110312</b>   | D630H100       | <b>110313</b>   | D630H150           | <b>110314</b>   | D630H200       | <b>110315</b>   | D630H300       | <b>110316</b>    |  |
| 66.0       | D660H075         | <b>110317</b>   | D660H100       | <b>110318</b>   | D660H150           | <b>110319</b>   | D660H200       | <b>110320</b>   | D660H300       | <b>110321</b>    |  |
| 70.0       | D700H075         | <b>110322</b>   | D700H100       | <b>110323</b>   | D700H150           | <b>110324</b>   | D700H200       | <b>110325</b>   | D700H300       | <b>110326</b>    |  |
| 75.0       | D750H075         | <b>110327</b>   | D750H100       | <b>110328</b>   | D750H150           | <b>110329</b>   | D750H200       | <b>110330</b>   | D750H300       | <b>110331</b>    |  |
| 80.0       | D800H075         | <b>110332</b>   | D800H100       | <b>110333</b>   | D800H150           | <b>110334</b>   | D800H200       | <b>110335</b>   | D800H300       | <b>110336</b>    |  |
| 85.0       | D850H075         | <b>110337</b>   | D850H100       | <b>110338</b>   | D850H150           | <b>110339</b>   | D850H200       | <b>110340</b>   | D850H300       | <b>110341</b>    |  |
| 90.0       | D900H075         | <b>110342</b>   | D900H100       | <b>110343</b>   | D900H150           | <b>110344</b>   | D900H200       | <b>110345</b>   | D900H300       | <b>110346</b>    |  |
| 100.0      | D1000H075        | <b>110347</b>   | D1000H100      | <b>110348</b>   | D1000H150          | <b>110349</b>   | D1000H200      | <b>110350</b>   | D1000H300      | <b>110351</b>    |  |
| 110.0      | D1100H075        | <b>110352</b>   | D1100H100      | <b>110353</b>   | D1100H150          | <b>110354</b>   | D1100H200      | <b>110355</b>   | D1100H300      | <b>110356</b>    |  |
| 125.0      | D1250H075        | <b>110357</b>   | D1250H100      | <b>110358</b>   | D1250H150          | <b>110359</b>   | D1250H200      | <b>110360</b>   | D1250H300      | <b>110361</b>    |  |
| 140.0      | D1400H075        | <b>110362</b>   | D1400H100      | <b>110363</b>   | D1400H150          | <b>110364</b>   | D1400H200      | <b>110365</b>   | D1400H300      | <b>110366</b>    |  |
| 170.0      | D1700H075        | <b>110367</b>   | D1700H100      | <b>110368</b>   | D1700H150          | <b>110369</b>   | D1700H200      | <b>110370</b>   | D1700H300      | <b>110371</b>    |  |
|            |                  | Avg. Wt. .35Lb. |                | Avg. Wt. .47Lb. |                    | Avg. Wt. .70Lb. |                | Avg. Wt. .94Lb. |                | Avg. Wt. 1.41Lb. |  |

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|



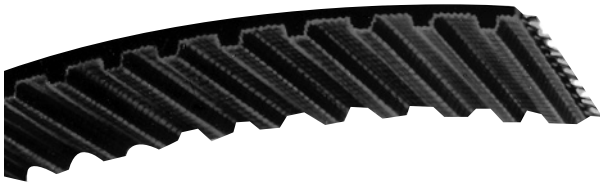
## SPECIFICATIONS

### DYNA-SYNC - Belts

#### XL Series DYNA-SYNC Belts

##### 1/5" Pitch (XL)

| Belt Length | XL025 (1/4" Wide) Belt No. | Part No. | Wt. | XL037 (3/8" Wide) Belt No. | Part No. | Wt. |
|-------------|----------------------------|----------|-----|----------------------------|----------|-----|
| 6.0         | 60XL025                    | 465335   | ... | 60XL037                    | 464521   | ... |
| 7.0         | 70XL025                    | 464501   | ... | 70XL037                    | 464522   | ... |
| 8.0         | 80XL025                    | 464502   | ... | 80XL037                    | 464523   | ... |
| 9.0         | 90XL025                    | 464503   | ... | 90XL037                    | 464524   | .01 |
| 10.0        | 100XL025                   | 464504   | ... | 100XL037                   | 464525   | .01 |
| 11.0        | 110XL025                   | 464505   | ... | 110XL037                   | 464526   | .01 |
| 12.0        | 120XL025                   | 464506   | ... | 120XL037                   | 464527   | .01 |
| 13.0        | 130XL025                   | 464507   | .01 | 130XL037                   | 464528   | .01 |
| 14.0        | 140XL025                   | 464508   | .01 | 140XL037                   | 464529   | .01 |
| 15.0        | 150XL025                   | 464509   | .01 | 150XL037                   | 464530   | .01 |
| 16.0        | 160XL025                   | 464510   | .01 | 160XL037                   | 464531   | .01 |
| 17.0        | 170XL025                   | 464511   | .01 | 170XL037                   | 464532   | .01 |
| 18.0        | 180XL025                   | 464512   | .01 | 180XL037                   | 464533   | .02 |
| 19.0        | 190XL025                   | 464513   | .01 | 190XL037                   | 464534   | .02 |
| 20.0        | 200XL025                   | 464514   | .01 | 200XL037                   | 464535   | .02 |
| 21.0        | 210XL025                   | 464515   | .01 | 210XL037                   | 464536   | .02 |
| 22.0        | 220XL025                   | 464516   | .01 | 220XL037                   | 464537   | .02 |
| 23.0        | 230XL025                   | 464517   | .01 | 230XL037                   | 464538   | .02 |
| 24.0        | 240XL025                   | 464518   | .01 | 240XL037                   | 464539   | .02 |
| 25.0        | 250XL025                   | 464519   | .01 | 250XL037                   | 464540   | .02 |
| 26.0        | 260XL025                   | 464520   | .02 | 260XL037                   | 464541   | .02 |



#### L Series DYNA-SYNC Belts

##### 3/8" Pitch (L)

| Belt Length | L050 (1/2" Wide) |          |     | L075 (3/4" Wide) |          |     | L100 (1" Wide) |          |     |
|-------------|------------------|----------|-----|------------------|----------|-----|----------------|----------|-----|
|             | Belt No.         | Part No. | Wt. | Belt No.         | Part No. | Wt. | Belt No.       | Part No. | Wt. |
| 12.4        | 124L050          | 464542   | .03 | 124L075          | 464562   | .05 | 124L100        | 464582   | .06 |
| 15.0        | 150L050          | 464543   | .04 | 150L075          | 464563   | .06 | 150L100        | 464583   | .08 |
| 18.7        | 187L050          | 464544   | .05 | 187L075          | 464564   | .07 | 187L100        | 464534   | .10 |
| 21.0        | 210L050          | 464545   | .05 | 210L075          | 464565   | .08 | 210L100        | 464585   | .09 |
| 22.5        | 225L050          | 464546   | .06 | 225L075          | 464566   | .09 | 225L100        | 464586   | .11 |
| 24.0        | 240L050          | 464547   | .06 | 240L075          | 464567   | .09 | 240L100        | 464587   | .11 |
| 25.5        | 255L050          | 464548   | .06 | 255L075          | 464568   | .10 | 255L100        | 464588   | .13 |
| 27.0        | 270L050          | 464549   | .07 | 270L075          | 464569   | .10 | 270L100        | 464589   | .14 |
| 28.5        | 285L050          | 464550   | .07 | 285L075          | 464570   | .11 | 285L100        | 464590   | .14 |
| 30.0        | 300L050          | 464551   | .08 | 300L075          | 464571   | .11 | 300L100        | 464591   | .15 |
| 32.2        | 322L050          | 464552   | .08 | 322L075          | 464572   | .12 | 322L100        | 464592   | .16 |
| 34.5        | 345L050          | 464553   | .09 | 345L075          | 464573   | .13 | 345L100        | 464593   | .17 |
| 36.7        | 367L050          | 464554   | .09 | 367L075          | 464574   | .14 | 367L100        | 464594   | .19 |
| 39.0        | 390L050          | 464555   | .10 | 390L075          | 464575   | .15 | 390L100        | 464595   | .20 |
| 42.0        | 420L050          | 464556   | .11 | 420L075          | 464576   | .16 | 420L100        | 464596   | .21 |
| 45.0        | 450L050          | 464557   | .11 | 450L075          | 464577   | .17 | 450L100        | 464597   | .23 |
| 48.0        | 480L050          | 464558   | .12 | 480L075          | 464578   | .18 | 480L100        | 464598   | .24 |
| 51.0        | 510L050          | 464559   | .13 | 510L075          | 464579   | .19 | 510L100        | 464599   | .26 |
| 54.0        | 540L050          | 464560   | .14 | 540L075          | 464580   | .21 | 540L100        | 464600   | .27 |
| 60.0        | 600L050          | 464561   | .15 | 600L075          | 464581   | .23 | 600L100        | 464601   | .30 |

# SPECIFICATIONS



## DYNA-SYNC - Belts

### H Series DYNA-SYNC Belts

| Belt Length | 1/2" Pitch (H)   |          |     |                |          |      |                    |          |      |                |          |      |                |          |      |
|-------------|------------------|----------|-----|----------------|----------|------|--------------------|----------|------|----------------|----------|------|----------------|----------|------|
|             | H075 (3/4" Wide) |          |     | H100 (1" Wide) |          |      | H150 (1-1/2" Wide) |          |      | H200 (2" Wide) |          |      | H300 (3" Wide) |          |      |
|             | Belt No.         | Part No. | Wt. | Belt No.       | Part No. | Wt.  | Belt No.           | Part No. | Wt.  | Belt No.       | Part No. | Wt.  | Belt No.       | Part No. | Wt.  |
| 24.0        | 240H075          | 464602   | .11 | 240H100        | 464621   | .14  | 240H150            | 464645   | .22  | 240H200        | 464772   | .29  | 240H300        | 464778   | .43  |
| 27.0        | 270H075          | 464603   | .12 | 270H100        | 464622   | .16  | 270H150            | 464646   | .24  | 270H200        | 464773   | .33  | 270H300        | 464779   | .49  |
| 30.0        | 300H075          | 464604   | .14 | 300H100        | 464623   | .18  | 300H150            | 464647   | .27  | 300H200        | 464774   | .36  | 300H300        | 464780   | .54  |
| 33.0        | 330H075          | 464605   | .14 | 330H100        | 464624   | .20  | 330H150            | 464648   | .30  | 330H200        | 464775   | .40  | 330H300        | 464781   | .60  |
| 36.0        | 360H075          | 464606   | .15 | 360H100        | 464625   | .22  | 360H150            | 464649   | .33  | 360H200        | 464664   | .43  | 360H300        | 464736   | .65  |
| 39.0        | 390H075          | 464607   | .18 | 390H100        | 464626   | .24  | 390H150            | 464650   | .35  | 390H200        | 464665   | .47  | 390H300        | 464737   | .71  |
| 42.0        | 420H075          | 464608   | .19 | 420H100        | 464627   | .25  | 420H150            | 464651   | .38  | 420H200        | 464666   | .51  | 420H300        | 464738   | .76  |
| 45.0        | 450H075          | 464609   | .20 | 450H100        | 464628   | .27  | 450H150            | 464652   | .41  | 450H200        | 464667   | .54  | 450H300        | 464739   | .81  |
| 48.0        | 480H075          | 464610   | .23 | 480H100        | 464629   | .31  | 480H150            | 464653   | .46  | 480H200        | 464668   | .62  | 480H300        | 464740   | .92  |
| 51.0        | 510H075          | 464611   | .23 | 510H100        | 464630   | .31  | 510H150            | 464654   | .46  | 510H200        | 464669   | .62  | 510H300        | 464741   | .92  |
| 54.0        | 540H075          | 464612   | .24 | 540H100        | 464631   | .33  | 540H150            | 464655   | .49  | 540H200        | 464670   | .65  | 540H300        | 464683   | .98  |
| 57.0        | 570H075          | 464613   | .26 | 570H100        | 464632   | .34  | 570H150            | 464656   | .52  | 570H200        | 464671   | .69  | 570H300        | 464684   | 1.03 |
| 60.0        | 600H075          | 464614   | .27 | 600H100        | 464633   | .36  | 600H150            | 464657   | .54  | 600H200        | 464672   | .72  | 600H300        | 464685   | 1.09 |
| 63.0        | 630H075          | 464615   | .29 | 630H100        | 464634   | .38  | 630H150            | 464658   | .57  | 630H200        | 464673   | .76  | 630H300        | 464686   | 1.14 |
| 66.0        | 660H075          | 464616   | .30 | 660H100        | 464635   | .40  | 660H150            | 464659   | .60  | 660H200        | 464674   | .80  | 660H300        | 464687   | 1.20 |
| 70.0        | 700H075          | 464617   | .32 | 700H100        | 464636   | .42  | 700H150            | 464660   | .63  | 700H200        | 464675   | .85  | 700H300        | 464688   | 1.27 |
| 75.0        | 750H075          | 464618   | .34 | 750H100        | 464637   | .45  | 750H150            | 464661   | .68  | 750H200        | 464676   | .91  | 750H300        | 464689   | 1.36 |
| 80.0        | 800H075          | 464619   | .36 | 800H100        | 464638   | .48  | 800H150            | 464662   | .72  | 800H200        | 464677   | .97  | 800H300        | 464742   | 1.45 |
| 85.0        | 850H075          | 464620   | .38 | 850H100        | 464639   | .51  | 850H150            | 464663   | .77  | 850H200        | 464678   | 1.03 | 850H300        | 464743   | 1.54 |
| 90.0        | 900H075          | 464759   | .41 | 900H100        | 464640   | .54  | 900H150            | 464766   | .82  | 900H200        | 464679   | 1.09 | 900H300        | 464744   | 1.63 |
| 100.0       | 1000H075         | 464760   | .45 | 1000H100       | 464641   | .60  | 1000H150           | 464767   | .91  | 1000H200       | 464680   | 1.21 | 1000H300       | 464745   | 1.81 |
| 110.0       | 1100H075         | 464761   | .50 | 1100H100       | 464642   | .66  | 1100H150           | 464768   | 1.00 | 1100H200       | 464681   | 1.33 | 1100H300       | 464746   | 1.99 |
| 125.0       | 1250H075         | 464762   | .57 | 1250H100       | 464643   | .75  | 1250H150           | 464769   | 1.13 | 1250H200       | 464682   | 1.51 | 1250H300       | 464747   | 2.26 |
| 140.0       | 1400H075         | 464763   | .63 | 1400H100       | 464644   | .85  | 1400H150           | 464770   | 1.27 | 1400H200       | 464776   | 1.69 | 1400H300       | 464748   | 2.54 |
| 170.0       | 1700H075         | 464764   | .77 | 1700H100       | 464765   | 1.03 | 1700H150           | 464771   | 1.54 | 1700H200       | 464777   | 2.05 | 1700H300       | 464749   | 3.08 |

### XH Series DYNA-SYNC Belts

| Belt Length | 7/8" Pitch (XH) |          |      |                 |          |      |                 |          |      |
|-------------|-----------------|----------|------|-----------------|----------|------|-----------------|----------|------|
|             | XH200 (2" Wide) |          |      | XH300 (3" Wide) |          |      | XH400 (4" Wide) |          |      |
|             | Belt No.        | Part No. | Wt.  | Belt No.        | Part No. | Wt.  | Belt No.        | Part No. | Wt.  |
| 50.7        | 507XH200        | 464690   | 1.77 | 507XH300        | 464702   | 2.66 | 507XH400        | 464750   | 3.54 |
| 56.0        | 560XH200        | 464691   | 1.95 | 560XH300        | 464703   | 2.93 | 560XH400        | 464751   | 3.91 |
| 63.0        | 630XH200        | 464692   | 2.20 | 630XH300        | 464704   | 3.30 | 630XH400        | 464752   | 4.40 |
| 70.0        | 700XH200        | 464693   | 2.33 | 700XH300        | 464705   | 3.49 | 700XH400        | 464753   | 4.65 |
| 77.0        | 770XH200        | 464694   | 2.69 | 770XH300        | 464706   | 3.49 | 770XH400        | 464754   | 4.65 |
| 84.0        | 840XH200        | 464695   | 2.79 | 840XH300        | 464707   | 4.19 | 840XH400        | 464755   | 5.58 |
| 98.0        | 980XH200        | 464696   | 3.42 | 980XH300        | 464708   | 5.13 | 980XH400        | 464756   | 6.84 |
| 112.0       | 1120XH200       | 464697   | 3.72 | 1120XH300       | 464709   | 5.58 | 1120XH400       | 464757   | 7.45 |
| 126.0       | 1260XH200       | 464698   | 4.19 | 1260XH300       | 464710   | 6.28 | 1260XH400       | 464758   | 8.38 |
| 140.0       | 1400XH200       | 464699   | 4.65 | 1400XH300       | 464711   | 6.98 | 1400XH400       | 464782   | 9.31 |
| 154.0       | 1540XH200       | 464700   | 5.12 | 1540XH300       | 464712   | 7.68 | 1540XH400       | 464783   | 10.2 |
| 175.0       | 1750XH200       | 464701   | 5.82 | 1750XH300       | 464713   | 8.73 | 1750XH400       | 464784   | 10.6 |

### XXH Series DYNA-SYNC Belts

| Belt Length | 1-1/4" Pitch (XXH) |          |      |                  |          |      |                  |          |      |                  |          |      |
|-------------|--------------------|----------|------|------------------|----------|------|------------------|----------|------|------------------|----------|------|
|             | XXH200 (2" Wide)   |          |      | XXH300 (3" Wide) |          |      | XXH400 (4" Wide) |          |      | XXH500 (5" Wide) |          |      |
|             | Belt No.           | Part No. | Wt.  | Belt No.         | Part No. | Wt.  | Belt No.         | Part No. | Wt.  | Belt No.         | Part No. | Wt.  |
| 70.0        | 700XXH200          | 465301   | 3.23 | 700XXH300        | 465302   | 4.85 | 700XXH400        | 465303   | 6.47 | 700XXH500        | 465304   | 8.09 |
| 80.0        | 800XXH200          | 465305   | 3.70 | 800XXH300        | 465306   | 5.54 | 800XXH400        | 465307   | 7.39 | 800XXH500        | 465308   | 9.24 |
| 90.0        | 900XXH200          | 465309   | 4.38 | 900XXH300        | 465310   | 6.58 | 900XXH400        | 465311   | 8.77 | 900XXH500        | 465312   | 11.0 |
| 100.0       | 1000XXH200         | 465313   | 4.87 | 1000XXH300       | 465314   | 7.31 | 1000XXH400       | 465315   | 9.74 | 1000XXH500       | 465316   | 12.2 |
| 120.0       | 1200XXH200         | 465337   | 5.54 | 1200XXH300       | 465317   | 8.32 | 1200XXH400       | 465318   | 11.1 | 1200XXH500       | 465319   | 13.9 |
| 140.0       | 1400XXH200         | 465323   | 6.47 | 1400XXH300       | 465320   | 9.70 | 1400XXH400       | 465321   | 12.9 | 1400XXH500       | 465322   | 16.2 |
| 160.0       | 1600XXH200         | 465324   | 7.39 | 1600XXH300       | 465325   | 11.1 | 1600XXH400       | 465326   | 14.8 | 1600XXH500       | 465327   | 18.5 |
| 180.0       | 1800XXH200         | 465338   | 8.32 | 1800XXH300       | 465329   | 12.5 | 1800XXH400       | 465330   | 16.6 | 1800XXH500       | 465331   | 20.8 |

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|





# SELECTION

## DYNA-SYNC Drives

### USING STANDARD MOTOR SPEEDS

**Step 1—Determine Service Factor** from steps on page PT10-16.

**Step 2—Compute Design HP.** Multiply normal running HP required or nameplate rating by service factor obtained in Step 1.

**Step 3—Choose Belt Section.** Using Table 1, read up from design HP figure obtained in Step 2 and over from the RPM of faster shaft. This intersection indicates belt section.

**Step 4—Select the Drive, a).** Using the belt section from Step 3, refer to Selection Tables beginning on page PT10-18. **b).** Under appropriate standard full-load motor RPM, find the driven RPM nearest to the desired speed. Trace right to columns headed “Pulley Combination.” If more than one is listed, the combination with the largest pulleys usually will offer the best belt life. (Note that one pulley must be flanged on all drives. If center distance exceeds 8 times P.D. of small pulley or shafts are vertical

or inclined, both must be flanged.) **c).** On same line trace right to the figure nearest the desired center distance and at top of column note belt number. **d).** Trace back on same line to appropriate column under heading “HP for a 1” Belt...” Divide the design HP obtained in Step 2 by the HP thus found in table. (Divide this value by Teeth in Mesh (T.I.M.) factor when applicable.) The result is the Belt Width Factor. Refer to table below right hand selection table to determine belt width required. If width shown is not stock go to next stock width listed. Add belt code, from table, to belt number found in Step 4c. (If wider stock belt is not shown in table, redesign drive to next larger pitch.) To check drive calculation: HP for a 1” Wide Belt x Belt Width factor x Teeth in Mesh factor = Actual HP rating of the drive. If actual rating is equal to or greater than Design HP, selection is O.K.

**NOTE:** Good practice dictates that shaft and bushing system (or alternate shaft mounting method) be verified for adequate rating.

- V-Drives
- FHP Drives
- Drive Component Accessories
- DYNA-SYNC
- HT200/HTD Synchronous Drives
- HT500 Synchronous Drives
- Roller Chain Sprockets

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|



## DYNA-SYNC Drives

### USING STANDARD MOTOR SPEEDS

#### EXAMPLE OF SELECTION

Select a drive for a 3 cylinder reciprocating compressor to run 8 hours a day at about 270 RPM and to be driven by a 5 HP, 1160 RPM Design B squirrel cage motor. Centers are about 25”.

**Step 1**–Service Factor from page PT10-16 is 2.2.

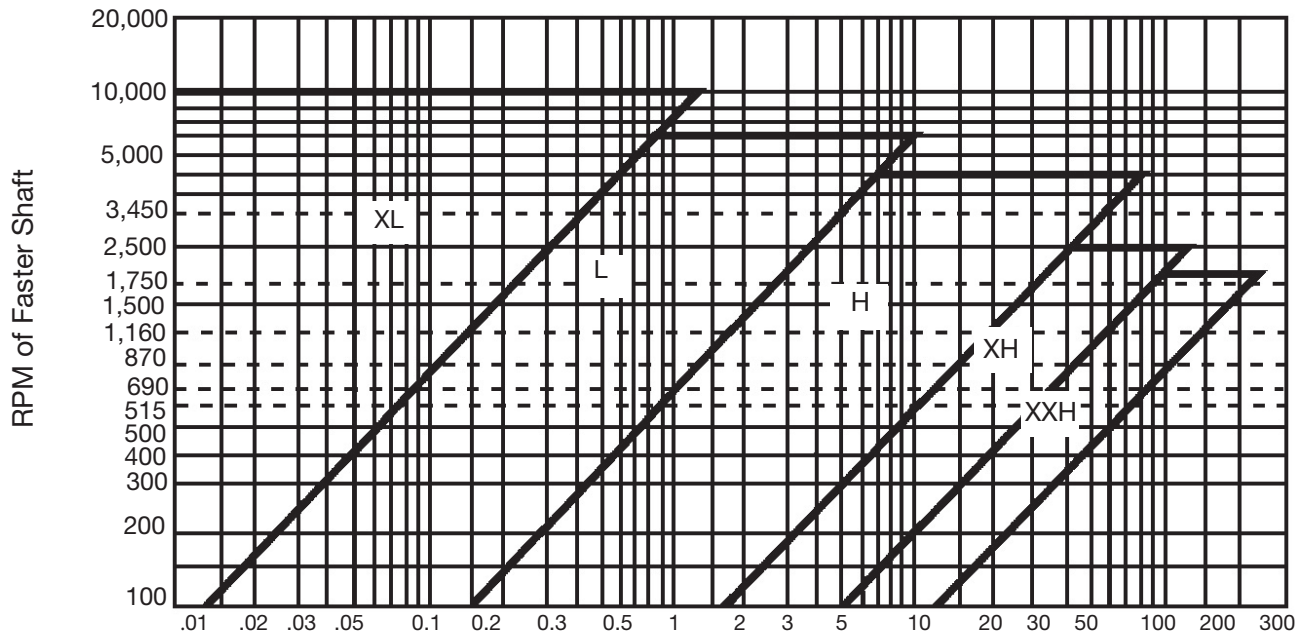
**Step 2**–Design HP = 5 x 2.2 = 11 HP.

**Step 3**–An “H” Cross Section is shown in Table 1 when reading to the right of 1160 RPM of faster shaft and up from 11 design HP.

**Step 4**–The H-Section drive tables begin on page PT10-30. On page PT10-34, the nearest driven speed for

a 1160 RPM motor is 271 RPM. Two possible pulley combinations are listed. The 28H driver/120H driven is preferred. On the same line the nearest center distance to 25” is 25.45”. Note the 900 H belt at top of column. Tracing back on the same line, under 1160 RPM, the “HP for a 1” Belt” is 5.68. 11 design HP 5.68 = 1.937 Belt Width Factor. Belt Width Table indicates a 2” wide belt is required. Add code number 200 to belt and pulley number and order the following: (1) TL28H200 DYNA-SYNC Pulley, (1) 2012 Taper-Lock (1) TL120H200 pulley. (1) TAPER-LOCK 3020 bushing. (1) 900H200 DYNA-SYNC Belt. To facilitate delivery, order by part numbers listed in Pulley, Bushing and Belt sections of this catalog.

**Table 1 - Synchronous Cross Section Selection Chart**







# SELECTION

## Service Factor

To determine the service factor for a DYNA-SYNC drive follow the three steps below.

**Step 1.** Determine the class of Driver from Table 2 below.

**Step 2.** Use Class of Driver and Type of Application in Table 4 at right to find the tentative service factor.

**Step 3.** Add the Additional Service Factor, when applicable, from Table 3 at bottom of page to the tentative service factor from Step 2 to determine the service factor for the application.

**Table 2 - Class of Driver**

| Driver                                 | Class I   | Class II      | Class III        |
|--|-----------|---------------|------------------|
| A-C Electric Motors, Single Phase..... | .....     | .....         | All              |
| Squirrel Cage, NEMA Design A,          |           |               |                  |
| 3500 RPM ....                          | 40 HP up  | 30 HP or less | .....            |
| 1750 RPM ....                          | 100 HP up | 5 to 75 HP    | 3 HP or less     |
| 1160 RPM ....                          | 15 HP up  | 10 HP or less | .....            |
| 870 RPM ....                           | 5 HP up   | 3 HP or less  | .....            |
| NEMA Design B,                         |           |               |                  |
| 3500 RPM ....                          | .....     | 5 HP up       | 3 HP or less     |
| 1750 RPM ....                          | .....     | 5 HP up       | 3 HP or less     |
| 1160 RPM ....                          | .....     | 5 HP up       | 3 HP or less     |
| 870 RPM ....                           | .....     | 2 HP up       | 1-1/2 HP or less |
| NEMA Design C,                         |           |               |                  |
| 1750 RPM ....                          | .....     | 15 HP up      | 10 HP or less    |
| 1160 RPM ....                          | .....     | 7-1/2 HP up   | 5 HP or less     |
| 870 RPM ....                           | .....     | All           | .....            |
| NEMA Design D .                        | .....     | .....         | All              |
| NEMA Design F .                        | All       | .....         | .....            |
| Wound Rotor, ...                       | .....     | .....         | .....            |
| 1750 RPM ....                          | .....     | 20 HP         | 15 HP or less    |
| 1160 RPM ....                          | .....     | 15 HP         | 10 HP or less    |
| 870 RPM ....                           | .....     | 7-1/2 HP      | 5 HP or less     |
| Synchronous ....                       | .....     | Norm. Torque  | High Torque      |
| D-C Electric Motors                    | Shunt     | Compound      | Series           |
| Engines-Int. Comb                      | 8 Cyl. up | 6 Cyl         | 4 Cyl. or less   |
| Hydraulic Motors ..                    | .....     | .....         | All              |
| Line Shafts .....                      | .....     | .....         | All              |

**Table 3 - Additional Service Factors †**

| Condition                                | Additional Factor |
|--|-------------------|
| 24 hour continuous operation .....       | 0.2               |
| Use of an idler .....                    | 0.2               |
| Intermittent or seasonal operation ..... | ◊                 |
| Speed up drive:                          |                   |
| 1 to 1.24 ratio .....                    | 0.0               |
| 1.25 to 1.74 ratio .....                 | 0.1               |
| 1.75 to 2.49 ratio .....                 | 0.2               |
| 2.50 to 3.49 ratio .....                 | 0.3               |
| Over 3.49 ratio .....                    | 0.4               |

† Additional service factors other than listed here are required for unusual condition such as torque reversal, heavy shock, when current to motor is reversed to either stop the motor rapidly or to run it in opposite direction, or when a brake is to be used. For such applications consult factory.

◊ Subtract 0.2 from tentative service factor.

**Table 4 - Service Factors\***

| Application  | Class |     |     |
|--|-------|-----|-----|
|  | I     | II  | III |
| AGITATORS, MIXERS (Paddle or Propeller)  |       |     |     |
| Liquid .....   | 1.4   | 1.6 | 1.8 |
| Semi-liquid .....  | 1.5   | 1.7 | 1.9 |
| BAKERY MACHINERY DOUGH MIXERS .....  | 1.4   | 1.6 | 1.8 |
| BRICK AND CLAY MACHINERY   |       |     |     |
| Augers, Mixers, Granulators .....  | 1.5   | 1.7 | 1.9 |
| Pug Mills .....  | 1.8   | 2.0 | 2.2 |
| CENTRIFUGES .....  | 1.8   | 1.9 | ... |
| COMPRESSORS  |       |     |     |
| Reciprocating .....  | 2.0   | 2.2 | 2.4 |
| Centrifugal .....  | 1.8   | 1.7 | 1.8 |
| CONVEYORS  |       |     |     |
| Light-Package Belt, oven .....   | 1.3   | 1.5 | 1.7 |
| Belt, Ore, Coal, Sand .....  | 1.8   | 1.7 | 1.8 |
| Apron, Bucket, Elevator, Pan .....   | 1.7   | 1.8 | 1.9 |
| Flight, Screw .....  | 1.7   | 1.9 | 2.0 |
| FANS, BLOWERS  |       |     |     |
| Centrifugal, Induced Draft Exhausters .....  | 1.8   | 1.8 | 2.0 |
| Propeller, Mine fans, Positive Blowers .....   | 1.8   | 2.0 | 2.2 |
| GENERATORS AND EXCITERS .....  | 1.6   | 1.8 | 2.0 |
| HAMMER MILLS .....   | 1.7   | 1.9 | 2.1 |
| LAUNDRY MACHINERY  |       |     |     |
| General .....  | 1.5   | 1.6 | 1.7 |
| Extractors, Washers .....  | 1.6   | 1.8 | 2.0 |
| LINE SHAFTS .....  | 1.5   | 1.7 | 1.9 |
| MACHINE TOOLS  |       |     |     |
| Drill Presses, Lathes, Screw Machines .....  | 1.4   | 1.6 | 1.8 |
| Boring Mills, Grinders .....   | 1.5   | 1.7 | 1.9 |
| Milling Machines, Shapers .....  | 1.5   | 1.7 | 1.9 |
| MILLS  |       |     |     |
| Ball, Rod, Pebble, etc. ....   | ...   | 2.2 | 2.5 |
| PAPER MACHINERY  |       |     |     |
| Agitators, Calenders, Dryers .....   | 1.4   | 1.6 | 1.8 |
| Beaters, Jordans, Nash Pumps, Pulpers .....  | 1.7   | 1.9 | 2.1 |
| PRINTING MACHINERY   |       |     |     |
| Presses: Newspaper, Rotary, Embossing, Flat Bed, Magazine; Linotype Machines; Cutters; Folders ..... | 1.4   | 1.6 | 1.8 |
| PUMPS  |       |     |     |
| Centrifugal, Gear, Rotary, Pipeline .....  | 1.5   | 1.7 | 1.9 |
| Reciprocating .....  | 2.0   | 2.2 | 2.4 |
| RUBBER PLANT MACHINERY .....   | 1.6   | 1.8 | 2.0 |
| SAW MILL MACHINERY .....   | 1.6   | 1.8 | 2.0 |
| SCREENS  |       |     |     |
| Vibrating (Shakers) .....  | 1.5   | 1.7 | ... |
| Drum, Conical .....  | 1.4   | 1.5 | ... |
| TEXTILE MACHINERY  |       |     |     |
| Looms, Spinning Frames, Twisters .....   | 1.6   | 1.8 | 2.0 |
| Wrappers, Reels .....  | 1.5   | 1.7 | ... |
| WOODWORKING MACHINERY  |       |     |     |
| Lathes, Band Saws .....  | 1.3   | 1.4 | ... |
| Jointers, Circular Saws, Planers .....   | 1.4   | 1.6 | ... |



## DYNA-SYNC Drives

### FOR SPEEDS OTHER THAN STANDARD MOTOR SPEEDS AND SPEED-UP DRIVES

#### For Speeds Other Than Standard Motor Speeds

**Step 1 – Calculate Speed Ratio** =  $\frac{\text{Driver RPM}}{\text{Driven RPM}}$

**Step 2 – Determine Service Factor** from steps on page PT10-16.

**Step 3 – Calculate Design HP.** Multiply normal running HP required or nameplate rating by service factor obtained in Step 2.

**Step 4 –** Using Table 1 on page PT10-15 read up from design HP obtained in Step 3 and over from RPM of faster shaft. This intersection indicates belt section.

**Step 5 – Select the Drive. a.)** Using the belt section obtained in Step 4, refer to Selection Tables beginning on PT10-18. **b.)** Read down ratio column to the value nearest to one calculated in Step 1. Trace right to columns headed “Pulley Combinations.” If more than one is listed, the combination with the largest pulleys usually will offer the best belt life. (Note that one pulley must be flanged on all drives. If center distance exceeds 8 times P.D. of small pulley or shafts are vertical or inclined, both must be flanged.) **c.)** On the same line trace right to figure nearest the desired center distance and at top of column note belt number. **d.)** Now go to the HP Table for the appropriate belt section. Reading to the right of the speed of the faster pulley and down from the pulley size, the HP figure for a 1” belt will appear. Divide the design HP from Step 3 by the HP thus found in table. (Divide this value by Teeth in Mesh factor, when applicable.) The result is the Belt Width Factor. Refer to table below the HP Table to determine belt width factor required. If width shown is not in stock go to next stock width listed. Add belt code, from table, to belt number found in Step 5c. (If wider stock belt is not shown in table, redesign drive to next larger pitch).

#### EXAMPLE OF SELECTION

A printing machine embossing roll runs at 426 RPM, powered from an 800 RPM line shaft. The roll required 7 HP. Machine runs 8-10 hrs. a day. Center distance is approx. 20”.

**Step 1 – Speed Ratio** = 1.88

**Step 2 – Service Factor** = 1.8

**Step 3 – Design HP** = 7 x 1.8 = 12.6

**Step 4 – Belt Selection** from Table 1 = H

**Step 5 –** The H Section Drive Tables begin on page

PT10-30. The ratio of 1.88 obtained in Step 1 is found on page PT10-32. Two pulley combinations are listed. The 32H driver /60H driven is preferred. On the same line the nearest center distance to 20” is 19.88. Note the 630H belt at top of column. Refer to H section HP Tables on page PT10-42. Opposite 800 RPM of faster shaft and under 32H pulley, the HP 4.50 = 2.8. This is the belt width factor. Referring to the H belt width table a 3” wide belt is stock. Add the 300 Code Width to the pulley and belt numbers and order the following:

(1) TL32H300 DYNA-SYNC Pulley, (1) 2517 TAPER-LOCK bushing (Check to see if bushing will fit equipment shafts). (1) TL60H300 Pulley.

(1) 3020 bushing

(1) 630H300 DYNA-SYNC Belt.

To facilitate delivery, use part numbers listed in Pulley, Bushing and Belt sections of this catalog.

#### Example of a Speed-Up Drive

Select a drive for a continuous duty liquid agitator to run at about 2000 RPM and to be driven by a 10 HP, 1750 RPM squirrel cage motor Centers are about 10”.

**Step 1 – Speed ratio** is  $2000 \div 1750 = 1.14$ .

**Step 2 – Service factor** from page PT10-3 is 1.8

**Step 3 – Design HP** =  $10 \times 1.8 = 18$  HP.

**Step 4 –** An “H” Cross Section is shown in Table 1 when reading to the right of 2000 RPM and up from 18 design HP.

**Step 5 –** Speed ratio calculated in Step 1 appears in Selection Table on page PT10-30. Two possible pulley combinations are listed. The 28H driver/32H driven is preferred. In a Speed-Up Drive, the 28H becomes the driven, the 32H, the driver. On the same line the nearest center distance to 10” is 10.5. Note the 360H belt at top of column. Referring to HP table on page PT10-42, the rating for a 1” wide belt is shown as 9.60 for a 28H pulley at 2000 RPM.  $18 \text{ design HP} \div 9.60 = 1.875$  Belt Width Factor Belt Width Table indicates a 2” wide belt is required. Add code number 200 to belt and pulley number and order the following: (1) TL32H200 DYNA-SYNC Pulley, (1) 2517 TAPER-LOCK Bushing. (Check to see if bushings will fit equipment shafts). (1) TL28H200 Pulley, (1) 2012 bushing (with 2, max. bore). (1) 360H200 DYNA-SYNC belt.

\* **Selection program available online at [ptwizard.com](http://ptwizard.com).**

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|



# SELECTION

## XL Stock Drive Selections

| Driven Speeds for Motor Speeds of | Speed Ratio | Pulley Combination |             |              |             | HP for a 1 Wide Belt for Motor Speeds of Δ |       |       | Nominal C.D. Using DYNA-SYNC Belts |      |       |       |       |       |       |       |
|-----------------------------------|-------------|--------------------|-------------|--------------|-------------|--|-------|-------|------------------------------------|------|-------|-------|-------|-------|-------|-------|
|                                   |             | Driver             |             | Driven       |             | 3500                                       | 1750  | 1160  | 60XL                               | 70XL | 80XL  | 90XL  | 100XL | 110XL |       |       |
|                                   |             | No. of Teeth       | Pitch Diam. | No. of Teeth | Pitch Diam. |  |       |       |                                    |      |       |       |       |       |       |       |
| 3500                              | 1750        | 1160               | 1.00        | 30XL         | 1.910       | 30XL                                       | 1.910 | 2.11  | 1.07                               | .71  | ....  | ....  | ....  | ....  | ....  | 2.50  |
| 3500                              | 1750        | 1160               | 1.00        | 28XL         | 1.783       | 28XL                                       | 1.783 | 1.98  | 1.00                               | .66  | ....  | ....  | ....  | ....  | 2.20  | 2.70  |
| 3500                              | 1750        | 1160               | 1.00        | 24XL         | 1.528       | 24XL                                       | 1.528 | 1.71  | .86                                | .56  | ....  | ....  | ....  | 2.10  | 2.60  | 3.10  |
| 3500                              | 1750        | 1160               | 1.00        | 22XL         | 1.401       | 22XL                                       | 1.401 | 1.57  | .79                                | .52  | ....  | ....  | 1.80  | 2.30  | 2.80  | 3.30  |
| 3500                              | 1750        | 1160               | 1.00        | 21XL         | 1.337       | 21XL                                       | 1.337 | 1.49  | .75                                | .50  | ....  | ....  | 1.90  | 2.40  | 2.90  | 3.40  |
| 3500                              | 1750        | 1160               | 1.00        | 20XL         | 1.273       | 20XL                                       | 1.273 | 1.42  | .72                                | .46  | ....  | ....  | 2.00  | 2.50  | 3.00  | 3.50  |
| 3500                              | 1750        | 1160               | 1.00        | 18XL         | 1.146       | 18XL                                       | 1.146 | 1.28  | .64                                | .42  | ....  | 1.70  | 2.20  | 2.70  | 3.20  | 3.70  |
| 3500                              | 1750        | 1160               | 1.00        | 16XL         | 1.019       | 16XL                                       | 1.019 | 1.15  | .58                                | .38  | 1.40  | 1.90  | 2.40  | 2.90  | 3.40  | 3.90  |
| 3500                              | 1750        | 1160               | 1.00        | 15XL         | .955        | 15XL                                       | .955  | 1.07  | .53                                | .36  | 1.50  | 2.00  | 2.50  | 3.00  | 3.50  | 4.00  |
| 3500                              | 1750        | 1160               | 1.00        | 14XL         | .891        | 14XL                                       | .891  | 1.00  | .50                                | .33  | 1.60  | 2.10  | 2.60  | 3.10  | 3.60  | 4.10  |
| 3500                              | 1750        | 1160               | 1.00        | 12XL         | .764        | 12XL                                       | .764  | .86   | .43                                | .28  | 1.80  | 2.30  | 2.80  | 3.30  | 3.80  | 4.30  |
| 3500                              | 1750        | 1160               | 1.00        | 11XL         | .700        | 11XL                                       | .700  | .79 ◊ | .39                                | .26  | 1.90† | 2.40† | 2.90† | 3.40† | 3.90† | 4.40† |
| 3341                              | 1675        | 1107               | 1.05        | 21XL         | 1.337       | 22XL                                       | 1.401 | 1.49  | .75                                | .50  | ....  | ....  | 1.85  | 2.35  | 2.85  | 3.35  |
| 3333                              | 1667        | 1105               | 1.05        | 20XL         | 1.273       | 21XL                                       | 1.337 | 1.42  | .72                                | .46  | ....  | ....  | 1.95  | 2.45  | 2.95  | 3.45  |
| 3281                              | 1641        | 1088               | 1.07        | 30XL         | 1.910       | 32XL                                       | 2.037 | 2.11  | 1.07                               | .71  | ....  | ....  | ....  | ....  | ....  | 2.39  |
| 3281                              | 1641        | 1088               | 1.07        | 15XL         | .955        | 16XL                                       | 1.019 | 1.07  | .53                                | .36  | 1.45  | 1.95  | 2.45  | 2.95  | 3.45  | 3.95  |
| 3267                              | 1634        | 1083               | 1.07        | 28XL         | 1.783       | 30XL                                       | 1.910 | 1.98  | 1.00                               | .66  | ....  | ....  | ....  | ....  | 2.09  | 2.59  |
| 3267                              | 1634        | 1083               | 1.07        | 14XL         | .891        | 15XL                                       | .955  | 1.00  | .50                                | .33  | 1.55  | 2.05  | 2.55  | 3.05  | 3.55  | 4.05  |
| 3208                              | 1604        | 1063               | 1.09        | 22XL         | 1.401       | 24XL                                       | 1.528 | 1.57  | .79                                | .52  | ....  | ....  | ....  | 2.19  | 2.69  | 3.19  |
| 3208                              | 1604        | 1063               | 1.09        | 11XL         | .700        | 12XL                                       | .764  | .79 ◊ | .39                                | .26  | 1.85† | 2.35† | 2.85† | 3.35† | 3.85† | 4.35† |
| 3182                              | 1591        | 1055               | 1.10        | 20XL         | 1.273       | 22XL                                       | 1.401 | 1.42  | .72                                | .46  | ....  | ....  | 1.89  | 2.39  | 2.89  | 3.39  |
| 3150                              | 1575        | 1044               | 1.11        | 18XL         | 1.146       | 20XL                                       | 1.273 | 1.28  | .64                                | .42  | ....  | 1.59  | 2.09  | 2.59  | 3.09  | 3.59  |
| 3111                              | 1556        | 1031               | 1.13        | 16XL         | 1.019       | 18XL                                       | 1.146 | 1.15  | .58                                | .38  | ....  | 1.79  | 2.29  | 2.79  | 3.29  | 3.79  |
| 3063                              | 1532        | 1015               | 1.14        | 28XL         | 1.783       | 32XL                                       | 2.037 | 1.98  | 1.00                               | .66  | ....  | ....  | ....  | ....  | ....  | 2.49  |
| 3063                              | 1532        | 1015               | 1.14        | 21XL         | 1.337       | 24XL                                       | 1.528 | 1.49  | .75                                | .50  | ....  | ....  | 1.74  | 2.24  | 2.74  | 3.24  |
| 3063                              | 1532        | 1015               | 1.14        | 14XL         | .891        | 16XL                                       | 1.019 | 1.00  | .50                                | .33  | 1.49  | 1.99  | 2.49  | 2.99  | 3.49  | 4.00  |
| 3000                              | 1500        | 994                | 1.17        | 24XL         | 1.528       | 28XL                                       | 1.783 | 1.71  | .86                                | .56  | ....  | ....  | ....  | ....  | 2.39  | 2.89  |
| 3000                              | 1500        | 994                | 1.17        | 18XL         | 1.146       | 21XL                                       | 1.337 | 1.28  | .64                                | .42  | ....  | 1.54  | 2.04  | 2.54  | 3.04  | 3.54  |
| 3000                              | 1500        | 994                | 1.17        | 12XL         | .764        | 14XL                                       | .891  | .86   | .43                                | .28  | 1.69† | 2.19† | 2.69† | 3.19† | 3.69† | 4.20† |
| 2917                              | 1458        | 967                | 1.20        | 30XL         | 1.910       | 36XL                                       | 2.292 | 2.11  | 1.07                               | .71  | ....  | ....  | ....  | ....  | ....  | ....  |
| 2917                              | 1458        | 967                | 1.20        | 20XL         | 1.273       | 24XL                                       | 1.528 | 1.42  | .72                                | .46  | ....  | ....  | 1.79  | 2.29  | 2.79  | 3.29  |
| 2917                              | 1458        | 967                | 1.20        | 15XL         | .955        | 18XL                                       | 1.146 | 1.07  | .53                                | .36  | 1.34  | 1.84  | 2.34  | 2.84  | 3.34  | 3.84  |
| 2864                              | 1432        | 949                | 1.22        | 18XL         | 1.146       | 22XL                                       | 1.401 | 1.28  | .64                                | .42  | ....  | ....  | 1.99  | 2.49  | 2.99  | 3.49  |
| 2800                              | 1400        | 928                | 1.25        | 24XL         | 1.528       | 30XL                                       | 1.910 | 1.71  | .86                                | .56  | ....  | ....  | ....  | ....  | 2.29  | 2.79  |
| 2800                              | 1400        | 928                | 1.25        | 16XL         | 1.019       | 20XL                                       | 1.273 | 1.15  | .58                                | .38  | ....  | 1.69  | 2.19  | 2.69  | 3.19  | 3.69  |
| 2800                              | 1400        | 928                | 1.25        | 12XL         | .764        | 15XL                                       | .955  | .86   | .43                                | .28  | 1.6†  | 2.14† | 2.64† | 3.14† | 3.64† | 4.14† |
| 2750                              | 1375        | 911                | 1.27        | 22XL         | 1.401       | 28XL                                       | 1.783 | 1.57  | .79                                | .52  | ....  | ....  | ....  | 1.99  | 2.49  | 2.99  |
| 2750                              | 1375        | 911                | 1.27        | 11XL         | .700        | 14XL                                       | .891  | .79 ◊ | .39                                | .26  | 1.7†  | 2.24† | 2.74† | 3.24† | 3.74† | 4.24† |
| 2722                              | 1361        | 902                | 1.29        | 28XL         | 1.783       | 36XL                                       | 2.292 | 1.98  | 1.00                               | .66  | ....  | ....  | ....  | ....  | ....  | 2.28  |
| 2722                              | 1361        | 902                | 1.29        | 14XL         | .891        | 18XL                                       | 1.146 | 1.00  | .50                                | .33  | 1.39  | 1.89  | 2.39  | 2.89  | 3.39  | 3.89  |
| 2667                              | 1333        | 884                | 1.31        | 16XL         | 1.019       | 21XL                                       | 1.337 | 1.15  | .58                                | .38  | ....  | 1.64  | 2.14  | 2.64  | 3.14  | 3.64  |
| 2625                              | 1313        | 870                | 1.33        | 30XL         | 1.910       | 40XL                                       | 2.546 | 2.11  | 1.07                               | .71  | ....  | ....  | ....  | ....  | ....  | ....  |
| 2625                              | 1313        | 870                | 1.33        | 24XL         | 1.528       | 32XL                                       | 2.037 | 1.71  | .86                                | .56  | ....  | ....  | 1.89  | ....  | 2.18  | 2.68  |
| 2625                              | 1313        | 870                | 1.33        | 21XL         | 1.337       | 28XL                                       | 1.783 | 1.49  | .75                                | .50  | ....  | ....  | ....  | 2.03  | 2.54  | 3.04  |
| 2625                              | 1313        | 870                | 1.33        | 18XL         | 1.146       | 24XL                                       | 1.528 | 1.28  | .64                                | .42  | ....  | ....  | ....  | 2.39  | 2.89  | 3.39  |
| 2625                              | 1313        | 870                | 1.33        | 15XL         | .955        | 20XL                                       | 1.273 | 1.07  | .53                                | .36  | ....  | 1.74  | 2.24  | 2.74  | 3.24  | 3.74  |
| 2625                              | 1313        | 870                | 1.33        | 12XL         | .764        | 16XL                                       | 1.019 | .86   | .43                                | .28  | 1.59† | 2.09† | 2.59† | 3.09† | 3.59† | 4.09† |
| 2567                              | 1283        | 851                | 1.36        | 22XL         | 1.401       | 30XL                                       | 1.910 | 1.57  | .79                                | .52  | ....  | ....  | ....  | ....  | 2.38  | 2.88  |
| 2567                              | 1283        | 851                | 1.36        | 11XL         | .700        | 15XL                                       | .955  | .79 ◊ | .38                                | .26  | 1.69† | 2.19† | 2.69† | 3.19† | 3.69† | 4.19† |
| 2545                              | 1273        | 844                | 1.38        | 16XL         | 1.019       | 22XL                                       | 1.401 | 1.15  | .58                                | .38  | ....  | 1.58  | 2.09  | 2.59  | 3.09  | 3.59  |
| 2500                              | 1250        | 829                | 1.40        | 30XL         | 1.910       | 42XL                                       | 2.674 | 2.11  | 1.07                               | .71  | ....  | 1.68  | ....  | ....  | ....  | ....  |
| 2500                              | 1250        | 829                | 1.40        | 20XL         | 1.273       | 28XL                                       | 1.783 | 1.42  | .72                                | .46  | ....  | ....  | ....  | 2.08  | 2.58  | 3.09  |
| 2500                              | 1250        | 829                | 1.40        | 15XL         | .955        | 21XL                                       | 1.337 | 1.07  | .53                                | .36  | ....  | ....  | 2.19  | 2.69  | 3.19  | 3.69  |
| 2450                              | 1225        | 812                | 1.43        | 28XL         | 1.783       | 40XL                                       | 2.546 | 1.98  | 1.00                               | .66  | ....  | ....  | ....  | ....  | ....  | ....  |
| 2450                              | 1225        | 812                | 1.43        | 21XL         | 1.337       | 30XL                                       | 1.910 | 1.49  | .75                                | .50  | ....  | ....  | ....  | 1.92  | 2.43  | 2.93  |
| 2450                              | 1225        | 812                | 1.43        | 14XL         | .891        | 20XL                                       | 1.273 | 1.00  | .50                                | .33  | ....  | 1.79  | 2.29  | 2.79  | 3.29  | 3.79  |
| 2406                              | 1203        | 798                | 1.45        | 22XL         | 1.401       | 32XL                                       | 2.037 | 1.57  | .79                                | .52  | ....  | ....  | ....  | ....  | 2.27  | 2.78  |
| 2406                              | 1203        | 798                | 1.45        | 11XL         | .700        | 16XL                                       | 1.019 | .79 ◊ | .39                                | .26  | 1.64† | 2.14† | 2.64† | 3.14† | 3.64† | 4.14† |

Δ HP ratings are for conventional speed-reduction drives.

† See Teeth in Mesh table on opposite page

For Speed-Up Drives refer to page PT10-17.

◊ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|

# SELECTION



## XL Stock Drive Selections

| Nominal Center Distance Using DYNA-SYNC Belts |       |       |       |       |       |       |       |       |       |       |        |        |        |        |  |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--|
| 120XL   | 130XL | 140XL | 150XL | 160XL | 170XL | 180XL | 190XL | 200XL | 210XL | 220XL | 230XL  | 240XL  | 250XL  | 260XL  |  |
| 3.00  | 3.50  | 4.00  | 4.50  | 5.00  | 5.50  | 6.00  | 6.50  | 7.00  | 7.50  | 8.00  | 8.50   | 9.00   | 9.50   | 10.00  |  |
| 3.20  | 3.70  | 4.20  | 4.70  | 5.20  | 5.70  | 6.20  | 6.70  | 7.20  | 7.70  | 8.20  | 8.70   | 9.20   | 9.70   | 10.20  |  |
| 3.60  | 4.10  | 4.60  | 5.10  | 5.60  | 6.10  | 6.60  | 7.10  | 7.60  | 8.10  | 8.60  | 9.10   | 9.60   | 10.10  | 10.60  |  |
| 3.80  | 4.30  | 4.80  | 5.30  | 5.80  | 6.30  | 6.80  | 7.30  | 7.80  | 8.30  | 8.80  | 9.30   | 9.80   | 10.30  | 10.80  |  |
| 3.90  | 4.40  | 4.90  | 5.40  | 5.90  | 6.40  | 6.90  | 7.40  | 7.90  | 8.40  | 8.90  | 9.40   | 9.90   | 10.40  | 10.90  |  |
| 4.00  | 4.50  | 5.00  | 5.50  | 6.00  | 6.50  | 7.00  | 7.50  | 8.00  | 8.50  | 9.00  | 9.50   | 10.00  | 10.50  | 11.00  |  |
| 4.20  | 4.70  | 5.20  | 5.70  | 6.20  | 6.70  | 7.20  | 7.70  | 8.20  | 8.70  | 9.20  | 9.70   | 10.20  | 10.70  | 11.20  |  |
| 4.40  | 4.90  | 5.40  | 5.90  | 6.40  | 6.90  | 7.40  | 7.90  | 8.40  | 8.90  | 9.40  | 9.90   | 10.40  | 10.90  | 11.40  |  |
| 4.50  | 5.00  | 5.50  | 6.00  | 6.50  | 7.00  | 7.50  | 8.00  | 8.50  | 9.00  | 9.50  | 10.00  | 10.50  | 11.00  | 11.50  |  |
| 4.60  | 5.10  | 5.60  | 6.10  | 6.60  | 7.10  | 7.60  | 8.10  | 8.60  | 9.10  | 9.60  | 10.10  | 10.60  | 11.10  | 11.60  |  |
| 4.80  | 5.30  | 5.80  | 6.30  | 6.80  | 7.30  | 7.80  | 8.30  | 8.60  | 9.30  | 9.80  | 10.30  | 10.80  | 11.30  | 11.80  |  |
| 4.90†   | 5.40† | 5.90† | 6.40† | 6.90† | 7.40† | 7.90† | 8.40† | 8.90† | 9.40† | 9.90† | 10.40† | 10.90† | 11.40† | 11.90† |  |
| 3.85  | 4.35  | 4.85  | 5.35  | 5.85  | 6.35  | 6.85  | 7.35  | 7.85  | 8.35  | 8.85  | 9.35   | 9.85   | 10.35  | 10.85  |  |
| 3.95  | 4.45  | 4.95  | 5.45  | 5.95  | 6.45  | 6.95  | 7.45  | 7.95  | 8.45  | 8.95  | 9.45   | 9.95   | 10.45  | 10.95  |  |
| 2.89  | 3.39  | 3.89  | 4.40  | 4.90  | 5.40  | 5.90  | 6.40  | 6.90  | 7.40  | 7.90  | 8.40   | 8.99   | 9.40   | 9.90   |  |
| 4.45  | 4.95  | 5.45  | 5.95  | 6.45  | 6.95  | 7.45  | 7.95  | 8.45  | 8.95  | 9.45  | 9.95   | 10.45  | 10.95  | 11.45  |  |
| 3.09  | 3.59  | 4.10  | 4.60  | 5.10  | 5.60  | 6.10  | 6.60  | 7.10  | 7.60  | 8.10  | 8.60   | 9.10   | 9.80   | 10.10  |  |
| 4.55  | 5.05  | 5.55  | 6.05  | 6.55  | 7.05  | 7.55  | 8.05  | 8.55  | 9.05  | 9.55  | 10.05  | 10.55  | 11.05  | 11.55  |  |
| 3.69  | 4.20  | 4.70  | 5.20  | 5.70  | 6.20  | 6.70  | 7.20  | 7.70  | 8.20  | 8.70  | 9.20   | 9.70   | 10.20  | 10.70  |  |
| 4.85†   | 5.35† | 5.85† | 6.35† | 6.85† | 7.35† | 7.85† | 8.35† | 8.85† | 9.35† | 9.85† | 10.35† | 10.85† | 11.35† | 11.85† |  |
| 3.89  | 4.40  | 4.90  | 5.40  | 5.90  | 6.40  | 6.90  | 7.40  | 7.90  | 8.40  | 8.90  | 9.40   | 9.90   | 10.40  | 10.90  |  |
| 4.10  | 4.60  | 5.10  | 5.60  | 6.10  | 6.60  | 7.10  | 7.60  | 8.10  | 8.60  | 9.10  | 9.60   | 10.10  | 10.60  | 11.10  |  |
| 4.30  | 4.80  | 5.30  | 5.80  | 6.30  | 6.80  | 7.30  | 7.80  | 8.30  | 8.80  | 9.30  | 9.80   | 10.30  | 10.80  | 11.30  |  |
| 2.99  | 3.49  | 3.99  | 4.49  | 4.99  | 5.49  | 5.99  | 6.49  | 6.99  | 7.49  | 7.99  | 8.49   | 8.99   | 9.49   | 9.99   |  |
| 3.74  | 4.24  | 4.74  | 5.24  | 5.74  | 6.24  | 6.74  | 7.24  | 7.74  | 8.24  | 8.74  | 9.24   | 9.74   | 10.24  | 10.74  |  |
| 4.50  | 5.00  | 5.50  | 6.00  | 6.50  | 7.00  | 7.50  | 8.00  | 8.50  | 9.00  | 9.50  | 10.00  | 10.50  | 11.00  | 11.50  |  |
| 3.39  | 3.89  | 4.39  | 4.89  | 5.39  | 5.89  | 6.39  | 6.89  | 7.39  | 7.89  | 8.39  | 8.89   | 9.39   | 9.89   | 10.39  |  |
| 4.04  | 4.54  | 5.04  | 5.54  | 6.04  | 6.54  | 7.04  | 7.54  | 8.04  | 8.54  | 9.04  | 9.54   | 10.04  | 10.54  | 11.04  |  |
| 4.70†   | 5.20† | 5.70† | 6.20† | 6.70† | 7.20† | 7.70† | 8.20† | 8.70† | 9.20† | 9.70† | 10.20† | 10.70† | 11.20† | 11.70† |  |
| 2.69  | 3.19  | 3.69  | 4.19  | 4.69  | 5.19  | 5.69  | 6.19  | 6.69  | 7.19  | 7.69  | 8.19   | 8.69   | 9.19   | 9.69   |  |
| 3.79  | 4.29  | 4.79  | 5.29  | 5.79  | 6.29  | 6.79  | 7.29  | 7.79  | 8.29  | 8.79  | 9.29   | 9.79   | 10.29  | 10.79  |  |
| 4.34  | 4.84  | 5.34  | 5.84  | 6.34  | 6.84  | 7.34  | 7.84  | 8.34  | 8.84  | 9.34  | 9.84   | 10.34  | 10.84  | 11.34  |  |
| 3.99  | 4.49  | 4.99  | 5.49  | 5.99  | 6.49  | 6.99  | 7.49  | 7.99  | 8.49  | 8.99  | 9.49   | 9.99   | 10.49  | 10.99  |  |
| 3.29  | 3.79  | 4.29  | 4.79  | 5.29  | 5.79  | 6.29  | 6.79  | 7.29  | 7.79  | 8.29  | 8.79   | 9.29   | 9.79   | 10.29  |  |
| 4.19  | 4.69  | 5.19  | 5.69  | 6.19  | 6.69  | 7.19  | 7.69  | 8.19  | 8.69  | 9.19  | 9.69   | 10.19  | 10.69  | 11.19  |  |
| 4.64†   | 5.14† | 5.64† | 6.14† | 6.64† | 7.14† | 7.64† | 8.14† | 8.64† | 9.14† | 9.64† | 10.14† | 10.64† | 11.14† | 11.64† |  |
| 3.49  | 3.99  | 4.49  | 4.99  | 5.49  | 5.99  | 6.49  | 6.99  | 7.49  | 7.99  | 8.49  | 8.99   | 9.49   | 9.99   | 10.49  |  |
| 4.74†   | 5.24† | 5.74† | 6.24† | 6.74† | 7.24† | 7.74† | 8.24† | 8.74† | 9.24† | 9.74† | 10.24† | 10.74† | 11.24† | 11.74† |  |
| 2.78  | 3.29  | 3.79  | 4.29  | 4.79  | 5.29  | 5.79  | 6.29  | 6.79  | 7.29  | 7.79  | 8.29   | 8.79   | 9.29   | 9.79   |  |
| 4.39  | 4.89  | 5.39  | 5.89  | 6.39  | 6.89  | 7.39  | 7.89  | 8.39  | 8.89  | 9.39  | 9.89   | 10.39  | 10.89  | 11.39  |  |
| 4.14  | 4.64  | 5.14  | 5.64  | 6.14  | 6.64  | 7.14  | 7.64  | 8.14  | 8.64  | 9.14  | 9.64   | 10.14  | 10.64  | 11.14  |  |
| 2.48  | 2.98  | 3.48  | 3.98  | 4.48  | 4.98  | 5.48  | 5.98  | 6.48  | 6.98  | 7.48  | 7.98   | 8.48   | 8.98   | 9.48   |  |
| 3.19  | 3.69  | 4.19  | 4.69  | 5.19  | 5.69  | 6.19  | 6.69  | 7.19  | 7.69  | 8.19  | 8.69   | 9.19   | 9.69   | 10.19  |  |
| 3.54  | 4.04  | 4.54  | 5.04  | 5.54  | 6.04  | 6.54  | 7.04  | 7.54  | 8.04  | 8.54  | 9.04   | 9.54   | 10.04  | 10.54  |  |
| 3.89  | 4.39  | 4.89  | 5.39  | 5.89  | 6.39  | 6.89  | 7.39  | 7.89  | 8.39  | 8.89  | 9.39   | 9.89   | 10.39  | 10.89  |  |
| 4.24  | 4.74  | 5.24  | 5.74  | 6.24  | 6.74  | 7.24  | 7.74  | 8.24  | 8.74  | 9.24  | 9.74   | 10.24  | 10.74  | 11.24  |  |
| 4.59†   | 5.09† | 5.59† | 6.09† | 6.59† | 7.09† | 7.59† | 8.09† | 8.59† | 9.09† | 9.59† | 10.09† | 10.59† | 11.09† | 11.59† |  |
| 3.39  | 3.89  | 4.39  | 4.89  | 5.39  | 5.89  | 6.39  | 6.89  | 7.39  | 7.89  | 8.39  | 8.89   | 9.39   | 9.89   | 10.39  |  |
| 4.69†   | 5.19† | 5.69† | 6.19† | 6.69† | 7.19† | 7.69† | 8.19† | 8.69† | 9.19† | 9.69† | 10.19† | 10.69† | 11.19† | 11.69† |  |
| 4.09  | 4.59  | 5.09  | 5.59  | 6.09  | 6.59  | 7.09  | 7.59  | 8.09  | 8.59  | 9.09  | 9.59   | 10.09  | 10.59  | 11.09  |  |
| ....  | 2.87  | 3.37  | 3.88  | 4.38  | 4.88  | 5.38  | 5.88  | 6.38  | 6.88  | 7.39  | 7.89   | 8.39   | 8.69   | 9.39   |  |
| 3.59  | 4.09  | 4.59  | 5.09  | 5.59  | 6.09  | 6.59  | 7.09  | 7.59  | 8.09  | 8.59  | 9.09   | 9.59   | 10.09  | 10.59  |  |
| 4.19  | 4.69  | 5.19  | 5.69  | 6.19  | 6.69  | 7.19  | 7.69  | 8.19  | 8.69  | 9.19  | 9.69   | 10.19  | 10.69  | 11.19  |  |
| 2.57  | 3.07  | 3.58  | 4.08  | 4.58  | 5.08  | 5.58  | 6.08  | 6.58  | 7.09  | 7.59  | 8.09   | 8.59   | 9.09   | 9.59   |  |
| 3.43  | 3.84  | 4.44  | 4.94  | 5.44  | 5.94  | 6.44  | 6.94  | 7.44  | 7.94  | 8.44  | 8.94   | 9.44   | 9.94   | 10.44  |  |
| 4.29  | 4.79  | 5.29  | 5.79  | 6.29  | 6.79  | 7.29  | 7.79  | 8.29  | 8.79  | 9.29  | 9.79   | 10.29  | 10.79  | 11.29  |  |
| 3.28  | 3.78  | 4.28  | 4.78  | 5.29  | 5.79  | 6.29  | 6.79  | 7.29  | 7.79  | 8.29  | 8.79   | 9.29   | 9.79   | 10.29  |  |
| 4.64†   | 5.14† | 5.64† | 6.14† | 6.64† | 7.14† | 7.64† | 8.14† | 8.64† | 9.14† | 9.64† | 10.14† | 10.64† | 11.14† | 11.64† |  |

### XL Belt Width Table

|                   |     |     |      |     |     |     |     |      |       |       |
|-------------------|-----|-----|------|-----|-----|-----|-----|------|-------|-------|
| Belt Width Factor | .15 | .28 | .35  | .42 | .57 | .71 | .86 | 1.00 | 1.29  | 1.56  |
| Belt Width        | 1/4 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | 7/8 | 1    | 1-1/4 | 1-1/2 |
| Belt Width Code   | 025 | 037 | 043  | 050 | 062 | 075 | 087 | 100  | 125   | 150   |

### Teeth in Mesh Factor (T.I.M.)

| Table Symbol | No. of Teeth in Mesh in Small Pulley | Factor |
|--------------|--------------------------------------|--------|
| None         | 6 or More                            | 1.00   |
| †            | 5                                    | .80    |

Shaded area indicates stock belt widths

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|



# SELECTION

## XL Stock Drive Selections

|      | Driven Speeds for Motor Speeds of |      |      | Speed Ratio | Pulley Combination |             |              |             | HP for a 1 Wide Belt for Motor Speeds of Δ |      |       | Nominal C.D. Using DYNA-SYNC Belts |       |       |       |       |       |
|------|-----------------------------------|------|------|-------------|--------------------|-------------|--------------|-------------|--|------|-------|------------------------------------|-------|-------|-------|-------|-------|
|      | 3500                              | 1750 | 1160 |             | Driver             |             | Driven       |             | 3500                                       | 1750 | 1160  | 60XL                               | 70XL  | 80XL  | 90XL  | 100XL | 110XL |
|      |                                   |      |      |             | No. of Teeth       | Pitch Diam. | No. of Teeth | Pitch Diam. |  |      |       |                                    |       |       |       |       |       |
| 2386 | 1193                              | 791  | 1.47 | 15XL        | 1.901              | 44XL        | 2.801        | 2.11        | 1.07                                       | .71  | ....  | ....                               | ....  | ....  | ....  | ....  |       |
| 2386 | 1193                              | 791  | 1.47 | 30XL        | .955               | 22XL        | 1.401        | 1.07        | .53  | .36  | ....  | 1.63                               | 2.13  | 2.64  | 3.14  | 3.64  |       |
| 2334 | 1167                              | 773  | 1.50 | 28XL        | 1.783              | 42XL        | 2.674        | 1.98        | 1.00                                       | .66  | ....  | ....                               | ....  | ....  | ....  | ....  |       |
| 2334 | 1167                              | 773  | 1.50 | 24XL        | 1.528              | 36XL        | 2.292        | 1.71        | .86  | .56  | ....  | ....                               | ....  | ....  | ....  | 2.47  |       |
| 2334 | 1167                              | 773  | 1.50 | 20XL        | 1.273              | 30XL        | 1.910        | 1.42        | .72  | .46  | ....  | ....                               | ....  | 1.97  | 2.48  | 2.98  |       |
| 2334 | 1167                              | 773  | 1.50 | 16XL        | 1.019              | 24XL        | 1.528        | 1.15        | .58  | .38  | ....  | ....                               | 1.98  | 2.48  | 2.98  | 3.49  |       |
| 2334 | 1167                              | 773  | 1.50 | 14XL        | .891               | 21XL        | 1.337        | 1.00        | .50  | .33  | ....  | 1.73                               | 2.23  | 2.74  | 3.24  | 3.74  |       |
| 2334 | 1167                              | 773  | 1.50 | 12XL        | .764               | 18XL        | 1.146        | .86         | .43  | .28  | 1.48† | 1.99†                              | 2.49† | 2.99† | 3.49† | 3.99† |       |
| 2297 | 1148                              | 761  | 1.52 | 21XL        | 1.337              | 32XL        | 2.037        | 1.49        | .75  | .50  | ....  | ....                               | ....  | ....  | 2.32  | 2.82  |       |
| 2250 | 1125                              | 746  | 1.56 | 18XL        | 1.146              | 28XL        | 1.783        | 1.28        | .64  | .42  | ....  | ....                               | ....  | 2.17  | 2.68  | 3.18  |       |
| 2227 | 1114                              | 738  | 1.57 | 28XL        | 1.783              | 44XL        | 2.801        | 1.98        | 1.00                                       | .66  | ....  | ....                               | ....  | ....  | ....  | ....  |       |
| 2227 | 1114                              | 738  | 1.57 | 14XL        | .891               | 22XL        | 1.401        | 1.00        | .50  | .33  | ....  | 1.68                               | 2.18  | 2.68  | 3.19  | 3.69  |       |
| 2188 | 1094                              | 725  | 1.60 | 30XL        | 1.910              | 48XL        | 3.056        | 2.11        | 1.07                                       | .71  | ....  | ....                               | ....  | ....  | ....  | ....  |       |
| 2188 | 1094                              | 725  | 1.60 | 20XL        | 1.273              | 32XL        | 2.037        | 1.42        | .72  | .46  | ....  | ....                               | ....  | 1.86  | 2.36  | 2.87  |       |
| 2188 | 1094                              | 725  | 1.60 | 15XL        | .955               | 24XL        | 1.528        | 1.07        | .53  | .36  | ....  | 1.52                               | 2.02  | 2.53  | 3.03  | 3.53  |       |
| 2139 | 1059                              | 709  | 1.64 | 22XL        | 1.401              | 36XL        | 2.292        | 1.57        | .79  | .52  | ....  | ....                               | ....  | ....  | ....  | 2.56  |       |
| 2139 | 1069                              | 709  | 1.64 | 11XL        | .700               | 18XL        | 1.146        | .79 ◊       | .39  | .26  | 1.53† | 2.03†                              | 2.54† | 3.64† | 3.54† | 4.04† |       |
| 2100 | 1050                              | 696  | 1.67 | 24XL        | 1.528              | 40XL        | 2.546        | 1.71        | .86  | .56  | ....  | ....                               | ....  | ....  | ....  | ....  |       |
| 2100 | 1050                              | 696  | 1.67 | 18XL        | 1.146              | 30XL        | 1.910        | 1.28        | .64  | .42  | ....  | ....                               | ....  | 2.06  | 2.57  | 3.07  |       |
| 2100 | 1050                              | 696  | 1.67 | 12XL        | .764               | 20XL        | 1.273        | .86         | .43  | .28  | 1.37† | 1.88†                              | 2.38† | 2.88† | 3.39† | 3.89† |       |
| 2042 | 1021                              | 677  | 1.71 | 28XL        | 1.783              | 48XL        | 3.056        | 1.98        | 1.00                                       | .66  | ....  | ....                               | ....  | ....  | ....  | ....  |       |
| 2042 | 1021                              | 677  | 1.71 | 21XL        | 1.337              | 36XL        | 2.292        | 1.49        | .75  | .50  | ....  | ....                               | ....  | ....  | 2.09  | 2.60  |       |
| 2042 | 1021                              | 677  | 1.71 | 14XL        | .891               | 24XL        | 1.528        | 1.00        | .50  | .33  | ....  | 1.56                               | 2.07  | 2.58  | 3.08  | 3.58  |       |
| 2000 | 1000                              | 663  | 1.75 | 24XL        | 1.528              | 42XL        | 2.674        | 1.71        | .86  | .56  | ....  | ....                               | ....  | ....  | ....  | ....  |       |
| 2000 | 1000                              | 683  | 1.75 | 16XL        | 1.019              | 28XL        | 1.783        | 1.15        | .58  | .38  | ....  | ....                               | 1.75  | 2.26  | 2.77  | 3.27  |       |
| 2000 | 1000                              | 663  | 1.75 | 12XL        | .764               | 21XL        | 1.337        | .86         | .43  | .28  | 1.31† | 1.82†                              | 2.33† | 2.83† | 3.33† | 3.83† |       |
| 1969 | 984                               | 653  | 1.78 | 18XL        | 1.146              | 32XL        | 2.037        | 1.28        | .64  | .42  | ....  | ....                               | ....  | 1.94  | 2.46  | 2.96  |       |
| 1944 | 972                               | 644  | 1.80 | 20XL        | 1.273              | 36XL        | 2.292        | 1.42        | .72  | .46  | ....  | ....                               | ....  | ....  | 2.13  | 2.65  |       |
| 1925 | 963                               | 637  | 1.82 | 22XL        | 1.401              | 40XL        | 2.546        | 1.57        | .79  | .52  | ....  | ....                               | ....  | ....  | ....  | 2.32  |       |
| 1925 | 963                               | 637  | 1.82 | 11XL        | .700               | 20XL        | 1.273        | .79 ◊       | .39  | .26  | 1.42† | 1.92†                              | 2.43† | 2.93† | 3.43† | 3.94† |       |
| 1909 | 955                               | 633  | 1.83 | 24XL        | 1.528              | 44XL        | 2.801        | 1.71        | .86  | .56  | ....  | ....                               | ....  | ....  | ....  | ....  |       |
| 1909 | 955                               | 633  | 1.83 | 12XL        | .764               | 22XL        | 1.401        | .86         | .43  | .28  | ....  | 1.77†                              | 2.27† | 2.78† | 3.28† | 3.78† |       |
| 1875 | 937                               | 621  | 1.87 | 15XL        | .955               | 28XL        | 1.783        | 1.07        | .53  | .36  | ....  | ....                               | 1.80  | 2.31  | 2.82  | 3.32  |       |
| 1867 | 933                               | 619  | 1.88 | 16XL        | 1.019              | 30XL        | 1.910        | 1.15        | .58  | .38  | ....  | ....                               | ....  | 2.15  | 2.66  | 3.16  |       |
| 1838 | 919                               | 609  | 1.90 | 21XL        | 1.337              | 40XL        | 2.546        | 1.49        | .75  | .50  | ....  | ....                               | ....  | ....  | ....  | 2.37  |       |
| 1833 | 917                               | 607  | 1.91 | 22XL        | 1.401              | 42XL        | 2.674        | 1.57        | .79  | .52  | ....  | ....                               | ....  | ....  | ....  | ....  |       |
| 1833 | 917                               | 607  | 1.91 | 11XL        | .700               | 21XL        | 1.337        | .79 ◊       | .39  | .26  | 1.36† | 1.87†                              | 2.37† | 2.88† | 3.38† | 3.88† |       |
| 1750 | 875                               | 580  | 2.00 | 30XL        | 1.910              | 60XL        | 3.820        | 2.11        | 1.07                                       | .71  | ....  | ....                               | ....  | ....  | ....  | ....  |       |
| 1750 | 875                               | 580  | 2.00 | 24XL        | 1.528              | 48XL        | 3.056        | 1.71        | .86  | .56  | ....  | ....                               | ....  | ....  | ....  | ....  |       |
| 1750 | 875                               | 580  | 2.00 | 22XL        | 1.401              | 44XL        | 2.801        | 1.57        | .79  | .52  | ....  | ....                               | ....  | ....  | ....  | ....  |       |
| 1750 | 875                               | 580  | 2.00 | 21XL        | 1.337              | 42XL        | 2.674        | 1.49        | .75  | .50  | ....  | ....                               | ....  | ....  | ....  | 2.25  |       |
| 1750 | 875                               | 580  | 2.00 | 20XL        | 1.273              | 40XL        | 2.546        | 1.42        | .72  | .46  | ....  | ....                               | ....  | ....  | ....  | 2.41  |       |
| 1750 | 875                               | 580  | 2.00 | 18XL        | 1.146              | 36XL        | 2.292        | 1.28        | .64  | .42  | ....  | ....                               | ....  | ....  | 2.22  | 2.74  |       |
| 1750 | 875                               | 580  | 2.00 | 16XL        | 1.019              | 32XL        | 2.037        | 1.15        | .58  | .38  | ....  | ....                               | ....  | 2.03  | 2.54  | 3.05  |       |
| 1750 | 875                               | 580  | 2.00 | 15XL        | .955               | 30XL        | 1.910        | 1.07        | .53  | .36  | ....  | ....                               | 1.68  | 2.19  | 2.70  | 3.21  |       |
| 1750 | 875                               | 580  | 2.00 | 14XL        | .891               | 28XL        | 1.783        | 1.00        | .50  | .33  | ....  | ....                               | 1.84† | 2.35  | 2.86  | 3.37  |       |
| 1750 | 875                               | 580  | 2.00 | 12XL        | .764               | 24XL        | 1.528        | .86         | .43  | .28  | ....  | 1.65†                              | 2.16† | 2.67† | 3.17† | 3.68† |       |
| 1750 | 875                               | 580  | 2.00 | 11XL        | .700               | 22XL        | 1.401        | .79 ◊       | .39  | .26  | 1.30† | 1.81†                              | 2.32† | 2.82† | 3.33† | 3.83† |       |
| 1670 | 835                               | 554  | 2.10 | 21XL        | 1.337              | 44XL        | 2.801        | 1.49        | .75  | .50  | ....  | ....                               | ....  | ....  | ....  | ....  |       |
| 1666 | 833                               | 552  | 2.10 | 20XL        | 1.273              | 42XL        | 2.674        | 1.42        | .72  | .46  | ....  | ....                               | ....  | ....  | ....  | 2.29  |       |
| 1641 | 820                               | 544  | 2.13 | 15XL        | .955               | 32XL        | 2.037        | 1.07        | .53  | .36  | ....  | ....                               | ....  | 2.07  | 2.59  | 3.10  |       |
| 1833 | 817                               | 542  | 2.14 | 28XL        | 1.783              | 60XL        | 3.820        | 1.98        | 1.00                                       | .66  | ....  | ....                               | ....  | ....  | ....  | ....  |       |
| 1833 | 817                               | 542  | 2.14 | 14XL        | .891               | 30XL        | 1.910        | 1.08        | .50  | .33  | ....  | ....                               | 1.72† | 2.24† | 2.75  | 3.26  |       |
| 1604 | 802                               | 532  | 2.18 | 22XL        | 1.401              | 48XL        | 3.056        | 1.57        | .79  | .52  | ....  | ....                               | ....  | ....  | ....  | ....  |       |
| 1604 | 802                               | 532  | 2.18 | 11XL        | .700               | 24XL        | 1.528        | .79 ◊       | .39  | .26  | ....  | 1.69†                              | 2.21† | 2.71† | 3.22† | 3.72† |       |
| 1591 | 795                               | 527  | 2.20 | 20XL        | 1.273              | 44XL        | 2.801        | 1.42        | .72  | .46  | ....  | ....                               | ....  | ....  | ....  | ....  |       |
| 1575 | 788                               | 523  | 2.22 | 18XL        | 1.146              | 40XL        | 2.546        | 1.28        | .64  | .42  | ....  | ....                               | ....  | ....  | ....  | 2.50  |       |
| 1556 | 778                               | 516  | 2.25 | 16XL        | 1.019              | 36XL        | 2.292        | 1.15        | .58  | .38  | ....  | ....                               | ....  | ....  | 2.31  | 2.82  |       |

Δ HP ratings are for conventional speed-reduction drives.

For Speed-Up Drives refer to page PT10-17.

◊ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

† † See Teeth in Mesh table on opposite page.

♥ Flanges Required on both pulleys.

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|



# SELECTION



## XL Stock Drive Selections

Nominal Center Distance Using DYNA-SYNC Belts

| 120XL | 130XL | 140XL | 150XL | 160XL | 170XL | 180XL | 190XL | 200XL | 210XL | 220XL | 230XL  | 240XL  | 250XL  | 260XL  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| ..... | 2.76  | 3.27  | 3.77  | 4.27  | 4.77  | 5.28  | 5.78  | 6.28  | 6.78  | 7.28  | 7.78   | 8.28   | 8.78   | 9.28   |
| 4.14  | 4.64  | 5.14  | 5.64  | 6.14  | 6.64  | 7.14  | 7.64  | 8.14  | 8.64  | 9.14  | 9.64   | 10.14  | 10.64  | 11.14  |
| 2.46  | 2.96  | 3.47  | 3.97  | 4.47  | 4.98  | 5.48  | 5.98  | 6.48  | 6.98  | 7.48  | 7.98   | 8.48   | 8.98   | 9.49   |
| 2.97  | 3.47  | 3.98  | 4.48  | 4.98  | 5.48  | 5.98  | 6.48  | 6.99  | 7.49  | 7.99  | 8.49   | 8.99   | 9.49   | 9.99   |
| 3.48  | 3.98  | 4.48  | 4.99  | 5.49  | 5.99  | 6.49  | 6.99  | 7.49  | 7.99  | 8.49  | 8.99   | 9.49   | 9.99   | 10.49  |
| 3.99  | 4.49  | 4.99  | 5.49  | 5.99  | 6.49  | 6.99  | 7.49  | 7.99  | 8.49  | 8.99  | 9.49   | 9.99   | 10.49  | 10.99  |
| 4.24  | 4.74  | 5.24  | 5.74  | 6.24  | 6.74  | 7.24  | 7.74  | 8.24  | 8.74  | 9.24  | 9.74   | 10.24  | 10.74  | 11.24  |
| 4.49† | 4.99† | 5.49† | 5.99† | 6.49† | 6.99† | 7.49† | 7.99† | 8.49† | 8.99† | 9.49† | 9.99†  | 10.49† | 10.99† | 11.49† |
| 3.33  | 3.83  | 4.33  | 4.83  | 5.33  | 5.84  | 6.34  | 6.84  | 7.34  | 7.84  | 8.34  | 8.84   | 9.34   | 9.84   | 10.34  |
| 3.68  | 4.18  | 4.68  | 5.19  | 5.69  | 6.19  | 6.69  | 7.19  | 7.69  | 8.19  | 8.69  | 9.19   | 9.69   | 10.19  | 10.69  |
| ..... | 2.85  | 3.36  | 3.86  | 4.37  | 4.87  | 5.37  | 5.87  | 6.38  | 6.88  | 7.38  | 7.88   | 8.38   | 8.88   | 9.38   |
| 4.19  | 4.69  | 5.19  | 5.69  | 6.19  | 6.69  | 7.19  | 7.69  | 8.19  | 8.69  | 9.19  | 9.69   | 10.19  | 10.69  | 11.19  |
| ..... | ..... | 3.04  | 3.55  | 4.06  | 4.56  | 5.06  | 5.57  | 6.07  | 6.57  | 7.07  | 7.57   | 8.08   | 8.58   | 9.08   |
| 3.37  | 3.88  | 4.38  | 4.88  | 5.38  | 5.88  | 6.38  | 6.88  | 7.39  | 7.89  | 8.39  | 8.89   | 9.39   | 9.89   | 10.39♥ |
| 4.04  | 4.54  | 5.04  | 5.54  | 6.04  | 6.54  | 7.04  | 7.54  | 8.04  | 8.54  | 9.04  | 9.54   | 10.04  | 10.54  | 11.04  |
| 3.06  | 3.57  | 4.07  | 4.57  | 5.08  | 5.58  | 6.08  | 6.58  | 7.08  | 7.58  | 8.08  | 8.58   | 9.08   | 9.59   | 10.09  |
| 4.54† | 5.04† | 5.54† | 6.04† | 6.54† | 7.04† | 7.54† | 8.04† | 8.54† | 9.04† | 9.54† | 10.04† | 10.54† | 11.04† | 11.54† |
| 2.75  | 3.26  | 3.76  | 4.27  | 4.77  | 5.27  | 5.77  | 6.27  | 6.78  | 7.28  | 7.78  | 8.28   | 8.78   | 9.28   | 9.78   |
| 3.58  | 4.08  | 4.58  | 5.08  | 5.58  | 6.08  | 6.58  | 7.09  | 7.59  | 8.09  | 8.59  | 9.09   | 9.59   | 10.09  | 10.59  |
| 4.39† | 4.89† | 5.39† | 5.89† | 6.39† | 6.89† | 7.39† | 7.89† | 8.39† | 8.89† | 9.39† | 9.89†  | 10.39† | 10.89† | 11.39† |
| ..... | ..... | 3.13  | 3.64  | 4.15  | 4.65  | 5.16  | 5.66  | 6.16  | 6.67  | 7.17  | 7.67   | 8.17   | 8.67   | 9.17   |
| 3.11  | 3.61  | 4.12  | 4.62  | 5.12  | 5.63  | 6.13  | 6.63  | 7.13  | 7.63  | 8.13  | 8.63   | 9.13   | 9.63   | 10.13  |
| 4.08  | 4.58  | 5.09  | 5.59  | 6.09  | 6.59  | 7.09  | 7.59  | 8.09  | 8.59  | 9.09  | 9.59   | 10.09  | 10.59  | 11.09  |
| 2.63  | 3.14  | 3.65  | 4.16  | 4.66  | 5.17  | 5.67  | 6.17  | 6.67  | 7.17  | 7.67  | 8.18   | 8.68   | 9.18   | 9.68   |
| 3.78  | 4.28  | 4.78  | 5.28  | 5.78  | 6.28  | 6.78  | 7.29  | 7.79  | 8.29  | 8.79  | 9.29   | 9.79   | 10.29  | 10.79  |
| 4.34† | 4.84† | 5.34† | 5.84† | 6.34† | 6.84† | 7.34† | 7.84† | 8.34† | 8.84† | 9.34† | 9.84†  | 10.34† | 10.84† | 11.34† |
| 3.47  | 3.97  | 4.47  | 4.98  | 5.48  | 5.98  | 6.48  | 6.98  | 7.48  | 7.98  | 8.48  | 8.98   | 9.49♥  | 9.99♥  | 10.49♥ |
| 3.15  | 3.66  | 4.16  | 4.67  | 5.17  | 5.67  | 6.18  | 6.68  | 7.18  | 7.68  | 8.18  | 8.68   | 9.18   | 9.68   | 10.18  |
| 2.84  | 3.35  | 3.85  | 4.36  | 4.86  | 5.36  | 5.87  | 6.37  | 6.87  | 7.37  | 7.87  | 8.38   | 8.88   | 9.38   | 9.88   |
| 4.44† | 4.94† | 5.44† | 5.94† | 6.44† | 6.94† | 7.44† | 7.94† | 8.44† | 8.94† | 9.44† | 9.94†  | 10.44† | 10.94† | 11.44† |
| 2.51  | 3.03  | 3.54  | 4.05  | 4.55  | 5.06  | 5.56  | 6.06  | 6.56  | 7.07  | 7.57  | 8.07   | 8.57   | 9.07   | 9.57   |
| 4.28† | 4.78† | 5.29† | 5.79† | 6.29† | 6.79† | 7.29† | 7.79† | 8.29† | 8.79† | 9.29† | 9.79†  | 10.29† | 10.79† | 11.29† |
| 3.82  | 4.33  | 4.83  | 5.33  | 5.83  | 6.33  | 6.83  | 7.33  | 7.83  | 8.34  | 8.84  | 9.34   | 9.84   | 10.34  | 10.84  |
| 3.67  | 4.17  | 4.67  | 5.18  | 5.68  | 6.18  | 6.68  | 7.18  | 7.68  | 8.18  | 8.68  | 9.18   | 9.69   | 10.19  | 10.69  |
| 2.88  | 3.39  | 3.90  | 4.40  | 4.91  | 5.41  | 5.91  | 6.42  | 6.92  | 7.42  | 7.92  | 8.42   | 8.93   | 9.43   | 9.93   |
| 2.72  | 3.23  | 3.74  | 4.25  | 4.75  | 5.26  | 5.76  | 6.26  | 6.77  | 7.27  | 7.77  | 8.27   | 8.77   | 9.27   | 9.77   |
| 4.38† | 4.89† | 5.39† | 5.89† | 6.39† | 6.89† | 7.39† | 7.89† | 8.39† | 8.89† | 9.39† | 9.89†  | 10.39† | 10.89† | 11.39† |
| ..... | ..... | ..... | ..... | 3.36  | 3.88  | 4.39  | 4.90  | 5.41  | 5.92  | 6.42  | 6.93   | 7.43   | 7.94   | 8.44   |
| ..... | 2.79  | 3.31  | 3.82  | 4.33  | 4.84  | 5.34  | 5.85  | 6.35  | 6.85  | 7.36  | 7.86   | 8.38   | 8.86   | 9.36   |
| 2.60  | 3.12  | 3.63  | 4.14  | 4.64  | 5.15  | 5.65  | 6.16  | 6.66  | 7.16  | 7.66  | 8.17   | 8.67   | 9.17   | 9.67   |
| 2.76  | 3.28  | 3.79  | 4.29  | 4.80  | 5.30  | 5.81  | 6.31  | 6.81  | 7.31  | 7.82  | 8.32   | 8.82   | 9.32   | 9.82   |
| 2.93  | 3.44  | 3.94  | 4.45  | 4.95  | 5.46  | 5.96  | 6.46  | 6.97  | 7.47  | 7.97  | 8.47   | 8.97   | 9.47   | 9.98   |
| 3.24  | 3.75  | 4.26  | 4.76  | 5.26  | 5.77  | 6.27  | 6.77  | 7.27  | 7.77  | 8.28  | 8.78   | 9.28♥  | 9.78♥  | 10.28♥ |
| 3.56  | 4.06  | 4.57  | 5.07  | 5.57  | 6.07  | 6.58  | 7.08  | 7.58  | 8.08  | 8.58♥ | 9.08♥  | 9.58♥  | 10.08♥ | 10.58♥ |
| 3.71  | 4.22  | 4.72  | 5.22  | 5.73  | 6.23  | 6.73  | 7.23  | 7.73  | 8.23  | 8.73  | 9.23   | 9.73   | 10.23  | 10.73  |
| 3.87  | 4.37  | 4.88  | 5.38  | 5.88  | 6.38  | 6.88  | 7.38  | 7.88  | 8.38  | 8.88  | 9.38   | 9.89   | 10.39  | 10.89  |
| 4.18† | 4.68† | 5.18† | 5.68† | 6.18† | 6.68† | 7.19† | 7.69† | 8.19† | 8.69† | 9.19† | 9.69†  | 10.19† | 10.69† | 11.19† |
| 4.33† | 4.83† | 5.33† | 5.84† | 6.34† | 6.84† | 7.34† | 7.84† | 8.34† | 8.84† | 9.34† | 9.84†  | 10.34† | 10.84† | 11.34† |
| 2.64  | 3.16  | 3.67  | 4.18  | 4.69  | 5.19  | 5.70  | 6.20  | 6.71  | 7.21  | 7.71  | 8.21   | 8.71   | 9.22   | 9.72   |
| 2.81  | 3.32  | 3.83  | 4.34  | 4.84  | 5.35  | 5.85  | 6.36  | 6.86  | 7.36  | 7.86  | 8.37   | 8.87   | 9.37   | 9.87   |
| 3.60  | 4.11  | 4.61  | 5.12  | 5.62  | 6.12  | 6.62  | 7.12  | 7.63  | 8.13♥ | 8.63♥ | 9.13♥  | 9.63♥  | 10.13♥ | 10.63♥ |
| ..... | ..... | ..... | ..... | 3.44  | 3.96  | 4.48  | 4.99  | 5.50  | 6.01  | 6.52  | 7.02   | 7.53   | 8.03   | 8.53   |
| 3.76  | 4.27  | 4.77  | 5.27  | 5.77  | 6.27  | 6.78  | 7.28  | 7.78  | 8.28  | 8.78  | 9.28   | 9.78   | 10.28  | 10.78  |
| ..... | 2.88  | 3.39  | 3.91  | 4.42  | 4.93  | 5.43  | 5.94  | 6.44  | 6.95  | 7.45  | 7.95   | 8.45   | 8.96   | 9.46   |
| 4.23† | 4.73† | 5.23† | 5.73† | 6.23† | 6.73† | 7.23† | 7.73† | 8.24† | 8.74† | 9.24† | 9.74†  | 10.24† | 10.74† | 11.24† |
| 2.69  | 3.20  | 3.72  | 4.23  | 4.73  | 5.24  | 5.74  | 6.25  | 6.75  | 7.26  | 7.76  | 8.26   | 8.76   | 9.26   | 9.77   |
| 3.01  | 3.53  | 4.03  | 4.54  | 5.05  | 5.55  | 6.05  | 6.56  | 7.06  | 7.56  | 8.07  | 8.57   | 9.07   | 9.57♥  | 10.07♥ |
| 3.33  | 3.84  | 4.35  | 4.85  | 5.36  | 5.86  | 6.36  | 6.87  | 7.37  | 7.87  | 8.37♥ | 8.87♥  | 9.37♥  | 9.87♥  | 10.38♥ |

### XL Belt Width Table

| Belt Width Factor | .15 | .28 | .35  | .42 | .57 | .71 | .86 | 1.00 | 1.29  | 1.56  |
|-------------------|-----|-----|------|-----|-----|-----|-----|------|-------|-------|
| Belt Width        | 1/4 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | 7/8 | 1    | 1-1/4 | 1-1/2 |
| Belt Width Code   | 025 | 037 | 043  | 050 | 062 | 075 | 087 | 100  | 125   | 150   |

### Teeth in Mesh Factor (T.I.M)

| Table Symbol | No. of Teeth in Mesh in Small Pulley | Factor |
|--------------|--------------------------------------|--------|
| None         | 6 or More                            | 1.00   |
| †            | 5                                    | .80    |
| ‡            | 4                                    | .60    |

Shaded area indicates stock belt widths

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets



# SELECTION

## XL Stock Drive Selections

| Driven Speeds for Motor Speeds of | Speed Ratio | Pulley Combination |             |              |             | HP for a 1 Wide Belt for Motor Speeds of Δ |       |       | Nominal C.D. Using DYNA-SYNC Belts |      |      |      |       |       |       |       |
|-----------------------------------|-------------|--------------------|-------------|--------------|-------------|--|-------|-------|------------------------------------|------|------|------|-------|-------|-------|-------|
|                                   |             | Driver             |             | Driven       |             | 3500                                       | 1750  | 1160  | 60XL                               | 70XL | 80XL | 90XL | 100XL | 110XL |       |       |
|                                   |             | No. of Teeth       | Pitch Diam. | No. of Teeth | Pitch Diam. |  |       |       |                                    |      |      |      |       |       |       |       |
| 3500                              | 1750        | 1160               |             |              |             |  |       |       |                                    |      |      |      |       |       |       |       |
| 1531                              | 766         | 508                | 2.29        | 21XL         | 1.337       | 48XL                                       | 3.056 | 1.49  | .75                                | .50  | ...  | ...  | ...   | ...   |       |       |
| 1531                              | 766         | 508                | 2.29        | 14XL         | .891        | 32XL                                       | 2.037 | 1.00  | .50                                | .33  | ...  | ...  | ...   | 2.12† | 2.63† | 3.14† |
| 1500                              | 750         | 498                | 2.33        | 18XL         | 1.146       | 42XL                                       | 2.674 | 1.28  | .64                                | .42  | ...  | ...  | ...   | ...   | ...   | 2.37† |
| 1500                              | 750         | 498                | 2.33        | 12XL         | .764        | 28XL                                       | 1.783 | .86   | .43                                | .28  | ...  | ...  | 1.93‡ | 2.44† | 2.95† | 3.46† |
| 1458                              | 729         | 483                | 2.40        | 30XL         | 1.910       | 72XL                                       | 4.584 | 2.11  | 1.07                               | .71  | ...  | ...  | ...   | ...   | ...   | ...   |
| 1458                              | 729         | 483                | 2.40        | 20XL         | 1.273       | 48XL                                       | 3.056 | 1.42  | .72                                | .46  | ...  | ...  | ...   | ...   | ...   | ...   |
| 1458                              | 729         | 483                | 2.40        | 15XL         | .955        | 36XL                                       | 2.292 | 1.07  | .53                                | .36  | ...  | ...  | ...   | ...   | 2.35† | 2.87† |
| 1432                              | 716         | 475                | 2.44        | 18XL         | 1.146       | 44XL                                       | 2.801 | 1.28  | .64                                | .42  | ...  | ...  | ...   | ...   | ...   | 2.24† |
| 1400                              | 700         | 464                | 2.50        | 24XL         | 1.528       | 60XL                                       | 3.820 | 1.71  | .86                                | .56  | ...  | ...  | ...   | ...   | ...   | ...   |
| 1400                              | 700         | 464                | 2.50        | 16XL         | 1.019       | 40XL                                       | 2.546 | 1.15  | .58                                | .38  | ...  | ...  | ...   | ...   | 2.05† | 2.58† |
| 1400                              | 700         | 464                | 2.50        | 12XL         | .764        | 30XL                                       | 1.910 | .86   | .43                                | .28  | ...  | ...  | 1.80‡ | 2.32‡ | ...   | 3.35† |
| 1375                              | 688         | 456                | 2.55        | 11XL         | .700        | 28XL                                       | 1.783 | .79 ◊ | .39                                | .26  | ...  | ...  | 1.97‡ | 2.49‡ | 2.84† | 3.50† |
| 1361                              | 681         | 451                | 2.57        | 28XL         | 1.783       | 72XL                                       | 4.584 | 1.98  | 1.00                               | .66  | ...  | ...  | ...   | 1.86‡ | 3.00‡ | 2.91† |
| 1361                              | 681         | 451                | 2.57        | 14XL         | .891        | 36XL                                       | 2.292 | 1.00  | .50                                | .33  | ...  | ...  | ...   | ...   | 2.39† | 2.45† |
| 1333                              | 666         | 442                | 2.63        | 16XL         | 1.019       | 42XL                                       | 2.674 | 1.15  | .58                                | .38  | ...  | ...  | ...   | ...   | ...   | ...   |
| 1312                              | 656         | 435                | 2.67        | 18XL         | 1.146       | 48XL                                       | 3.056 | 1.28  | .64                                | .42  | ...  | ...  | ...   | ...   | ...   | ...   |
| 1312                              | 656         | 435                | 2.67        | 15XL         | .955        | 40XL                                       | 2.546 | 1.07  | .53                                | .36  | ...  | ...  | ...   | ...   | 2.09† | 2.62† |
| 1312                              | 656         | 435                | 2.67        | 12XL         | .764        | 32XL                                       | 2.037 | .86   | .43                                | .28  | ...  | ...  | 1.67‡ | 2.20‡ | 2.72† | 3.23† |
| 1283                              | 642         | 425                | 2.73        | 22XL         | 1.401       | 60XL                                       | 3.820 | 1.57  | .79                                | .52  | ...  | ...  | ...   | ...   | ...   | ...   |
| 1283                              | 642         | 425                | 2.73        | 11XL         | .700        | 30XL                                       | 1.910 | .79 ◊ | .39                                | .26  | ...  | ...  | 1.85‡ | 2.37‡ | 2.88‡ | 3.39‡ |
| 1273                              | 638         | 422                | 2.75        | 16XL         | 1.019       | 44XL                                       | 2.801 | 1.15  | .58                                | .38  | ...  | ...  | ...   | ...   | ...   | 2.32† |
| 1250                              | 625         | 414                | 2.80        | 15XL         | .955        | 42XL                                       | 2.674 | 1.07  | .53                                | .36  | ...  | ...  | ...   | ...   | ...   | 2.50† |
| 1225                              | 613         | 406                | 2.86        | 21XL         | 1.337       | 60XL                                       | 3.820 | 1.49  | .75                                | .50  | ...  | ...  | ...   | ...   | ...   | ...   |
| 1225                              | 613         | 406                | 2.86        | 14XL         | .891        | 40XL                                       | 2.546 | 1.00  | .50                                | .33  | ...  | ...  | ...   | ...   | 2.13† | 2.67† |
| 1203                              | 601         | 399                | 2.91        | 11XL         | .700        | 32XL                                       | 2.037 | .79 ◊ | .39                                | .26  | ...  | ...  | 1.71§ | 2.25‡ | 2.78‡ | 3.28‡ |
| 1193                              | 597         | 396                | 2.93        | 15XL         | .955        | 44XL                                       | 2.801 | 1.07  | .53                                | .36  | ...  | ...  | ...   | ...   | ...   | 2.36† |
| 1167                              | 583         | 387                | 3.00        | 24XL         | 1.528       | 72XL                                       | 4.584 | 1.71  | .86                                | .56  | ...  | ...  | ...   | ...   | ...   | ...   |
| 1167                              | 583         | 387                | 3.00        | 20XL         | 1.273       | 60XL                                       | 3.820 | 1.42  | .72                                | .46  | ...  | ...  | ...   | ...   | ...   | ...   |
| 1167                              | 583         | 387                | 3.00        | 16XL         | 1.019       | 48XL                                       | 3.056 | 1.15  | .58                                | .38  | ...  | ...  | ...   | ...   | ...   | ...   |
| 1167                              | 583         | 387                | 3.00        | 14XL         | .891        | 42XL                                       | 2.874 | 1.00  | .50                                | .33  | ...  | ...  | ...   | ...   | 1.99‡ | 2.54† |
| 1167                              | 583         | 387                | 3.00        | 12XL         | .764        | 36XL                                       | 2.292 | .86   | .43                                | .28  | ...  | ...  | ...   | 1.94‡ | 2.48‡ | 3.00‡ |
| 1114                              | 557         | 370                | 3.14        | 14XL         | .891        | 44XL                                       | 2.801 | 1.00  | .50                                | .33  | ...  | ...  | ...   | ...   | ...   | 2.40‡ |
| 1094                              | 547         | 363                | 3.20        | 15XL         | .955        | 48XL                                       | 3.056 | 1.07  | .53                                | .36  | ...  | ...  | ...   | ...   | ...   | ...   |
| 1089                              | 535         | 355                | 3.27        | 22XL         | 1.401       | 72XL                                       | 4.584 | 1.57  | .79                                | .52  | ...  | ...  | ...   | ...   | ...   | ...   |
| 1089                              | 535         | 355                | 3.27        | 11XL         | .700        | 36XL                                       | 2.292 | .79 ◊ | .39                                | .26  | ...  | ...  | ...   | 1.98§ | 2.52‡ | 3.04‡ |
| 1050                              | 525         | 348                | 3.33        | 18XL         | 1.146       | 60XL                                       | 3.820 | 1.28  | .64                                | .42  | ...  | ...  | ...   | ...   | ...   | ...   |
| 1050                              | 525         | 348                | 3.33        | 12XL         | .764        | 40XL                                       | 2.546 | .86   | .43                                | .28  | ...  | ...  | ...   | ...   | 2.21‡ | 2.75‡ |
| 1021                              | 510         | 338                | 3.43        | 21XL         | 1.337       | 72XL                                       | 4.584 | 1.49  | .75                                | .50  | ...  | ...  | ...   | ...   | ...   | ...   |
| 1021                              | 510         | 338                | 3.43        | 14XL         | .891        | 48XL                                       | 3.056 | 1.00  | .50                                | .33  | ...  | ...  | ...   | ...   | ...   | ...   |
| 1000                              | 500         | 331                | 3.50        | 12XL         | .764        | 42XL                                       | 2.874 | .86   | .43                                | .28  | ...  | ...  | ...   | ...   | 2.07‡ | 2.82‡ |
| 972                               | 486         | 322                | 3.60        | 20XL         | 1.273       | 72XL                                       | 4.584 | 1.42  | .72                                | .46  | ...  | ...  | ...   | ...   | ...   | ...   |
| 963                               | 481         | 319                | 3.64        | 11XL         | .700        | 40XL                                       | 2.546 | .79 ◊ | .39                                | .26  | ...  | ...  | ...   | ...   | 2.25§ | 2.79‡ |
| 955                               | 477         | 316                | 3.67        | 12XL         | .784        | 44XL                                       | 2.801 | .86   | .43                                | .28  | ...  | ...  | ...   | ...   | ...   | 2.48‡ |
| 933                               | 467         | 309                | 3.75        | 16XL         | 1.019       | 60XL                                       | 3.820 | 1.15  | .58                                | .38  | ...  | ...  | ...   | ...   | ...   | ...   |
| 917                               | 458         | 304                | 3.82        | 11XL         | .700        | 42XL                                       | 2.674 | .79   | .39                                | .26  | ...  | ...  | ...   | ...   | 2.11§ | 2.66‡ |
| 875                               | 438         | 290                | 4.00        | 18XL         | 1.146       | 72XL                                       | 4.584 | 1.28  | .64                                | .42  | ...  | ...  | ...   | ...   | ...   | ...   |
| 875                               | 438         | 290                | 4.00        | 15XL         | .955        | 60XL                                       | 3.820 | 1.07  | .53                                | .36  | ...  | ...  | ...   | ...   | ...   | ...   |
| 875                               | 438         | 290                | 4.00        | 12XL         | .764        | 48XL                                       | 3.056 | .86   | .43                                | .28  | ...  | ...  | ...   | ...   | ...   | 2.19§ |
| 875                               | 438         | 290                | 4.00        | 11XL         | .700        | 44XL                                       | 2.801 | .79 ◊ | .39                                | .26  | ...  | ...  | ...   | ...   | 1.96§ | 2.52§ |
| 817                               | 408         | 270                | 4.29        | 14XL         | .891        | 60XL                                       | 3.820 | 1.00  | .50                                | .33  | ...  | ...  | ...   | ...   | ...   | ...   |
| 802                               | 401         | 266                | 4.36        | 11XL         | .700        | 48XL                                       | 3.056 | .79 ◊ | .39                                | .26  | ...  | ...  | ...   | ...   | ...   | 2.23§ |
| 778                               | 389         | 258                | 4.50        | 16XL         | 1.019       | 72XL                                       | 4.584 | 1.15  | .58                                | .38  | ...  | ...  | ...   | ...   | ...   | ...   |
| 730                               | 365         | 242                | 4.80        | 15XL         | .955        | 72XL                                       | 4.584 | 1.07  | .53                                | .36  | ...  | ...  | ...   | ...   | ...   | ...   |
| 700                               | 350         | 232                | 5.00        | 12XL         | .764        | 60XL                                       | 3.820 | .86   | .43                                | .28  | ...  | ...  | ...   | ...   | ...   | ...   |
| 681                               | 340         | 226                | 5.14        | 14XL         | .891        | 72XL                                       | 4.584 | 1.00  | .50                                | .33  | ...  | ...  | ...   | ...   | ...   | ...   |
| 642                               | 321         | 213                | 5.45        | 11XL         | .700        | 60XL                                       | 3.820 | .79 ◊ | .39                                | .26  | ...  | ...  | ...   | ...   | ...   | ...   |
| 584                               | 292         | 193                | 6.00        | 12XL         | .764        | 72XL                                       | 4.584 | .86   | .43                                | .28  | ...  | ...  | ...   | ...   | ...   | ...   |
| 535                               | 267         | 177                | 6.55        | 11XL         | .700        | 72XL                                       | 4.584 | .79 ◊ | .39                                | .26  | ...  | ...  | ...   | ...   | ...   | ...   |

Δ HP ratings are for conventional speed-reduction drives.

† ‡ § See Teeth in Mesh table on opposite page.

For Speed-Up Drives refer to page PT10-17.

♥ Flanges Required on both pulleys.

◊ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|







# SELECTION

## L Stock Drive Selections

|                             | Driven Speeds for Motor Speeds of |      |      | Speed Ratio | Pulley Combination |             |              |             | HP for a 1 Wide Belt for Motor Speeds of Δ |       |      | Nominal C.D. Using DYNA-SYNC Belts |       |       |       |       |        |
|-----------------------------|-----------------------------------|------|------|-------------|--------------------|-------------|--------------|-------------|--|-------|------|------------------------------------|-------|-------|-------|-------|--------|
|                             |                                   |      |      |             | Driver             |             | Driven       |             |  |       |      |                                    |       |       |       |       |        |
|                             | 3500                              | 1750 | 1160 |             | No. of Teeth       | Pitch Diam. | No. of Teeth | Pitch Diam. | 3500                                       | 1750  | 1160 | 124L                               | 150L  | 187L  | 210L  | 225L  | 240L   |
| FHP Drives                  | 3500                              | 1750 | 1160 | 1.00        | 48L                | 5.730       | 48L          | 5.730       | 6.27                                       | 4.06  | 2.81 | ....                               | ....  | ....  | ....  | ....  | ....   |
|                             | 3500                              | 1750 | 1160 | 1.00        | 40L                | 4.775       | 40L          | 4.775       | 5.87                                       | 3.47  | 2.36 | ....                               | ....  | ....  | ....  | ....  | ....   |
|                             | 3500                              | 1750 | 1160 | 1.00        | 32L                | 3.820       | 32L          | 3.820       | 5.10                                       | 2.83  | 1.91 | ....                               | ....  | ....  | 4.51  | 5.26  | 6.01   |
|                             | 3500                              | 1750 | 1160 | 1.00        | 30L                | 3.581       | 30L          | 3.581       | 4.86                                       | 2.66  | 1.79 | ....                               | ....  | ....  | 4.88  | 5.63  | 6.38   |
|                             | 3500                              | 1750 | 1160 | 1.00        | 28L                | 3.342       | 28L          | 3.342       | 4.71                                       | 2.49  | 1.67 | ....                               | ....  | 4.13  | 5.26  | 6.01  | 6.76   |
| Drive Component Accessories | 3500                              | 1750 | 1160 | 1.00        | 26L                | 3.104       | 26L          | 3.104       | 4.35                                       | 2.32  | 1.56 | ....                               | ....  | 4.51  | 5.83  | 6.38  | 7.13   |
|                             | 3500                              | 1750 | 1160 | 1.00        | 24L                | 2.865       | 24L          | 2.865       | 4.06                                       | 2.15  | 1.44 | ....                               | ....  | 4.88  | 6.01  | 6.76  | 7.51   |
|                             | 3500                              | 1750 | 1160 | 1.00        | 22L                | 2.626       | 22L          | 2.626       | 3.77                                       | 1.98  | 1.32 | ....                               | 3.38  | 5.26  | 6.39  | 7.13  | 7.89   |
|                             | 3500                              | 1750 | 1160 | 1.00        | 20L                | 2.387       | 20L          | 2.387       | 3.46                                       | 1.80  | 1.20 | ....                               | 3.76  | 5.63  | 6.76  | 7.51  | 8.26   |
|                             | 3500                              | 1750 | 1160 | 1.00        | 18L                | 2.149       | 18L          | 2.149       | 3.15                                       | 1.62  | 1.08 | 2.82                               | 4.13  | 6.01  | 7.14  | 7.89  | 8.64   |
| DYNA-SYNC                   | 3500                              | 1750 | 1160 | 1.00        | 16L                | 1.910       | 16L          | 1.910       | 2.83                                       | 1.45  | .97  | 3.20                               | 4.51  | 6.39  | 7.51  | 8.26  | 9.01   |
|                             | 3500                              | 1750 | 1160 | 1.00        | 14L                | 1.671       | 14L          | 1.671       | 2.49◇                                      | 1.27  | .85  | 3.57                               | 4.89  | 6.76  | 7.89  | 8.64  | 9.39   |
|                             | ....                              | 1750 | 1160 | 1.00        | 12L                | 1.432       | 12L          | 1.432       | ....                                       | 1.09◇ | .72  | 3.95                               | 5.26  | 7.14  | 8.26  | 9.01  | 9.76   |
|                             | ....                              | 1750 | 1160 | 1.00        | 10L                | 1.194       | 10L          | 1.194       | ....                                       | .91◇  | .60◇ | 4.32†                              | 5.64† | 7.51◇ | 8.64† | 9.39† | 10.14† |
|                             | 3281                              | 1641 | 1087 | 1.07        | 30L                | 3.581       | 32L          | 3.820       | 4.86                                       | 2.66  | 1.79 | ....                               | ....  | ....  | 4.69  | 5.44  | 6.19   |
|                             | 3267                              | 1633 | 1083 | 1.07        | 28L                | 3.342       | 30L          | 3.581       | 4.61                                       | 2.49  | 1.67 | ....                               | ....  | 3.94  | 5.07  | 5.82  | 6.57   |
|                             | 3250                              | 1625 | 1077 | 1.08        | 26L                | 3.104       | 28L          | 3.342       | 4.35                                       | 2.32  | 1.56 | ....                               | ....  | 4.32  | 5.44  | 6.19  | 6.95   |
|                             | 3231                              | 1615 | 1071 | 1.08        | 24L                | 2.865       | 26L          | 3.104       | 4.06                                       | 2.15  | 1.44 | ....                               | ....  | 4.69  | 5.82  | 6.57  | 7.32   |
|                             | 3208                              | 1604 | 1063 | 1.09        | 22L                | 2.626       | 24L          | 2.865       | 3.77                                       | 1.98  | 1.32 | ....                               | ....  | 5.07  | 6.20  | 6.95  | 7.70   |
|                             | 3182                              | 1591 | 1055 | 1.10        | 20L                | 2.387       | 22L          | 2.626       | 3.46                                       | 1.80  | 1.20 | ....                               | 3.57  | 5.45  | 6.57  | 7.32  | 8.07   |
| Synchronous Drives          | 3150                              | 1575 | 1044 | 1.11        | 18L                | 2.149       | 20L          | 2.387       | 3.15                                       | 1.62  | 1.08 | ....                               | 3.94  | 5.82  | 6.95  | 7.70  | 8.45   |
|                             | 3111                              | 1556 | 1031 | 1.13        | 16L                | 1.910       | 18L          | 2.149       | 2.83                                       | 1.45  | .97  | ....                               | 4.32  | 6.20  | 7.32  | 8.07  | 8.82   |
|                             | 3063                              | 1531 | 1015 | 1.14        | 28L                | 3.342       | 32L          | 3.820       | 4.61                                       | 2.49  | 1.67 | ....                               | ....  | ....  | 4.88  | 5.63  | 6.38   |
|                             | 3036                              | 1531 | 1015 | 1.14        | 14L                | 1.671       | 16L          | 1.910       | 2.49◇                                      | 1.27  | .85  | 3.38                               | 4.70  | 6.57  | 7.70  | 8.45  | 9.20   |
|                             | 3033                              | 1517 | 1005 | 1.15        | 26L                | 3.104       | 30L          | 3.581       | 4.35                                       | 2.32  | 1.56 | ....                               | ....  | 4.12  | 5.25  | 6.00  | 6.75   |
|                             | 3000                              | 1500 | 994  | 1.17        | 24L                | 2.865       | 28L          | 3.342       | 4.06                                       | 2.15  | 1.44 | ....                               | ....  | 4.50  | 5.63  | 6.38  | 7.13   |
|                             | ....                              | 1500 | 994  | 1.17        | 12L                | 1.432       | 14L          | 1.671       | ....                                       | 1.09◇ | .72  | 3.76†                              | 5.07† | 6.95† | 8.07† | 8.83† | 9.57◇  |
|                             | 2962                              | 1481 | 982  | 1.18        | 22L                | 2.626       | 26L          | 3.104       | 3.77                                       | 1.62  | 1.32 | ....                               | ....  | 4.88  | 6.00  | 6.76  | 7.51   |
|                             | 2917                              | 1458 | 967  | 1.20        | 40L                | 4.775       | 48L          | 5.730       | 5.87                                       | 3.47  | 2.36 | ....                               | ....  | ....  | ....  | ....  | ....   |
|                             | 2917                              | 1458 | 967  | 1.20        | 20L                | 2.387       | 24L          | 2.865       | 3.46                                       | 1.80  | 1.20 | ....                               | 3.37  | 5.25  | 6.38  | 7.13  | 7.88   |
| HT200/HTD                   | ....                              | 1458 | 967  | 1.20        | 10L                | 1.194       | 12L          | 1.432       | ....                                       | .91◇  | .60◇ | 4.13†                              | 5.45† | 7.32† | 8.45† | 9.20† | 9.95†  |
|                             | 2864                              | 1432 | 949  | 1.22        | 18L                | 2.149       | 22L          | 2.626       | 3.15                                       | 1.62  | 1.08 | ....                               | 3.75  | 5.63  | 6.76  | 7.51  | 8.26   |
|                             | 2844                              | 1422 | 943  | 1.23        | 26L                | 3.104       | 32L          | 3.820       | 4.35                                       | 2.32  | 1.56 | ....                               | ....  | ....  | 5.06  | 5.81  | 6.56   |
|                             | 2800                              | 1400 | 928  | 1.25        | 48L                | 5.730       | 60L          | 7.162       | 6.27                                       | 4.06  | 2.81 | ....                               | ....  | ....  | ....  | ....  | ....   |
|                             | 2800                              | 1400 | 928  | 1.25        | 32L                | 3.820       | 40L          | 4.775       | 5.10                                       | 2.83  | 1.91 | ....                               | ....  | ....  | ....  | ....  | 5.29   |
|                             | 2800                              | 1400 | 928  | 1.25        | 24L                | 2.865       | 30L          | 3.581       | 4.06                                       | 2.15  | 1.44 | ....                               | ....  | 4.31  | 5.43  | 6.19  | 6.94   |
|                             | 2800                              | 1400 | 928  | 1.25        | 16L                | 1.910       | 20L          | 2.387       | 2.83                                       | 1.45  | .97  | 2.81                               | 4.13  | 6.01  | 7.13  | 7.88  | 8.63   |
|                             | 2750                              | 1375 | 911  | 1.27        | 22L                | 2.626       | 28L          | 3.342       | 3.77                                       | 1.98  | 1.32 | ....                               | ....  | ....  | 5.81  | 6.56  | 7.31   |
|                             | 2722                              | 1361 | 902  | 1.29        | 14L                | 1.671       | 18L          | 2.149       | 2.49◇                                      | 1.27  | .85  | 3.19                               | 4.50  | 6.38  | 7.51  | 8.26  | 9.01   |
|                             | 2692                              | 1346 | 892  | 1.30        | 20L                | 2.387       | 26L          | 3.104       | 3.46                                       | 1.80  | 1.20 | ....                               | ....  | 5.06  | 6.19  | 6.94  | 7.69   |
| HT500                       | 2625                              | 1313 | 870  | 1.33        | 30L                | 3.581       | 40L          | 4.775       | 4.86                                       | 2.66  | 1.79 | ....                               | ....  | ....  | ....  | 4.66  | 5.41   |
|                             | 2625                              | 1313 | 870  | 1.33        | 24L                | 2.865       | 32L          | 3.820       | 4.06                                       | 2.15  | 1.44 | ....                               | ....  | 4.10  | 5.24  | 5.99  | 6.74   |
|                             | 2625                              | 1313 | 870  | 1.33        | 18L                | 2.149       | 24L          | 2.865       | 3.15                                       | 1.62  | 1.08 | 3.56†                              | 3.55  | 5.44  | 6.56  | 7.31  | 8.06   |
|                             | ....                              | 1313 | 870  | 1.33        | 12L                | 1.432       | 16L          | 1.910       | ....                                       | 1.09◇ | .72  | ....                               | 4.88† | 6.76† | 7.88† | 8.63† | 9.38†  |
|                             | 2567                              | 1283 | 851  | 1.36        | 22L                | 2.626       | 30L          | 3.581       | 3.77                                       | 1.98  | 1.32 | ....                               | ....  | 4.48  | 5.61  | 6.37  | 7.12   |
|                             | 2545                              | 1273 | 844  | 1.38        | 16L                | 1.910       | 22L          | 2.626       | 2.83                                       | 1.45  | .97  | 2.61                               | 3.93  | 5.81  | 6.94  | 7.69  | 8.44   |
|                             | 2500                              | 1250 | 829  | 1.40        | 20L                | 2.387       | 28L          | 3.342       | 3.46                                       | 1.80  | 1.20 | ....                               | ....  | 4.86  | 5.99  | 6.74  | 7.49   |
|                             | ....                              | 1250 | 829  | 1.40        | 10L                | 1.194       | 14L          | 1.671       | ....                                       | .91◇  | .60◇ | 3.94†                              | 5.26† | 7.13† | 8.26† | 9.01† | 9.76†  |
|                             | 2450                              | 1225 | 812  | 1.43        | 28L                | 3.342       | 40L          | 4.775       | 4.61                                       | 2.49  | 1.67 | ....                               | ....  | ....  | ....  | 4.83  | 5.59   |
|                             | 2450                              | 1225 | 812  | 1.43        | 14L                | 1.671       | 20L          | 2.387       | 2.49◇                                      | 1.27  | .85  | 2.99                               | 4.31  | 6.19  | 7.32  | 8.07  | 8.82   |

Δ HP ratings are for conventional speed-reduction drives.

† ‡ § See Teeth in Mesh table on opposite page.

For Speed-Up Drives refer to page PT10-17.

◇ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|



## L Stock Drive Selections

Nominal Center Distance Using DYNA-SYNC Belts

| 255L   | 270L   | 285L   | 300L   | 322L   | 345L   | 367L   | 390L   | 420L   | 450L   | 480L   | 510L   | 540L   | 600L   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ....   | ....   | ....   | ....   | 7.13   | 8.26   | 9.38   | 10.51  | 12.01  | 13.51  | 15.01  | 16.51  | 18.01  | 21.01  |
| 5.26   | 6.01   | 6.76   | 7.51   | 8.63   | 9.76   | 10.88  | 12.01  | 13.51  | 15.01  | 16.51  | 18.01  | 19.51  | 22.51  |
| 6.76   | 7.51   | 8.26   | 9.01   | 10.14  | 11.26  | 12.39  | 13.51  | 15.01  | 16.51  | 18.01  | 19.51  | 21.01  | 24.01  |
| 7.13   | 7.88   | 8.63   | 9.39   | 10.51  | 11.64  | 12.76  | 13.89  | 15.39  | 16.89  | 18.39  | 19.89  | 21.39  | 24.39  |
| 7.51   | 8.26   | 9.01   | 9.76   | 10.89  | 12.01  | 13.14  | 14.26  | 15.76  | 17.26  | 18.76  | 20.26  | 21.76  | 24.76  |
| 7.88   | 8.63   | 9.39   | 10.14  | 11.26  | 12.39  | 13.51  | 14.64  | 16.14  | 17.64  | 19.14  | 20.64  | 22.14  | 25.14  |
| 8.26   | 9.01   | 9.76   | 10.51  | 11.64  | 12.76  | 13.89  | 15.01  | 16.51  | 18.01  | 19.51  | 21.01  | 22.51  | 25.50  |
| 8.64   | 9.39   | 10.14  | 10.89  | 12.01  | 13.14  | 14.26  | 15.39  | 16.89  | 18.39  | 19.89  | 21.39  | 22.89  | 25.89  |
| 9.01   | 9.76   | 10.51  | 11.26  | 12.39  | 13.51  | 14.64  | 15.76  | 17.26  | 18.76  | 20.26  | 21.76  | 23.26  | 26.26  |
| 9.39   | 10.14  | 10.89  | 11.64  | 12.76  | 13.89  | 15.01  | 16.14  | 17.64  | 19.14  | 20.64  | 22.14  | 23.64  | 26.64  |
| 9.76   | 10.51  | 11.26  | 12.01  | 13.14  | 14.26  | 15.39  | 16.51  | 18.01  | 19.51  | 21.01  | 22.51  | 24.01  | 27.01  |
| 10.14  | 10.89  | 11.64  | 12.39  | 13.51  | 14.64  | 15.76  | 16.89  | 19.89  | 19.89  | 21.39  | 22.89  | 24.39  | 27.39  |
| 10.51  | 11.26  | 12.01  | 12.76  | 13.89  | 15.01  | 16.14  | 17.26  | 18.40  | 20.26  | 21.76  | 23.26  | 24.76  | 27.76  |
| 10.89† | 11.64† | 12.39† | 13.14† | 14.26† | 15.39† | 16.51† | 17.64† | 19.14† | 20.64† | 22.14† | 23.64† | 25.14† | 28.14† |
| 6.94   | 7.69   | 8.45   | 9.20   | 10.32  | 11.47  | 12.57  | 13.70  | 15.20  | 16.70  | 18.20  | 19.70  | 21.20  | 24.20  |
| 7.32   | 8.07   | 8.82   | 9.57   | 10.70  | 11.82  | 12.95  | 14.07  | 15.57  | 17.07  | 18.57  | 20.07  | 21.57  | 24.57  |
| 7.70   | 8.45   | 9.20   | 9.95   | 11.07  | 12.20  | 13.32  | 14.45  | 15.95  | 17.45  | 18.95  | 20.45  | 21.95  | 24.95  |
| 8.07   | 8.82   | 9.57   | 10.32  | 11.45  | 12.57  | 13.70  | 14.82  | 16.33  | 17.82  | 19.32  | 20.82  | 22.33  | 25.33  |
| 8.45   | 9.20   | 9.95   | 10.70  | 11.82  | 12.95  | 14.07  | 15.20  | 16.70  | 18.20  | 19.70  | 21.20  | 22.70  | 25.70  |
| 8.82   | 9.57   | 10.32  | 11.07  | 12.20  | 13.33  | 14.45  | 15.58  | 17.07  | 18.57  | 20.08  | 21.58  | 23.08  | 26.08  |
| 9.20   | 9.95   | 10.70  | 11.45  | 12.57  | 13.70  | 14.82  | 15.95  | 17.45  | 18.95  | 20.45  | 21.95  | 23.45  | 26.45  |
| 9.57   | 10.32  | 11.07  | 11.83  | 12.95  | 14.07  | 15.20  | 16.33  | 17.83  | 19.32  | 20.82  | 22.33  | 23.83  | 26.83  |
| 7.13   | 7.88   | 8.63   | 9.38   | 10.51  | 11.63  | 12.76  | 13.88  | 15.38  | 16.89  | 18.39  | 19.89  | 21.39  | 24.39  |
| 9.95   | 10.70  | 11.45  | 12.20  | 13.33  | 14.45  | 15.58  | 16.70  | 18.20  | 19.70  | 21.20  | 22.70  | 24.20  | 27.20  |
| 7.51   | 8.26   | 9.01   | 9.76   | 10.88  | 12.01  | 13.14  | 14.26  | 15.76  | 17.26  | 18.76  | 20.26  | 21.76  | 24.76  |
| 7.88   | 8.63   | 9.38   | 10.13  | 11.26  | 12.38  | 13.51  | 14.64  | 16.13  | 17.64  | 19.13  | 20.64  | 22.14  | 25.14  |
| 10.32† | 11.07† | 11.83† | 12.58† | 13.70† | 14.83† | 15.95† | 17.08† | 18.57† | 20.08† | 21.58† | 23.08† | 24.58† | 27.58  |
| 8.26   | 9.01   | 9.76   | 10.51  | 11.63  | 12.76  | 13.88  | 15.01  | 16.51  | 18.01  | 19.51  | 21.01  | 22.51  | 25.51  |
| ....   | ....   | 5.99   | 6.74   | 7.87   | 9.00   | 10.12  | 11.25  | 12.75  | 14.25  | 15.75  | 17.25  | 18.76  | 21.76  |
| 8.63   | 9.38   | 10.13  | 10.88  | 12.01  | 13.13  | 14.26  | 15.38  | 16.89  | 18.39  | 19.89  | 21.39  | 22.89  | 25.89  |
| 10.70† | 11.45† | 12.20† | 12.95† | 14.08† | 15.20† | 16.33† | 17.45† | 18.95† | 20.45† | 21.95† | 23.45† | 24.95† | 27.95† |
| 9.01   | 9.76   | 10.51  | 11.26  | 12.39  | 13.51  | 14.64  | 15.76  | 17.26  | 18.76  | 20.26  | 21.76  | 23.36  | 26.26  |
| 7.31   | 8.06   | 8.81   | 9.57   | 10.69  | 11.82  | 12.94  | 14.11  | 15.57  | 17.07  | 18.57  | 20.07  | 21.57  | 24.57  |
| ....   | ....   | ....   | ....   | ....   | 7.45   | 8.58   | 9.36   | 10.86  | 12.36  | 13.87  | 15.37  | 16.87  | 19.87  |
| 5.99   | 6.74   | 7.49   | 8.25   | 9.37   | 10.50  | 11.62  | 12.75  | 14.25  | 15.75  | 17.26  | 18.76  | 20.26  | 23.26  |
| 7.69   | 8.44   | 9.19   | 9.04   | 11.07  | 12.19  | 13.32  | 14.44  | 15.94  | 17.45  | 18.95  | 20.45  | 21.95  | 24.95  |
| 9.38   | 10.13  | 10.88  | 11.64  | 12.76  | 13.89  | 15.01  | 16.13  | 17.64  | 19.14  | 20.64  | 22.14  | 23.64  | 26.64  |
| 8.06   | 8.81   | 9.57   | 10.32  | 11.44  | 12.57  | 13.69  | 14.82  | 16.32  | 17.82  | 19.32  | 20.82  | 22.32  | 25.32  |
| 9.76   | 10.51  | 11.26  | 12.01  | 13.14  | 14.26  | 15.39  | 16.51  | 18.01  | 19.51  | 21.01  | 22.51  | 24.01  | 27.01  |
| 8.44   | 9.19   | 9.94   | 10.69  | 11.82  | 12.94  | 14.11  | 15.20  | 16.70  | 18.20  | 19.70  | 21.20  | 22.70  | 25.70  |
| 6.17   | 6.92   | 7.67   | 8.43   | 9.55   | 10.68  | 11.81  | 12.93  | 14.44  | 15.94  | 17.44  | 18.94  | 20.44  | 23.44  |
| 7.49   | 8.25   | 9.00   | 9.75   | 10.88  | 12.00  | 13.13  | 14.25  | 15.75  | 17.26  | 18.76  | 20.26  | 21.76  | 24.76  |
| 8.82   | 9.57   | 10.32  | 11.07  | 12.19  | 13.32  | 14.45  | 15.57  | 17.07  | 18.57  | 20.07  | 21.57  | 23.07  | 26.07  |
| 10.13† | 10.88† | 11.64† | 12.39† | 13.51† | 14.64† | 15.76† | 16.89† | 18.39† | 19.89† | 21.39† | 22.89† | 24.39† | 27.39† |
| 7.87   | 8.62   | 9.37   | 10.13  | 11.25  | 12.38  | 13.50  | 14.63  | 16.13  | 17.63  | 19.13  | 20.63  | 22.13  | 25.13  |
| 9.19   | 9.94   | 10.69  | 11.44  | 12.57  | 13.70  | 14.82  | 15.95  | 17.45  | 18.95  | 20.45  | 21.95  | 23.45  | 26.45  |
| 8.25   | 9.00   | 9.75   | 10.50  | 11.63  | 12.75  | 13.88  | 15.00  | 16.51  | 18.01  | 19.51  | 21.01  | 22.51  | 25.51  |
| 10.51† | 11.26† | 12.01† | 12.76† | 13.89† | 15.01† | 16.14† | 17.26† | 18.76† | 20.26† | 21.77† | 23.36† | 24.76† | 27.76† |
| 6.34   | 7.10   | 7.85   | 8.60   | 9.73   | 10.86  | 11.99  | 13.12  | 14.62  | 16.12  | 17.62  | 19.12  | 20.63  | 23.63  |
| 9.57   | 10.32  | 11.07  | 11.82  | 12.95  | 14.11  | 15.20  | 16.32  | 17.82  | 19.32  | 20.82  | 22.32  | 23.82  | 26.82  |

### L Belt Width Table

|                   |     |      |     |     |     |     |      |       |       |       |      |       |      |
|-------------------|-----|------|-----|-----|-----|-----|------|-------|-------|-------|------|-------|------|
| Belt Width Factor | .28 | .35  | .45 | .57 | .71 | .86 | 1.00 | 1.29  | 1.56  | 1.84  | 2.14 | 2.72  | 3.36 |
| Belt Width        | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | 7/8 | 1    | 1-1/4 | 1-1/2 | 1-3/4 | 2    | 2-1/2 | 3    |
| Belt Width Code   | 037 | 043  | 050 | 062 | 075 | 087 | 100  | 125   | 150   | 175   | 200  | 250   | 300  |

### Teeth in Mesh Factor (T.I.M)

| Table Symbol | No. of Teeth In Mesh In Small Pulley | Factor |
|--------------|--------------------------------------|--------|
| None         | 6 or More                            | 1.00   |
| †            | 5                                    | .80    |

| Table Symbol | No. of Teeth In Mesh In Small Pulley | Factor |
|--------------|--------------------------------------|--------|
| ‡            | 4                                    | .60    |

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|



# SELECTION

## L Stock Drive Selections

|                              | Driven Speeds for Motor Speeds of |      |      | Speed Ratio | Pulley Combination |             |              |             | HP for a 1 Wide Belt for Motor Speeds of Δ |       |      | Nominal C.D. Using DYNA-SYNC Belts |       |       |       |       |       |
|------------------------------|-----------------------------------|------|------|-------------|--------------------|-------------|--------------|-------------|--|-------|------|------------------------------------|-------|-------|-------|-------|-------|
|                              |                                   |      |      |             | Driver             |             | Driven       |             |  |       |      |                                    |       |       |       |       |       |
|                              | 3500                              | 1750 | 1160 |             | No. of Teeth       | Pitch Diam. | No. of Teeth | Pitch Diam. | 3500                                       | 1750  | 1160 | 124L                               | 150L  | 187L  | 210L  | 225L  | 240L  |
| FHP Drives                   | 2423                              | 1212 | 803  | 1.44        | 18L                | 2.149       | 26L          | 3.104       | 3.15                                       | 1.62  | 1.08 | ....                               | ....  | 5.24  | 6.37  | 7.12  | 7.87  |
|                              | 2406                              | 1203 | 798  | 1.45        | 22L                | 2.626       | 32L          | 3.820       | 3.77                                       | 1.98  | 1.32 | ....                               | ....  | 4.28  | 5.41  | 6.17  | 6.92  |
|                              | 2333                              | 1167 | 733  | 1.50        | 48L                | 5.730       | 72L          | 8.594       | 6.27                                       | 4.06  | 2.81 | ....                               | ....  | ....  | ....  | ....  | ....  |
|                              | 2333                              | 1167 | 733  | 1.50        | 40L                | 4.775       | 60L          | 7.162       | 5.87                                       | 3.47  | 2.36 | ....                               | ....  | ....  | ....  | ....  | ....  |
|                              | 2333                              | 1167 | 733  | 1.50        | 32L                | 3.820       | 48L          | 5.730       | 5.10                                       | 2.83  | 1.91 | ....                               | ....  | ....  | ....  | ....  | ....  |
|                              | 2333                              | 1167 | 733  | 1.50        | 20L                | 2.387       | 30L          | 3.581       | 3.46                                       | 1.80  | 1.20 | ....                               | ....  | 4.66  | 5.79  | 6.54  | 7.30  |
|                              | 2333                              | 1167 | 733  | 1.50        | 16L                | 1.910       | 24L          | 2.865       | 2.83                                       | 1.45  | .97  | ....                               | 3.73  | 5.61  | 6.74  | 7.50  | 8.25  |
|                              | ....                              | 1167 | 733  | 1.50        | 12L                | 1.432       | 18L          | 2.149       | ....                                       | 1.09◇ | .72  | 3.36†                              | 4.68† | 6.56† | 7.69† | 8.44† | 9.19† |
|                              | 2275                              | 1138 | 754  | 1.54        | 26L                | 3.104       | 40L          | 4.775       | 4.35                                       | 2.32  | 1.56 | ....                               | ....  | ....  | 4.24  | 5.00  | 5.76  |
|                              | 2250                              | 1125 | 746  | 1.56        | 18L                | 2.149       | 28L          | 3.342       | 3.15                                       | 1.62  | 1.08 | ....                               | ....  | 5.04  | 6.07  | 6.92  | 7.67  |
| Drive Component Accessories  | 2227                              | 1114 | 738  | 1.57        | 14L                | 1.671       | 22L          | 2.626       | 2.49◇                                      | 1.27  | .85  | 2.78                               | 4.11  | 5.99  | 7.12  | 7.87  | 8.62  |
|                              | 2188                              | 1094 | 725  | 1.60        | 30L                | 3.581       | 48L          | 5.730       | 4.86                                       | 2.66  | 1.79 | ....                               | ....  | ....  | ....  | ....  | ....  |
|                              | 2188                              | 1094 | 725  | 1.60        | 20L                | 2.387       | 32L          | 3.820       | 3.46                                       | 1.80  | 1.20 | ....                               | ....  | 4.45  | 5.59  | 6.34  | 7.10  |
|                              | ....                              | 1094 | 725  | 1.60        | 10L                | 1.194       | 16L          | 1.910       | ....                                       | .91◇  | .60◇ | 3.74†                              | 5.06† | 6.94† | 8.07† | 8.82† | 9.57† |
|                              | 2154                              | 1077 | 714  | 1.63        | 16L                | 1.910       | 26L          | 3.104       | 2.83                                       | 1.45  | .97  | ....                               | 3.52  | 5.41  | 6.55  | 7.30  | 8.05  |
|                              | 2100                              | 1050 | 696  | 1.67        | 24L                | 2.865       | 40L          | 4.775       | 4.06                                       | 2.15  | 1.44 | ....                               | ....  | ....  | 4.40  | 5.17  | 5.93  |
|                              | 2100                              | 1050 | 696  | 1.67        | 18L                | 2.149       | 30L          | 3.581       | 3.15                                       | 1.62  | 1.08 | ....                               | 2.92  | 4.83  | 5.97  | 6.72  | 7.48  |
|                              | ....                              | 1050 | 696  | 1.67        | 12L                | 1.432       | 20L          | 2.387       | ....                                       | 1.09◇ | .72  | 3.16†                              | 4.48† | 6.37† | 7.50† | 8.25† | 9.00† |
|                              | 2042                              | 1021 | 677  | 1.71        | 28L                | 3.342       | 48L          | 5.730       | 4.61                                       | 2.49  | 1.67 | ....                               | ....  | ....  | ....  | ....  | 4.73  |
|                              | 2042                              | 1021 | 677  | 1.71        | 14L                | 1.671       | 24L          | 2.865       | 2.49◇                                      | 1.27  | .85  | ....                               | 3.90  | 5.79  | 6.92  | 7.67  | 8.43  |
| DYNA-SYNC                    | 2000                              | 1000 | 663  | 1.75        | 48L                | 5.730       | 84L          | 10.027      | 6.27                                       | 4.06  | 2.81 | ....                               | ....  | ....  | ....  | ....  | ....  |
|                              | 2000                              | 1000 | 663  | 1.75        | 16L                | 1.910       | 28L          | 3.342       | 2.83                                       | 1.45  | .97  | ....                               | ....  | 5.21  | 6.34  | 7.10  | 7.85  |
|                              | 1969                              | 985  | 652  | 1.78        | 18L                | 2.149       | 32L          | 3.820       | 3.15                                       | 1.62  | 1.08 | ....                               | ....  | 4.62  | 5.76  | 6.52  | 7.27  |
|                              | 1944                              | 972  | 644  | 1.80        | 40L                | 4.775       | 72L          | 8.594       | 5.87                                       | 3.47  | 2.36 | ....                               | ....  | ....  | ....  | ....  | ....  |
|                              | ....                              | 972  | 644  | 1.80        | 10L                | 1.194       | 18L          | 2.149       | ....                                       | .91◇  | .60◇ | 3.54†                              | 4.86† | 6.74† | 7.87† | 8.62† | 9.38† |
|                              | 1925                              | 963  | 638  | 1.82        | 22L                | 2.626       | 40L          | 4.775       | 3.77                                       | 1.98  | 1.32 | ....                               | ....  | ....  | 4.57  | 5.34  | 6.10  |
|                              | ....                              | 955  | 633  | 1.83        | 12L                | 1.432       | 22L          | 2.626       | ....                                       | 1.09◇ | .72  | 2.95†                              | 4.28† | 6.17† | 7.50† | 8.05† | 8.80† |
|                              | 1896                              | 948  | 628  | 1.85        | 26L                | 3.104       | 48L          | 5.730       | 4.35                                       | 2.32  | 1.56 | ....                               | ....  | ....  | ....  | ....  | 4.89  |
|                              | 1885                              | 942  | 625  | 1.86        | 14L                | 1.671       | 26L          | 3.104       | 2.49◇                                      | 1.27  | .85  | ....                               | 3.69  | 5.59  | 6.72  | 7.48  | 8.23  |
|                              | 1867                              | 933  | 619  | 1.88        | 32L                | 3.820       | 60L          | 7.162       | 5.10                                       | 2.83  | 1.91 | ....                               | ....  | ....  | ....  | ....  | ....  |
|                              | 1867                              | 933  | 619  | 1.88        | 16L                | 1.910       | 30L          | 3.581       | 2.83                                       | 1.45  | .97  | ....                               | ....  | 5.00  | 6.14  | 6.90  | 7.65  |
| HT200/HTD Synchronous Drives | 1750                              | 875  | 580  | 2.00        | 30L                | 3.581       | 60L          | 7.162       | 4.86                                       | 2.66  | 1.79 | ....                               | ....  | ....  | ....  | ....  | ....  |
|                              | 1750                              | 875  | 580  | 2.00        | 24L                | 2.865       | 48L          | 5.730       | 4.06                                       | 2.15  | 1.44 | ....                               | ....  | ....  | ....  | ....  | 5.05  |
|                              | 1750                              | 875  | 580  | 2.00        | 20L                | 2.387       | 40L          | 4.775       | 3.46                                       | 1.80  | 1.20 | ....                               | ....  | ....  | 4.73  | 5.50  | 6.27  |
|                              | 1750                              | 875  | 580  | 2.00        | 16L                | 1.910       | 32L          | 3.820       | 2.83                                       | 1.45  | .97  | ....                               | ....  | 4.79  | 5.93  | 6.69  | 7.45  |
|                              | 1750                              | 875  | 580  | 2.00        | 14L                | 1.671       | 28L          | 3.342       | 2.49                                       | 1.27  | .85  | ....                               | 3.47  | 5.38  | 6.52  | 7.27  | 8.03  |
|                              | ....                              | 875  | 580  | 2.00        | 12L                | 1.432       | 24L          | 2.865       | ....                                       | 1.09◇ | .72  | 2.72†                              | 4.07† | 5.97† | 7.10† | 7.85† | 8.61† |
|                              | ....                              | 875  | 580  | 2.00        | 10L                | 1.194       | 20L          | 2.387       | ....                                       | .91◇  | .60◇ | 3.33†                              | 4.66† | 6.55† | 7.68† | 8.43† | 9.18† |
|                              | 1667                              | 833  | 552  | 2.10        | 40L                | 4.775       | 84L          | 10.027      | 5.87                                       | 3.47  | 2.36 | ....                               | ....  | ....  | ....  | ....  | ....  |
|                              | 1633                              | 817  | 541  | 2.14        | 28L                | 3.342       | 60L          | 7.162       | 4.61                                       | 2.49  | 1.67 | ....                               | ....  | ....  | ....  | ....  | ....  |
|                              | 1633                              | 817  | 541  | 2.14        | 14L                | 1.671       | 30L          | 3.581       | 2.49◇                                      | 1.27  | .85  | ....                               | 3.24† | 5.17  | 6.31  | 7.07  | 7.83  |
|                              | ....                              | 808  | 535  | 2.17        | 12L                | 1.432       | 26L          | 3.104       | ....                                       | 1.09◇ | .72  | ....                               | 3.85† | 5.76† | 6.90† | 7.65† | 8.41† |
| HT500 Synchronous Drives     | 1604                              | 802  | 532  | 2.18        | 22L                | 2.626       | 48L          | 5.730       | 3.77                                       | 1.98  | 1.32 | ....                               | ....  | ....  | ....  | ....  | 5.21  |
|                              | ....                              | 795  | 527  | 2.20        | 10L                | 1.194       | 22L          | 2.626       | ....                                       | .91◇  | .60◇ | 3.11†                              | 4.45† | 6.35† | 7.48† | 8.23† | 8.98† |
|                              | 1575                              | 788  | 522  | 2.22        | 18L                | 2.149       | 40L          | 4.775       | 3.15                                       | 1.62  | 1.08 | ....                               | ....  | ....  | 4.89  | 5.67  | 6.44  |
|                              | 1556                              | 778  | 516  | 2.25        | 32L                | 3.820       | 72L          | 8.594       | 5.10                                       | 2.83  | 1.91 | ....                               | ....  | ....  | ....  | ....  | ....  |
|                              | 1531                              | 766  | 507  | 2.29        | 14L                | 1.671       | 32L          | 3.820       | 2.49◇                                      | 1.27  | .85  | ....                               | ....  | 4.95† | 6.10  | 6.86  | 7.62  |
|                              | 1517                              | 758  | 503  | 2.31        | 26L                | 3.104       | 60L          | 7.162       | 4.35                                       | 2.32  | 1.56 | ....                               | ....  | ....  | ....  | ....  | ....  |

Δ HP ratings are for conventional speed-reduction drives.

† ‡ See Teeth in Mesh table on opposite page.

For Speed-Up Drives refer to page PT10-17.

◇ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|



# L Stock Drive Selections

Nominal Center Distance Using DYNA-SYNC Belts

| 255L   | 270L   | 285L   | 300L   | 322L   | 345L   | 367L   | 390L   | 420L   | 450L   | 480L   | 510L   | 540L   | 600L   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 8.62   | 9.37   | 10.13  | 10.88  | 12.00  | 13.13  | 14.25  | 15.38  | 16.88  | 18.38  | 19.88  | 21.38  | 22.88  | 25.88  |
| 7.67   | 8.43   | 9.18   | 9.93   | 11.06  | 12.18  | 13.31  | 14.44  | 15.94  | 17.44  | 18.94  | 20.44  | 21.94  | 24.94  |
| ....   | ....   | ....   | ....   | ....   | ....   | ....   | 8.13   | 9.65   | 11.17  | 12.68  | 14.19  | 15.69  | 18.70  |
| ....   | ....   | ....   | ....   | 6.65   | 7.79   | 8.93   | 10.06  | 11.57  | 13.08  | 14.59  | 16.09  | 17.60  | 20.60  |
| 5.17   | 5.93   | 6.69   | 7.45   | 8.58   | 9.71   | 10.84  | 11.97  | 13.48  | 14.98  | 16.48  | 17.99  | 19.49  | 22.49  |
| 8.05   | 8.80   | 9.55   | 10.31  | 11.43  | 12.56  | 13.69  | 14.81  | 16.31  | 17.81  | 19.32  | 20.82  | 22.32  | 25.32  |
| 9.00   | 9.75   | 10.50  | 11.24  | 12.38  | 13.50  | 14.63  | 15.76  | 17.26  | 18.76  | 20.26  | 21.76  | 23.26  | 26.26  |
| 9.94†  | 10.69† | 11.44† | 12.20† | 13.32† | 14.45† | 15.57† | 16.70† | 18.20† | 19.70† | 21.20† | 22.70† | 24.20† | 27.20† |
| 6.52   | 7.27   | 8.03   | 8.78   | 9.91   | 11.04  | 12.17  | 13.30  | 14.80  | 16.30  | 17.80  | 19.31  | 20.81  | 23.81  |
| 8.43   | 9.18   | 9.93   | 10.68  | 11.81  | 12.94  | 14.06  | 15.19  | 16.69  | 18.19  | 19.69  | 21.19  | 22.69  | 25.69  |
| 9.37   | 10.13  | 10.88  | 11.63  | 12.75  | 13.88  | 15.00  | 16.13  | 17.63  | 19.13  | 20.63  | 22.13  | 23.63  | 26.63  |
| 5.34   | 6.10   | 6.86   | 7.62   | 8.75   | 9.89   | 11.02  | 12.15  | 13.66  | 15.16  | 16.66  | 18.17  | 19.67  | 22.67  |
| 7.85   | 8.60   | 9.36   | 10.11  | 11.24  | 12.37  | 13.49  | 14.62  | 16.12  | 17.62  | 19.12  | 20.63  | 22.13  | 25.13  |
| 10.32‡ | 11.07‡ | 11.82‡ | 12.57‡ | 13.70‡ | 14.82‡ | 15.95‡ | 17.07‡ | 18.57‡ | 20.07‡ | 21.57‡ | 23.07‡ | 24.57‡ | 27.57‡ |
| 8.80   | 9.55   | 10.31  | 11.06  | 12.19  | 13.31  | 14.44  | 15.56  | 17.06  | 18.56  | 20.07  | 21.57  | 23.07  | 26.07  |
| 6.69   | 7.45   | 8.20   | 8.96   | 10.09  | 11.22  | 12.35  | 13.48  | 14.98  | 16.48  | 17.99  | 19.49  | 20.99  | 23.99  |
| 8.23   | 8.98   | 9.73   | 10.49  | 11.61  | 12.74  | 13.87  | 14.99  | 16.50  | 18.00  | 19.50  | 21.00  | 22.50  | 25.50  |
| 9.75†  | 10.50† | 11.25† | 12.00† | 13.13† | 14.25† | 15.38† | 16.51† | 18.01† | 19.51† | 21.01† | 22.51† | 24.01† | 27.01† |
| 5.50   | 6.27   | 7.03   | 7.79   | 8.93   | 10.06  | 11.20  | 12.33  | 13.83  | 15.34  | 16.84  | 18.35  | 19.85  | 22.86  |
| 9.18   | 9.93   | 10.68  | 11.43  | 12.56  | 13.69  | 14.81  | 15.94  | 17.44  | 18.94  | 20.44  | 21.94  | 23.44  | 26.44  |
| ....   | ....   | ....   | ....   | ....   | ....   | ....   | 8.35   | 9.90   | 11.43  | 12.96  | 14.47  | 16.00  | 17.50  |
| 8.61   | 9.36   | 10.11  | 10.86  | 11.99  | 13.12  | 14.24  | 15.37  | 16.87  | 18.37  | 19.88  | 21.38  | 22.88  | 25.88  |
| 8.03   | 8.78   | 9.53   | 10.29  | 11.42  | 12.55  | 13.67  | 14.80  | 16.30  | 17.80  | 19.31  | 20.81  | 22.31  | 25.31  |
| ....   | ....   | ....   | ....   | ....   | ....   | 7.64   | 8.80   | 10.33  | 11.85  | 13.37  | 14.89  | 16.40  | 19.42  |
| 10.13‡ | 10.88‡ | 11.63‡ | 12.38‡ | 13.51‡ | 14.63‡ | 15.76‡ | 16.88‡ | 18.38‡ | 19.88‡ | 21.38‡ | 22.88‡ | 24.38‡ | 27.39‡ |
| 6.86   | 7.62   | 8.38   | 9.13   | 10.27  | 11.40  | 12.53  | 13.66  | 15.16  | 16.66  | 18.17  | 19.67  | 21.17  | 24.18  |
| 9.56†  | 10.13† | 11.06† | 11.81† | 12.94† | 14.06† | 15.19† | 16.32† | 17.82† | 19.32† | 20.82† | 22.32† | 23.82† | 26.82† |
| 5.67   | 6.43   | 7.20   | 7.96   | 9.10   | 10.24  | 11.37  | 12.50  | 14.01  | 15.52  | 17.02  | 18.53  | 20.03  | 23.04  |
| 8.98   | 9.73   | 10.49  | 11.24  | 12.37  | 13.49  | 14.62  | 15.75  | 17.25  | 18.75  | 20.25  | 21.75  | 23.25  | 26.25  |
| ....   | ....   | ....   | 6.15   | 7.32   | 8.47   | 9.61   | 10.75  | 12.27  | 13.78  | 15.29  | 16.80  | 18.31  | 21.32  |
| 8.41   | 9.16   | 9.91   | 10.67  | 11.80  | 12.92  | 14.05  | 15.18  | 16.68  | 18.18  | 19.68  | 21.18  | 22.68  | 25.69  |
| ....   | ....   | ....   | 6.31   | 7.48   | 8.63   | 9.78   | 10.92  | 12.44  | 13.96  | 15.47  | 16.98  | 18.49  | 21.50  |
| 5.83   | 6.60   | 7.37   | 8.13   | 9.27   | 10.41  | 11.55  | 12.68  | 14.19  | 15.70  | 17.20  | 18.71  | 20.21  | 23.22  |
| 7.03   | 7.79   | 8.55   | 9.31   | 10.44  | 11.57  | 12.70  | 13.83  | 15.34  | 16.84  | 18.35  | 19.85  | 21.35  | 24.36  |
| 8.20   | 8.96   | 9.71   | 10.47  | 11.60  | 12.73  | 13.85  | 14.98  | 16.48  | 17.99  | 19.49  | 20.99  | 22.49  | 25.50  |
| 8.78   | 9.54   | 10.29  | 11.04  | 12.17  | 13.30  | 14.43  | 15.55  | 17.05  | 18.56  | 20.06  | 21.56  | 23.06  | 26.06  |
| 9.36†  | 10.11† | 10.86† | 11.62† | 12.74† | 13.87† | 15.00† | 16.12† | 17.62† | 19.13† | 20.63† | 22.13† | 23.62† | 26.63† |
| 9.93‡  | 10.68‡ | 11.43‡ | 12.19‡ | 13.31‡ | 14.44‡ | 15.56‡ | 16.69‡ | 18.19‡ | 19.69‡ | 21.19‡ | 22.69‡ | 24.19‡ | 27.20‡ |
| ....   | ....   | ....   | ....   | ....   | ....   | ....   | 9.00   | 10.55  | 12.10  | 13.63  | 15.16  | 16.69  | 19.70  |
| ....   | ....   | 5.68   | 6.47   | 7.64   | 8.80   | 9.95   | 11.69  | 12.61  | 14.13  | 15.64  | 17.15  | 18.66  | 21.68  |
| 8.58   | 9.34   | 10.09  | 10.85  | 11.97  | 13.10  | 14.23  | 15.36  | 16.86  | 18.36  | 19.86  | 21.37  | 22.87  | 25.87  |
| 9.16†  | 9.91†  | 10.67† | 11.42† | 12.55† | 13.67† | 14.80† | 15.93† | 17.43† | 18.93† | 20.43† | 21.94† | 23.44† | 26.44† |
| 5.99   | 6.77   | 7.54   | 8.30   | 9.44   | 10.58  | 11.72  | 12.85  | 14.36  | 15.87  | 17.38  | 18.89  | 20.39  | 23.40  |
| 9.74‡  | 10.49‡ | 11.24‡ | 11.99‡ | 13.12‡ | 14.24‡ | 15.37‡ | 16.50‡ | 18.00‡ | 19.50‡ | 21.00‡ | 22.50‡ | 24.00‡ | 27.01‡ |
| 7.20   | 7.96   | 8.72   | 9.48   | 10.62  | 11.75  | 12.88  | 14.01  | 15.52  | 17.02  | 18.53  | 20.03  | 21.53  | 24.54  |
| ....   | ....   | ....   | ....   | ....   | 7.10   | 8.29   | 9.45   | 11.00  | 12.53  | 14.06  | 15.58  | 17.09  | 20.12  |
| 8.38   | 9.13   | 9.89   | 10.64  | 11.77  | 12.90  | 14.03  | 15.16  | 16.67  | 18.17  | 19.67  | 21.17  | 22.68  | 25.68  |
| ....   | ....   | 5.84   | 6.63   | 7.80   | 8.97   | 10.12  | 11.26  | 12.79  | 14.30  | 15.82  | 17.33  | 18.84  | 21.85  |

**L Belt Width Table**

| Belt Width Factor | .28 | .35  | .45 | .57 | .71 | .86 | 1.00 | 1.29  | 1.56  | 1.84  | 2.14 | 2.72  | 3.36 |
|-------------------|-----|------|-----|-----|-----|-----|------|-------|-------|-------|------|-------|------|
| Belt Width        | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | 7/8 | 1    | 1-1/4 | 1-1/2 | 1-3/4 | 2    | 2-1/2 | 3    |
| Belt Width Code   | 037 | 043  | 050 | 062 | 075 | 087 | 100  | 125   | 150   | 175   | 200  | 250   | 300  |

**Teeth in Mesh Factor (T.I.M)**

| Table Symbol | No. of Teeth In Mesh In Small Pulley | Factor |
|--------------|--------------------------------------|--------|
| None         | 6 or More                            | 1.00   |
| †            | 5                                    | .80    |

| Table Symbol | No. of Teeth In Mesh In Small Pulley | Factor |
|--------------|--------------------------------------|--------|
| ‡            | 4                                    | .60    |

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|



# SELECTION

## L Stock Drive Selections

|      | Driven Speeds for Motor Speeds of |      |      | Speed Ratio | Pulley Combination |             |              |             | HP for a 1 Wide Belt for Motor Speeds of Δ |      |       | Nominal C.D. Using DYNA-SYNC Belts |       |       |       |       |      |
|------|-----------------------------------|------|------|-------------|--------------------|-------------|--------------|-------------|--|------|-------|------------------------------------|-------|-------|-------|-------|------|
|      | 3500                              | 1750 | 1160 |             | Driver             |             | Driven       |             | 3500                                       | 1750 | 1160  | 124L                               | 150L  | 187L  | 210L  | 225L  | 240L |
|      |                                   |      |      |             | No. of Teeth       | Pitch Diam. | No. of Teeth | Pitch Diam. |  |      |       |                                    |       |       |       |       |      |
| ...  | 750                               | 497  | 2.33 | 12L         | 1.432              | 28L         | 3.342        | ...         | 1.09◇                                      | .72  | ...   | 3.63                               | 5.55  | 6.69  | 7.45† | 8.20† |      |
| 1458 | 729                               | 483  | 2.40 | 30L         | 3.581              | 72L         | 8.594        | 4.86        | 2.66                                       | 1.79 | ...   | ...                                | ...   | ...   | ...   | ...   |      |
| 1458 | 729                               | 483  | 2.40 | 20L         | 2.387              | 48L         | 5.730        | 3.46        | 1.80                                       | 1.20 | ...   | ...                                | ...   | 4.57  | 5.37  |       |      |
| ...  | 729                               | 483  | 2.40 | 10L         | 1.194              | 24L         | 2.865        | ...         | .91◇                                       | .60◇ | 2.89‡ | 4.24‡                              | 6.14‡ | 7.28‡ | 8.03‡ | 8.78‡ |      |
| 1400 | 700                               | 464  | 2.50 | 24L         | 2.865              | 60L         | 7.162        | 4.06        | 2.15                                       | 1.44 | ...   | ...                                | ...   | ...   | ...   | ...   |      |
| 1400 | 700                               | 464  | 2.50 | 16L         | 1.910              | 40L         | 4.775        | 2.83        | 1.45                                       | .97  | ...   | ...                                | ...   | 5.05  | 5.83  | 6.60  |      |
| ...  | 700                               | 464  | 2.50 | 12L         | 1.432              | 30L         | 3.581        | ...         | 1.09◇                                      | .72  | ...   | 3.40‡                              | 5.34‡ | 6.43‡ | 7.24‡ | 8.00‡ |      |
| 1361 | 681                               | 451  | 2.57 | 28L         | 3.342              | 72L         | 8.594        | 4.61        | 2.49                                       | 1.67 | ...   | ...                                | ...   | ...   | ...   | ...   |      |
| ...  | 673                               | 446  | 2.60 | 10L         | 1.194              | 26L         | 3.104        | ...         | .91◇                                       | .60◇ | 2.64§ | 4.02‡                              | 5.93‡ | 7.07‡ | 7.83‡ | 8.58‡ |      |
| 1333 | 667                               | 442  | 2.63 | 32L         | 3.820              | 84L         | 10.027       | 5.10        | 2.83                                       | 1.91 | ...   | ...                                | ...   | ...   | ...   | ...   |      |
| 1312 | 656                               | 435  | 2.67 | 18L         | 2.149              | 48L         | 5.730        | 3.15        | 1.62                                       | 1.08 | ...   | ...                                | ...   | ...   | 4.73  | 5.53  |      |
| ...  | 656                               | 435  | 2.67 | 12L         | 1.432              | 32L         | 3.820        | ...         | 1.09◇                                      | .72  | ...   | 3.15†                              | 5.12† | 6.27† | 7.03† | 7.79† |      |
| 1283 | 642                               | 425  | 2.73 | 22L         | 2.626              | 60L         | 7.162        | 3.77        | 1.98                                       | 1.32 | ...   | ...                                | ...   | ...   | ...   | ...   |      |
| 1264 | 632                               | 419  | 2.77 | 26L         | 3.104              | 72L         | 8.594        | 4.35        | 2.32                                       | 1.56 | ...   | ...                                | ...   | ...   | ...   | ...   |      |
| 1250 | 625                               | 414  | 2.80 | 30L         | 3.581              | 84L         | 10.027       | 4.86        | 2.66                                       | 1.79 | ...   | ...                                | ...   | ...   | ...   | ...   |      |
| ...  | 625                               | 414  | 2.80 | 10L         | 1.194              | 28L         | 3.342        | ...         | .91◇                                       | .60◇ | ...   | 3.79‡                              | 5.72‡ | 6.86‡ | 7.62‡ | 8.38‡ |      |
| 1225 | 613                               | 406  | 2.86 | 14L         | 1.671              | 40L         | 4.775        | 2.49◇       | 1.27                                       | .85  | ...   | ...                                | ...   | 5.21  | 5.99  | 6.77  |      |
| 1167 | 583                               | 387  | 3.00 | 28L         | 3.342              | 84L         | 10.027       | 4.61        | 2.49                                       | 1.67 | ...   | ...                                | ...   | ...   | ...   | ...   |      |
| 1167 | 583                               | 387  | 3.00 | 24L         | 2.865              | 72L         | 8.594        | 4.06        | 2.15                                       | 1.44 | ...   | ...                                | ...   | ...   | ...   | ...   |      |
| 1167 | 583                               | 387  | 3.00 | 20L         | 2.387              | 60L         | 7.162        | 3.46        | 1.80                                       | 1.20 | ...   | ...                                | ...   | ...   | ...   | ...   |      |
| 1167 | 583                               | 387  | 3.00 | 16L         | 1.910              | 48L         | 5.730        | 2.83        | 1.45                                       | .97  | ...   | ...                                | ...   | ...   | 4.88  | 5.68  |      |
| ...  | 583                               | 387  | 3.00 | 10L         | 1.194              | 30L         | 3.581        | ...         | .91◇                                       | .60◇ | ...   | 3.56§                              | 5.50‡ | 6.65‡ | 7.41‡ | 8.17‡ |      |
| ...  | 547                               | 363  | 3.20 | 10L         | 1.194              | 32L         | 3.820        | ...         | .91◇                                       | .60◇ | ...   | 3.30§                              | 5.28‡ | 6.44‡ | 7.20‡ | 7.96‡ |      |
| 1684 | 542                               | 359  | 3.23 | 26L         | 3.104              | 84L         | 10.027       | 4.35        | 2.32                                       | 1.56 | ...   | ...                                | ...   | ...   | ...   | ...   |      |
| 1069 | 535                               | 354  | 3.27 | 22L         | 2.626              | 72L         | 8.594        | 3.77        | 1.98                                       | 1.32 | ...   | ...                                | ...   | ...   | ...   | ...   |      |
| 1050 | 525                               | 348  | 3.33 | 18L         | 2.149              | 60L         | 7.162        | 3.15        | 1.62                                       | 1.08 | ...   | ...                                | ...   | ...   | ...   | ...   |      |
| ...  | 525                               | 348  | 3.33 | 12L         | 1.432              | 40L         | 4.775        | ...         | 1.09◇                                      | .72  | ...   | ...                                | 4.17‡ | 5.37‡ | 6.15‡ | 6.93‡ |      |
| 1021 | 510                               | 338  | 3.43 | 14L         | 1.671              | 48L         | 5.730        | 2.49◇       | 1.27                                       | .85  | ...   | ...                                | ...   | 4.19‡ | 5.03‡ | 5.84‡ |      |
| 1000 | 500                               | 331  | 3.50 | 24L         | 2.865              | 84L         | 10.027       | 4.06        | 2.15                                       | 1.44 | ...   | ...                                | ...   | ...   | ...   | ...   |      |
| 972  | 486                               | 322  | 3.60 | 20L         | 2.387              | 72L         | 8.594        | 3.46        | 1.80                                       | 1.20 | ...   | ...                                | ...   | ...   | ...   | ...   |      |
| 933  | 467                               | 309  | 3.75 | 16L         | 1.910              | 60L         | 7.162        | 2.83        | 1.45                                       | .97  | ...   | ...                                | ...   | ...   | ...   | ...   |      |
| 916  | 458                               | 304  | 3.82 | 22L         | 2.626              | 84L         | 10.027       | 3.77        | 1.98                                       | 1.32 | ...   | ...                                | ...   | ...   | ...   | ...   |      |
| 875  | 438                               | 290  | 4.00 | 18L         | 2.149              | 72L         | 8.594        | 3.15        | 1.62                                       | 1.08 | ...   | ...                                | ...   | ...   | ...   | ...   |      |
| ...  | 438                               | 290  | 4.00 | 12L         | 1.432              | 48L         | 5.730        | ...         | 1.09◇                                      | .72  | ...   | ...                                | ...   | 4.34‡ | 5.18‡ | 5.99‡ |      |
| ...  | 438                               | 290  | 4.00 | 10L         | 1.194              | 40L         | 4.775        | ...         | .91◇                                       | .60◇ | ...   | ...                                | 4.33§ | 5.53§ | 6.32‡ | 7.09‡ |      |
| 833  | 417                               | 276  | 4.20 | 20L         | 2.387              | 84L         | 10.027       | 3.46        | 1.80                                       | 1.20 | ...   | ...                                | ...   | ...   | ...   | ...   |      |
| 817  | 408                               | 271  | 4.29 | 14L         | 1.671              | 60L         | 7.162        | 2.49◇       | 1.27                                       | .85  | ...   | ...                                | ...   | ...   | ...   | ...   |      |
| 778  | 389                               | 258  | 4.50 | 16L         | 1.910              | 72L         | 8.594        | 2.83        | 1.45                                       | .97  | ...   | ...                                | ...   | ...   | ...   | ...   |      |
| 749  | 375                               | 248  | 4.67 | 18L         | 2.149              | 84L         | 10.027       | 3.15        | 1.62                                       | 1.08 | ...   | ...                                | ...   | ...   | ...   | ...   |      |
| ...  | 365                               | 242  | 4.80 | 10L         | 1.194              | 48L         | 5.730        | ...         | .91◇                                       | .60◇ | ...   | ...                                | ...   | 4.48§ | 5.33§ | 6.15§ |      |
| ...  | 350                               | 232  | 5.00 | 12L         | 1.432              | 60L         | 7.162        | ...         | 1.09◇                                      | .72  | ...   | ...                                | ...   | ...   | ...   | ...   |      |
| 681  | 340                               | 226  | 5.14 | 14L         | 1.671              | 72L         | 8.594        | 2.49◇       | 1.27                                       | .85  | ...   | ...                                | ...   | ...   | ...   | ...   |      |
| 667  | 333                               | 221  | 5.25 | 16L         | 1.671              | 84L         | 10.027       | 2.83        | 1.45                                       | .97  | ...   | ...                                | ...   | ...   | ...   | ...   |      |
| 583  | 292                               | 193  | 6.00 | 14L         | 1.671              | 84L         | 10.027       | 2.49◇       | 1.27                                       | .85  | ...   | ...                                | ...   | ...   | ...   | ...   |      |
| ...  | 292                               | 193  | 6.00 | 12L         | 1.432              | 72L         | 8.594        | ...         | 1.09◇                                      | .72  | ...   | ...                                | ...   | ...   | ...   | ...   |      |
| ...  | 292                               | 193  | 6.00 | 10L         | 1.194              | 60L         | 7.162        | ...         | .91◇                                       | .60◇ | ...   | ...                                | ...   | ...   | ...   | 4.38♣ |      |
| ...  | 250                               | 166  | 7.00 | 12L         | 1.432              | 84L         | 10.027       | ...         | 1.09◇                                      | .72  | ...   | ...                                | ...   | ...   | ...   | ...   |      |
| ...  | 243                               | 161  | 7.20 | 10L         | 1.194              | 72L         | 8.594        | ...         | .91◇                                       | .60◇ | ...   | ...                                | ...   | ...   | ...   | ...   |      |
| ...  | 208                               | 138  | 8.40 | 10L         | 1.194              | 84L         | 10.027       | ...         | .91◇                                       | .60◇ | ...   | ...                                | ...   | ...   | ...   | ...   |      |

Δ HP ratings are for conventional speed-reduction drives.

† ‡ § ♣ See Teeth in Mesh table on opposite page.

For Speed-Up Drives refer to page PT10-17.

♥ Flanges Required on both pulleys.

◇ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

V-Drives  
FHP Drives  
Drive Component Accessories  
DYNA-SYNC  
HT200/HTD Synchronous Drives  
HT500 Synchronous Drives  
Roller Chain Sprockets

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|





## L Stock Drive Selections

Nominal Center Distance Using DYNA-SYNC Belts

| 255L  | 270L   | 285L   | 300L   | 322L   | 345L    | 367L    | 390L    | 420L    | 450L    | 480L    | 510L    | 540L    | 600L    |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 8.96† | 9.71†  | 10.47† | 11.22† | 12.35† | 13.48†  | 14.61†  | 15.73†  | 17.24†  | 18.74†  | 20.24†  | 21.74†  | 23.24†  | 26.25†  |
| ....  | ....   | ....   | ....   | ....   | 7.26    | 8.44    | 9.62    | 11.16   | 12.70   | 14.23   | 15.75   | 17.27   | 20.29   |
| 6.15  | 6.93   | 7.70   | 8.47   | 9.61   | 10.75   | 11.89   | 13.03   | 14.54   | 16.05   | 17.56   | 19.06   | 20.57   | 23.58   |
| 9.54‡ | 10.29‡ | 11.04‡ | 11.80‡ | 12.92‡ | 14.05‡  | 15.18‡  | 16.30‡  | 17.81‡  | 19.31‡  | 20.81‡  | 22.31‡  | 23.81‡  | 26.81‡  |
| ....  | ....   | 5.99   | 6.79   | 7.97   | 9.13    | 10.28   | 11.43   | 12.96   | 14.48   | 15.99   | 17.50   | 19.01   | 22.03   |
| 7.37  | 8.13   | 8.89   | 9.65   | 10.79  | 11.92   | 13.06   | 14.19   | 15.70   | 17.20   | 18.71   | 20.21   | 21.72   | 24.72   |
| 8.76† | 9.51†  | 10.27† | 11.02† | 12.15† | 13.28†  | 14.41†  | 15.54†  | 17.04†  | 18.54†  | 20.05†  | 21.55†  | 23.05†  | 26.05†  |
| ....  | ....   | ....   | ....   | 6.19   | 7.41    | 8.60    | 9.78    | 11.33   | 12.86   | 14.39   | 15.92   | 17.44   | 20.47   |
| 9.34‡ | 10.09‡ | 10.85‡ | 11.60‡ | 12.73‡ | 13.85‡  | 14.98‡  | 16.11‡  | 17.61‡  | 19.11‡  | 20.62‡  | 22.12‡  | 23.62‡  | 26.62‡  |
| ....  | ....   | ....   | ....   | ....   | ....    | ....    | 8.02    | 9.63    | 11.20   | 12.75   | 14.30   | 15.83   | 18.88   |
| 6.31  | 7.09   | 7.87   | 8.64   | 9.78   | 10.92   | 12.06   | 13.20   | 14.72   | 16.23   | 17.73   | 19.24   | 20.75   | 23.76   |
| 8.55† | 9.31†  | 10.07† | 10.82† | 11.95† | 13.08†  | 14.21†  | 15.34†  | 16.85†  | 18.35†  | 19.85†  | 21.36†  | 22.86†  | 25.86†  |
| ....  | 5.33   | 6.15   | 6.95   | 8.13   | 9.29    | 10.45   | 11.60   | 13.18   | 14.65   | 16.16   | 17.68   | 19.19   | 22.21♥  |
| ....  | ....   | ....   | ....   | 6.34   | 7.56    | 8.76    | 9.94    | 11.49   | 13.03   | 14.56   | 16.09   | 17.61   | 20.64   |
| ....  | ....   | ....   | ....   | ....   | ....    | ....    | 8.17    | 9.78    | 11.36   | 12.92   | 14.46   | 16.00   | 19.05   |
| 9.14‡ | 9.89‡  | 10.65‡ | 11.40‡ | 12.53‡ | 13.66‡  | 14.79‡  | 15.91‡  | 17.42‡  | 18.92‡  | 20.42‡  | 21.92‡  | 23.43‡  | 26.43‡  |
| 7.54  | 8.30   | 9.06   | 9.83   | 10.96  | 12.10   | 13.23   | 14.36   | 15.87   | 17.38   | 18.89   | 20.39   | 21.89   | 24.90   |
| ....  | ....   | ....   | ....   | ....   | ....    | 7.08    | 8.33    | 9.94    | 11.52   | 13.08   | 14.63   | 16.16   | 19.22   |
| ....  | ....   | ....   | ....   | 6.49   | 7.72    | 8.92    | 10.10   | 11.65   | 13.20   | 14.73   | 16.26   | 17.78   | 20.81   |
| ....  | 5.48   | 6.30   | 7.10   | 8.29   | 9.46    | 10.61   | 11.77   | 13.29   | 14.82   | 16.34   | 17.85   | 19.36♥  | 22.38♥  |
| 6.47  | 7.26   | 8.03   | 8.80   | 9.95   | 11.10   | 12.24   | 13.37   | 14.89   | 16.40   | 17.91   | 19.42   | 20.93   | 23.94   |
| 8.93‡ | 9.69‡  | 10.44‡ | 11.20‡ | 12.33‡ | 13.46‡  | 14.59‡  | 15.72‡  | 17.22‡  | 18.73‡  | 20.23‡  | 21.73‡  | 23.23‡  | 26.24‡  |
| 8.72‡ | 9.48‡  | 10.24‡ | 11.00‡ | 12.13‡ | 13.26‡  | 14.39‡  | 15.52‡  | 17.02‡  | 18.53‡  | 20.03‡  | 21.54‡  | 23.04‡  | 26.04‡  |
| ....  | ....   | ....   | ....   | ....   | ....    | 7.22    | 8.48    | 10.10   | 11.68   | 13.24   | 14.79   | 16.33   | 19.39   |
| ....  | ....   | ....   | ....   | 6.64   | 7.87    | 9.07    | 10.26   | 11.82   | 13.36   | 14.90   | 16.43   | 17.95   | 20.99   |
| ....  | 5.62   | 6.45   | 7.26   | 8.45   | 9.62    | 10.78   | 11.93   | 13.46   | 14.99   | 16.51   | 18.02♥  | 19.54♥  | 22.56♥  |
| 7.70† | 8.47†  | 9.23†  | 10.00† | 11.14† | 12.27†  | 13.40†  | 14.54†  | 16.05†  | 17.56†  | 19.06†  | 20.57†  | 22.08†  | 25.08†  |
| 6.63† | 7.42†  | 8.19†  | 8.97†  | 10.12  | 11.26   | 12.41   | 13.55   | 15.06   | 16.57   | 18.08   | 19.59   | 21.10   | 24.11   |
| ....  | ....   | ....   | ....   | ....   | ....    | 7.37    | 8.63    | 10.25   | 11.84   | 13.40   | 14.95   | 16.49   | 19.56   |
| ....  | ....   | ....   | ....   | 6.78   | 8.02    | 9.23    | 10.42   | 11.98   | 13.53   | 15.06   | 16.59   | 18.12   | 21.16   |
| 4.91  | 5.77   | 6.60   | 7.41   | 8.60   | 9.78    | 10.94   | 12.10   | 13.63   | 15.16   | 16.68♥  | 18.20♥  | 19.71♥  | 22.73♥  |
| ....  | ....   | ....   | ....   | ....   | ....    | 7.51    | 8.78    | 10.40   | 12.00   | 13.56   | 15.12   | 16.66   | 19.18   |
| ....  | ....   | ....   | 5.61†  | 6.93   | 8.18    | 9.39    | 10.58   | 12.14   | 13.69   | 15.23   | 16.76   | 18.29♥  | 21.33♥  |
| 6.79‡ | 7.58‡  | 8.36‡  | 9.13‡  | 10.28‡ | 11.43‡  | 12.58‡  | 13.72‡  | 15.23‡  | 16.75‡  | 18.25‡  | 19.77‡  | 21.28‡  | 24.29‡  |
| 7.87‡ | 8.64‡  | 9.40‡  | 10.17‡ | 11.31‡ | 12.44‡  | 13.58‡  | 14.72‡  | 16.23‡  | 17.73‡  | 19.24‡  | 20.75‡  | 22.25‡  | 25.26‡  |
| ....  | ....   | ....   | ....   | ....   | ....    | 7.66    | 8.93    | 10.56   | 12.15   | 13.72   | 15.28   | 16.82   | 19.89♥  |
| 5.05‡ | 5.92‡  | 6.75‡  | 7.57‡  | 8.76‡  | 9.94‡   | 11.11‡  | 12.26‡  | 13.80♥  | 15.33♥  | 16.85♥  | 18.37♥  | 19.83♥  | 22.91♥  |
| ....  | ....   | ....   | 5.75‡  | 7.08‡  | 8.33‡   | 9.54    | 10.73   | 12.30   | 13.85   | 15.40♥  | 16.93♥  | 18.46♥  | 21.50♥  |
| ....  | ....   | ....   | ....   | ....   | 6.45‡   | 7.80‡   | 9.08    | 10.71   | 12.31   | 13.88   | 15.44   | 16.99   | 20.06♥  |
| 6.95  | 7.74‡  | 8.52‡  | 9.29‡  | 10.45‡ | 11.60‡  | 12.75‡  | 13.89‡  | 15.41‡  | 16.92‡  | 18.44‡  | 19.95‡  | 21.46‡  | 24.47‡  |
| 5.19§ | 6.07‡  | 6.90‡  | 7.72‡  | 8.92‡  | 10.10‡  | 11.274  | 12.43†♥ | 13.97†♥ | 15.49†♥ | 17.02†♥ | 18.54†♥ | 20.06†♥ | 23.08†♥ |
| ....  | ....   | ....   | 5.89‡  | 7.22‡  | 8.48‡   | 9.70‡   | 10.89‡  | 12.46‡  | 14.02†♥ | 15.56†♥ | 17.10♥  | 18.63♥  | 21.67♥  |
| ....  | ....   | ....   | ....   | ....   | 6.58‡   | 7.94‡   | 9.22‡   | 10.87   | 12.47   | 14.04   | 15.60♥  | 17.15♥  | 20.23♥  |
| ....  | ....   | ....   | ....   | ....   | 6.72‡   | 8.09‡   | 9.37‡   | 11.02‡  | 12.62‡  | 14.20†♥ | 15.76†♥ | 17.32†♥ | 20.39♥  |
| ....  | ....   | ....   | 6.03§  | 7.37   | 8.63‡   | 9.85‡   | 11.05‡  | 12.62†♥ | 14.18†♥ | 15.73†♥ | 17.26†♥ | 18.79†♥ | 21.84†♥ |
| 5.33§ | 6.21§  | 7.05§  | 7.87§  | 9.08§  | 10.26†♥ | 11.43†♥ | 12.59†♥ | 14.13†♥ | 15.66†♥ | 17.19†♥ | 18.71†♥ | 20.23†♥ | 23.26†♥ |
| ....  | ....   | ....   | ....   | ....   | 6.86§   | 8.23§   | 9.52‡   | 11.17‡  | 12.78‡  | 14.36‡  | 15.93‡  | 17.48‡  | 20.56‡  |
| ....  | ....   | ....   | 6.17♥  | 7.51§  | 8.78§   | 10.00§  | 11.20§  | 12.78‡  | 14.34‡  | 15.89‡  | 17.43‡  | 18.96‡  | 22.01‡  |
| ....  | ....   | ....   | ....   | ....   | 7.00§   | 8.37§   | 9.67§   | 11.32§  | 12.93§  | 14.52‡  | 16.09‡  | 17.64‡  | 20.73‡  |

### L Belt Width Table

| Belt Width Factor | .28 | .35  | .45 | .57 | .71 | .86 | 1.00 | 1.29  | 1.56  | 1.84  | 2.14 | 2.72  | 3.36 |
|-------------------|-----|------|-----|-----|-----|-----|------|-------|-------|-------|------|-------|------|
| Belt Width        | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | 7/8 | 1    | 1-1/4 | 1-1/2 | 1-3/4 | 2    | 2-1/2 | 3    |
| Belt Width Code   | 037 | 043  | 050 | 062 | 075 | 087 | 100  | 125   | 150   | 175   | 200  | 250   | 300  |

### Teeth in Mesh factor (T.I.M)

| Table Symbol | No. of Teeth In Mesh In Small Pulley | Factor |
|--------------|--------------------------------------|--------|
| None         | 6 or More                            | 1.00   |
| †            | 5                                    | .80    |
| ‡            | 4                                    | .60    |

| Table Symbol | No. of Teeth In Mesh In Small Pulley | Factor |
|--------------|--------------------------------------|--------|
| §            | 3                                    | .40    |
| β            | 2                                    | .20    |

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|





# SELECTION

## H Stock Drive Selections

|                              | Driven Speeds for Motor Speeds of |      |      | Speed Ratio | Pulley Combination |             |              |             | HP for a 1 Wide Belt for Motor Speeds of Δ |       |       | Nominal C.D. Using DYNA-SYNC Belts |       |       |       |       |       |       |
|------------------------------|-----------------------------------|------|------|-------------|--------------------|-------------|--------------|-------------|--|-------|-------|------------------------------------|-------|-------|-------|-------|-------|-------|
|                              |                                   |      |      |             | Driver             |             | Driven       |             |  |       |       |                                    |       |       |       |       |       |       |
|                              | 3500                              | 1750 | 1160 |             | No. of Teeth       | Pitch Diam. | No. of Teeth | Pitch Diam. | 3500                                       | 1750  | 1160  | 240H                               | 270H  | 300H  | 330H  | 360H  | 390H  | 420H  |
| FHP Drives                   | ...                               | 1750 | 1160 | 1.00        | 48H                | 7.839       | 48H          | 7.639       | ...  | 13.84 | 9.55  | ...                                | ...   | ...   | ...   | ...   | 9.01  |       |
|                              | 3500                              | 1750 | 1160 | 1.00        | 40H                | 6.366       | 40H          | 6.366       | 20.08                                      | 11.79 | 8.03  | ...                                | ...   | ...   | 8.01  | 9.51  | 11.01 |       |
|                              | 3500                              | 1750 | 1160 | 1.00        | 32H                | 5.093       | 32H          | 5.093       | 17.40                                      | 9.60  | 6.48  | ...                                | 5.51  | 7.01  | 8.51  | 10.01 | 11.51 | 13.01 |
|                              | 3500                              | 1750 | 1160 | 1.00        | 30H                | 4.775       | 30H          | 4.775       | 16.59                                      | 9.03  | 6.08  | ...                                | 6.01  | 7.51  | 9.01  | 10.51 | 12.01 | 13.51 |
|                              | 3500                              | 1750 | 1160 | 1.00        | 28H                | 4.456       | 28H          | 4.456       | 15.74                                      | 8.46  | 5.68  | 5.01                               | 6.51  | 8.01  | 9.51  | 11.01 | 12.51 | 14.01 |
|                              | 3500                              | 1750 | 1160 | 1.00        | 26H                | 4.138       | 26H          | 4.138       | 14.80                                      | 7.88  | 5.28  | 5.51                               | 7.01  | 8.51  | 10.01 | 11.51 | 13.01 | 14.51 |
|                              | 3500                              | 1750 | 1160 | 1.00        | 24H                | 3.820       | 24H          | 3.820       | 13.82                                      | 7.30  | 4.89  | 6.01                               | 7.51  | 9.01  | 10.51 | 12.01 | 13.51 | 15.01 |
|                              | 3500                              | 1750 | 1160 | 1.00        | 22H                | 3.501       | 22H          | 3.501       | 12.84                                      | 6.71  | 4.48  | 6.51                               | 8.01  | 9.51  | 11.01 | 12.51 | 14.01 | 15.51 |
|                              | 3500                              | 1750 | 1160 | 1.00        | 20H                | 3.183       | 20H          | 3.183       | 11.77◊                                     | 6.11  | 4.08  | 7.01                               | 8.51  | 10.01 | 11.51 | 13.01 | 14.51 | 16.01 |
|                              | 3500                              | 1750 | 1160 | 1.00        | 18H                | 2.865       | 18H          | 2.865       | 10.71◊                                     | 5.52◊ | 3.68  | 7.51                               | 9.01  | 10.51 | 12.01 | 13.51 | 15.01 | 16.51 |
| Drive Component Accessories  | ...                               | 1750 | 1160 | 1.00        | 16H                | 2.546       | 16H          | 2.546       | ...  | 4.91◊ | 3.27◊ | 8.01                               | 9.51  | 11.01 | 12.51 | 14.01 | 15.51 | 17.01 |
|                              | ...                               | ...  | 1160 | 1.00        | 14H                | 2.228       | 14H          | 2.228       | ...  | ...   | 2.86◊ | 8.51                               | 10.01 | 11.51 | 13.01 | 14.51 | 16.01 | 17.51 |
|                              | 3281                              | 1641 | 1087 | 1.07        | 30H                | 4.775       | 32H          | 5.093       | 16.59                                      | 9.03  | 6.08  | ...                                | 5.75  | 7.25  | 8.76  | 10.26 | 11.76 | 13.26 |
|                              | 3267                              | 1633 | 1083 | 1.07        | 28H                | 4.456       | 30H          | 4.775       | 15.74                                      | 8.46  | 5.68  | ...                                | 6.25  | 7.26  | 9.26  | 10.76 | 12.26 | 13.76 |
|                              | 3250                              | 1625 | 1077 | 1.08        | 26H                | 4.138       | 28H          | 4.456       | 14.80                                      | 7.88  | 5.28  | 5.25                               | 6.75  | 8.26  | 9.76  | 11.26 | 12.76 | 14.26 |
|                              | 3231                              | 1615 | 1071 | 1.08        | 24H                | 3.820       | 26H          | 4.138       | 13.82                                      | 7.30  | 4.89  | 5.76                               | 7.26  | 8.76  | 10.26 | 11.76 | 13.26 | 14.76 |
|                              | 3208                              | 1604 | 1063 | 1.09        | 22H                | 3.501       | 24H          | 3.820       | 12.84                                      | 6.71  | 4.48  | 6.26                               | 7.76  | 9.26  | 10.76 | 12.26 | 13.76 | 15.26 |
|                              | 3182                              | 1591 | 1055 | 1.10        | 20H                | 3.183       | 22H          | 3.501       | 11.77◊                                     | 6.11  | 4.08  | 6.76                               | 8.26  | 9.76  | 11.26 | 12.76 | 14.26 | 15.76 |
|                              | 3150                              | 1575 | 1044 | 1.11        | 18H                | 2.865       | 20H          | 3.183       | 10.71◊                                     | 5.52◊ | 3.68  | 7.26                               | 8.76  | 10.26 | 11.76 | 13.26 | 14.76 | 16.26 |
|                              | ...                               | 1556 | 1031 | 1.13        | 16H                | 2.546       | 18H          | 2.865       | ...  | 4.91◊ | 3.27◊ | 7.76                               | 9.26  | 10.76 | 12.26 | 13.76 | 15.26 | 16.76 |
| DYNA-SYNC                    | 3063                              | 1531 | 1015 | 1.14        | 28H                | 4.456       | 32H          | 5.093       | 15.74                                      | 8.46  | 5.68  | ...                                | 6.00  | 7.50  | 9.00  | 10.50 | 12.01 | 13.51 |
|                              | ...                               | ...  | 1015 | 1.14        | 14H                | 2.228       | 16H          | 2.546       | ...  | ...   | 2.86◊ | 8.26                               | 9.76  | 11.26 | 12.76 | 14.26 | 15.76 | 17.26 |
|                              | 3033                              | 1517 | 1005 | 1.15        | 26H                | 4.138       | 30H          | 4.775       | 14.80                                      | 7.88  | 5.28  | 5.00                               | 6.50  | 8.00  | 9.50  | 11.00 | 12.51 | 14.01 |
|                              | 3000                              | 1500 | 994  | 1.17        | 24H                | 3.820       | 28H          | 4.456       | 13.82                                      | 7.30  | 4.89  | 5.50                               | 7.00  | 8.50  | 10.00 | 11.50 | 13.01 | 14.51 |
|                              | 2962                              | 1481 | 982  | 1.18        | 22H                | 3.501       | 26H          | 4.138       | 12.84                                      | 6.71  | 4.48  | 6.00                               | 7.50  | 9.00  | 10.50 | 12.01 | 13.50 | 15.01 |
|                              | 2917                              | 1458 | 967  | 1.20        | 40H                | 6.366       | 48H          | 7.639       | 20.08                                      | 11.79 | 8.03  | ...                                | ...   | ...   | ...   | ...   | 8.48  | 9.99  |
|                              | 2917                              | 1458 | 967  | 1.20        | 20H                | 3.183       | 24H          | 3.820       | 11.77◊                                     | 6.11  | 4.08  | 6.50                               | 8.00  | 9.50  | 11.00 | 12.51 | 14.01 | 15.51 |
|                              | 2864                              | 1432 | 949  | 1.22        | 18H                | 2.865       | 22H          | 3.501       | 10.71◊                                     | 5.52◊ | 3.68  | 7.01                               | 8.50  | 10.00 | 11.51 | 13.01 | 14.51 | 16.01 |
|                              | 2844                              | 1422 | 943  | 1.23        | 26H                | 4.138       | 32H          | 5.093       | 14.80                                      | 7.88  | 5.28  | ...                                | 6.24  | 7.74  | 9.24  | 10.75 | 12.25 | 13.75 |
|                              | ...                               | 1400 | 928  | 1.25        | 48H                | 7.639       | 60H          | 9.549       | ...  | 13.84 | 9.55  | ...                                | ...   | ...   | ...   | ...   | ...   | ...   |
|                              | 2800                              | 1400 | 928  | 1.25        | 32H                | 5.093       | 40H          | 6.366       | 17.40                                      | 9.60  | 6.48  | ...                                | ...   | ...   | 7.43  | 8.98  | 10.49 | 11.99 |
|                              | 2800                              | 1400 | 928  | 1.25        | 24H                | 3.820       | 30H          | 4.775       | 13.82                                      | 7.30  | 4.89  | 5.24                               | 6.40  | 8.24  | 9.75  | 11.25 | 12.75 | 14.25 |
|                              | ...                               | 1400 | 928  | 1.25        | 16H                | 2.546       | 20H          | 3.183       | ...  | 4.91◊ | 3.27◊ | 7.50                               | 9.00  | 10.50 | 12.01 | 13.51 | 15.01 | 16.51 |
|                              | 2750                              | 1375 | 911  | 1.27        | 22H                | 3.501       | 28H          | 4.456       | 12.84                                      | 6.71  | 4.48  | 5.74                               | 7.24  | 8.74  | 10.25 | 11.75 | 13.25 | 14.75 |
|                              | ...                               | ...  | 902  | 1.29        | 14H                | 2.228       | 18H          | 2.865       | ...  | ...   | 2.86◊ | 8.00                               | 9.50  | 11.01 | 12.51 | 14.01 | 15.51 | 17.02 |
| HT200/HTD Synchronous Drives | 2692                              | 1346 | 892  | 1.30        | 20H                | 3.183       | 26H          | 4.138       | 11.77◊                                     | 6.11  | 4.08  | 6.24                               | 7.74  | 9.25  | 10.75 | 12.25 | 13.75 | 15.26 |
|                              | 2625                              | 1313 | 870  | 1.33        | 30H                | 4.775       | 40H          | 6.366       | 16.59                                      | 9.03  | 6.08  | ...                                | ...   | 6.20  | 7.72  | 9.22  | 10.73 | 12.24 |
|                              | 2625                              | 1313 | 870  | 1.33        | 24H                | 3.820       | 32H          | 5.093       | 13.82                                      | 7.30  | 4.89  | 4.97                               | 6.48  | 7.98  | 9.49  | 10.99 | 12.49 | 14.00 |
|                              | 2625                              | 1313 | 870  | 1.33        | 18H                | 2.865       | 24H          | 3.820       | 10.71◊                                     | 5.52◊ | 3.68  | 6.74                               | 8.24  | 9.75  | 11.25 | 12.75 | 14.25 | 15.76 |
|                              | 2567                              | 1283 | 851  | 1.36        | 22H                | 3.501       | 30H          | 4.775       | 12.84                                      | 6.71  | 4.48  | 5.47                               | 6.98  | 8.48  | 9.99  | 11.49 | 12.99 | 14.50 |
| HT500 Synchronous Drives     | ...                               | 1273 | 844  | 1.38        | 16H                | 2.546       | 22H          | 3.501       | ...  | 4.91◊ | 3.27◊ | 7.24                               | 8.75  | 10.25 | 11.75 | 13.25 | 14.75 | 16.25 |
|                              | 2500                              | 1250 | 829  | 1.40        | 20H                | 3.183       | 28H          | 4.456       | 11.77◊                                     | 6.11  | 4.08  | 5.97                               | 7.48  | 8.99  | 10.49 | 11.99 | 13.49 | 15.00 |
|                              | 2450                              | 1225 | 812  | 1.43        | 28H                | 4.456       | 40H          | 6.366       | 15.74                                      | 8.46  | 5.68  | ...                                | ...   | 6.50  | 7.95  | 9.46  | 10.97 | 12.47 |
|                              | ...                               | ...  | 812  | 1.43        | 14H                | 2.228       | 20H          | 3.183       | ...  | ...   | 2.86◊ | 7.75                               | 9.25  | 10.75 | 12.25 | 13.75 | 15.25 | 16.75 |
|                              | 2423                              | 1212 | 803  | 1.44        | 18H                | 2.865       | 26H          | 4.138       | 10.71◊                                     | 5.52◊ | 3.68  | 6.48                               | 7.98  | 9.49  | 10.99 | 12.49 | 14.00 | 15.50 |
|                              | 2406                              | 1203 | 798  | 1.45        | 22H                | 3.501       | 32H          | 5.093       | 12.84                                      | 6.71  | 4.48  | 5.20                               | 6.71  | 8.22  | 9.73  | 11.23 | 12.73 | 14.24 |

Δ HP ratings are for conventional speed-reduction drives.

♥ Flanges Required on both pulleys.

For Speed-Up Drives refer to page PT10-17.

◊ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|



## H Stock Drive Selections

Nominal Center Distance Using DYNA-SYNC Belts

| 450H  | 480H  | 510H  | 540H  | 570H  | 600H  | 630H  | 660H  | 700H  | 750H  | 800H  | 850H  | 900H  | 1000H | 1100H | 1250H | 1400H | 1700H  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 10.51 | 12.01 | 13.51 | 15.01 | 16.51 | 18.01 | 19.51 | 21.01 | 23.01 | 25.51 | 28.01 | 30.51 | 33.01 | 38.01 | 43.01 | 50.51 | 58.01 | 73.01  |
| 12.51 | 14.01 | 15.51 | 17.01 | 18.51 | 20.01 | 21.51 | 23.01 | 25.01 | 27.51 | 30.01 | 32.51 | 35.01 | 40.01 | 45.01 | 52.51 | 60.01 | 15.01  |
| 14.51 | 16.01 | 17.51 | 19.01 | 20.51 | 22.01 | 23.51 | 25.01 | 27.01 | 29.51 | 32.01 | 34.51 | 37.01 | 42.01 | 47.01 | 54.51 | 62.01 | 77.01  |
| 15.01 | 16.51 | 18.01 | 19.51 | 21.01 | 22.51 | 24.01 | 25.51 | 27.51 | 30.01 | 32.51 | 35.01 | 37.51 | 42.51 | 47.51 | 55.01 | 62.51 | 77.51  |
| 15.51 | 17.01 | 18.51 | 20.01 | 21.51 | 23.01 | 24.51 | 26.01 | 28.01 | 30.51 | 33.01 | 35.51 | 38.01 | 43.01 | 48.01 | 55.51 | 63.01 | 78.01  |
| 16.01 | 17.51 | 19.01 | 20.51 | 22.01 | 23.51 | 25.01 | 26.51 | 28.51 | 31.01 | 33.51 | 36.01 | 38.51 | 43.51 | 48.51 | 56.01 | 63.51 | 78.51  |
| 16.51 | 18.01 | 19.51 | 21.01 | 22.51 | 24.01 | 25.51 | 27.01 | 29.01 | 31.51 | 34.01 | 36.51 | 39.01 | 44.01 | 49.01 | 56.51 | 64.01 | 79.01  |
| 17.01 | 18.51 | 20.01 | 21.51 | 23.01 | 24.51 | 26.01 | 27.51 | 29.51 | 32.01 | 34.51 | 37.01 | 39.51 | 44.51 | 49.51 | 57.01 | 64.51 | 79.51  |
| 17.51 | 19.01 | 20.51 | 22.01 | 23.51 | 25.01 | 26.51 | 28.01 | 30.01 | 32.51 | 35.01 | 37.51 | 40.01 | 45.01 | 50.01 | 57.51 | 65.01 | 80.01  |
| 18.01 | 19.51 | 21.01 | 22.51 | 24.01 | 25.51 | 27.01 | 28.51 | 30.51 | 33.01 | 35.51 | 38.01 | 40.51 | 45.51 | 50.51 | 58.01 | 65.51 | 80.51  |
| 18.51 | 20.01 | 21.51 | 23.01 | 24.51 | 26.01 | 27.51 | 29.01 | 31.01 | 33.51 | 36.01 | 38.51 | 41.01 | 46.01 | 51.01 | 58.51 | 66.01 | 81.01  |
| 19.01 | 20.51 | 22.01 | 23.51 | 25.01 | 26.51 | 28.01 | 29.51 | 31.51 | 34.01 | 36.51 | 39.01 | 41.51 | 46.51 | 51.51 | 59.01 | 66.51 | 81.51  |
| 14.76 | 16.26 | 17.76 | 19.26 | 20.76 | 22.26 | 23.76 | 25.26 | 27.26 | 29.76 | 32.26 | 34.76 | 37.26 | 42.26 | 47.26 | 54.16 | 62.26 | 77.26  |
| 15.26 | 16.76 | 18.26 | 19.76 | 21.26 | 22.76 | 24.26 | 25.76 | 27.76 | 30.26 | 32.76 | 35.26 | 37.76 | 42.76 | 47.76 | 55.26 | 62.76 | 77.76  |
| 15.76 | 17.26 | 18.76 | 20.26 | 21.76 | 23.26 | 24.76 | 26.26 | 28.26 | 30.76 | 33.26 | 35.76 | 38.26 | 43.26 | 48.26 | 55.76 | 63.26 | 78.26  |
| 16.26 | 17.76 | 19.26 | 20.76 | 22.26 | 23.76 | 25.26 | 26.76 | 28.76 | 31.26 | 33.76 | 36.26 | 38.76 | 43.76 | 48.76 | 56.26 | 63.76 | 78.76  |
| 16.76 | 18.26 | 19.76 | 21.26 | 22.76 | 24.26 | 25.76 | 27.26 | 29.26 | 31.76 | 34.26 | 36.76 | 39.26 | 44.26 | 49.26 | 56.76 | 64.26 | 79.26  |
| 17.26 | 18.75 | 20.36 | 21.76 | 23.26 | 24.76 | 26.26 | 27.76 | 29.76 | 32.26 | 34.76 | 37.26 | 39.76 | 44.76 | 49.76 | 57.26 | 64.76 | 79.76  |
| 17.76 | 19.26 | 20.76 | 22.26 | 23.76 | 25.26 | 26.76 | 28.26 | 30.26 | 32.76 | 35.26 | 37.76 | 40.26 | 45.26 | 50.26 | 57.76 | 62.26 | 80.26  |
| 18.26 | 19.76 | 21.26 | 22.76 | 24.26 | 25.76 | 27.26 | 28.76 | 30.76 | 33.26 | 35.76 | 38.26 | 40.76 | 45.76 | 50.76 | 58.26 | 65.76 | 80.76  |
| 15.01 | 16.51 | 18.01 | 19.51 | 21.01 | 22.51 | 24.01 | 25.51 | 27.51 | 30.01 | 32.51 | 35.01 | 37.51 | 42.51 | 47.51 | 55.01 | 62.51 | 77.51  |
| 18.76 | 20.26 | 21.76 | 23.36 | 24.76 | 26.26 | 27.76 | 29.26 | 31.26 | 33.76 | 36.26 | 38.76 | 41.26 | 46.26 | 51.26 | 58.76 | 66.26 | 81.26  |
| 15.51 | 17.01 | 18.51 | 20.01 | 21.51 | 23.01 | 24.51 | 26.01 | 28.01 | 30.51 | 33.01 | 35.51 | 38.01 | 43.01 | 48.01 | 55.51 | 63.01 | 78.01  |
| 16.01 | 17.51 | 19.01 | 20.51 | 22.01 | 23.51 | 25.01 | 26.51 | 28.51 | 31.01 | 33.51 | 36.01 | 38.51 | 43.51 | 48.51 | 56.01 | 63.51 | 78.51  |
| 16.51 | 18.01 | 19.51 | 21.01 | 22.51 | 24.01 | 25.51 | 27.01 | 29.01 | 31.51 | 34.01 | 36.51 | 39.01 | 44.01 | 49.01 | 56.51 | 64.01 | 79.01  |
| 11.49 | 12.99 | 14.49 | 16.00 | 17.50 | 19.00 | 20.50 | 22.00 | 24.00 | 26.51 | 29.00 | 31.50 | 34.00 | 39.01 | 44.00 | 51.51 | 59.01 | 74.01  |
| 17.01 | 18.51 | 20.01 | 21.51 | 23.01 | 24.51 | 26.01 | 27.51 | 29.51 | 32.01 | 34.51 | 37.01 | 39.51 | 44.51 | 49.51 | 57.01 | 64.51 | 79.51  |
| 17.51 | 19.01 | 20.51 | 22.01 | 23.51 | 25.01 | 26.51 | 28.01 | 30.01 | 32.51 | 35.01 | 37.50 | 40.01 | 45.01 | 50.01 | 57.51 | 65.01 | 80.01  |
| 15.24 | 16.75 | 18.25 | 19.76 | 21.25 | 22.76 | 24.26 | 25.76 | 27.76 | 30.25 | 32.76 | 35.26 | 37.76 | 42.76 | 47.76 | 55.26 | 62.76 | 77.76  |
| 8.95  | 10.46 | 11.97 | 13.47 | 14.98 | 16.48 | 17.98 | 19.48 | 21.49 | 23.99 | 26.49 | 28.99 | 31.50 | 36.50 | 41.50 | 49.00 | 56.50 | 71.50♥ |
| 13.49 | 15.00 | 16.50 | 18.00 | 19.50 | 21.00 | 22.50 | 24.00 | 26.00 | 28.50 | 31.00 | 33.50 | 36.01 | 41.00 | 46.01 | 53.51 | 61.01 | 76.01  |
| 15.75 | 17.25 | 18.80 | 20.25 | 21.76 | 23.26 | 24.76 | 26.25 | 28.26 | 30.76 | 33.26 | 35.75 | 38.26 | 43.26 | 48.26 | 55.76 | 63.26 | 78.26  |
| 18.01 | 19.51 | 21.01 | 22.51 | 24.01 | 25.51 | 27.01 | 28.51 | 30.51 | 33.01 | 35.51 | 38.01 | 40.51 | 45.51 | 50.51 | 58.01 | 65.51 | 80.51  |
| 16.25 | 17.75 | 19.25 | 20.76 | 22.26 | 23.76 | 25.26 | 26.76 | 28.76 | 31.26 | 33.76 | 36.26 | 38.76 | 43.76 | 48.76 | 56.26 | 63.76 | 78.76  |
| 18.51 | 20.01 | 21.51 | 23.01 | 24.51 | 26.01 | 27.51 | 29.01 | 31.01 | 33.51 | 36.01 | 38.51 | 41.01 | 46.01 | 51.01 | 58.51 | 66.01 | 81.01  |
| 16.75 | 18.25 | 19.76 | 21.26 | 22.76 | 24.26 | 25.76 | 27.26 | 29.26 | 31.29 | 34.26 | 36.76 | 39.25 | 44.26 | 49.26 | 56.76 | 64.26 | 79.26  |
| 13.74 | 15.24 | 16.74 | 18.24 | 19.74 | 21.25 | 22.75 | 24.25 | 26.25 | 28.75 | 31.25 | 33.75 | 36.25 | 41.25 | 46.25 | 53.75 | 61.26 | 76.26  |
| 15.50 | 17.00 | 18.50 | 20.00 | 21.50 | 23.00 | 24.50 | 26.00 | 28.00 | 30.50 | 33.00 | 35.51 | 38.01 | 43.00 | 48.01 | 55.51 | 63.01 | 78.01  |
| 17.25 | 18.80 | 20.26 | 21.76 | 23.26 | 24.76 | 26.25 | 27.76 | 29.76 | 32.25 | 34.76 | 37.26 | 39.76 | 44.76 | 49.76 | 57.26 | 64.76 | 79.76  |
| 16.00 | 17.50 | 19.00 | 20.50 | 22.00 | 23.50 | 25.00 | 26.50 | 28.50 | 31.00 | 33.51 | 36.01 | 38.50 | 43.51 | 48.51 | 56.01 | 63.51 | 78.52  |
| 17.76 | 19.26 | 20.76 | 22.26 | 23.76 | 25.26 | 26.76 | 28.26 | 30.26 | 32.76 | 35.26 | 37.76 | 40.26 | 45.26 | 50.26 | 57.76 | 65.26 | 80.26  |
| 16.50 | 18.00 | 19.50 | 21.00 | 22.50 | 24.00 | 25.50 | 27.00 | 29.01 | 31.50 | 34.01 | 36.50 | 39.01 | 44.00 | 49.01 | 56.51 | 64.01 | 79.01  |
| 13.98 | 15.48 | 16.98 | 18.48 | 19.99 | 21.49 | 22.99 | 24.49 | 26.49 | 29.00 | 31.50 | 34.00 | 36.50 | 41.50 | 46.50 | 54.00 | 61.50 | 76.50  |
| 18.26 | 19.76 | 21.26 | 22.76 | 24.26 | 25.76 | 27.26 | 28.75 | 30.76 | 33.26 | 35.76 | 38.26 | 40.77 | 45.76 | 50.76 | 58.26 | 65.76 | 80.76  |
| 17.00 | 18.50 | 20.00 | 21.50 | 23.00 | 24.50 | 26.01 | 27.50 | 29.51 | 32.01 | 34.51 | 37.01 | 39.51 | 44.51 | 49.51 | 57.01 | 64.51 | 79.51  |
| 15.74 | 17.24 | 18.74 | 20.24 | 21.75 | 23.18 | 24.75 | 26.25 | 28.25 | 30.75 | 33.25 | 35.75 | 38.25 | 43.25 | 48.25 | 55.76 | 63.25 | 78.26  |

### H Belt Width Table

| Belt Width Factor | .42 | .57 | .71 | .86 | 1.00 | 1.29  | 1.56  | 1.84  | 2.14 | 2.72  | 3.36 | 4.06  | 4.76 | 6.15 | 7.50 | 8.89 | 10.32 |
|-------------------|-----|-----|-----|-----|------|-------|-------|-------|------|-------|------|-------|------|------|------|------|-------|
| Belt Width        | 1/2 | 5/8 | 3/4 | 7/8 | 1    | 1-1/4 | 1-1/2 | 1-3/4 | 2    | 2-1/2 | 3    | 3-1/2 | 4    | 5    | 6    | 7    | 8     |
| Belt Width Code   | 050 | 062 | 075 | 087 | 100  | 125   | 150   | 175   | 200  | 250   | 300  | 350   | 400  | 500  | 600  | 700  | 800   |

Shaded area indicates stock belt widths.

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|



# SELECTION

## H Stock Drive Selections

|                             | Driven Speeds for Motor Speeds of |      |      | Speed Ratio | Pulley Combination |             |              |             | HP for a 1 Wide Belt for Motor Speeds of Δ |       |       | Nominal C.D. Using DYNA-SYNC Belts |      |       |       |       |       |       |       |
|-----------------------------|-----------------------------------|------|------|-------------|--------------------|-------------|--------------|-------------|--|-------|-------|------------------------------------|------|-------|-------|-------|-------|-------|-------|
|                             |                                   |      |      |             | Driver             |             | Driven       |             |  |       |       |                                    |      |       |       |       |       |       |       |
|                             | 3500                              | 1750 | 1160 |             | No. of Teeth       | Pitch Diam. | No. of Teeth | Pitch Diam. | 3500                                       | 1750  | 1160  | 240H                               | 270H | 300H  | 330H  | 360H  | 390H  | 420H  |       |
| FHP Drives                  | ...                               | 1167 | 773  | 1.50        | 48H                | 7.639       | 72H          | 11.459      | ...  | 13.84 | 9.55  | ...                                | ...  | ...   | ...   | ...   | ...   |       |       |
|                             | 2333                              | 1167 | 773  | 1.50        | 40H                | 6.366       | 60H          | 9.549       | 20.08                                      | 11.79 | 8.03  | ...                                | ...  | ...   | ...   | ...   | 8.35  |       |       |
|                             | 2333                              | 1167 | 773  | 1.50        | 32H                | 5.093       | 48H          | 7.639       | 17.40                                      | 9.60  | 6.48  | ...                                | ...  | ...   | 7.90  | 9.42  | 10.93 |       |       |
|                             | 2333                              | 1167 | 773  | 1.50        | 20H                | 3.183       | 30H          | 4.775       | 11.77◇                                     | 6.11  | 4.08  | 5.70                               | 7.21 | 8.72  | 10.23 | 11.73 | 13.24 | 14.74 |       |
|                             | ...                               | 1167 | 773  | 1.50        | 16H                | 2.546       | 24H          | 3.820       | ...  | 4.91◇ | 3.27◇ | 6.98                               | 8.48 | 9.99  | 11.49 | 12.99 | 14.50 | 16.00 |       |
| Drive Component Accessories | 2275                              | 1138 | 754  | 1.54        | 26H                | 4.138       | 40H          | 6.366       | 14.80                                      | 7.88  | 5.28  | ...                                | ...  | 6.66  | 8.18  | 9.69  | 11.20 | 12.71 |       |
|                             | 2250                              | 1125 | 746  | 1.56        | 18H                | 2.865       | 28H          | 4.456       | 10.71◇                                     | 5.52◇ | 3.68  | 6.21                               | 7.72 | 9.22  | 10.73 | 12.23 | 13.74 | 15.24 |       |
|                             | ...                               | ...  | 738  | 1.57        | 14H                | 2.228       | 22H          | 3.501       | ...  | ...   | 2.86◇ | 7.48                               | 8.99 | 10.49 | 11.99 | 13.50 | 15.00 | 16.50 |       |
|                             | 2188                              | 1094 | 725  | 1.60        | 30H                | 4.775       | 48H          | 7.639       | 16.59                                      | 9.03  | 6.08  | ...                                | ...  | ...   | 6.60  | 8.13  | 9.65  | 11.17 |       |
|                             | 2188                              | 1094 | 725  | 1.60        | 20H                | 3.183       | 32H          | 5.093       | 11.77◇                                     | 6.11  | 4.08  | 5.42                               | 6.94 | 8.45  | 9.96  | 11.47 | 12.97 | 14.48 |       |
| DYNA-SYNC                   | ...                               | 1077 | 714  | 1.63        | 16H                | 2.546       | 26H          | 4.138       | ...  | 4.91◇ | 3.27◇ | 6.71                               | 8.22 | 9.73  | 11.23 | 12.73 | 14.24 | 15.74 |       |
|                             | 2100                              | 1050 | 696  | 1.67        | 24H                | 3.820       | 40H          | 6.366       | 13.82                                      | 7.30  | 4.89  | ...                                | ...  | 6.89  | 8.41  | 9.93  | 11.44 | 12.95 |       |
|                             | 2100                              | 1050 | 696  | 1.67        | 18H                | 2.865       | 30H          | 4.775       | 10.71◇                                     | 5.52◇ | 3.68  | 5.93                               | 7.45 | 8.96  | 10.46 | 11.97 | 13.48 | 14.98 |       |
|                             | 2042                              | 1021 | 677  | 1.71        | 28H                | 4.456       | 48H          | 7.639       | 15.74                                      | 8.46  | 5.68  | ...                                | ...  | ...   | 6.82  | 8.35  | 9.88  | 11.40 |       |
|                             | ...                               | ...  | 677  | 1.71        | 14H                | 2.228       | 24H          | 3.820       | ...  | ...   | 2.86◇ | 7.22                               | 8.72 | 10.23 | 11.74 | 13.24 | 14.74 | 16.24 |       |
| Synchronous Drives          | ...                               | 1000 | 663  | 1.75        | 48H                | 7.639       | 84H          | 13.369      | ...  | 13.84 | 9.55  | ...                                | ...  | ...   | ...   | ...   | ...   | ...   |       |
|                             | ...                               | 1000 | 663  | 1.75        | 16H                | 2.546       | 28H          | 4.456       | ...  | 4.91◇ | 3.27◇ | 6.44                               | 7.95 | 9.46  | 10.97 | 12.47 | 13.98 | 15.48 |       |
|                             | 1969                              | 985  | 652  | 1.78        | 18H                | 2.865       | 32H          | 5.093       | 10.71◇                                     | 5.52◇ | 3.68  | 5.65                               | 7.17 | 8.69  | 10.20 | 11.71 | 13.21 | 14.72 |       |
|                             | 1944                              | 972  | 644  | 1.80        | 40H                | 6.366       | 72H          | 11.459      | 20.08                                      | 11.79 | 8.03  | ...                                | ...  | ...   | ...   | ...   | ...   | ...   |       |
|                             | 1925                              | 963  | 638  | 1.82        | 22H                | 3.501       | 40H          | 6.366       | 12.84                                      | 6.71  | 4.48  | ...                                | 5.57 | 7.11  | 8.64  | 10.16 | 11.67 | 13.18 |       |
| HT200/HTD                   | 1896                              | 948  | 628  | 1.85        | 26H                | 4.138       | 48H          | 7.639       | 14.80                                      | 7.88  | 5.28  | ...                                | ...  | ...   | 7.04  | 8.58  | 10.11 | 11.63 |       |
|                             | ...                               | ...  | 625  | 1.86        | 14H                | 2.226       | 26H          | 4.138       | ...  | ...   | 2.86◇ | 6.94                               | 8.45 | 9.96  | 11.47 | 12.97 | 14.48 | 15.98 |       |
|                             | 1867                              | 933  | 619  | 1.88        | 32H                | 5.093       | 60H          | 9.549       | 17.40                                      | 9.60  | 6.48  | ...                                | ...  | ...   | ...   | ...   | 7.68  | 9.24  |       |
|                             | ...                               | 933  | 619  | 1.88        | 16H                | 2.546       | 30H          | 4.775       | ...  | 4.91◇ | 3.27◇ | 6.16                               | 7.68 | 9.19  | 10.70 | 12.21 | 13.71 | 15.22 |       |
|                             | ...                               | 875  | 580  | 2.00        | 48H                | 7.639       | 96H          | 15.279      | ...  | 13.84 | 9.55  | ...                                | ...  | ...   | ...   | ...   | ...   | ...   |       |
| HT500                       | 1750                              | 875  | 580  | 2.00        | 30H                | 4.775       | 60H          | 9.549       | 16.59                                      | 9.03  | 6.08  | ...                                | ...  | ...   | ...   | 7.89  | 9.45  |       |       |
|                             | 1750                              | 875  | 580  | 2.00        | 24H                | 3.820       | 48H          | 7.639       | 13.82                                      | 7.30  | 4.89  | ...                                | ...  | ...   | 7.25  | 8.80  | 10.33 | 11.85 |       |
|                             | 1750                              | 875  | 580  | 2.00        | 20H                | 3.183       | 40H          | 6.366       | 11.77◇                                     | 6.11  | 4.08  | ...                                | ...  | ...   | 7.33  | 8.86  | 10.39 | 11.90 | 13.41 |
|                             | ...                               | 875  | 580  | 2.00        | 16H                | 2.546       | 32H          | 5.093       | ...  | 4.91◇ | 3.27◇ | 5.87                               | 7.40 | 8.92  | 10.43 | 11.94 | 13.45 | 14.96 |       |
|                             | ...                               | ...  | 580  | 2.00        | 14H                | 2.228       | 28H          | 4.456       | ...  | ...   | 2.66◇ | 6.67                               | 8.18 | 9.69  | 11.20 | 12.71 | 14.22 | 15.72 |       |
| Synchronous Drives          | 1667                              | 833  | 552  | 2.10        | 40H                | 6.366       | 84H          | 13.369      | 20.08                                      | 11.79 | 8.03  | ...                                | ...  | ...   | ...   | ...   | ...   | ...   |       |
|                             | 1633                              | 817  | 541  | 2.14        | 28H                | 4.456       | 60H          | 9.549       | 15.74                                      | 8.46  | 5.68  | ...                                | ...  | ...   | ...   | ...   | 8.10  | 9.67  |       |
|                             | ...                               | ...  | 541  | 2.14        | 14H                | 2.228       | 30H          | 4.775       | ...  | ...   | 2.86◇ | 6.38                               | 7.90 | 9.42  | 10.94 | 12.44 | 13.95 | 15.46 |       |
|                             | 1604                              | 802  | 532  | 2.18        | 22H                | 3.501       | 48H          | 7.639       | 12.84                                      | 6.71  | 4.48  | ...                                | ...  | ...   | 7.47  | 9.02  | 10.55 | 12.08 |       |
|                             | 1575                              | 788  | 522  | 2.22        | 18H                | 2.865       | 40H          | 6.366       | 10.71◇                                     | 5.52◇ | 3.68  | ...                                | 6.00 | 7.55  | 9.09  | 10.61 | 12.13 | 13.65 |       |
| Synchronous Drives          | 1556                              | 778  | 516  | 2.25        | 32H                | 5.093       | 72H          | 11.459      | 17.40                                      | 9.60  | 6.48  | ...                                | ...  | ...   | ...   | ...   | ...   | ...   |       |
|                             | ...                               | ...  | 507  | 2.29        | 14H                | 2.228       | 32H          | 5.093       | ...  | ...   | 2.86◇ | 6.09                               | 7.62 | 9.15  | 10.66 | 12.18 | 13.68 | 15.19 |       |
|                             | 1517                              | 758  | 503  | 2.31        | 26H                | 4.138       | 60H          | 9.549       | 14.80                                      | 7.88  | 5.28  | ...                                | ...  | ...   | ...   | ...   | 8.31  | 9.88  |       |
|                             | 1458                              | 729  | 483  | 2.40        | 40H                | 6.366       | 96H          | 15.279      | 20.08                                      | 11.79 | 8.03  | ...                                | ...  | ...   | ...   | ...   | ...   | ...   |       |
|                             | 1458                              | 729  | 483  | 2.40        | 30H                | 4.775       | 72H          | 11.459      | 16.59                                      | 9.03  | 6.08  | ...                                | ...  | ...   | ...   | ...   | ...   | ...   |       |
| Roller Chain Sprockets      | 1458                              | 729  | 483  | 2.40        | 20H                | 3.183       | 48H          | 7.639       | 11.77◇                                     | 6.11  | 4.08  | ...                                | ...  | 6.09  | 7.68  | 9.24  | 10.78 | 12.31 |       |
|                             | ...                               | 700  | 464  | 2.50        | 48H                | 7.639       | 120H         | 19.099      | ...  | 13.84 | 9.55  | ...                                | ...  | ...   | ...   | ...   | ...   | ...   |       |
|                             | 1400                              | 700  | 464  | 2.50        | 24H                | 3.820       | 60H          | 9.549       | 13.82                                      | 7.30  | 4.89  | ...                                | ...  | ...   | ...   | ...   | 8.52  | 10.10 |       |
|                             | ...                               | 700  | 464  | 2.50        | 16H                | 2.546       | 40H          | 6.366       | ...  | 4.91◇ | 3.27◇ | ...                                | 6.21 | 7.77  | 9.31  | 10.84 | 12.36 | 13.88 |       |
|                             | 1361                              | 681  | 451  | 2.57        | 28H                | 4.456       | 72H          | 11.459      | 15.74                                      | 8.46  | 5.68  | ...                                | ...  | ...   | ...   | ...   | ...   | ...   |       |
| 1333                        | 667                               | 442  | 2.63 | 32H         | 5.093              | 84H         | 13.369       | 17.40       | 9.60                                       | 6.48  | ...   | ...                                | ...  | ...   | ...   | ...   | ...   |       |       |

Δ HP ratings are for conventional speed-reduction drives.

♥ Flanges Required on both pulleys.

For Speed-Up Drives refer to page PT10-17.

◇ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|



## H Stock Drive Selections

Nominal Center Distance Using DYNA-SYNC Belts

| 450H  | 480H  | 510H  | 540H  | 570H  | 600H  | 630H  | 660H  | 700H  | 750H  | 800H  | 850H   | 900H   | 1000H  | 1100H  | 1250H   | 1400H  | 1700H  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|---------|--------|--------|
| ....  | ....  | 10.33 | 11.85 | 13.37 | 14.88 | 16.40 | 17.91 | 19.92 | 22.43 | 24.94 | 27.44  | 29.95  | 34.96  | 39.96  | 47.47   | 54.98  | 69.99♥ |
| 9.88  | 11.40 | 12.91 | 14.42 | 15.93 | 17.44 | 18.94 | 20.45 | 22.45 | 24.96 | 27.46 | 29.97  | 32.47  | 37.48  | 42.48  | 49.98   | 57.49♥ | 72.49♥ |
| 12.44 | 13.95 | 15.46 | 16.97 | 18.47 | 19.97 | 21.47 | 22.97 | 24.98 | 27.48 | 29.98 | 32.49  | 34.99  | 39.99  | 44.99  | 52.50   | 60.00  | 74.99  |
| 16.24 | 17.74 | 19.24 | 20.75 | 22.25 | 23.75 | 25.25 | 26.75 | 28.75 | 31.25 | 33.75 | 36.25  | 38.75  | 43.76  | 48.76  | 56.27   | 63.75  | 78.76  |
| 17.50 | 19.00 | 20.50 | 22.00 | 23.50 | 25.00 | 26.50 | 28.00 | 30.01 | 32.51 | 35.01 | 37.50  | 40.01  | 45.02  | 50.01  | 57.51   | 65.01  | 80.01  |
| 14.21 | 15.72 | 17.22 | 18.73 | 20.23 | 21.73 | 23.23 | 24.74 | 26.74 | 29.24 | 31.74 | 34.24  | 36.75  | 41.75  | 46.75  | 54.25   | 61.75  | 76.75  |
| 16.74 | 18.24 | 19.75 | 21.25 | 22.75 | 24.25 | 25.75 | 27.25 | 29.25 | 31.75 | 34.25 | 36.49  | 39.25  | 44.26  | 49.25  | 56.75   | 64.26  | 79.26  |
| 18.00 | 19.50 | 21.00 | 22.50 | 24.00 | 25.50 | 27.01 | 28.50 | 30.51 | 33.01 | 35.51 | 38.01  | 40.51  | 45.51  | 50.50  | 58.02   | 65.51  | 80.51  |
| 12.68 | 14.19 | 15.69 | 17.20 | 18.70 | 20.21 | 21.71 | 23.22 | 25.22 | 27.72 | 30.23 | 32.13  | 35.23  | 40.24  | 45.24  | 52.74   | 60.25  | 75.25  |
| 15.98 | 17.48 | 18.99 | 20.49 | 21.99 | 23.49 | 24.99 | 26.49 | 28.50 | 31.00 | 33.50 | 36.00  | 38.50  | 43.50  | 48.50  | 56.00   | 63.52  | 78.51  |
| 17.24 | 18.74 | 20.25 | 21.75 | 23.18 | 24.75 | 26.25 | 27.75 | 29.75 | 32.25 | 34.75 | 37.25  | 39.76  | 44.76  | 49.76  | 57.25   | 64.76  | 79.77  |
| 14.45 | 15.96 | 17.46 | 18.97 | 20.47 | 21.97 | 23.48 | 24.98 | 26.98 | 29.48 | 31.99 | 34.49  | 36.99  | 41.99  | 47.00  | 54.50   | 62.00  | 77.01  |
| 16.48 | 17.96 | 19.49 | 20.99 | 22.49 | 23.99 | 25.49 | 26.99 | 29.00 | 31.50 | 34.00 | 36.50  | 39.00  | 44.00  | 49.00  | 56.51   | 64.01  | 79.01  |
| 12.91 | 14.42 | 15.93 | 17.44 | 18.94 | 20.45 | 21.95 | 23.46 | 25.46 | 27.97 | 30.47 | 32.97  | 35.48  | 40.48  | 45.48  | 52.99   | 60.49  | 75.49  |
| 17.74 | 19.24 | 20.75 | 22.25 | 23.75 | 25.25 | 26.75 | 28.25 | 30.25 | 32.75 | 35.25 | 37.75  | 40.25  | 45.26  | 50.27  | 57.76   | 65.25  | 80.26  |
| ....  | ....  | ....  | ....  | 11.65 | 13.19 | 14.73 | 16.25 | 18.28 | 20.81 | 23.33 | 25.85  | 28.34  | 33.39  | 38.40  | 45.92   | 53.43  | 68.45♥ |
| 16.98 | 18.49 | 19.99 | 21.49 | 22.99 | 24.49 | 26.00 | 27.49 | 29.50 | 32.00 | 34.50 | 37.00  | 39.50  | 44.50  | 49.50  | 57.01   | 64.50  | 79.51  |
| 16.22 | 17.73 | 19.23 | 20.73 | 22.23 | 23.73 | 25.24 | 26.74 | 28.74 | 31.24 | 33.74 | 36.24  | 38.75  | 43.75  | 48.75  | 56.25   | 63.75  | 78.77  |
| ....  | 9.67  | 11.22 | 12.75 | 14.28 | 25.81 | 17.32 | 18.84 | 20.85 | 23.37 | 25.88 | 28.40  | 30.90  | 35.92  | 40.93  | 48.44   | 55.95♥ | 70.97♥ |
| 14.69 | 16.20 | 17.70 | 19.21 | 20.71 | 22.21 | 23.72 | 25.22 | 27.22 | 29.73 | 32.23 | 34.73  | 37.23  | 42.24  | 47.24  | 54.74   | 62.25  | 77.25  |
| 13.14 | 14.65 | 16.16 | 17.67 | 19.18 | 20.68 | 22.19 | 23.69 | 25.70 | 28.21 | 30.71 | 33.21  | 35.72  | 40.72  | 45.73  | 53.24   | 60.74  | 75.74  |
| 17.49 | 18.99 | 20.49 | 21.99 | 23.49 | 24.99 | 26.49 | 27.99 | 30.00 | 32.50 | 35.00 | 37.50  | 40.00  | 45.00  | 50.00  | 57.50   | 65.00  | 80.01  |
| 10.78 | 12.31 | 13.83 | 15.35 | 16.86 | 18.37 | 19.88 | 21.39 | 23.40 | 25.91 | 28.42 | 30.93  | 33.44  | 38.45  | 43.45♥ | 50.96♥♥ | 58.47♥ | 73.48♥ |
| 16.72 | 18.23 | 19.73 | 21.23 | 22.73 | 24.24 | 25.74 | 27.24 | 29.24 | 31.74 | 34.24 | 36.75  | 39.25  | 44.25  | 49.25  | 56.15   | 64.14  | 79.25  |
| ....  | ....  | ....  | ....  | ....  | ....  | 12.94 | 14.50 | 16.56 | 19.12 | 21.67 | 24.21  | 26.74  | 31.78  | 36.81  | 44.35   | 51.87  | 66.90  |
| 11.00 | 12.53 | 14.06 | 15.58 | 17.09 | 18.61 | 20.35 | 21.63 | 23.64 | 26.15 | 28.66 | 31.17  | 33.68  | 38.69♥ | 43.70♥ | 51.21♥  | 58.71♥ | 73.73♥ |
| 13.37 | 14.89 | 16.40 | 17.91 | 19.42 | 20.92 | 22.43 | 23.93 | 25.94 | 28.45 | 30.95 | 33.46  | 35.96  | 40.97  | 45.97  | 53.48   | 60.98  | 75.99  |
| 14.92 | 16.43 | 17.94 | 19.45 | 20.95 | 22.45 | 23.96 | 25.46 | 27.47 | 29.97 | 32.47 | 34.97  | 37.48  | 42.48  | 47.48  | 54.99   | 62.49  | 77.50  |
| 16.46 | 17.97 | 19.47 | 20.87 | 22.48 | 23.98 | 25.48 | 26.98 | 28.99 | 31.48 | 33.99 | 36.49  | 38.99  | 43.99  | 49.00  | 56.50   | 64.00  | 79.01  |
| 17.22 | 18.73 | 20.23 | 21.73 | 23.23 | 24.74 | 26.24 | 27.74 | 29.74 | 32.24 | 34.74 | 37.25  | 39.75  | 44.75  | 49.75  | 57.25   | 64.75  | 79.75  |
| ....  | ....  | ....  | 10.94 | 12.51 | 14.07 | 15.61 | 17.15 | 19.19 | 21.73 | 24.26 | 26.78  | 29.30  | 34.33  | 39.35  | 46.88   | 54.40♥ | 69.42♥ |
| 11.21 | 12.75 | 14.28 | 15.80 | 17.32 | 16.64 | 20.35 | 21.86 | 23.87 | 26.39 | 28.90 | 31.41  | 33.91  | 38.93♥ | 43.94♥ | 51.45♥  | 58.95♥ | 73.97♥ |
| 16.96 | 18.47 | 19.97 | 21.47 | 22.98 | 24.46 | 25.98 | 27.48 | 29.48 | 31.99 | 34.49 | 36.99  | 39.49  | 44.49  | 49.50  | 57.01   | 64.50  | 79.50  |
| 13.60 | 15.12 | 16.66 | 18.14 | 19.65 | 21.16 | 22.67 | 24.17 | 26.18 | 28.69 | 31.19 | 33.70  | 36.20  | 41.21  | 46.22  | 53.72   | 61.23  | 76.24  |
| 15.16 | 16.67 | 18.18 | 19.68 | 21.19 | 22.69 | 24.20 | 25.70 | 27.71 | 30.21 | 32.71 | 35.22  | 37.72  | 42.73  | 47.73  | 55.23   | 62.74  | 77.74  |
| 8.93  | 10.52 | 12.08 | 13.63 | 15.17 | 16.70 | 18.23 | 19.75 | 21.78 | 24.30 | 26.82 | 29.34  | 31.85  | 36.87  | 41.89♥ | 49.41♥  | 56.92♥ | 71.94♥ |
| 16.70 | 18.20 | 19.70 | 21.21 | 22.72 | 24.22 | 25.72 | 27.22 | 29.23 | 31.73 | 34.23 | 36.73  | 39.24  | 44.24  | 49.24  | 56.75   | 64.25  | 79.25  |
| 11.44 | 12.97 | 14.51 | 16.03 | 17.55 | 19.07 | 20.58 | 22.09 | 24.11 | 26.62 | 29.13 | 31.64  | 34.15♥ | 39.17♥ | 44.18♥ | 51.69♥  | 59.20♥ | 74.21♥ |
| ....  | ....  | ....  | ....  | ....  | 12.18 | 13.78 | 15.35 | 17.43 | 20.01 | 22.57 | 25.11  | 27.65  | 32.71  | 37.75  | 45.29   | 52.82♥ | 67.87♥ |
| 9.14  | 10.76 | 12.30 | 13.85 | 15.39 | 16.93 | 18.45 | 19.98 | 22.01 | 24.53 | 27.05 | 29.57  | 32.09  | 37.11  | 42.13♥ | 49.65♥  | 57.16♥ | 72.19♥ |
| 13.83 | 15.35 | 16.86 | 18.37 | 19.89 | 21.39 | 22.90 | 24.41 | 26.42 | 28.92 | 31.43 | 33.94  | 36.44  | 41.45  | 46.46  | 53.97   | 61.47  | 76.48  |
| ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | ....  | 15.43 | 18.09 | 20.71  | 23.30  | 28.43  | 33.52  | 41.11   | 48.67  | 63.75♥ |
| 11.65 | 13.20 | 14.73 | 16.25 | 17.77 | 19.30 | 20.81 | 22.33 | 24.34 | 26.86 | 29.37 | 31.88♥ | 34.39♥ | 39.41♥ | 44.42♥ | 51.93♥  | 59.44♥ | 74.46♥ |
| 15.39 | 16.90 | 18.41 | 19.92 | 21.43 | 22.93 | 24.44 | 25.94 | 27.95 | 30.45 | 32.96 | 35.46  | 37.97  | 42.97  | 47.97  | 55.48   | 62.98  | 77.99  |
| 9.34  | 10.94 | 12.51 | 14.07 | 15.61 | 17.15 | 18.68 | 20.20 | 22.23 | 24.76 | 27.28 | 29.80  | 32.32  | 37.35♥ | 42.37♥ | 49.89♥  | 57.40♥ | 72.43♥ |
| ....  | ....  | 10.15 | 11.77 | 13.36 | 14.93 | 16.49 | 18.03 | 20.08 | 22.63 | 25.17 | 27.70  | 30.23  | 35.22  | 40.30  | 47.83♥  | 55.36♥ | 70.39♥ |

### H Belt Width Table

| Belt Width Factor | .42 | .57 | .71 | .86 | 1.00 | 1.29  | 1.56  | 1.84  | 2.14 | 2.72  | 3.36 | 4.06  | 4.76 | 6.15 | 7.50 | 8.89 | 10.32 |
|-------------------|-----|-----|-----|-----|------|-------|-------|-------|------|-------|------|-------|------|------|------|------|-------|
| Belt Width        | 1/2 | 5/8 | 3/4 | 7/8 | 1    | 1-1/4 | 1-1/2 | 1-3/4 | 2    | 2-1/2 | 3    | 3-1/2 | 4    | 5    | 6    | 7    | 8     |
| Belt Width Code   | 050 | 062 | 075 | 087 | 100  | 125   | 150   | 175   | 200  | 250   | 300  | 350   | 400  | 500  | 600  | 700  | 800   |

Shaded area indicates stock belt widths.

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|



# SELECTION

## H Stock Drive Selections

|                              | Driven Speeds for Motor Speeds of |      |      | Speed Ratio | Pulley Combination |             |              |             | HP for a 1 Wide Belt for Motor Speeds of Δ |       |       | Nominal C.D. Using DYNA-SYNC Belts |       |       |       |       |        |        |
|------------------------------|-----------------------------------|------|------|-------------|--------------------|-------------|--------------|-------------|--|-------|-------|------------------------------------|-------|-------|-------|-------|--------|--------|
|                              |                                   |      |      |             | Driver             |             | Driven       |             |  |       |       |                                    |       |       |       |       |        |        |
|                              | 3500                              | 1750 | 1160 |             | No. of Teeth       | Pitch Diam. | No. of Teeth | Pitch Diam. | 3500                                       | 1750  | 1160  | 240H                               | 270H  | 300H  | 330H  | 360H  | 390H   | 420H   |
| FHP Drives                   | 1312                              | 656  | 435  | 2.67        | 18H                | 2.865       | 48H          | 7.639       | 10.71◇                                     | 5.52◇ | 3.68  | ...                                | ...   | 6.30  | 7.89  | 9.45  | 11.00  | 12.53  |
|                              | 1283                              | 642  | 425  | 2.73        | 22H                | 3.501       | 60H          | 9.549       | 12.84                                      | 6.71  | 4.48  | ...                                | ...   | ...   | ...   | 7.10  | 8.73   | 10.31  |
|                              | 1264                              | 632  | 419  | 2.77        | 26H                | 4.138       | 72H          | 11.459      | 14.80                                      | 7.88  | 5.28  | ...                                | ...   | ...   | ...   | ...   | ...    | ...    |
|                              | 1250                              | 625  | 414  | 2.80        | 30H                | 4.775       | 84H          | 13.369      | 16.59                                      | 9.03  | 6.08  | ...                                | ...   | ...   | ...   | ...   | ...    | ...    |
|                              | ...                               | ...  | 406  | 2.86        | 14H                | 2.228       | 40H          | 6.366       | ...  | ...   | 2.86◇ | 4.80†                              | 6.42† | 7.99† | 9.53  | 11.06 | 12.59  | 14.11  |
|                              | 1167                              | 583  | 387  | 3.00        | 40H                | 6.366       | 120H         | 19.099      | 20.08                                      | 11.79 | 8.03  | ...                                | ...   | ...   | ...   | ...   | ...    | ...    |
|                              | 1167                              | 583  | 387  | 3.00        | 32H                | 5.093       | 96H          | 15.279      | 17.40                                      | 9.60  | 6.48  | ...                                | ...   | ...   | ...   | ...   | ...    | ...    |
|                              | 1167                              | 583  | 387  | 3.00        | 28H                | 4.456       | 84H          | 13.369      | 15.74                                      | 8.46  | 5.68  | ...                                | ...   | ...   | ...   | ...   | ...    | ...    |
|                              | 1167                              | 583  | 387  | 3.00        | 24H                | 3.820       | 72H          | 11.459      | 13.82                                      | 7.30  | 4.89  | ...                                | ...   | ...   | ...   | ...   | ...    | 8.08   |
|                              | 1167                              | 583  | 387  | 3.00        | 20H                | 3.183       | 60H          | 9.549       | 11.77◇                                     | 6.11  | 4.08  | ...                                | ...   | ...   | ...   | 7.30  | 8.93   | 10.52  |
| Drive Component Accessories  | ...                               | 583  | 387  | 3.00        | 16H                | 2.546       | 48H          | 7.639       | ...  | 4.91◇ | 3.27◇ | ...                                | ...   | 6.50  | 8.10  | 9.67  | 11.22  | 12.75  |
|                              | 1094                              | 547  | 363  | 3.20        | 30H                | 4.775       | 96H          | 15.279      | 16.59                                      | 9.03  | 6.08  | ...                                | ...   | ...   | ...   | ...   | ...    | ...    |
|                              | 1084                              | 542  | 359  | 3.23        | 26H                | 4.138       | 84H          | 13.369      | 14.80                                      | 7.88  | 5.28  | ...                                | ...   | ...   | ...   | ...   | ...    | ...    |
|                              | 1069                              | 535  | 354  | 3.27        | 22H                | 3.501       | 72H          | 11.459      | 12.84                                      | 6.71  | 4.48  | ...                                | ...   | ...   | ...   | ...   | ...    | 8.28   |
|                              | 1050                              | 525  | 348  | 3.33        | 18H                | 2.865       | 60H          | 9.549       | 10.71◇                                     | 5.52◇ | 3.68  | ...                                | ...   | ...   | ...   | 7.50  | 9.14   | 10.77  |
|                              | 1021                              | 510  | 338  | 3.43        | 28H                | 4.456       | 96H          | 15.279      | 15.74                                      | 8.46  | 5.68  | ...                                | ...   | ...   | ...   | ...   | ...    | ...    |
|                              | ...                               | ...  | 338  | 3.43        | 14H                | 2.228       | 48H          | 7.639       | ...  | ...   | 2.86◇ | ...                                | ...   | 6.70† | 8.95† | 9.88† | 11.44† | 12.98  |
|                              | 1000                              | 500  | 331  | 3.50        | 24H                | 3.820       | 84H          | 13.369      | 13.82                                      | 7.30  | 4.89  | ...                                | ...   | ...   | ...   | ...   | ...    | ...    |
|                              | 972                               | 486  | 322  | 3.60        | 20H                | 3.183       | 72H          | 11.459      | 11.77◇                                     | 6.11  | 4.08  | ...                                | ...   | ...   | ...   | ...   | ...    | 8.47   |
|                              | 948                               | 474  | 314  | 3.69        | 26H                | 4.138       | 96H          | 15.279      | 14.80                                      | 7.88  | 5.28  | ...                                | ...   | ...   | ...   | ...   | ...    | ...    |
| DYNA-SYNC                    | 933                               | 467  | 309  | 3.75        | 32H                | 5.093       | 120H         | 19.099      | 17.40                                      | 9.60  | 6.48  | ...                                | ...   | ...   | ...   | ...   | ...    | ...    |
|                              | ...                               | 467  | 309  | 3.75        | 16H                | 2.546       | 60H          | 9.549       | ...  | 4.91◇ | 3.27◇ | ...                                | ...   | ...   | ...   | 7.69† | 9.34†  | 10.94  |
|                              | 916                               | 458  | 304  | 3.82        | 22H                | 3.501       | 84H          | 13.369      | 12.84                                      | 6.71  | 4.48  | ...                                | ...   | ...   | ...   | ...   | ...    | ...    |
|                              | 875                               | 438  | 290  | 4.00        | 30H                | 4.775       | 120H         | 19.099      | 16.59                                      | 9.03  | 6.08  | ...                                | ...   | ...   | ...   | ...   | ...    | ...    |
|                              | 875                               | 438  | 290  | 4.00        | 24H                | 3.820       | 96H          | 15.279      | 13.82                                      | 7.30  | 4.89  | ...                                | ...   | ...   | ...   | ...   | ...    | ...    |
|                              | 875                               | 438  | 290  | 4.00        | 18H                | 2.865       | 72H          | 11.459      | 10.71◇                                     | 5.52◇ | 3.68  | ...                                | ...   | ...   | ...   | ...   | ...    | 8.67   |
|                              | 833                               | 417  | 276  | 4.20        | 20H                | 3.183       | 84H          | 13.369      | 11.77◇                                     | 6.11  | 4.08  | ...                                | ...   | ...   | ...   | ...   | ...    | ...    |
|                              | 817                               | 408  | 271  | 4.29        | 28H                | 4.456       | 120H         | 19.099      | 15.74                                      | 8.46  | 5.68  | ...                                | ...   | ...   | ...   | ...   | ...    | ...    |
|                              | ...                               | ...  | 271  | 4.29        | 14H                | 2.228       | 60H          | 9.549       | ...  | ...   | 2.86◇ | ...                                | ...   | ...   | 6.12† | 7.89† | 9.55†  | 11.15† |
|                              | 802                               | 401  | 266  | 4.36        | 22H                | 3.501       | 96H          | 15.279      | 12.84                                      | 6.71  | 4.48  | ...                                | ...   | ...   | ...   | ...   | ...    | ...    |
|                              | ...                               | 389  | 258  | 4.50        | 16H                | 2.546       | 72H          | 11.459      | ...  | 4.91◇ | 3.27◇ | ...                                | ...   | ...   | ...   | ...   | ...    | 8.86†  |
|                              | 758                               | 379  | 251  | 4.62        | 26H                | 4.138       | 120H         | 19.099      | 14.80                                      | 7.88  | 5.28  | ...                                | ...   | ...   | ...   | ...   | ...    | ...    |
|                              | 749                               | 375  | 248  | 4.67        | 18H                | 2.865       | 84H          | 13.369      | 10.71◇                                     | 5.52  | 3.68  | ...                                | ...   | ...   | ...   | ...   | ...    | ...    |
|                              | 729                               | 365  | 242  | 4.80        | 20H                | 3.183       | 96H          | 15.279      | 11.77◇                                     | 6.11  | 4.08  | ...                                | ...   | ...   | ...   | ...   | ...    | ...    |
|                              | 700                               | 350  | 232  | 5.00        | 24H                | 3.820       | 120H         | 19.099      | 13.82                                      | 7.30  | 4.89  | ...                                | ...   | ...   | ...   | ...   | ...    | ...    |
| HT200/HTD Synchronous Drives | ...                               | ...  | 226  | 5.14        | 14H                | 2.228       | 72H          | 11.459      | ...  | ...   | 2.86◇ | ...                                | ...   | ...   | ...   | ...   | 7.22§  | 9.05†  |
|                              | ...                               | 333  | 221  | 5.25        | 16H                | 2.546       | 84H          | 13.369      | ...  | 4.91◇ | 3.27◇ | ...                                | ...   | ...   | ...   | ...   | ...    | ...    |
|                              | 656                               | 323  | 217  | 5.33        | 18H                | 2.865       | 96H          | 15.279      | 10.71◇                                     | 5.52◇ | 3.68  | ...                                | ...   | ...   | ...   | ...   | ...    | ...    |
|                              | 642                               | 321  | 213  | 5.45        | 22H                | 3.501       | 120H         | 19.099      | 12.84                                      | 6.71  | 4.48  | ...                                | ...   | ...   | ...   | ...   | ...    | ...    |
|                              | 583                               | 294  | 193  | 6.00        | 20H                | 3.183       | 120H         | 19.099      | 11.77◇                                     | 6.11  | 4.08  | ...                                | ...   | ...   | ...   | ...   | ...    | ...    |
| Synchronous Drives           | ...                               | 292  | 193  | 6.00        | 16H                | 2.546       | 96H          | 15.219      | ...  | 4.91◇ | 3.27◇ | ...                                | ...   | ...   | ...   | ...   | ...    | ...    |
|                              | ...                               | ...  | 193  | 6.00        | 14H                | 2.228       | 84H          | 13.369      | ...  | ...   | 2.86◇ | ...                                | ...   | ...   | ...   | ...   | ...    | ...    |
|                              | 525                               | 262  | 174  | 6.67        | 18H                | 2.865       | 120H         | 19.099      | 10.71◇                                     | 5.52◇ | 3.68◇ | ...                                | ...   | ...   | ...   | ...   | ...    | ...    |
|                              | ...                               | ...  | 169  | 6.86        | 14H                | 2.228       | 96H          | 15.279      | ...  | ...   | 3.27◇ | ...                                | ...   | ...   | ...   | ...   | ...    | ...    |
|                              | ...                               | 233  | 155  | 7.50        | 16H                | 2.546       | 120H         | 19.099      | ...  | 4.91◇ | 2.86◇ | ...                                | ...   | ...   | ...   | ...   | ...    | ...    |
| HT500 Synchronous Drives     | ...                               | ...  | 135  | 8.57        | 14H                | 2.228       | 120H         | 19.099      | ...  | ...   | ...   | ...                                | ...   | ...   | ...   | ...   | ...    | ...    |

Δ HP ratings are for conventional speed-reduction drives.

For Speed-Up Drives refer to page PT10-17.

◇ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

† ‡ § See Teeth in Mesh table on opposite page.

♥ Flanges Required on both pulleys.

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|



## H Stock Drive Selections

Nominal Center Distance Using DYNA-SYNC Belts

| 450H   | 480H   | 510H   | 540H   | 570H   | 600H    | 630H    | 660H    | 700H    | 750H    | 800H    | 850H    | 900H    | 1000H   | 1100H  | 1250H  | 1400H  | 1700H  |
|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 14.06  | 15.58  | 17.09  | 18.61  | 20.35  | 21.63   | 23.14   | 24.64   | 26.65   | 29.16   | 31.67   | 34.18   | 36.68   | 41.69   | 46.70  | 54.21  | 61.71  | 76.73  |
| 11.87  | 13.42  | 14.95  | 16.48  | 18.00  | 19.52   | 21.04   | 22.56   | 24.58   | 27.09   | 29.61♥  | 32.12♥  | 34.63♥  | 39.65♥  | 44.66♥ | 52.17♥ | 56.69♥ | 74.70♥ |
| 9.55   | 11.15  | 12.73  | 14.29  | 15.83  | 17.37   | 18.90   | 20.43   | 22.46   | 24.99   | 27.52   | 30.04   | 32.55   | 37.58♥  | 42.60♥ | 50.13♥ | 57.64♥ | 72.67♥ |
| ....   | ....   | 10.35  | 11.98  | 13.57  | 15.14   | 16.70   | 18.25   | 20.30   | 22.85   | 25.39   | 27.95   | 30.46   | 35.50   | 40.53♥ | 48.07♥ | 55.59♥ | 70.63♥ |
| 15.62  | 17.13  | 18.65  | 20.15  | 21.66  | 23.17   | 23.67   | 26.18   | 28.19   | 30.69   | 33.20   | 35.70   | 38.21   | 43.21   | 48.22  | 55.72  | 63.23  | 78.24  |
| ....   | ....   | ....   | ....   | ....   | ....    | ....    | ....    | 13.47   | 16.24   | 18.92   | 21.56   | 24.16   | 29.31   | 34.42  | 42.03  | 49.60  | 64.70♥ |
| ....   | ....   | ....   | ....   | 11.34  | 12.99   | 14.81   | 16.20   | 18.29   | 20.88   | 23.45   | 26.01   | 28.55   | 33.62   | 38.67  | 46.23♥ | 53.77♥ | 68.62♥ |
| ....   | ....   | 10.55  | 12.18  | 13.78  | 15.36   | 16.92   | 18.47   | 20.52   | 23.08   | 25.62   | 28.16   | 30.69   | 35.73♥  | 40.77♥ | 48.31♥ | 55.83♥ | 70.87♥ |
| 9.75   | 11.36  | 12.94  | 14.50  | 16.05  | 17.59   | 19.13   | 20.65   | 22.69   | 26.22   | 27.75   | 30.27   | 32.79♥  | 37.82♥  | 42.84♥ | 50.37♥ | 57.88♥ | 72.91♥ |
| 12.09  | 13.63  | 15.17  | 16.70  | 18.23  | 19.75   | 21.27   | 22.79   | 24.81   | 27.32♥  | 29.84♥  | 32.35♥  | 38.87♥  | 39.88♥  | 44.90♥ | 52.42♥ | 59.93♥ | 94.95♥ |
| 14.28  | 15.80  | 17.32  | 18.84  | 20.35  | 21.86   | 23.37   | 24.88   | 26.89   | 29.40   | 31.91   | 34.42   | 36.92   | 41.93   | 46.94  | 54.45  | 81.96  | 76.97  |
| ....   | ....   | ....   | ....   | 11.54  | 13.20   | 14.81   | 16.41   | 18.51   | 21.10   | 23.67   | 26.23   | 28.79   | 33.85   | 38.90♥ | 46.46♥ | 54.00♥ | 69.06♥ |
| ....   | 9.05   | 10.75  | 12.39  | 13.99  | 15.57   | 17.13   | 18.68   | 20.74   | 23.30   | 25.85   | 28.38   | 30.91   | 35.96♥  | 41.00♥ | 48.54♥ | 56.07♥ | 71.11♥ |
| 9.95   | 11.56  | 13.15  | 14.72  | 16.27  | 17.81   | 19.35   | 20.88   | 22.91   | 25.45   | 27.98   | 30.50♥  | 33.02♥  | 38.05♥  | 43.08♥ | 50.61♥ | 58.12♥ | 73.15♥ |
| 12.30  | 13.85  | 15.39  | 16.93  | 18.46  | 19.98   | 21.50   | 23.02♥  | 25.04♥  | 27.56♥  | 30.07♥  | 32.59♥  | 35.10♥  | 40.12♥  | 45.14♥ | 52.66♥ | 60.17♥ | 75.19♥ |
| ....   | ....   | ....   | ....   | 11.73  | 13.40   | 15.02   | 16.62   | 18.72   | 21.32   | 23.89   | 26.45   | 29.00   | 34.08   | 39.13♥ | 46.70♥ | 54.24♥ | 69.30♥ |
| 14.51  | 16.03  | 17.55  | 19.07  | 20.58  | 22.09   | 23.61   | 25.11   | 27.13   | 29.64   | 32.15   | 34.68   | 37.16   | 42.17   | 47.18  | 54.70  | 62.20  | 77.22♥ |
| ....   | 9.24   | 10.95  | 12.59  | 14.20  | 15.78   | 17.35   | 18.90   | 20.96   | 23.52   | 26.07   | 28.61   | 31.14♥  | 36.20♥  | 41.23♥ | 48.78♥ | 56.35♥ | 71.35♥ |
| 10.15  | 11.77  | 13.36  | 14.93  | 16.49  | 18.03   | 19.57   | 21.10   | 23.14   | 25.68♥  | 28.21♥  | 30.73♥  | 33.25♥  | 38.29♥  | 43.31♥ | 50.84♥ | 58.36♥ | 73.40♥ |
| ....   | ....   | ....   | 10.19  | 11.93  | 13.60   | 15.23   | 16.83   | 18.93   | 21.53   | 24.11   | 26.67   | 29.23   | 34.31♥  | 39.36♥ | 46.93♥ | 54.48♥ | 69.54♥ |
| ....   | ....   | ....   | ....   | ....   | ....    | ....    | ....    | 14.25   | 17.05   | 19.75   | 22.40   | 25.02   | 30.19   | 35.31  | 42.94♥ | 50.52♥ | 65.64♥ |
| 12.51  | 14.07  | 15.61  | 17.15  | 18.66  | 21.20   | 21.73♥  | 23.26♥  | 25.27♥  | 27.79♥  | 30.31♥  | 32.82♥  | 35.34♥  | 40.36♥  | 45.38♥ | 52.90♥ | 60.41♥ | 75.43♥ |
| ....   | 9.43   | 11.14  | 12.79  | 14.40  | 15.99   | 17.56   | 19.12   | 21.18   | 23.74   | 26.30   | 28.84♥  | 31.37♥  | 36.43♥  | 41.47♥ | 49.01♥ | 56.54♥ | 71.59♥ |
| ....   | ....   | ....   | ....   | ....   | ....    | ....    | ....    | 14.44   | 17.25   | 19.96   | 22.61   | 25.23   | 30.41   | 35.53  | 43.16♥ | 50.75♥ | 65.87♥ |
| ....   | ....   | ....   | 10.38  | 12.12  | 13.80   | 15.43   | 17.03   | 19.14   | 21.75   | 24.33   | 27.00   | 29.45   | 34.53♥  | 39.59♥ | 47.16♥ | 54.71♥ | 69.78♥ |
| 10.35  | 11.98  | 13.57  | 15.14  | 16.70  | 18.25   | 19.79   | 21.32   | 23.36♥  | 25.90♥  | 28.44♥  | 30.96♥  | 33.48♥  | 38.52♥  | 43.55♥ | 51.08♥ | 58.60♥ | 73.64♥ |
| ....   | 9.62   | 11.34  | 12.99  | 14.61  | 16.20   | 17.77   | 19.33   | 21.40   | 23.97   | 26.52♥  | 29.06♥  | 31.60♥  | 36.66♥  | 41.70♥ | 49.25♥ | 56.78♥ | 71.83♥ |
| ....   | ....   | ....   | ....   | ....   | ....    | ....    | ....    | 14.63   | 17.45   | 20.16   | 22.82   | 25.45   | 30.63   | 35.76  | 43.39♥ | 50.98♥ | 66.11♥ |
| 12.73† | 14.29† | 15.83† | 17.37  | 21.95♥ | 18.90♥  | 20.43♥  | 23.47♥  | 25.50♥  | 28.02♥  | 30.54♥  | 33.06♥  | 35.57♥  | 40.60♥  | 45.61♥ | 53.14♥ | 60.65♥ | 75.67♥ |
| ....   | ....   | ....   | 10.57  | 12.32  | 14.00   | 15.63   | 17.24   | 19.36   | 21.96   | 24.55   | 27.12   | 29.67♥  | 34.76♥  | 39.82♥ | 47.39♥ | 54.94♥ | 70.01♥ |
| 10.55† | 12.1†  | 13.78  | 15.36  | 16.92  | 18.47   | 20.01   | 21.55♥  | 23.59♥  | 26.13♥  | 28.66♥  | 31.19♥  | 33.72♥  | 38.75♥  | 43.78♥ | 51.32♥ | 58.84♥ | 73.88♥ |
| ....   | ....   | ....   | ....   | ....   | ....    | ....    | 12.43   | 14.82   | 17.65   | 20.37   | 23.03   | 25.66   | 30.85   | 35.98♥ | 43.62♥ | 51.21♥ | 66.34♥ |
| ....   | 9.81†  | 11.54  | 13.20  | 14.82  | 15.41   | 17.99   | 19.55   | 21.62   | 24.19♥  | 26.74♥  | 29.29♥  | 31.83♥  | 36.89♥  | 41.93♥ | 49.48♥ | 57.02♥ | 72.07♥ |
| ....   | ....   | ....   | 10.75  | 12.51  | 14.20   | 15.84   | 17.45   | 19.57   | 22.18   | 24.77   | 27.34♥  | 29.90♥  | 34.99♥  | 40.05♥ | 47.63♥ | 55.18♥ | 70.25♥ |
| ....   | ....   | ....   | ....   | ....   | ....    | ....    | ....    | 15.02   | 17.84   | 20.57   | 23.24   | 25.87   | 31.06♥  | 36.20♥ | 43.84♥ | 51.44♥ | 66.57♥ |
| 10.75† | 12.39† | 13.99† | 15.57† | 17.13† | 18.69†♥ | 20.23†♥ | 21.77♥  | 23.81♥  | 26.35♥  | 28.89♥  | 31.42♥  | 33.95♥  | 38.99♥  | 44.02♥ | 51.55♥ | 59.08♥ | 74.12♥ |
| ....   | 10.00† | 11.73† | 13.40  | 15.02  | 16.62   | 18.20   | 19.76   | 21.84♥  | 24.39♥  | 26.96♥  | 29.51♥  | 32.08♥  | 37.12♥  | 42.16♥ | 49.72♥ | 57.25♥ | 72.31♥ |
| ....   | ....   | ....   | 10.94† | 12.71† | 14.40   | 16.04   | 17.65   | 19.78   | 22.39   | 24.98♥  | 27.56♥  | 30.12♥  | 35.21♥  | 40.28♥ | 47.86♥ | 55.41♥ | 70.49♥ |
| ....   | ....   | ....   | ....   | ....   | ....    | ....    | 12.79   | 15.21   | 18.04   | 20.78   | 23.45   | 26.08   | 31.28♥  | 36.42♥ | 44.07♥ | 51.6♥  | 66.81♥ |
| ....   | ....   | ....   | ....   | ....   | ....    | ....    | 12.98†  | 15.40   | 18.24   | 20.98   | 23.66   | 26.29♥  | 31.50♥  | 36.64♥ | 44.29♥ | 51.90♥ | 67.04♥ |
| ....   | ....   | 9.20§  | 11.13‡ | 12.90  | 14.59†  | 16.24†  | 17.86   | 19.99   | 22.61♥  | 25.20♥  | 27.78♥  | 30.34♥  | 35.44♥  | 40.51♥ | 48.09♥ | 55.65♥ | 70.73♥ |
| 8.30§  | 10.19‡ | 11.93‡ | 13.60† | 15.23† | 16.83†  | 18.41†♥ | 19.98†  | 22.05†♥ | 24.63†♥ | 27.19♥  | 29.74♥  | 32.28♥  | 37.34♥  | 42.39♥ | 49.95♥ | 57.49♥ | 72.55♥ |
| ....   | ....   | 9.37§  | 11.31‡ | 13.09‡ | ....    | ....    | 13.16†  | 15.59†  | 18.44   | 21.18   | 23.86♥  | 26.51♥  | 31.71♥  | 36.86♥ | 44.52♥ | 52.13♥ | 67.27♥ |
| ....   | ....   | ....   | ....   | ....   | 14.79‡  | 16.44†  | 18.07†♥ | 20.19†♥ | 22.82†♥ | 25.42†♥ | 27.99†♥ | 30.56†♥ | 35.66♥  | 40.74♥ | 48.32♥ | 55.88♥ | 70.96♥ |
| ....   | ....   | ....   | ....   | ....   | ....    | ....    | 13.64‡  | 15.78†  | 18.64†  | 21.38†♥ | 24.07♥  | 26.72♥  | 31.93♥  | 37.08♥ | 44.74♥ | 52.35♥ | 67.50♥ |
| ....   | ....   | ....   | ....   | ....   | ....    | 11.49§  | 13.53§  | 15.97‡  | 18.83‡♥ | 21.59†♥ | 24.28†♥ | 26.93†♥ | 32.14†♥ | 37.30♥ | 44.97♥ | 52.58♥ | 67.74♥ |

### H Belt Width Table

| Belt Width Factor | .42 | .57 | .71 | .86 | 1.00 | 1.29  | 1.56  | 1.84  | 2.14 | 2.72  | 3.36 | 4.06  | 4.76 | 6.15 | 7.50 | 8.89 | 10.32 |
|-------------------|-----|-----|-----|-----|------|-------|-------|-------|------|-------|------|-------|------|------|------|------|-------|
| Belt Width        | 1/2 | 5/8 | 3/4 | 7/8 | 1    | 1-1/4 | 1-1/2 | 1-3/4 | 2    | 2-1/2 | 3    | 3-1/2 | 4    | 5    | 6    | 7    | 8     |
| Belt Width Code   | 050 | 062 | 075 | 087 | 100  | 125   | 150   | 175   | 200  | 250   | 300  | 350   | 400  | 500  | 600  | 700  | 800   |

### Teeth in Mesh factor (T.I.M)

| Table Symbol | No. of Teeth In Mesh In Small Pulley | Factor |
|--------------|--------------------------------------|--------|
| None         | 6 or More                            | 1      |
| †            | 5                                    | 0.8    |

### Shaded area indicates stock belt widths.

| Table Symbol | No. of Teeth In Mesh In Small Pulley | Factor |
|--------------|--------------------------------------|--------|
| ‡            | 4                                    | 0.6    |
| §            | 3                                    | 0.4    |





# SELECTION

## XH Stock Drive Selections

|                              | Driven Speeds for Motor Speeds of |      |     | Speed Ratio | Pulley Combination |             |              |             | HP for a 1 Wide Belt for Motor Speeds of Δ |        |        |
|------------------------------|-----------------------------------|------|-----|-------------|--------------------|-------------|--------------|-------------|--|--------|--------|
|                              |                                   |      |     |             | Driver             |             | Driven       |             |  |        |        |
|                              | 1750                              | 1160 | 870 |             | No. of Teeth       | Pitch Diam. | No. of Teeth | Pitch Diam. | 1750                                       | 1160   | 870    |
| V-Drives                     | 1750                              | 1160 | 870 | 1.00        | 40XH               | 11.141      | 40XH         | 11.141      | 22.22                                      | 17.44  | 13.79  |
|                              | 1750                              | 1160 | 870 | 1.00        | 32XH               | 8.913       | 32XH         | 8.913       | 19.87                                      | 14.57  | 11.29  |
|                              | 1750                              | 1160 | 870 | 1.00        | 30XH               | 8.356       | 30XH         | 8.356       | 19.06                                      | 13.79  | 10.63  |
|                              | 1750                              | 1160 | 870 | 1.00        | 28XH               | 7.799       | 28XH         | 7.799       | 18.16                                      | 12.97  | 9.97   |
|                              | 1750                              | 1160 | 870 | 1.00        | 26XH               | 7.241       | 26XH         | 7.241       | 17.17                                      | 12.13  | 9.29   |
|                              | 1750                              | 1160 | 870 | 1.00        | 24XH               | 6.685       | 24XH         | 6.685       | 16.14◇                                     | 11.29  | 8.61   |
|                              | 1750                              | 1160 | 870 | 1.00        | 22XH               | 6.127       | 22XH         | 6.127       | 15.03◇                                     | 10.41◇ | 7.92   |
|                              | 1750                              | 1160 | 870 | 1.00        | 20XH               | 5.570       | 20XH         | 5.570       | 13.85◇                                     | 9.51◇  | 7.23◇  |
|                              | 1750                              | 1160 | 870 | 1.00        | 18XH               | 5.013       | 18XH         | 5.013       | ....                                       | 8.61   | 6.52◇  |
|                              | 1641                              | 1088 | 816 | 1.07        | 30XH               | 8.356       | 32XH         | 8.913       | 19.06                                      | 13.79  | 10.63  |
| FHP Drives                   | 1633                              | 1083 | 812 | 1.07        | 28XH               | 7.799       | 30XH         | 8.356       | 18.16                                      | 12.97  | 9.97   |
|                              | 1625                              | 1077 | 808 | 1.08        | 26XH               | 7.241       | 28XH         | 7.799       | 17.17                                      | 12.13  | 9.29   |
|                              | 1615                              | 1071 | 803 | 1.08        | 24XH               | 6.685       | 26XH         | 7.241       | 16.14◇                                     | 11.29  | 8.61   |
|                              | 1604                              | 1063 | 798 | 1.09        | 22XH               | 6.127       | 24XH         | 6.685       | 15.03◇                                     | 10.41◇ | 7.92   |
|                              | 1591                              | 1055 | 791 | 1.10        | 20XH               | 5.570       | 22XH         | 6.127       | 13.85◇                                     | 9.51◇  | 7.23◇  |
|                              | 1531                              | 1044 | 783 | 1.11        | 18XH               | 5.013       | 20XH         | 5.570       | ....                                       | 8.61◇  | 6.52◇  |
|                              | 1517                              | 1015 | 761 | 1.14        | 28XH               | 7.799       | 32XH         | 8.913       | 18.16                                      | 12.97  | 9.97   |
|                              | 1500                              | 1005 | 754 | 1.15        | 26XH               | 7.241       | 30XH         | 8.356       | 17.17                                      | 12.13  | 9.29   |
|                              | 1500                              | 994  | 746 | 1.17        | 24XH               | 6.685       | 28XH         | 7.799       | 16.14◇                                     | 11.29  | 8.61   |
|                              | 1481                              | 982  | 736 | 1.18        | 22XH               | 6.127       | 26XH         | 7.241       | 15.03◇                                     | 10.41◇ | 7.92   |
| Drive Component Accessories  | 1458                              | 967  | 725 | 1.20        | 40XH               | 11.141      | 48XH         | 13.369      | 22.22                                      | 17.44  | 13.79  |
|                              | 1458                              | 967  | 725 | 1.20        | 20XH               | 5.570       | 24XH         | 6.685       | 13.85                                      | 9.51◇  | 7.23◇  |
|                              | 1422                              | 949  | 712 | 1.22        | 18XH               | 5.013       | 22XH         | 6.127       | ....                                       | 8.61◇  | 6.52◇  |
|                              | 1422                              | 943  | 707 | 1.23        | 26XH               | 7.241       | 32XH         | 8.913       | 17.17                                      | 12.13  | 9.29   |
|                              | 1400                              | 928  | 696 | 1.25        | 32XH               | 8.913       | 40XH         | 11.141      | 19.87                                      | 14.57  | 11.29  |
|                              | 1400                              | 928  | 696 | 1.25        | 24XH               | 6.685       | 30XH         | 8.356       | 16.14◇                                     | 11.29  | 8.61   |
|                              | 1375                              | 911  | 684 | 1.27        | 22XH               | 6.127       | 28XH         | 7.799       | 15.03◇                                     | 10.41◇ | 7.92   |
|                              | 1346                              | 892  | 669 | 1.30        | 20XH               | 5.570       | 26XH         | 7.241       | 13.85◇                                     | 9.51◇  | 7.23◇  |
|                              | 1313                              | 870  | 653 | 1.33        | 30XH               | 8.356       | 40XH         | 11.141      | 19.06                                      | 13.79  | 10.63  |
|                              | 1313                              | 870  | 653 | 1.33        | 24XH               | 6.685       | 32XH         | 8.913       | 16.14◇                                     | 11.29  | 8.61   |
| DYNA-SYNC                    | 1283                              | 870  | 653 | 1.33        | 18XH               | 5.013       | 24XH         | 6.685       | ....                                       | 8.61◇  | 6.52◇  |
|                              | 1283                              | 851  | 638 | 1.36        | 22XH               | 6.127       | 30XH         | 8.356       | 15.03◇                                     | 10.41◇ | 7.92   |
|                              | 1250                              | 829  | 621 | 1.40        | 20XH               | 5.570       | 28XH         | 7.799       | 13.85◇                                     | 9.51◇  | 7.23◇  |
|                              | 1225                              | 812  | 609 | 1.43        | 28XH               | 7.799       | 40XH         | 11.141      | 18.16                                      | 12.97  | 9.97   |
|                              | 1225                              | 803  | 602 | 1.44        | 18XH               | 5.013       | 26XH         | 7.241       | ....                                       | 8.61◇  | 6.52◇  |
|                              | 1203                              | 798  | 598 | 1.45        | 22XH               | 6.127       | 32XH         | 8.913       | 15.03◇                                     | 10.41◇ | 7.92   |
|                              | 1167                              | 773  | 580 | 1.50        | 40XH               | 11.141      | 60XH         | 16.711      | 22.22                                      | 17.44  | 13.79  |
|                              | 1167                              | 773  | 580 | 1.50        | 32XH               | 8.913       | 48XH         | 13.369      | 19.87                                      | 14.57  | 11.29  |
|                              | 1167                              | 773  | 580 | 1.50        | 20XH               | 5.570       | 30XH         | 8.356       | 13.85◇                                     | 9.51◇  | 7.23◇  |
|                              | 1138                              | 754  | 566 | 1.54        | 26XH               | 7.241       | 40XH         | 11.141      | 17.17                                      | 12.13  | 9.29   |
| HT200/HTD Synchronous Drives | 1094                              | 746  | 559 | 1.56        | 18XH               | 5.013       | 28XH         | 7.799       | ....                                       | 8.61◇  | 6.52◇  |
|                              | 1094                              | 725  | 544 | 1.60        | 30XH               | 8.356       | 48XH         | 13.369      | 19.06                                      | 13.79  | 10.63◇ |
|                              | 1094                              | 725  | 544 | 1.60        | 20XH               | 5.570       | 32XH         | 8.913       | 13.85◇                                     | 9.51◇  | 7.23◇  |
|                              | 1050                              | 696  | 522 | 1.67        | 24XH               | 6.685       | 40XH         | 11.141      | 16.14◇                                     | 11.29  | 8.61   |
|                              | 1050                              | 696  | 522 | 1.67        | 18XH               | 5.013       | 30XH         | 8.356       | ....                                       | 8.61◇  | 6.52◇  |
|                              | 1021                              | 677  | 508 | 1.71        | 28XH               | 7.799       | 48XH         | 13.369      | 18.16                                      | 12.97  | 9.97   |
|                              | 1021                              | 653  | 489 | 1.78        | 18XH               | 5.013       | 32XH         | 8.913       | ....                                       | 8.61◇  | 6.52◇  |
|                              | 972                               | 644  | 483 | 1.80        | 40XH               | 11.141      | 72XH         | 20.054      | 22.22                                      | 17.44  | 13.79  |
|                              | 963                               | 638  | 479 | 1.82        | 22XH               | 6.127       | 40XH         | 11.141      | 15.03◇                                     | 10.41◇ | 7.92   |
|                              | HT500 Synchronous Drives          | 1094 | 746 | 559         | 1.56               | 18XH        | 5.013        | 28XH        | 7.799                                      | ....   | 8.61◇  |
| 1094                         |                                   | 725  | 544 | 1.60        | 30XH               | 8.356       | 48XH         | 13.369      | 19.06                                      | 13.79  | 10.63◇ |
| 1094                         |                                   | 725  | 544 | 1.60        | 20XH               | 5.570       | 32XH         | 8.913       | 13.85◇                                     | 9.51◇  | 7.23◇  |
| 1050                         |                                   | 696  | 522 | 1.67        | 24XH               | 6.685       | 40XH         | 11.141      | 16.14◇                                     | 11.29  | 8.61   |
| 1050                         |                                   | 696  | 522 | 1.67        | 18XH               | 5.013       | 30XH         | 8.356       | ....                                       | 8.61◇  | 6.52◇  |
| 1021                         |                                   | 677  | 508 | 1.71        | 28XH               | 7.799       | 48XH         | 13.369      | 18.16                                      | 12.97  | 9.97   |
| 1021                         |                                   | 653  | 489 | 1.78        | 18XH               | 5.013       | 32XH         | 8.913       | ....                                       | 8.61◇  | 6.52◇  |
| 972                          |                                   | 644  | 483 | 1.80        | 40XH               | 11.141      | 72XH         | 20.054      | 22.22                                      | 17.44  | 13.79  |
| 963                          |                                   | 638  | 479 | 1.82        | 22XH               | 6.127       | 40XH         | 11.141      | 15.03◇                                     | 10.41◇ | 7.92   |

Δ HP ratings are for conventional speed-reduction drives.

♥ Flanges Required on both pulleys.

For Speed-Up Drives refer to page PT10-17.

◇ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

Roller Chain Sprockets

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|



# SELECTION



## XH Stock Drive Selections

Nominal Center Distance Using DYNA-SYNC Belts

| 507XH | 560XH | 630XH | 700XH | 770XH | 840XH | 980XH | 1120XH | 1260XH | 1400XH | 1540XH | 1750XH |       |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|-------|
| ....  | ....  | 14.00 | 17.50 | 21.00 | 24.50 | 31.50 | 38.50  | 45.50  | 52.50  | 59.50  | 70.00  |       |
| 11.37 | 14.00 | 17.50 | 21.00 | 24.50 | 28.00 | 35.00 | 42.00  | 49.00  | 56.00  | 63.00  | 73.50  |       |
| 12.25 | 14.87 | 18.37 | 21.87 | 25.37 | 28.87 | 35.87 | 42.87  | 49.87  | 56.87  | 63.87  | 74.37  |       |
| 13.12 | 15.75 | 19.25 | 22.75 | 26.25 | 29.75 | 36.75 | 43.75  | 50.75  | 57.75  | 64.75  | 75.25  |       |
| 14.00 | 16.62 | 20.12 | 23.62 | 27.12 | 30.62 | 37.62 | 44.62  | 51.62  | 58.62  | 65.62  | 76.12  |       |
| 14.87 | 17.50 | 21.00 | 24.50 | 28.00 | 31.50 | 38.50 | 45.50  | 52.50  | 59.50  | 66.50  | 77.00  |       |
| 15.75 | 18.37 | 21.87 | 25.37 | 28.87 | 32.37 | 39.37 | 46.37  | 53.37  | 60.37  | 67.37  | 77.87  |       |
| 16.62 | 19.25 | 22.75 | 26.25 | 29.75 | 33.25 | 40.25 | 47.25  | 54.25  | 61.25  | 68.25  | 78.75  |       |
| 17.50 | 20.12 | 23.62 | 27.12 | 30.62 | 34.12 | 41.12 | 48.12  | 55.12  | 62.12  | 69.12  | 79.62  |       |
| 11.80 | 14.43 | 17.93 | 21.43 | 24.93 | 28.43 | 35.43 | 42.43  | 49.43  | 56.43  | 63.43  | 73.93  |       |
| 12.68 | 15.31 | 18.81 | 22.31 | 25.81 | 29.31 | 36.31 | 43.31  | 50.31  | 57.31  | 64.31  | 74.81  |       |
| 13.56 | 16.18 | 19.68 | 23.18 | 26.68 | 30.18 | 37.18 | 44.18  | 51.18  | 58.18  | 65.18  | 75.68  |       |
| 14.43 | 17.06 | 20.56 | 24.06 | 27.56 | 31.06 | 38.06 | 45.06  | 52.06  | 59.06  | 66.06  | 76.56  |       |
| 15.31 | 17.93 | 21.43 | 24.93 | 28.43 | 31.93 | 38.93 | 45.93  | 52.93  | 59.93  | 66.93  | 77.43  |       |
| 16.18 | 18.81 | 22.31 | 25.81 | 29.31 | 32.81 | 39.81 | 46.81  | 53.81  | 60.81  | 67.81  | 78.31  |       |
| 17.06 | 19.68 | 23.18 | 26.68 | 30.18 | 33.68 | 40.68 | 47.68  | 54.68  | 61.68  | 68.68  | 79.18  |       |
| 12.23 | 14.86 | 18.36 | 21.86 | 25.36 | 28.87 | 35.87 | 42.87  | 49.87  | 56.87  | 63.87  | 74.37  |       |
| 13.11 | 15.74 | 19.24 | 22.74 | 26.24 | 29.74 | 36.74 | 43.74  | 50.74  | 57.74  | 64.74  | 75.24  |       |
| 13.98 | 16.61 | 20.11 | 23.61 | 27.12 | 30.62 | 37.62 | 44.62  | 51.62  | 58.62  | 65.62  | 76.12  |       |
| 14.66 | 17.49 | 20.99 | 24.49 | 27.99 | 31.49 | 38.49 | 45.49  | 52.49  | 59.49  | 66.49  | 76.99  |       |
| ....  | ....  | ....  | 15.71 | 19.21 | 22.72 | 29.72 | 36.73  | 43.73  | 50.73  | 57.74  | 68.24  |       |
| 15.74 | 18.36 | 21.86 | 25.36 | 28.87 | 32.37 | 39.37 | 46.37  | 53.37  | 60.37  | 67.37  | 77.87  |       |
| 16.61 | 19.24 | 22.74 | 26.24 | 29.74 | 33.24 | 40.24 | 47.24  | 54.24  | 61.24  | 68.24  | 78.74  |       |
| 12.66 | 15.29 | 18.79 | 22.29 | 25.79 | 29.30 | 36.30 | 43.30  | 50.30  | 57.30  | 64.30  | 74.80  |       |
| ....  | ....  | ....  | 12.19 | 15.71 | 19.21 | 22.72 | 26.22  | 33.23  | 40.23  | 47.23  | 54.23  | 61.24 |
| 13.53 | 16.16 | 19.67 | 23.17 | 26.67 | 30.17 | 37.17 | 44.18  | 51.18  | 58.18  | 65.18  | 75.68  |       |
| 14.41 | 17.04 | 20.54 | 24.04 | 27.55 | 31.05 | 38.05 | 45.05  | 52.05  | 59.05  | 66.05  | 76.55  |       |
| 15.29 | 17.91 | 21.42 | 24.92 | 28.42 | 31.92 | 38.92 | 45.93  | 52.93  | 59.93  | 66.93  | 77.43  |       |
| ....  | ....  | ....  | 12.61 | 16.12 | 19.63 | 23.14 | 26.65  | 33.65  | 40.66  | 47.66  | 54.67  | 61.67 |
| 13.07 | 15.71 | 19.21 | 22.72 | 26.22 | 29.72 | 36.73 | 43.73  | 50.73  | 57.74  | 64.74  | 75.24  |       |
| 16.16 | 18.79 | 22.29 | 25.79 | 29.30 | 32.80 | 39.80 | 46.80  | 53.80  | 60.80  | 67.80  | 78.30  |       |
| 13.95 | 16.58 | 20.09 | 23.59 | 27.10 | 30.60 | 37.60 | 44.61  | 51.61  | 58.61  | 65.61  | 76.11  |       |
| 14.83 | 17.46 | 20.97 | 24.47 | 27.97 | 31.48 | 38.48 | 45.48  | 52.48  | 59.49  | 66.49  | 76.99  |       |
| 10.36 | 13.01 | 16.54 | 20.05 | 23.56 | 27.07 | 34.08 | 41.09  | 48.09  | 55.10  | 62.10  | 72.60  |       |
| 15.71 | 18.34 | 21.84 | 25.35 | 28.85 | 32.35 | 39.35 | 46.36  | 53.36  | 60.36  | 67.36  | 77.86  |       |
| 13.49 | 16.12 | 19.63 | 23.14 | 26.65 | 30.15 | 37.16 | 44.16  | 51.16  | 58.17  | 65.17  | 75.67  |       |
| ....  | ....  | ....  | ....  | 16.38 | 19.93 | 26.98 | 34.01  | 41.03  | 48.04  | 55.05  | 65.56  |       |
| ....  | ....  | 13.82 | 17.35 | 20.88 | 24.39 | 31.42 | 38.43  | 45.44  | 52.45  | 59.45  | 69.96  |       |
| 14.37 | 17.00 | 20.51 | 24.02 | 27.52 | 31.03 | 38.03 | 45.04  | 52.04  | 59.04  | 66.04  | 76.55  |       |
| 10.76 | 13.42 | 16.95 | 20.47 | 23.98 | 27.49 | 34.50 | 41.50  | 48.52  | 55.52  | 62.53  | 73.03  |       |
| 15.24 | 17.88 | 21.39 | 24.89 | 28.40 | 31.90 | 38.91 | 45.91  | 52.91  | 59.92  | 66.92  | 77.42  |       |
| ....  | ....  | 14.21 | 17.76 | 21.29 | 24.81 | 31.83 | 38.85  | 45.86  | 52.87  | 59.88  | 70.39♥ |       |
| 13.89 | 16.54 | 20.05 | 23.56 | 27.07 | 30.58 | 37.58 | 44.59  | 51.59  | 58.60  | 65.60  | 76.10  |       |
| 11.15 | 13.82 | 17.35 | 20.88 | 24.39 | 27.91 | 34.92 | 41.94  | 48.94  | 55.95  | 62.96  | 73.46  |       |
| 14.78 | 17.42 | 20.93 | 24.44 | 27.95 | 31.45 | 38.45 | 45.46  | 52.47  | 59.47  | 66.47  | 76.98  |       |
| ....  | 11.02 | 14.60 | 18.16 | 21.69 | 25.22 | 32.25 | 39.27  | 46.29  | 53.30  | 60.31  | 70.82♥ |       |
| 14.30 | 16.95 | 20.47 | 23.98 | 27.49 | 31.00 | 38.01 | 45.02  | 52.02  | 59.03  | 66.03  | 76.53  |       |
| ....  | ....  | ....  | ....  | ....  | 16.90 | 24.08 | 31.18  | 38.24  | 45.28  | 52.31  | 62.84  |       |
| 11.54 | 14.21 | 17.76 | 21.29 | 24.81 | 28.32 | 35.34 | 42.36  | 49.37  | 56.38  | 63.38  | 73.89  |       |

### XH Belt Width Table

| Belt Width Factor | 1.00 | 1.29  | 1.56  | 1.84  | 2.14 | 2.72  | 3.36 | 4.06  | 4.76 | 6.15 | 7.50 | 8.89 | 10.32 | 11.70 | 13.10 | 14.41 | 15.84 | 17.16 | 18.62 |
|-------------------|------|-------|-------|-------|------|-------|------|-------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| Belt Width        | 1    | 1-1/4 | 1-1/2 | 1-3/4 | 2    | 2-1/2 | 3    | 3-1/2 | 4    | 5    | 6    | 7    | 8     | 9     | 10    | 11    | 12    | 13    | 14    |
| Belt Width Code   | 100  | 125   | 150   | 175   | 200  | 250   | 300  | 350   | 400  | 500  | 600  | 700  | 800   | 900   | 1000  | 1100  | 1200  | 1300  | 1400  |

Shaded area indicates stock belt widths

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|

V-Drives

FHP Drives

Drive Component  
Accessories

DYNA-SYNC

HT200/HTD  
Synchronous Drives

HT500  
Synchronous Drives

Roller Chain Sprockets



# SELECTION

## XH Stock Drive Selections

|                              | Driven Speeds for Motor Speeds of |      |     | Speed Ratio | Pulley Combination |             |              |             | HP for a 1 Wide Belt for Motor Speeds of Δ |        |       |
|------------------------------|-----------------------------------|------|-----|-------------|--------------------|-------------|--------------|-------------|--|--------|-------|
|                              |                                   |      |     |             | Driver             |             | Driven       |             |  |        |       |
|                              | 1750                              | 1160 | 870 |             | No. of Teeth       | Pitch Diam. | No. of Teeth | Pitch Diam. | 1750                                       | 1160   | 870   |
| V-Drives                     | 948                               | 628  | 471 | 1.85        | 26XH               | 7.241       | 48XH         | 13.369      | 17.17                                      | 12.13  | 9.29  |
|                              | 933                               | 618  | 464 | 1.88        | 32XH               | 8.913       | 60XH         | 16.711      | 19.87                                      | 14.57  | 11.29 |
|                              | 875                               | 580  | 435 | 2.00        | 30XH               | 8.356       | 60XH         | 16.711      | 19.06                                      | 13.79  | 10.63 |
|                              | 875                               | 580  | 435 | 2.00        | 24XH               | 6.685       | 48XH         | 13.369      | 16.14◇                                     | 11.29  | 8.61  |
|                              | 875                               | 580  | 435 | 2.00        | 20XH               | 5.570       | 40XH         | 11.141      | 13.85◇                                     | 9.51◇  | 7.23◇ |
| FHP Drives                   | 833                               | 552  | 414 | 2.10        | 40XH               | 11.141      | 84XH         | 23.396      | 22.22                                      | 17.44  | 13.79 |
|                              | 817                               | 541  | 407 | 2.14        | 28XH               | 7.799       | 60XH         | 16.711      | 18.16                                      | 12.97  | 9.97  |
|                              | 802                               | 531  | 399 | 2.18        | 22XH               | 6.127       | 48XH         | 13.369      | 15.03◇                                     | 10.41◇ | 7.92  |
|                              | ....                              | 523  | 392 | 2.22        | 18XH               | 5.013       | 40XH         | 11.141      | ....                                       | 8.61◇  | 6.52◇ |
|                              | 778                               | 516  | 387 | 2.25        | 32XH               | 8.913       | 72XH         | 20.054      | 19.87                                      | 14.57  | 11.29 |
| Drive Component Accessories  | 758                               | 502  | 377 | 2.31        | 26XH               | 7.241       | 60XH         | 16.711      | 17.17                                      | 12.13  | 9.29  |
|                              | 729                               | 483  | 363 | 2.40        | 40XH               | 11.141      | 96XH         | 26.738      | 22.22                                      | 17.44  | 13.79 |
|                              | 729                               | 483  | 363 | 2.40        | 30XH               | 8.356       | 72XH         | 20.054      | 19.06                                      | 13.79  | 10.63 |
|                              | 729                               | 483  | 363 | 2.40        | 20XH               | 5.570       | 48XH         | 13.369      | 13.85◇                                     | 9.51◇  | 7.23◇ |
|                              | 700                               | 464  | 348 | 2.50        | 24XH               | 6.685       | 60XH         | 16.711      | 16.14◇                                     | 11.29  | 8.61  |
| DYNA-SYNC                    | 681                               | 451  | 339 | 2.57        | 28XH               | 7.799       | 72XH         | 20.054      | 18.16                                      | 12.97  | 9.97  |
|                              | 667                               | 442  | 331 | 2.63        | 32XH               | 8.913       | 84XH         | 23.396      | 19.87                                      | 14.57  | 11.29 |
|                              | ....                              | 434  | 326 | 2.67        | 18XH               | 5.013       | 48XH         | 13.369      | ....                                       | 8.61◇  | 6.52◇ |
|                              | 642                               | 425  | 319 | 2.73        | 22XH               | 6.127       | 60XH         | 16.711      | 15.03◇                                     | 10.41◇ | 7.92  |
|                              | 632                               | 419  | 314 | 2.77        | 26XH               | 7.241       | 72XH         | 20.054      | 17.17                                      | 12.13  | 9.29  |
| HT200/HTD Synchronous Drives | 625                               | 414  | 311 | 2.80        | 30XH               | 8.356       | 84XH         | 23.396      | 19.06                                      | 13.79  | 10.63 |
|                              | 583                               | 387  | 290 | 3.00        | 40XH               | 11.141      | 120XH        | 33.423      | 22.22                                      | 17.44  | 13.79 |
|                              | 583                               | 387  | 290 | 3.00        | 32XH               | 8.913       | 96XH         | 26.738      | 19.87                                      | 14.57  | 11.29 |
|                              | 583                               | 387  | 290 | 3.00        | 28XH               | 7.799       | 84XH         | 23.396      | 18.16                                      | 12.97  | 9.97  |
|                              | 583                               | 387  | 290 | 3.00        | 24XH               | 6.685       | 72XH         | 20.054      | 16.14◇                                     | 11.29  | 8.61  |
| HT500 Synchronous Drives     | 547                               | 363  | 272 | 3.20        | 20XH               | 5.570       | 60XH         | 16.711      | 13.85◇                                     | 9.51◇  | 7.23◇ |
|                              | 542                               | 359  | 269 | 3.23        | 30XH               | 8.356       | 96XH         | 26.738      | 19.06                                      | 13.79  | 10.63 |
|                              | 535                               | 355  | 266 | 3.27        | 26XH               | 7.241       | 84XH         | 23.396      | 17.17                                      | 12.13  | 9.29  |
|                              | ....                              | 348  | 261 | 3.33        | 22XH               | 6.127       | 72XH         | 20.054      | 15.03◇                                     | 10.41◇ | 7.92  |
|                              | ....                              | 348  | 261 | 3.33        | 18XH               | 5.013       | 60XH         | 16.711      | ....                                       | 8.61◇  | 6.52◇ |
| Roller Chain Sprockets       | 510                               | 338  | 254 | 3.43        | 28XH               | 7.799       | 96XH         | 26.738      | 18.16                                      | 12.97  | 9.97  |
|                              | 500                               | 331  | 249 | 3.50        | 24XH               | 6.685       | 84XH         | 23.396      | 16.14◇                                     | 11.29  | 8.61  |
|                              | 486                               | 322  | 242 | 3.60        | 20XH               | 5.570       | 72XH         | 20.054      | 13.85◇                                     | 9.51◇  | 7.23◇ |
|                              | 474                               | 314  | 236 | 3.69        | 26XH               | 7.241       | 96XH         | 26.738      | 17.17                                      | 12.13  | 9.29  |
|                              | 467                               | 309  | 232 | 3.75        | 32XH               | 8.913       | 120XH        | 33.423      | 19.87                                      | 14.57  | 11.29 |
| Roller Chain Sprockets       | 458                               | 304  | 228 | 3.82        | 22XH               | 6.127       | 84XH         | 23.396      | 15.03◇                                     | 10.41  | 7.92  |
|                              | 438                               | 290  | 218 | 4.00        | 30XH               | 8.356       | 120XH        | 33.423      | 19.06                                      | 13.79◇ | 10.63 |
|                              | 438                               | 290  | 218 | 4.00        | 24XH               | 6.685       | 98XH         | 26.738      | 16.14◇                                     | 11.29  | 8.61  |
|                              | ....                              | 290  | 218 | 4.00        | 18XH               | 5.013       | 72XH         | 20.054      | ....                                       | 8.61◇  | 6.52◇ |
|                              | 416                               | 276  | 207 | 4.20        | 20XH               | 5.570       | 84XH         | 23.396      | 13.85◇                                     | 9.51◇  | 7.23◇ |
| Roller Chain Sprockets       | 408                               | 270  | 203 | 4.29        | 28XH               | 7.799       | 120XH        | 33.423      | 18.16                                      | 12.97  | 9.97  |
|                              | 401                               | 266  | 200 | 4.36        | 22XH               | 6.127       | 96XH         | 26.738      | 15.03◇                                     | 10.41◇ | 7.92  |
|                              | 379                               | 251  | 188 | 4.62        | 26XH               | 7.241       | 120XH        | 33.423      | 17.17                                      | 12.13  | 9.29  |
|                              | ....                              | 249  | 186 | 4.67        | 18XH               | 5.013       | 84XH         | 23.396      | ....                                       | 8.61◇  | 6.52◇ |
|                              | 365                               | 242  | 181 | 4.80        | 20XH               | 5.570       | 96XH         | 26.738      | 13.85◇                                     | 9.51◇  | 7.23◇ |
| Roller Chain Sprockets       | 350                               | 232  | 174 | 5.00        | 24XH               | 6.685       | 120XH        | 33.423      | 16.14◇                                     | 11.29  | 8.61  |
|                              | ....                              | 217  | 162 | 5.33        | 18XH               | 5.013       | 96XH         | 26.738      | ....                                       | 8.61◇  | 6.52◇ |
|                              | 321                               | 212  | 159 | 5.45        | 22XH               | 6.127       | 120XH        | 33.423      | 15.03                                      | 10.41◇ | 7.92  |
|                              | 292                               | 193  | 145 | 6.00        | 20XH               | 5.570       | 120XH        | 33.423      | 13.85◇                                     | 9.51◇  | 7.23◇ |
|                              | ....                              | 174  | 130 | 6.67        | 18XH               | 5.013       | 120XH        | 33.423      | ....                                       | 8.61◇  | 6.52◇ |

Δ HP ratings are for conventional speed-reduction drives.

† † See Teeth in Mesh table on opposite page.

For Speed-Up Drives refer to page PT10-17.

♥ Flanges Required on both pulleys.

◇ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|

# SELECTION



## XH Stock Drive Selections

Nominal Center Distance Using DYNA-SYNC Belts

| 507XH | 560XH | 630XH | 700XH  | 770XH | 840XH  | 980XH | 1120XH | 1260XH | 1400XH | 1540XH | 1750XH |
|-------|-------|-------|--------|-------|--------|-------|--------|--------|--------|--------|--------|
| ....  | 11.39 | 14.99 | 18.55  | 22.10 | 25.63  | 32.66 | 39.69  | 46.71  | 53.72  | 60.73  | 71.24  |
| ....  | ....  | ....  | 14.34  | 17.95 | 21.52  | 28.60 | 35.66  | 42.69  | 49.72  | 56.74  | 67.26  |
| ....  | ....  | ....  | 14.71  | 18.33 | 21.91  | 29.01 | 36.07  | 43.11  | 50.13  | 57.15  | 67.68♥ |
| ....  | 11.77 | 15.38 | 18.95  | 22.50 | 26.03  | 33.08 | 40.11  | 47.13  | 54.14♥ | 61.15♥ | 71.67♥ |
| 11.92 | 14.60 | 18.16 | 21.69  | 25.22 | 28.74  | 35.76 | 42.78  | 49.79  | 56.80  | 63.81  | 74.32  |
| ....  | ....  | ....  | ....   | ....  | ....   | 20.97 | 28.20  | 35.34  | 42.43  | 49.49  | 60.06  |
| ....  | ....  | ....  | 15.08  | 18.71 | 22.30  | 29.41 | 36.47  | 43.52  | 50.55  | 57.57  | 68.10♥ |
| ....  | 12.14 | 15.77 | 19.34  | 22.90 | 26.43  | 33.49 | 40.52  | 47.54  | 54.56♥ | 61.58♥ | 72.09♥ |
| 12.30 | 14.99 | 18.55 | 22.10  | 25.83 | 29.15  | 36.18 | 43.20  | 50.21  | 57.23  | 64.24  | 74.75  |
| ....  | ....  | ....  | ....   | ....  | 18.40  | 25.64 | 32.77  | 39.86  | 46.91  | 53.96  | 64.50  |
| ....  | ....  | ....  | 15.45  | 19.09 | 22.69  | 29.81 | 36.88  | 43.93  | 50.96  | 57.99♥ | 68.52♥ |
| ....  | ....  | ....  | ....   | ....  | ....   | ....  | 25.02  | 32.30  | 39.47  | 46.59  | 57.21  |
| ....  | ....  | ....  | ....   | 15.03 | 18.76  | 26.02 | 33.17  | 40.26  | 47.32  | 54.37  | 64.92  |
| ....  | 12.51 | 16.15 | 19.73  | 23.29 | 26.84  | 33.90 | 40.94  | 47.96♥ | 54.98♥ | 62.00♥ | 72.52♥ |
| ....  | ....  | ....  | 15.82  | 19.47 | 23.07  | 30.20 | 37.28  | 44.34  | 51.38  | 58.41♥ | 68.94♥ |
| ....  | ....  | ....  | ....   | 15.38 | 19.13  | 26.41 | 33.56  | 40.66  | 47.73  | 54.78  | 65.33♥ |
| ....  | ....  | ....  | ....   | ....  | ....   | 22.44 | 29.73  | 36.91  | 44.02  | 51.11  | 61.70  |
| 10.05 | 12.87 | 16.53 | 20.12  | 23.69 | 27.24  | 34.30 | 41.35♥ | 48.38♥ | 55.40♥ | 62.42♥ | 72.94♥ |
| ....  | ....  | 12.41 | 16.19  | 19.85 | 23.46  | 30.60 | 37.69  | 44.74  | 51.79♥ | 58.82♥ | 69.36♥ |
| ....  | ....  | ....  | ....   | 15.74 | 19.50  | 26.79 | 33.95  | 41.06  | 48.13  | 55.19  | 65.75♥ |
| ....  | ....  | ....  | ....   | ....  | ....   | 22.81 | 30.11  | 37.30  | 44.42  | 51.51  | 62.10  |
| ....  | ....  | ....  | ....   | ....  | ....   | ....  | ....   | 25.52  | 33.10  | 40.45  | 51.28  |
| ....  | ....  | ....  | ....   | ....  | ....   | 18.85 | 26.48  | 33.81  | 41.02  | 48.17  | 58.82  |
| ....  | ....  | ....  | ....   | ....  | ....   | 23.17 | 30.49  | 37.69  | 44.82  | 51.91  | 62.51♥ |
| ....  | ....  | ....  | ....   | 16.09 | 19.86  | 27.17 | 34.34  | 41.46  | 48.53  | 55.59♥ | 66.16♥ |
| ....  | ....  | 12.76 | 16.55  | 20.22 | 23.84  | 30.99 | 38.09  | 45.15♥ | 52.20♥ | 59.23♥ | 69.77♥ |
| ....  | ....  | ....  | ....   | ....  | ....   | 19.19 | 26.84  | 34.19  | 41.41  | 48.56  | 59.22  |
| ....  | ....  | ....  | ....   | ....  | 15.82  | 27.55 | 34.73  | 38.07  | 48.94  | 52.31  | 62.91♥ |
| ....  | ....  | ....  | ....   | 16.44 | 20.22  | 23.53 | 30.87  | 41.85  | 45.21  | 56.00♥ | 66.57♥ |
| ....  | ....  | 13.11 | 16.91  | 20.60 | 24.22  | 31.39 | 38.49  | 45.56♥ | 52.61♥ | 59.65♥ | 70.19♥ |
| ....  | ....  | ....  | ....   | ....  | ....   | 19.53 | 27.21  | 34.57  | 41.79  | 48.95  | 59.62  |
| ....  | ....  | ....  | ....   | ....  | 16.16  | 23.89 | 31.25  | 38.46  | 45.60  | 52.71  | 63.32♥ |
| ....  | ....  | ....  | ....   | 16.78 | 20.58  | 27.93 | 35.12  | 42.25  | 49.34♥ | 56.41♥ | 66.98♥ |
| ....  | ....  | ....  | ....   | ....  | ....   | 19.87 | 27.57  | 34.94  | 42.18  | 49.34  | 60.01♥ |
| ....  | ....  | ....  | ....   | ....  | ....   | ....  | ....   | 26.90  | 34.55  | 41.94  | 52.82  |
| ....  | ....  | ....  | ....   | ....  | 16.49  | 24.25 | 31.62  | 38.84  | 46.00  | 53.10♥ | 63.72♥ |
| ....  | ....  | ....  | ....   | ....  | ....   | ....  | ....   | 27.25  | 34.91  | 42.31  | 53.20  |
| ....  | ....  | ....  | ....   | ....  | ....   | 20.20 | 27.93  | 35.31  | 42.56  | 49.73  | 60.41♥ |
| ....  | ....  | ....  | 13.08† | 17.13 | 20.94  | 28.30 | 35.51  | 42.64♥ | 49.74♥ | 56.81♥ | 67.39♥ |
| ....  | ....  | ....  | ....   | ....  | 16.83  | 24.61 | 32.00  | 39.23  | 46.39♥ | 53.50♥ | 64.13♥ |
| ....  | ....  | ....  | ....   | ....  | ....   | ....  | ....   | 27.59  | 35.27  | 42.68  | 53.58  |
| ....  | ....  | ....  | ....   | ....  | ....   | 20.54 | 28.28  | 35.69  | 42.94  | 50.12♥ | 60.81♥ |
| ....  | ....  | ....  | ....   | ....  | ....   | ....  | ....   | 27.93  | 35.83  | 43.05  | 53.96  |
| ....  | ....  | ....  | ....   | ....  | 17.16† | 24.97 | 32.37  | 39.61  | 46.78♥ | 53.90♥ | 64.53♥ |
| ....  | ....  | ....  | ....   | ....  | ....   | 20.88 | 28.64  | 36.06  | 43.32  | 50.51♥ | 61.20♥ |
| ....  | ....  | ....  | ....   | ....  | ....   | ....  | ....   | 28.27  | 35.98  | 43.42  | 54.34♥ |
| ....  | ....  | ....  | ....   | ....  | ....   | 21.21 | 29.00  | 36.43  | 43.70♥ | 50.89♥ | 61.60♥ |
| ....  | ....  | ....  | ....   | ....  | ....   | ....  | ....   | 28.61  | 36.34  | 43.79  | 54.72♥ |
| ....  | ....  | ....  | ....   | ....  | ....   | ....  | 20.40† | 28.95  | 36.69  | 44.16  | 55.10♥ |
| ....  | ....  | ....  | ....   | ....  | ....   | ....  | 20.71‡ | 29.29  | 37.05  | 44.52♥ | 55.48♥ |

### XH Belt Width Table

| Belt Width Factor | 1.00 | 1.29  | 1.56  | 1.84  | 2.14 | 2.72  | 3.36 | 4.06  | 4.76 | 6.15 | 7.50 | 8.89 | 10.32 | 11.70 | 13.10 | 14.41 | 15.84 | 17.16 | 18.62 |
|-------------------|------|-------|-------|-------|------|-------|------|-------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| Belt Width        | 1    | 1-1/4 | 1-1/2 | 1-3/4 | 2    | 2-1/2 | 3    | 3-1/2 | 4    | 5    | 6    | 7    | 8     | 9     | 10    | 11    | 12    | 13    | 14    |
| Belt Width Code   | 100  | 125   | 150   | 175   | 200  | 250   | 300  | 350   | 400  | 500  | 600  | 700  | 800   | 900   | 1000  | 1100  | 1200  | 1300  | 1400  |

### Teeth in Mesh factor (T.I.M)

| Table Symbol | No. of Teeth in Mesh in Small Pulley | Factor |
|--------------|--------------------------------------|--------|
| None         | 6 or More                            | 1.00   |
| †            | 5                                    | .80    |

Shaded area indicates stock belt widths.

| Table Symbol | No. of Teeth in Mesh in Small Pulley | Factor |
|--------------|--------------------------------------|--------|
| ‡            | 4                                    | .60    |

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|



# SELECTION

## XL Stock Drive Selections

| RPM of Faster Shaft | HP for a 1" Wide Belt for Various Pulleys |                |                |                |                |                 |                 |                 |                 |                 |                 |                 |                 |  |
|---------------------|---|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|
|                     | 10XL .637 P.D.                            | 11XL .700 P.D. | 12XL .764 P.D. | 14XL .891 P.D. | 15XL .955 P.D. | 16XL 1.019 P.D. | 18XL 1.146 P.D. | 20XL 1.273 P.D. | 21XL 1.337 P.D. | 22XL 1.401 P.D. | 24XL 1.528 P.D. | 28XL 1.783 P.D. | 30XL 1.910 P.D. |  |
| 100                 | .02                                       | .02            | .02            | .03            | .03            | .03             | .04             | .04             | .04             | .04             | .05             | .06             | .06             |  |
| 200                 | .04                                       | .04            | .05            | .06            | .06            | .07             | .07             | .08             | .08             | .09             | .10             | .11             | .12             |  |
| 300                 | .06                                       | .07            | .07            | .09            | .09            | .10             | .11             | .12             | .13             | .13             | .14             | .17             | .18             |  |
| 400                 | .08                                       | .09            | .10            | .11            | .12            | .13             | .14             | .16             | .17             | .17             | .19             | .23             | .24             |  |
| 500                 | .10                                       | .11            | .12            | .14            | .15            | .16             | .18             | .20             | .21             | .22             | .24             | .29             | .30             |  |
| 600                 | .12                                       | .13            | .14            | .17            | .18            | .19             | .22             | .24             | .26             | .27             | .29             | .34             | .37             |  |
| 700                 | .14                                       | .15            | .17            | .20            | .21            | .23             | .26             | .28             | .30             | .31             | .34             | .40             | .43             |  |
| 800                 | .16                                       | .17            | .19            | .23            | .24            | .26             | .30             | .33             | .34             | .36             | .40             | .48             | .49             |  |
| 900                 | .18                                       | .20            | .22            | .26            | .27            | .30             | .33             | .37             | .39             | .40             | .44             | .51             | .55             |  |
| 1000                | .20                                       | .22            | .24            | .29            | .31            | .33             | .37             | .41             | .43             | .45             | .49             | .57             | .62             |  |
| 1100                | .22                                       | .25            | .26            | .31            | .34            | .36             | .40             | .45             | .47             | .49             | .54             | .63             | .68             |  |
| 1160                | .23                                       | .26            | .28            | .33            | .36            | .38             | .42             | .46             | .50             | .52             | .56             | .66             | .71             |  |
| 1200                | .24                                       | .27            | .29            | .34            | .37            | .39             | .44             | .49             | .52             | .54             | .59             | .68             | .74             |  |
| 1300                | .26                                       | .29            | .31            | .37            | .40            | .42             | .48             | .53             | .56             | .58             | .64             | .74             | .80             |  |
| 1400                | .28                                       | .31            | .34            | .40            | .43            | .46             | .52             | .57             | .60             | .63             | .69             | .80             | .86             |  |
| 1500                | .30                                       | .34            | .36            | .43            | .46            | .49             | .55             | .61             | .64             | .67             | .74             | .86             | .92             |  |
| 1600                | .33                                       | .36            | .40            | .46            | .49            | .53             | .59             | .65             | .69             | .72             | .79             | .91             | .98             |  |
| 1700                | .35                                       | .38            | .42            | .49            | .52            | .56             | .63             | .67             | .73             | .77             | .83             | .97             | 1.04            |  |
| 1750                | .36                                       | .39            | .43            | .50            | .53            | .58             | .64             | .72             | .75             | .79             | .86             | 1.00            | 1.07            |  |
| 1800                | .37                                       | .40            | .44            | .51            | .55            | .59             | .66             | .74             | .77             | .81             | .88             | 1.03            | 1.10            |  |
| 2000                | .41                                       | .45            | .49            | .57            | .62            | .65             | .74             | .82             | .86             | .90             | .98             | 1.15            | 1.23            |  |
| 2200                | .45                                       | .49            | .54            | .63            | .68            | .72             | .81             | .90             | .94             | .99             | 1.08            | 1.25            | 1.34            |  |
| 2400                | .49                                       | .54            | .59            | .68            | .74            | .79             | .88             | .98             | 1.03            | 1.07            | 1.18            | 1.37            | 1.46            |  |
| 2600                | .53                                       | .58            | .64            | .74            | .80            | .85             | .96             | 1.06            | 1.12            | 1.17            | 1.25            | 1.48            | 1.58            |  |
| 2800                | .57                                       | .63            | .69            | .80            | .86            | .92             | 1.03            | 1.15            | 1.20            | 1.26            | 1.37            | 1.59            | 1.71            |  |
| 3000                | .61                                       | .67            | .74            | .86            | .92            | .98             | 1.10            | 1.23            | 1.28            | 1.34            | 1.46            | 1.71            | 1.82            |  |
| 3200                | .65                                       | .72            | .79            | .91            | .98            | 1.05            | 1.18            | 1.30            | 1.37            | 1.43            | 1.56            | 1.81            | 1.94            |  |
| 3400                | .69                                       | .77            | .83            | .97            | 1.04           | 1.11            | 1.25            | 1.38            | 1.45            | 1.52            | 1.66            | 1.92            | 2.05            |  |
| 3500                | .72                                       | .79            | .86            | 1.00           | 1.07           | 1.15            | 1.28            | 1.42            | 1.49            | 1.57            | 1.71            | 1.98            | 2.11            |  |
| 3600                | .74                                       | .81            | .88            | 1.03           | 1.10           | 1.18            | 1.32            | 1.46            | 1.54            | 1.61            | 1.75            | 2.03            | 2.16            |  |
| 3800                | .78                                       | .83            | .93            | 1.09           | 1.17           | 1.24            | 1.39            | 1.54            | 1.62            | 1.70            | 1.84            | 2.13            | 2.27            |  |
| 4000                | .82                                       | .90            | .98            | 1.15           | 1.23           | 1.30            | 1.46            | 1.63            | 1.71            | 1.78            | 1.94            | 2.24            | 2.39            |  |
| 4200                | .86                                       | .94            | 1.03           | 1.20           | 1.28           | 1.37            | 1.53            | 1.71            | 1.76            | 1.86            | 2.03            | 2.35            | 2.50            |  |
| 4400                | .90                                       | .99            | 1.08           | 1.25           | 1.34           | 1.43            | 1.61            | 1.78            | 1.86            | 1.95            | 2.12            | 2.45            | 2.61            |  |
| 4600                | .94                                       | 1.03           | 1.13           | 1.31           | 1.40           | 1.50            | 1.68            | 1.86            | 1.95            | 2.04            | 2.21            | 2.55            | 2.71            |  |
| 4800                | .98                                       | 1.07           | 1.18           | 1.37           | 1.46           | 1.56            | 1.75            | 1.94            | 2.03            | 2.13            | 2.30            | 2.65            | 2.82            |  |
| 5000                | 1.02                                      | 1.12           | 1.23           | 1.42           | 1.52           | 1.63            | 1.82            | 2.01            | 2.11            | 2.20            | 2.39            | 2.75            | 2.92            |  |
| 5500                | ....                                      | ....           | ....           | ....           | 1.67           | 1.78            | 2.00            | 2.20            | 2.30            | 2.41            | 2.61            | 2.99            | 3.18            |  |
| 6000                | ....                                      | ....           | ....           | ....           | 1.82           | 1.94            | 2.16            | 2.39            | 2.50            | 2.61            | 2.82            | 3.23            | 3.41            |  |
| 6500                | ....                                      | ....           | ....           | ....           | 1.96           | 2.09            | 2.34            | 2.57            | 2.69            | 2.80            | 3.03            | 3.42            | 3.64            |  |
| 7000                | ....                                      | ....           | ....           | ....           | 2.11           | 2.24            | 2.50            | 2.75            | 2.87            | 2.99            | 3.23            | 3.65            | 3.84            |  |
| 7500                | ....                                      | ....           | ....           | ....           | 2.25           | 2.39            | 2.66            | 2.92            | 3.05            | 3.18            | 3.41            | 3.84            | 4.03            |  |
| 8000                | ....                                      | ....           | ....           | ....           | ....           | ....            | 2.82            | 3.10            | 3.23            | 3.34            | 3.59            | 4.02            | 4.21            |  |
| 8500                | ....                                      | ....           | ....           | ....           | ....           | ....            | 2.97            | 3.26            | 3.39            | 3.52            | 3.76            | 4.19            | 4.37            |  |
| 9000                | ....                                      | ....           | ....           | ....           | ....           | ....            | 3.13            | 3.41            | 3.55            | 3.68            | 3.92            | 4.34            | 4.51            |  |
| 9500                | ....                                      | ....           | ....           | ....           | ....           | ....            | 3.28            | 3.56            | 3.70            | 3.83            | 4.07            | 4.47            | 4.63            |  |
| 10000               | ....                                      | ....           | ....           | ....           | ....           | ....            | 3.41            | 3.71            | 3.84            | 3.97            | 4.21            | 4.59            | 4.72            |  |

### XL Belt Width Table

| Belt Width Factor | .15 | .28 | .35  | .42 | .57 | .71 | .86 | 1.00 | 1.29  | 1.56  |
|-------------------|-----|-----|------|-----|-----|-----|-----|------|-------|-------|
| Belt Width        | 1/4 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | 7/8 | 1    | 1-1/4 | 1-1/2 |
| Belt Width Code   | 025 | 037 | 043  | 050 | 062 | 075 | 087 | 100  | 125   | 150   |

Shaded area indicates stock belt widths.

◇ Pulley diameter is below recommended minimum.

A reduction in belt life should be expected. Suggest alternate drive, when ever possible.

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|



## L Stock Drive Selections

| RPM of Faster Shaft | HP for a 1" Wide Belt for Various Pulleys |                      |                       |                      |                        |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|---------------------|---|----------------------|-----------------------|----------------------|------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                     | 10L<br>1.194<br>P.D.                      | 12L<br>1.432<br>P.D. | 13L Δ<br>1552<br>P.D. | 14L<br>1.671<br>P.D. | 15L Δ<br>1.790<br>P.D. | 16L<br>1.910<br>P.D. | 17L<br>2.029<br>P.D. | 18L<br>2.149<br>P.D. | 19L<br>2.268<br>P.D. | 20L<br>2.387<br>P.D. | 21L<br>2.507<br>P.D. | 22L<br>2.626<br>P.D. | 24L<br>2.865<br>P.D. | 26L<br>3.104<br>P.D. | 28L<br>3.342<br>P.D. | 30L<br>3.581<br>P.D. | 32L<br>3.820<br>P.D. | 40L<br>4.775<br>P.D. | 48L<br>5.730<br>P.D. |
| 100                 | .050                                      | .06                  | .07                   | .07                  | .08                    | .08                  | .09                  | .09                  | .10                  | .10                  | .11                  | .12                  | .13                  | .14                  | .15                  | .16                  | .17                  | .21                  | .25                  |
| 200                 | .100                                      | .13                  | .14                   | .15                  | .16                    | .17                  | .18                  | .19                  | .20                  | .21                  | .22                  | .23                  | .25                  | .27                  | .29                  | .31                  | .33                  | .42                  | .50                  |
| 300                 | .160                                      | .19                  | .20                   | .22                  | .23                    | .25                  | .27                  | .28                  | .30                  | .31                  | .33                  | .34                  | .38                  | .41                  | .44                  | .47                  | .50                  | .63                  | .75                  |
| 400                 | .210                                      | .25                  | .27                   | .29                  | .31                    | .33                  | .35                  | .38                  | .40                  | .42                  | .44                  | .46                  | .50                  | .54                  | .58                  | .62                  | .67                  | .83                  | 1.00                 |
| 500                 | .260                                      | .31                  | .34                   | .37                  | .39                    | .42                  | .44                  | .47                  | .50                  | .52                  | .55                  | .57                  | .63                  | .68                  | .73                  | .78                  | .83                  | 1.04                 | 1.24                 |
| 600                 | .310                                      | .37                  | .41                   | .44                  | .47                    | .50                  | .53                  | .56                  | .59                  | .63                  | .66                  | .69                  | .75                  | .81                  | .87                  | .94                  | 1.00                 | 1.24                 | 1.49                 |
| 700                 | .370                                      | .44                  | .47                   | .51                  | .55                    | .58                  | .62                  | .66                  | .69                  | .73                  | .77                  | .80                  | .87                  | .95                  | 1.02                 | 1.09                 | 1.16                 | 1.45                 | 1.73                 |
| 800                 | .420                                      | .50                  | .54                   | .58                  | .62                    | .67                  | .71                  | .75                  | .79                  | .83                  | .87                  | .92                  | 1.00                 | 1.08                 | 1.16                 | 1.24                 | 1.32                 | 1.85                 | 1.97                 |
| 870                 | .450                                      | .54                  | .59                   | .63                  | .68                    | .73                  | .77                  | .82                  | .86                  | .91                  | .95                  | 1.00                 | 1.08                 | 1.17                 | 1.26                 | 1.35                 | 1.44                 | 1.79                 | 2.14                 |
| 900                 | .470                                      | .56                  | .61                   | .66                  | .70                    | .75                  | .80                  | .84                  | .89                  | .94                  | .98                  | 1.03                 | 1.12                 | 1.21                 | 1.30                 | 1.40                 | 1.49                 | 1.65                 | 2.21                 |
| 1000                | .520                                      | .62                  | .68                   | .73                  | .78                    | .83                  | .89                  | .94                  | .99                  | 1.04                 | 1.09                 | 1.14                 | 1.24                 | 1.34                 | 1.45                 | 1.55                 | 1.65                 | 2.05                 | 2.44                 |
| 1100                | .570                                      | .69                  | .75                   | .80                  | .86                    | .92                  | .97                  | 1.03                 | 1.08                 | 1.14                 | 1.20                 | 1.25                 | 1.36                 | 1.48                 | 1.59                 | 1.70                 | 1.81                 | 2.25                 | 2.67                 |
| 1160                | .600                                      | .72                  | .79                   | .85                  | .91                    | .97                  | 1.03                 | 1.08                 | 1.14                 | 1.20                 | 1.26                 | 1.32                 | 1.44                 | 1.56                 | 1.67                 | 1.79                 | 1.91                 | 2.36                 | 2.81                 |
| 1200                | .630                                      | .750                 | .81                   | .88                  | .94                    | 1.00                 | 1.06                 | 1.12                 | 1.18                 | 1.24                 | 1.30                 | 1.36                 | 1.49                 | 1.61                 | 1.73                 | 1.85                 | 1.97                 | 2.44                 | 2.90                 |
| 1300                | .680                                      | .810                 | .88                   | .95                  | 1.01                   | 1.08                 | 1.15                 | 1.21                 | 1.28                 | 1.34                 | 1.41                 | 1.48                 | 1.61                 | 1.74                 | 1.87                 | 2.00                 | 2.13                 | 2.63                 | 3.12                 |
| 1400                | .730                                      | .870                 | .95                   | 1.02                 | 1.09                   | 1.16                 | 1.23                 | 1.30                 | 1.38                 | 1.45                 | 1.52                 | 1.59                 | 1.73                 | 1.87                 | 2.01                 | 2.15                 | 2.29                 | 2.82                 | 3.34                 |
| 1500                | .780                                      | .940                 | 1.020                 | 1.09                 | 1.16                   | 1.24                 | 1.32                 | 1.40                 | 1.47                 | 1.55                 | 1.62                 | 1.70                 | 1.85                 | 2.00                 | 2.15                 | 2.30                 | 2.44                 | 3.01                 | 3.55                 |
| 1600                | .830                                      | 1.000                | 1.080                 | 1.16                 | 1.24                   | 1.32                 | 1.41                 | 1.49                 | 1.57                 | 1.65                 | 1.73                 | 1.81                 | 1.97                 | 2.13                 | 2.28                 | 2.44                 | 2.60                 | 3.20                 | 3.76                 |
| 1700                | .890                                      | 1.060                | 1.150                 | 1.23                 | 1.32                   | 1.41                 | 1.49                 | 1.58                 | 1.66                 | 1.75                 | 1.83                 | 1.92                 | 2.09                 | 2.26                 | 2.42                 | 2.59                 | 2.75                 | 3.38                 | 3.97                 |
| 1750                | .910                                      | 1.090                | 1.170                 | 1.27                 | 1.36                   | 1.45                 | 1.54                 | 1.62                 | 1.71                 | 1.80                 | 1.89                 | 1.98                 | 2.15                 | 2.32                 | 2.49                 | 2.66                 | 2.83                 | 3.47                 | 4.06                 |
| 1800                | ....                                      | 1.120                | 1.210                 | 1.300                | 1.39                   | 1.49                 | 1.58                 | 1.67                 | 1.76                 | 1.85                 | 1.94                 | 2.03                 | 2.21                 | 2.38                 | 2.56                 | 2.73                 | 2.90                 | 3.55                 | 4.16                 |
| 1900                | ....                                      | 1.180                | 1.270                 | 1.380                | 1.47                   | 1.57                 | 1.66                 | 1.76                 | 1.85                 | 1.95                 | 2.04                 | 2.14                 | 2.32                 | 2.51                 | 2.69                 | 2.87                 | 3.05                 | 3.73                 | 4.35                 |
| 2000                | ....                                      | 1.240                | 1.350                 | 1.450                | 1.55                   | 1.65                 | 1.75                 | 1.85                 | 1.95                 | 2.05                 | 2.15                 | 2.25                 | 2.44                 | 2.63                 | 2.82                 | 3.01                 | 3.19                 | 3.89                 | 4.54                 |
| 2200                | ....                                      | 1.360                | 1.480                 | 1.590                | 1.70                   | 1.81                 | 1.92                 | 2.03                 | 2.14                 | 2.25                 | 2.35                 | 2.46                 | 2.67                 | 2.88                 | 3.08                 | 3.28                 | 3.49                 | 4.23                 | 4.89                 |
| 2400                | ....                                      | 1.490                | 1.610                 | 1.730                | 1.85                   | 1.97                 | 2.09                 | 2.21                 | 2.32                 | 2.44                 | 2.56                 | 2.67                 | 2.90                 | 3.12                 | 3.34                 | 3.56                 | 3.76                 | 4.54                 | 5.21                 |
| 2500                | ....                                      | 1.550                | 1.680                 | 1.800                | 1.920                  | 2.05                 | 2.17                 | 2.30                 | 2.42                 | 2.54                 | 2.66                 | 2.78                 | 3.01                 | 3.24                 | 3.47                 | 3.68                 | 3.90                 | 4.69                 | 5.35                 |
| 2600                | ....                                      | 1.610                | 1.740                 | 1.870                | 2.000                  | 2.13                 | 2.26                 | 2.38                 | 2.51                 | 2.63                 | 2.76                 | 2.88                 | 3.12                 | 3.36                 | 3.59                 | 3.81                 | 4.03                 | 4.83                 | 5.48                 |
| 2800                | ....                                      | 1.730                | 1.870                 | 2.010                | 2.140                  | 2.29                 | 2.42                 | 2.56                 | 2.69                 | 2.82                 | 2.96                 | 3.09                 | 3.34                 | 3.59                 | 3.83                 | 4.06                 | 4.29                 | 5.10                 | 5.73                 |
| 3000                | ....                                      | 1.850                | 2.000                 | 2.150                | 2.290                  | 2.44                 | 2.59                 | 2.73                 | 2.87                 | 3.01                 | 3.15                 | 3.29                 | 3.55                 | 3.81                 | 4.06                 | 4.30                 | 4.54                 | 5.35                 | 5.94                 |
| 3200                | ....                                      | ....                 | 2.130                 | 2.280                | 2.440                  | 2.60                 | 2.74                 | 2.90                 | 3.04                 | 3.19                 | 3.34                 | 3.48                 | 3.76                 | 4.03                 | 4.29                 | 4.54                 | 4.77                 | 5.57                 | 6.11                 |
| 3400                | ....                                      | ....                 | 2.260                 | 2.420                | 2.580                  | 2.75                 | 2.91                 | 3.07                 | 3.22                 | 3.37                 | 3.53                 | 3.67                 | 3.97                 | 4.24                 | 4.50                 | 4.76                 | 4.99                 | 5.78                 | 6.23                 |
| 3500                | ....                                      | ....                 | 2.320                 | 2.490                | 2.650                  | 2.83                 | 2.99                 | 3.15                 | 3.31                 | 3.46                 | 3.62                 | 3.77                 | 4.06                 | 4.35                 | 4.61                 | 4.86                 | 5.10                 | 5.87                 | 6.27                 |
| 3600                | ....                                      | ....                 | ....                  | 2.550                | 2.730                  | 2.900                | 3.070                | 3.23                 | 3.39                 | 3.55                 | 3.71                 | 3.86                 | 4.16                 | 4.45                 | 4.72                 | 4.97                 | 5.21                 | 5.95                 | 6.31                 |
| 3800                | ....                                      | ....                 | ....                  | 2.690                | 2.860                  | 3.030                | 3.220                | 3.40                 | 3.56                 | 3.73                 | 3.89                 | 4.05                 | 4.35                 | 4.64                 | 4.91                 | 5.16                 | 5.40                 | 6.09                 | 6.33                 |
| 4000                | ....                                      | ....                 | ....                  | 2.830                | 3.000                  | 3.200                | 3.370                | 3.56                 | 3.73                 | 3.89                 | 4.06                 | 4.23                 | 4.54                 | 4.83                 | 5.10                 | 5.34                 | 5.57                 | 6.21                 | 6.31                 |
| 4200                | ....                                      | ....                 | ....                  | ....                 | 3.150                  | 3.340                | 3.530                | 3.72                 | 3.88                 | 4.06                 | 4.23                 | 4.40                 | 4.72                 | 5.01                 | 5.28                 | 5.52                 | 5.74                 | 6.28                 | 6.23                 |
| 4400                | ....                                      | ....                 | ....                  | ....                 | 3.280                  | 3.490                | 3.670                | 3.86                 | 4.04                 | 4.22                 | 4.40                 | 4.57                 | 4.89                 | 5.19                 | 5.44                 | 5.68                 | 5.88                 | 6.33                 | 6.09†                |
| 4600                | ....                                      | ....                 | ....                  | ....                 | 3.410                  | 3.630                | 3.820                | 4.01                 | 4.20                 | 4.38                 | 4.56                 | 4.73                 | 5.05                 | 5.34                 | 5.59                 | 5.82                 | 6.01                 | 6.35                 | 5.89†                |
| 4800                | ....                                      | ....                 | ....                  | ....                 | 3.540                  | 3.770                | 3.960                | 4.17                 | 4.35                 | 4.54                 | 4.72                 | 4.89                 | 5.20                 | 5.48                 | 5.73                 | 5.94                 | 6.12                 | 6.32                 | 5.63†                |
| 5000                | ....                                      | ....                 | ....                  | ....                 | 3.670                  | 3.910                | 4.100                | 4.310                | 4.500                | 4.68                 | 4.86                 | 5.04                 | 5.35                 | 5.63                 | 5.86                 | 6.06                 | 6.20                 | 6.26                 | 5.30†                |
| 5200                | ....                                      | ....                 | ....                  | ....                 | 3.810                  | 4.030                | 4.230                | 4.450                | 4.630                | 4.82                 | 5.01                 | 5.18                 | 5.48                 | 5.76                 | 5.98                 | 6.15                 | 6.27                 | 6.16†                | 4.91†                |
| 5400                | ....                                      | ....                 | ....                  | ....                 | 3.930                  | 4.170                | 4.370                | 4.590                | 4.770                | 4.96                 | 5.14                 | 5.31                 | 5.61                 | 5.88                 | 6.07                 | 6.23                 | 6.32                 | 6.01†                | 4.44†                |
| 5600                | ....                                      | ....                 | ....                  | ....                 | 4.050                  | 4.290                | 4.500                | 4.720                | 4.910                | 5.09                 | 5.28                 | 5.44                 | 5.73                 | 5.98                 | 6.16                 | 6.28                 | 6.34                 | 5.83†                | 3.89†                |
| 5800                | ....                                      | ....                 | ....                  | ....                 | 4.170                  | 4.420                | 4.620                | 4.840                | 5.040                | 5.22                 | 5.40                 | 5.57                 | 5.84                 | 6.07                 | 6.23                 | 6.32                 | 6.34                 | 5.60†                | 3.27†                |
| 6000                | ....                                      | ....                 | ....                  | ....                 | 4.290                  | 4.50                 | 4.750                | 4.970                | 5.150                | 5.34                 | 5.52                 | 5.68                 | 5.93                 | 6.15                 | 6.28                 | 6.35                 | 6.33                 | 5.32†                | 2.57†                |

### L Belt Width Table

| Belt Width Factor | .28 | .35  | .45 | .57 | .71 | .86 | 1.00 | 1.29  | 1.56  | 1.84  | 2.14 | 2.72  | 3.36 |
|-------------------|-----|------|-----|-----|-----|-----|------|-------|-------|-------|------|-------|------|
| Belt Width        | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | 7/8 | 1    | 1-1/4 | 1-1/2 | 1-3/4 | 2    | 2-1/2 | 3    |
| Belt Width Code   | 037 | 043  | 050 | 062 | 075 | 087 | 100  | 125   | 150   | 175   | 200  | 250   | 300  |

Shaded area indicates stock belt widths.

Δ Special non-stock sizes.

† Belt Speed exceeds 6500 FPM – consult Dodge.

◇ Pulley diameter is below recommended minimum.

A reduction in belt life should be expected. Suggest alternate drive, when ever possible.

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|



# SELECTION

## H Stock Drive Selections

| RPM of Faster Shaft | HP for a 1" Wide Belt for Various Pulleys |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                        |                      |                        |                      |
|---------------------|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|------------------------|----------------------|------------------------|----------------------|
|                     | 14H<br>2.228<br>P.D.                      | 16H<br>2.546<br>P.D. | 17H<br>2.706<br>P.D. | 18H<br>2.865<br>P.D. | 19H<br>3.024<br>P.D. | 20H<br>3.183<br>P.D. | 21H<br>3.342<br>P.D. | 22H<br>3.501<br>P.D. | 24H<br>3.820<br>P.D. | 26H<br>4.138<br>P.D. | 28H<br>4.456<br>P.D. | 30H<br>4.775<br>P.D. | 32H<br>5.039<br>P.D. | 36H Δ<br>5.730<br>P.D. | 40H<br>6.366<br>P.D. | 44H Δ<br>7.003<br>P.D. | 48H<br>7.639<br>P.D. |
| 100                 | .25                                       | .28                  | .30                  | .32                  | .34                  | .35                  | .37                  | .39                  | .42                  | .46                  | .50                  | .53                  | .57                  | .64                    | .71                  | .78                    | .85                  |
| 200                 | .50                                       | .57                  | .60                  | .64                  | .67                  | .71                  | .74                  | .78                  | .85                  | .92                  | .99                  | 1.06                 | 1.13                 | 1.27                   | 1.41                 | 1.56                   | 1.70                 |
| 300                 | .74                                       | .85                  | .90                  | .96                  | 1.01                 | 1.06                 | 1.11                 | 1.17                 | 1.27                 | 1.38                 | 1.49                 | 1.59                 | 1.70                 | 1.91                   | 2.12                 | 2.33                   | 2.54                 |
| 400                 | .99                                       | 1.13                 | 1.20                 | 1.27                 | 1.34                 | 1.41                 | 1.49                 | 1.56                 | 1.70                 | 1.84                 | 1.98                 | 2.12                 | 2.26                 | 2.54                   | 2.82                 | 3.10                   | 3.38                 |
| 500                 | 1.24                                      | 1.41                 | 1.50                 | 1.59                 | 1.68                 | 1.77                 | 1.86                 | 1.94                 | 2.12                 | 2.30                 | 2.47                 | 2.65                 | 2.82                 | 3.17                   | 3.52                 | 3.87                   | 4.22                 |
| 600                 | 1.49                                      | 1.70                 | 1.80                 | 1.91                 | 2.02                 | 2.12                 | 2.23                 | 2.33                 | 2.54                 | 2.75                 | 2.96                 | 3.17                 | 3.38                 | 3.80                   | 4.22                 | 4.64                   | 5.05                 |
| 700                 | 1.73                                      | 1.98                 | 2.10                 | 2.23                 | 2.35                 | 2.47                 | 2.59                 | 2.72                 | 2.96                 | 3.21                 | 3.45                 | 3.70                 | 3.94                 | 4.43                   | 4.91                 | 5.40                   | 5.88                 |
| 800                 | 1.98                                      | 2.26                 | 2.40                 | 2.54                 | 2.68                 | 2.82                 | 2.96                 | 3.10                 | 3.38                 | 3.66                 | 3.94                 | 4.22                 | 4.50                 | 5.05                   | 5.60                 | 6.15                   | 6.69                 |
| 870                 | 2.15                                      | 2.46                 | 2.61                 | 2.76                 | 2.91                 | 3.07                 | 3.22                 | 3.37                 | 3.68                 | 3.98                 | 4.28                 | 4.58                 | 4.89                 | 5.49                   | 6.08                 | 6.67                   | 7.26                 |
| 900                 | 2.23◇                                     | 2.54                 | 2.70                 | 2.86                 | 3.01                 | 3.17                 | 3.33                 | 3.49                 | 3.80                 | 4.11                 | 4.43                 | 4.74                 | 5.05                 | 5.67                   | 6.29                 | 6.89                   | 7.50                 |
| 1000                | 2.47◇                                     | 2.82                 | 3.00                 | 3.17                 | 3.35                 | 3.52                 | 3.70                 | 3.87                 | 4.22                 | 4.57                 | 4.91                 | 5.26                 | 5.60                 | 6.29                   | 6.96                 | 7.63                   | 8.30                 |
| 1100                | 2.72◇                                     | 3.10                 | 3.30                 | 3.49                 | 3.68                 | 3.87                 | 4.06                 | 4.26                 | 4.64                 | 5.02                 | 5.40                 | 5.77                 | 6.15                 | 6.90                   | 7.63                 | 8.36                   | 9.08                 |
| 1160                | 2.86◇                                     | 3.27                 | 3.47                 | 3.68                 | 3.88                 | 4.08                 | 4.28                 | 4.48                 | 4.89                 | 5.28                 | 5.68                 | 6.08                 | 6.48                 | 7.26                   | 8.03                 | 8.80                   | 9.55                 |
| 1200                | ....                                      | 3.38◇                | 3.59                 | 3.80                 | 4.01                 | 4.22                 | 4.43                 | 4.64                 | 5.05                 | 5.46                 | 5.88                 | 6.29                 | 6.69                 | 7.50                   | 8.30                 | 9.08                   | 9.86                 |
| 1300                | ....                                      | 3.66◇                | 3.89                 | 4.12                 | 4.34                 | 4.57                 | 4.79                 | 5.01                 | 5.46                 | 5.91                 | 6.35                 | 6.79                 | 7.23                 | 8.10                   | 8.95                 | 9.79                   | 10.62                |
| 1400                | ....                                      | 3.94◇                | 4.19                 | 4.43                 | 4.67                 | 4.91                 | 5.15                 | 5.39                 | 5.87                 | 6.35                 | 6.83                 | 7.30                 | 7.77                 | 8.69                   | 9.60                 | 10.49                  | 11.36                |
| 1500                | ....                                      | 4.22◇                | 4.48◇                | 4.74                 | 5.00                 | 5.26                 | 5.51                 | 5.77                 | 6.28                 | 6.79                 | 7.30                 | 7.80                 | 8.30                 | 9.28                   | 10.24                | 11.18                  | 12.09                |
| 1600                | ....                                      | 4.50◇                | 4.78◇                | 5.05                 | 5.33                 | 5.60                 | 5.87                 | 6.15                 | 6.69                 | 7.23                 | 7.77                 | 8.30                 | 8.82                 | 9.86                   | 10.87                | 11.85                  | 12.80                |
| 1700                | ....                                      | 4.77◇                | 5.07◇                | 5.36                 | 5.65                 | 5.94                 | 6.23                 | 6.52                 | 7.10                 | 7.67                 | 8.23                 | 8.79                 | 9.34                 | 10.43                  | 11.49                | 12.51                  | 13.50                |
| 1750                | ....                                      | 4.91◇                | 5.22◇                | 5.52                 | 5.81                 | 6.11                 | 6.41                 | 6.71                 | 7.30                 | 7.88                 | 8.46                 | 9.03                 | 9.60                 | 10.71                  | 11.79                | 12.84                  | 13.84                |
| 1800                | ....                                      | 5.05◇                | 5.36◇                | 5.67◇                | 5.98                 | 6.28                 | 6.59                 | 6.89                 | 7.50                 | 8.10                 | 8.69                 | 9.28                 | 9.86                 | 10.99                  | 12.09                | 13.15                  | 14.18                |
| 1900                | ....                                      | 5.42◇                | 5.66◇                | 5.98◇                | 6.30                 | 6.62                 | 6.94                 | 7.26                 | 7.90                 | 8.53                 | 9.15                 | 9.76                 | 10.36                | 11.55                  | 12.69                | 13.78                  | 14.83                |
| 2000                | ....                                      | 5.60                 | 5.95◇                | 6.28◇                | 6.62                 | 6.96                 | 7.30                 | 7.63                 | 8.29                 | 8.95                 | 9.60                 | 10.24                | 10.87                | 12.10                  | 13.27                | 14.40                  | 15.46                |
| 2100                | ....                                      | ....                 | ....                 | 6.59◇                | 6.94                 | 7.29                 | 7.65                 | 8.00                 | 8.69                 | 9.37                 | 10.05                | 10.71                | 11.36                | 12.63                  | 13.84                | 14.99                  | 16.08                |
| 2200                | ....                                      | ....                 | ....                 | 6.89◇                | 7.26                 | 7.63                 | 8.00                 | 8.36                 | 9.08                 | 9.79                 | 10.49                | 11.18                | 11.85                | 13.16                  | 14.40                | 15.57                  | 16.66                |
| 2300                | ....                                      | ....                 | ....                 | 7.20◇                | 7.58                 | 7.96                 | 8.34                 | 8.72                 | 9.47                 | 10.21                | 10.93                | 11.64                | 12.33                | 13.68                  | 14.94                | 16.13                  | 17.23                |
| 2400                | ....                                      | ....                 | ....                 | 7.50◇                | 7.90                 | 8.29                 | 8.69                 | 9.08                 | 9.85                 | 10.62                | 11.37                | 12.09                | 12.80                | 14.18                  | 15.46                | 16.66                  | 17.76                |
| 2500                | ....                                      | ....                 | ....                 | 7.80◇                | 8.21◇                | 8.62                 | 9.03                 | 9.44                 | 10.23                | 11.02                | 11.80                | 12.54                | 13.27                | 14.68                  | 15.98                | 17.18                  | 18.27                |
| 2600                | ....                                      | ....                 | ....                 | 8.10◇                | 8.52◇                | 8.95                 | 9.37                 | 9.79                 | 10.61                | 11.42                | 12.22                | 12.98                | 13.72                | 15.16                  | 16.47                | 17.67                  | 18.75                |
| 2800                | ....                                      | ....                 | ....                 | 8.69◇                | 9.14◇                | 9.59                 | 10.04                | 10.49                | 11.35                | 12.21                | 13.05                | 13.84                | 14.61                | 16.09                  | 17.41                | 18.60                  | 19.63                |
| 3000                | ....                                      | ....                 | ....                 | 9.28◇                | 9.75◇                | 10.23                | 10.70                | 11.18                | 12.08                | 12.98                | 13.85                | 14.67                | 15.46                | 16.96                  | 18.27                | 19.42                  | 20.38                |
| 3200                | ....                                      | ....                 | ....                 | 9.85◇                | 10.36◇               | 10.85                | 11.35                | 11.85                | 12.79                | 13.72                | 14.63                | 15.46                | 16.27                | 17.78                  | 19.06                | 20.14                  | 20.99                |
| 3400                | ....                                      | ....                 | ....                 | 10.43◇               | 10.95◇               | 11.47                | 11.99                | 12.51                | 13.48                | 14.45                | 15.37                | 16.22                | 17.03                | 18.53                  | 19.76                | 20.75                  | 21.46†               |
| 3500                | ....                                      | ....                 | ....                 | 10.71◇               | 11.24◇               | 11.77                | 12.31                | 12.84                | 13.82                | 14.80                | 15.74                | 16.59                | 17.40                | 18.89                  | 20.08                | 21.01                  | 21.63†               |
| 3600                | ....                                      | ....                 | ....                 | ....                 | ....                 | 12.07◇               | 12.62                | 13.16                | 14.16                | 15.15                | 16.09                | 16.95                | 17.75                | 19.22                  | 20.37                | 21.24†                 | 21.77†               |
| 3800                | ....                                      | ....                 | ....                 | ....                 | ....                 | 12.67◇               | 13.23                | 13.79                | 14.81                | 15.82                | 16.78                | 17.63                | 18.42                | 19.85                  | 20.89                | 21.60†                 | 21.92†               |
| 4000                | ....                                      | ....                 | ....                 | ....                 | ....                 | 13.24◇               | 13.82                | 14.40                | 15.44                | 16.46                | 17.43                | 18.27                | 19.04                | 20.40                  | 21.31†               | 21.83†                 | 21.90†               |
| 4200                | ....                                      | ....                 | ....                 | ....                 | ....                 | 13.81◇               | 14.41                | 15.00                | 16.04                | 17.08                | 18.05                | 18.87                | 19.61                | 20.88                  | 21.62†               | 21.93†                 | 21.70†               |
| 4400                | ....                                      | ....                 | ....                 | ....                 | ....                 | 14.36◇               | 14.97                | 15.57                | 16.63                | 17.67                | 18.62                | 19.42                | 20.12                | 21.27†                 | 21.83†               | 21.87†                 | 21.32†               |
| 4600                | ....                                      | ....                 | ....                 | ....                 | ....                 | 14.90◇               | 15.52◇               | 16.13                | 17.18                | 18.22                | 19.16                | 19.90                | 20.57                | 21.58†                 | 21.82†               | 21.67†                 | 20.73†               |
| 4800                | ....                                      | ....                 | ....                 | ....                 | ....                 | 15.42◇               | 16.05◇               | 16.67                | 17.71                | 18.74                | 19.66                | 20.37                | 20.96                | 21.81†                 | 21.89†               | 21.30†                 | 19.93†               |
| 5000                | ....                                      | ....                 | ....                 | ....                 | ....                 | 15.93◇               | 16.56◇               | 17.19                | 18.22                | 19.23                | 20.12                | 20.77                | 21.29†               | 21.95†                 | 21.73†               | 20.77†                 | ....                 |
| 5200                | ....                                      | ....                 | ....                 | ....                 | ....                 | 16.41◇               | 17.05◇               | 17.69                | 18.69                | 19.68                | 20.53                | 21.11†               | 21.54†               | 21.99†                 | 21.44†               | 20.06†                 | ....                 |
| 5400                | ....                                      | ....                 | ....                 | ....                 | ....                 | 18.89◇               | 17.53◇               | 18.16◇               | 19.13                | 20.09                | 20.90                | 21.39†               | 21.73†               | 21.93†                 | 21.02†               | ....                   | ....                 |
| 5600                | ....                                      | ....                 | ....                 | ....                 | ....                 | 17.34◇               | 17.98◇               | 18.61◇               | 19.55                | 20.47                | 21.22†               | 21.62†               | 21.85†               | 21.76†                 | 20.45†               | ....                   | ....                 |
| 5800                | ....                                      | ....                 | ....                 | ....                 | ....                 | 17.77◇               | 18.41◇               | 19.04◇               | 19.93                | 20.80                | 21.49†               | 21.78†               | 21.89†               | 21.50†                 | 19.75†               | ....                   | ....                 |
| 6000                | ....                                      | ....                 | ....                 | ....                 | ....                 | 18.19◇               | 18.82◇               | 19.41◇               | 20.27                | 21.10†               | 21.70†               | 21.88†               | 21.85†               | 21.12†                 | ....                 | ....                   | ....                 |

### H Belt Width Table

| Belt Width Factor | .42 | .57 | .71 | .86 | 1.00 | 1.29  | 1.56  | 1.84  | 2.14 | 2.72  | 3.36 | 4.06  | 4.76 | 6.15 | 7.50 | 8.89 | 10.32 |
|-------------------|-----|-----|-----|-----|------|-------|-------|-------|------|-------|------|-------|------|------|------|------|-------|
| Belt Width        | 1/2 | 5/8 | 3/4 | 7/8 | 1    | 1-1/4 | 1-1/2 | 1-3/4 | 2    | 2-1/2 | 3    | 3-1/2 | 4    | 5    | 6    | 7    | 8     |
| Belt Width Code   | 050 | 062 | 075 | 087 | 100  | 125   | 150   | 175   | 200  | 250   | 300  | 350   | 400  | 500  | 600  | 700  | 800   |

Shaded area indicates stock belt widths.

Δ Special non-stock sizes.

† Belt Speed exceeds 6500 FPM – consult Dodge.

◇ Pulley diameter is below recommended minimum.

A reduction in belt life should be expected. Suggest alternate drive, when ever possible.

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|





## XH Basic Horsepower Ratings

## XXH Basic Horsepower Ratings

| RPM of Faster Shaft | HP for a 1" Wide Belt for Various Pulleys |            |            |            |            |            |            |            |             |            | RPM of Faster Shaft | HP for a 1" Wide Belt for Various Pulleys |            |            |             |             |             |             |  |  |  |
|---------------------|---|------------|------------|------------|------------|------------|------------|------------|-------------|------------|---------------------|---|------------|------------|-------------|-------------|-------------|-------------|--|--|--|
|                     | 18 XH                                     | 20 XH      | 22 XH      | 24 XH      | 26 XH      | 28 XH      | 30 XH      | 32 XH      | 40 XH       | 18 XXH     |                     | 20 XXH                                    | 22 XXH     | 24 XXH     | 26 XXH      | 30 XXH      | 32 XXH      | 40 XXH      |  |  |  |
|                     | 5.013 P.D.                                | 5.570 P.D. | 6.127 P.D. | 6.685 P.D. | 7.241 P.D. | 7.799 P.D. | 8.356 P.D. | 8.913 P.D. | 11.141 P.D. | 7.162 P.D. |                     | 7.958 P.D.                                | 8.753 P.D. | 9.549 P.D. | 10.345 P.D. | 11.937 P.D. | 13.528 P.D. | 15.915 P.D. |  |  |  |
| 100                 | 0.76◇                                     | 0.84       | 0.93       | 1.01       | 1.11       | 1.18       | 1.26       | 1.34       | 1.68        | 100        | 1.33◇               | 1.48                                      | 1.83       | 1.77       | 1.92        | 2.21        | 2.51        | 2.95        |  |  |  |
| 200                 | 1.51◇                                     | 1.68       | 1.85       | 2.02       | 2.19       | 2.36       | 2.52       | 2.69       | 3.37        | 200        | 2.66◇               | 2.95                                      | 3.24       | 3.54       | 3.84        | 4.42        | 5.00        | 5.87        |  |  |  |
| 300                 | 2.28◇                                     | 2.52       | 2.78       | 3.03       | 3.28       | 3.54       | 3.78       | 4.03       | 5.02        | 300        | 3.98◇               | 4.42                                      | 4.85       | 5.29       | 5.72        | 6.58        | 7.45        | 8.73        |  |  |  |
| 400                 | 3.03◇                                     | 3.37       | 3.70       | 4.03       | 4.37       | 4.70       | 5.02       | 5.36       | 6.66        | 400        | 5.29◇               | 5.87                                      | 6.44       | 7.02       | 7.60        | 8.73        | 9.85        | 11.49       |  |  |  |
| 480                 | 3.63◇                                     | 4.03       | 4.43       | 4.82       | 5.22       | 5.62       | 6.00       | 6.40       | 7.95        | 480        | 6.33◇               | 7.02                                      | 7.70       | 8.39       | 9.06        | 10.40       | 11.71       | 13.61       |  |  |  |
| 500                 | 3.78◇                                     | 4.20◇      | 4.61       | 5.02       | 5.44       | 5.85       | 6.26       | 6.71       | 8.26        | 500        | 6.63◇               | 7.31◇                                     | 8.02       | 8.73       | 9.43        | 10.81       | 12.17       | 14.13       |  |  |  |
| 510                 | 3.86◇                                     | 4.29◇      | 4.71       | 5.12       | 5.54       | 5.97       | 6.37       | 6.80       | 8.42        | 510        | 6.72◇               | 7.45◇                                     | 8.17       | 8.89       | 9.61        | 11.02       | 12.39       | 14.39       |  |  |  |
| 570                 | 4.30◇                                     | 4.77◇      | 5.25       | 5.72       | 6.17       | 6.65       | 7.10       | 7.56       | 9.36        | 570        | 7.50◇               | 8.31◇                                     | 9.11       | 9.90       | 10.68       | 12.23       | 13.73       | 15.89       |  |  |  |
| 600                 | 4.53◇                                     | 5.02◇      | 5.52       | 6.00       | 6.50       | 6.98       | 7.47       | 7.95       | 9.82        | 600        | 7.88◇               | 8.73◇                                     | 9.57       | 10.40      | 11.22       | 12.83       | 14.39       | 16.62       |  |  |  |
| 680                 | 5.12◇                                     | 5.68◇      | 6.24       | 6.80       | 7.34       | 7.88       | 8.42       | 8.96       | 11.04       | 680        | 8.89◇               | 9.85◇                                     | 10.78      | 11.71      | 12.62       | 14.39       | 16.09       | 18.49       |  |  |  |
| 700                 | 5.27◇                                     | 5.84◇      | 6.42       | 6.98       | 7.54       | 8.10       | 8.66       | 9.21       | 11.35       | 700        | 9.15◇               | 10.13◇                                    | 11.09      | 12.03      | 12.96       | 14.77       | 16.51       | 18.93       |  |  |  |
| 800                 | 6.00◇                                     | 6.66◇      | 7.31       | 7.95       | 8.59       | 9.21       | 9.83       | 10.44      | 12.80       | 800        | 10.40◇              | 11.49◇                                    | 12.56      | 13.62      | 14.64       | 16.62       | 18.49       | 21.02       |  |  |  |
| 870                 | 6.52◇                                     | 7.23◇      | 7.92       | 8.61       | 9.29       | 9.97       | 10.63      | 11.29      | 13.79       | 870        | 10.85◇              | 12.43◇                                    | 13.56      | 14.70      | 15.79       | 17.88       | 19.78       | 22.34       |  |  |  |
| 900                 | 6.74◇                                     | 7.46◇      | 8.19◇      | 8.90       | 9.59       | 10.29      | 10.97      | 11.64      | 14.18       | 900        | 11.69◇              | 12.83◇                                    | 14.00◇     | 15.15      | 16.23       | 18.37       | 20.31       | 22.86       |  |  |  |
| 1000                | 7.47◇                                     | 8.26◇      | 9.05◇      | 9.82       | 10.59      | 11.35      | 12.08      | 12.80      | 15.51       | 1000       | 12.83◇              | 14.14◇                                    | 15.40◇     | 16.62      | 17.80       | 20.01       | 21.98       | 24.44       |  |  |  |
| 1100                | 8.19◇                                     | 9.05◇      | 9.91◇      | 10.75      | 11.56      | 12.38      | 13.15      | 13.92      | 16.74       | 1100       | 14.00◇              | 15.40◇                                    | 16.94◇     | 18.00      | 19.26       | 21.50       | 23.45       | 25.70       |  |  |  |
| 1160                | 8.61◇                                     | 9.51◇      | 10.41◇     | 11.29      | 12.13      | 12.97      | 13.79      | 14.57      | 17.44       | 1160       | 14.70◇              | 16.14◇                                    | 17.52◇     | 18.84      | 20.01       | 22.34       | 24.23       | 26.29       |  |  |  |
| 1200                | ....                                      | 9.83◇      | 10.75◇     | 11.64◇     | 12.51      | 13.37      | 14.29      | 14.99      | 17.89       | 1200       | ....                | 16.62◇                                    | 18.03◇     | 19.37◇     | 20.62       | 22.88       | 24.71       | 26.62       |  |  |  |
| 1300                | ....                                      | 10.59◇     | 11.57◇     | 12.51◇     | 13.44      | 14.32      | 15.18      | 16.01      | 18.94       | 1300       | ....                | 17.80◇                                    | 19.26◇     | 19.88◇     | 21.88       | 24.07       | 26.75       | 27.18       |  |  |  |
| 1400                | ....                                      | 11.35◇     | 12.37◇     | 13.37◇     | 14.32      | 15.25      | 16.14      | 16.98      | 19.87       | 1400       | ....                | 18.93◇                                    | 20.41◇     | 21.79◇     | 23.03       | 26.10       | 26.54       | 27.33       |  |  |  |
| 1500                | ....                                      | 12.08◇     | 13.15◇     | 14.19◇     | 15.18      | 16.14      | 17.03      | 17.89      | 20.71       | 1500       | ....                | 19.19◇                                    | 21.50◇     | 22.88◇     | 24.07       | 26.95       | 27.06       | 27.05       |  |  |  |
| 1600                | ....                                      | 12.80◇     | 13.92◇     | 14.99◇     | 16.01      | 16.98      | 17.14      | 18.82      | 21.42       | 1600       | ....                | 21.02◇                                    | 22.52◇     | 23.84◇     | 24.98       | 26.62       | 27.32       | 26.33†      |  |  |  |
| 1700                | ....                                      | 13.50◇     | 14.66◇     | 15.76◇     | 16.80      | 17.78      | 18.68      | 19.51      | 21.99       | 1700       | ....                | 21.99◇                                    | 23.45◇     | 24.71◇     | 25.75       | 27.07       | 27.27       | 25.11†      |  |  |  |
| 1750                | ....                                      | 13.85◇     | 15.03◇     | 16.14◇     | 17.17      | 18.16      | 19.06      | 19.87      | 22.22       | 1750       | ....                | 22.43◇                                    | 23.88◇     | 25.11◇     | 26.08       | 27.22       | 27.12       | 24.31†      |  |  |  |
| 1800                | ....                                      | ....       | 15.37◇     | 16.51◇     | 17.56◇     | 18.53      | 19.42      | 20.22      | 22.35       | 1800       | ....                | 22.87◇                                    | 24.29◇     | 26.47◇     | 26.38◇      | 27.31       | 26.89       | 23.36†      |  |  |  |
| 1900                | ....                                      | ....       | 16.07◇     | 17.22◇     | 18.65◇     | 19.23      | 20.69      | 20.86      | 22.70       | 1900       | ....                | 23.69◇                                    | 25.04◇     | 26.11◇     | 26.86◇      | 27.31       | 26.18†      | ....        |  |  |  |
| 2000                | ....                                      | ....       | 16.74◇     | 17.89◇     | 18.94◇     | 19.87      | 20.71      | 21.42      | 22.84       | 2000       | ....                | 24.44◇                                    | 25.70◇     | 26.62◇     | 27.18◇      | 27.08       | 26.11†      | ....        |  |  |  |
| 2100                | ....                                      | ....       | 17.39◇     | 18.53◇     | 19.56◇     | 20.48      | 21.25      | 21.88      | 22.81       | 2100       | ....                | 25.11◇                                    | 26.24◇     | 27.00◇     | 27.33◇      | 26.56†      | 23.66†      | ....        |  |  |  |
| 2200                | ....                                      | ....       | 18.00◇     | 19.43◇     | 20.14◇     | 21.01      | 21.72      | 22.27      | 22.61       | 2200       | ....                | 25.70◇                                    | 26.69◇     | 27.24◇     | 27.31◇      | 26.79†      | ....        | ....        |  |  |  |
| 2300                | ....                                      | ....       | 18.58◇     | 19.70◇     | 20.67◇     | 21.47      | 22.11      | 22.55      | 22.30†      | 2300       | ....                | 26.21◇                                    | 27.03◇     | 27.33◇     | 27.09◇      | 24.74†      | ....        | ....        |  |  |  |
| 2400                | ....                                      | ....       | 19.13◇     | 20.22◇     | 21.14◇     | 21.88      | 22.42      | 22.75      | 21.65†      | 2400       | ....                | 26.62◇                                    | 27.24◇     | 27.28◇     | 26.69†      | 23.36†      | ....        | ....        |  |  |  |
| 2500                | ....                                      | ....       | ....       | 20.71◇     | 21.57◇     | 22.22◇     | 22.64      | 22.84      | 20.89†      | 2500       | ....                | 29.95◇                                    | 27.33◇     | 27.06◇     | 26.07†      | ....        | ....        | ....        |  |  |  |
| 2600                | ....                                      | ....       | ....       | 21.14◇     | 21.94◇     | 22.49◇     | 22.80      | 22.82      | 19.92†      | 2600       | ....                | 27.18◇                                    | 27.30◇     | 26.69†     | 25.25†      | ....        | ....        | ....        |  |  |  |
| 2800                | ....                                      | ....       | ....       | 21.89◇     | 22.49◇     | 22.81◇     | 22.81      | 22.47†     | ....        | 2800       | ....                | 27.34◇                                    | 26.83◇     | 25.40†     | 22.95†      | ....        | ....        | ....        |  |  |  |
| 3000                | ....                                      | ....       | ....       | 22.42◇     | 22.80◇     | 22.81◇     | 22.44†     | 21.65†     | ....        | 3000       | ....                | 27.07◇                                    | 26.79      | 23.36†     | ....        | ....        | ....        | ....        |  |  |  |
| 3200                | ....                                      | ....       | ....       | 22.75◇     | 22.82◇     | 22.47†◇    | 21.65†     | 20.33†     | ....        | 3200       | ....                | ....                                      | ....       | ....       | ....        | ....        | ....        | ....        |  |  |  |
| 3400                | ....                                      | ....       | ....       | 22.84◇     | 22.58◇     | 21.78†◇    | 20.42†     | 18.48†     | ....        | 3400       | ....                | ....                                      | ....       | ....       | ....        | ....        | ....        | ....        |  |  |  |
| 3500                | ....                                      | ....       | ....       | 22.81◇     | 22.34†◇    | 21.29†◇    | 19.64†     | ....       | ....        | 3500       | ....                | ....                                      | ....       | ....       | ....        | ....        | ....        | ....        |  |  |  |
| 3600                | ....                                      | ....       | ....       | 22.71◇     | 22.02†◇    | 20.72†◇    | 18.73†     | ....       | ....        | 3600       | ....                | ....                                      | ....       | ....       | ....        | ....        | ....        | ....        |  |  |  |
| 3800                | ....                                      | ....       | ....       | 22.31†◇    | 21.41†◇    | 19.22†◇    | ....       | ....       | ....        | 3800       | ....                | ....                                      | ....       | ....       | ....        | ....        | ....        | ....        |  |  |  |
| 4000                | ....                                      | ....       | ....       | 21.65†◇    | 19.92†◇    | ....       | ....       | ....       | ....        | 4000       | ....                | ....                                      | ....       | ....       | ....        | ....        | ....        | ....        |  |  |  |
| 4200                | ....                                      | ....       | ....       | 20.71†◇    | 18.33†◇    | ....       | ....       | ....       | ....        | 4200       | ....                | ....                                      | ....       | ....       | ....        | ....        | ....        | ....        |  |  |  |
| 4400                | ....                                      | ....       | ....       | 19.47†◇    | ....       | ....       | ....       | ....       | ....        | 4400       | ....                | ....                                      | ....       | ....       | ....        | ....        | ....        | ....        |  |  |  |

### XH, XXH Belt Width Table

| Belt Width Factor | 1.00 | 1.29  | 1.56  | 1.84  | 2.14 | 2.72  | 3.36 | 4.06  | 4.76 | 6.15 | 7.50 | 8.89 | 10.32 | 11.70 | 13.10 | 14.41 | 15.84 | 17.16 | 18.62 |
|-------------------|------|-------|-------|-------|------|-------|------|-------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| Belt Width        | 1    | 1-1/4 | 1-1/2 | 1-3/4 | 2    | 2-1/2 | 3    | 3-1/2 | 4    | 5    | 6    | 7    | 8     | 9     | 10    | 11    | 12    | 13    | 14    |
| Belt Width Code   | 100  | 125   | 150   | 175   | 200  | 250   | 300  | 350   | 400  | 500  | 600  | 700  | 800   | 900   | 1000  | 1100  | 1200  | 1300  | 1400  |

Shaded area indicates stock belt widths.

† Belt Speed exceeds 6500 FPM – consult Dodge.

◇ Pulley diameter is below recommended minimum.

A reduction in belt life should be expected. Suggest alternate drive, when ever possible.

△ Stock with XXH Series only.

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|



## Dimensions, Tolerances, etc.

Warning - Do not use DYNA-SYNC Pulleys with belt speed exceeding 6500 fpm. May cause pulleys to fragment resulting in personal injury or property damage.

### Concentricity and Face Run-Out Tolerances

| Runout (T.I.R. $\phi$ ) | O.D.   | Tol.  |
|-------------------------|--|-------|
| Radial                  | 8" & under                                       | .005" |
|                         | For each add'l. inch of O.D. add .0005"          |       |
| Axial                   | 1" & Under                                       | .001" |
|                         | For each add'l. inch of O.D. thru 10" add .001"  |       |
|                         | For each add'l. inch of O.D. over 10" add .0005" |       |

$\phi$ Total Indicator Reading

### Reborable Pulley Bore Tolerances

| Bore Size      | Tol.            |
|----------------|-----------------|
| 15/16" & Under | .0010" - .0000" |
| 1" to 1-15/16" | .0015" - .0000" |
| 2" to 2-15/16" | .0020" - .0000" |
| 3" & Over      | .0025" - .0000" |

**Rebore Charges**—Reborable pulley alteration charges are shown in MLP Price Book. TAPER-LOCK pulleys accommodate all common tolerance variations found in commercial shafting.

**Balancing**—All DYNA-SYNC Pulleys have been given a careful static balance for operation up to 6500 FPM. When vibration is a problem, dynamic balancing is recommended – Consult price book MLP. (See Warning above)

**Special Pulleys**—In 1/5 thru 1-1/4" pitches, pulleys can be made to suit customer's specifications and may be furnished in sizes not listed on previous pages. Send us your inquiry.

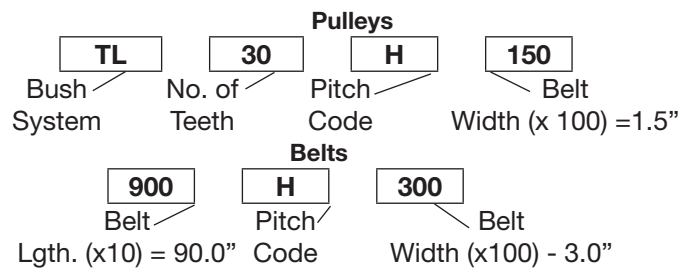
### Standard Keyways

| Bore Range               | Keyway      |
|--------------------------|-------------|
| 5/16 - 7/16 Incl.        | 3/32 x 3/64 |
| Over 7/16 - 9/16 Incl.   | 1/8 x 1/16  |
| Over 9/16 - 7/8 Incl.    | 3/16 x 3/32 |
| Over 7/8 - 1-1/4 Inc.    | 1/4 x 1/8   |
| Over 1-1/4 - 1-3/8 Inc.  | 5/16 x 5/32 |
| Over 1-3/8 - 1-3/4 Incl. | 3/8 x 3/16  |
| Over 1-3/4 - 2-1/4 Inc.  | 1/2 x 1/4   |
| Over 2-1/4 - 2-3/4 Incl. | 5/8 x 5/16  |
| Over 2-3/4 - 3-1/4 Incl. | 3/4 x 3/8   |

### Pulley Outside Diameter/Diameter Over Belt

| Pitch | Pulley O.D.   | Diameter Over Belt |
|-------|---------------|--------------------|
| XL    | P.D. - 0.02"  | P.D. + 0.08"       |
| L     | P.D. - 0.03"  | P.D. + 0.11"       |
| H     | P.D. - 0.054" | P.D. + 0.11"       |
| XH    | P.D. - 0.11"  | P.D. + 0.27"       |
| XXH   | P.D. - 0.12"  | .....              |

### NOMENCLATURE



| 1/5" pitch (XL)  | 3/8" pitch (L)   | 1/2" pitch (H)  | 7/8" pitch (XH)  | 1-1/4" pitch (XXH)  |
|--|--|---|--|---|
|  |  |   |  |   |
| Typical uses are shown below the Tooth Dimensions Sketches . . . . |  |   |  |   |
|  |  |   |  |   |
| Business machines, instrumentation, sound equipment                | FHP applications such as home appliances, small tools, pumps, blowers. | Machine tools, pumps, fans presses, motor-generator sets. | Medium-torque applications - such as heavy industrial equipment. | High torque abolitions - such as heavy industrial equipment |

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|



## Installing / Tensioning DYNA-SYNC Drives

### Alignment

Use straight edge to check parallel and offset alignment. Align pulleys within 1/4° or 1/16" per foot center distance. Supporting framework must be rigid.

### Pulley Flanges

At least one pulley must have flanges. If center distance is more than 8 times the diameter of the smallest pulley, both pulleys should be flanged. Vertical shaft drives may require flanges on both pulleys.

### Installation

Reduce center distance so that belt can be slipped into place without forcing. Do not pry belt onto pulleys. Increase center distance to tighten belt. Belt should be snug, but not excessively tight. If belt has a tendency to "jump teeth" during operation, increase belt tension.

### Idlers

Adjustable center distance is preferred over idlers to tension belt. Idlers should be positioned on the slack side of the drive. Inside idlers are preferred over outside idlers. Idler diameter should be at least as large as the smallest pulley.

### TENSIONING THE DRIVE –

Simple Tensioning Procedure:

**Step 1** – Calculate the value of the deflection force "f" from the following formula, referring to drawing below.

$$\text{Force of Deflection } f = \frac{T + (S/L) K}{16}$$

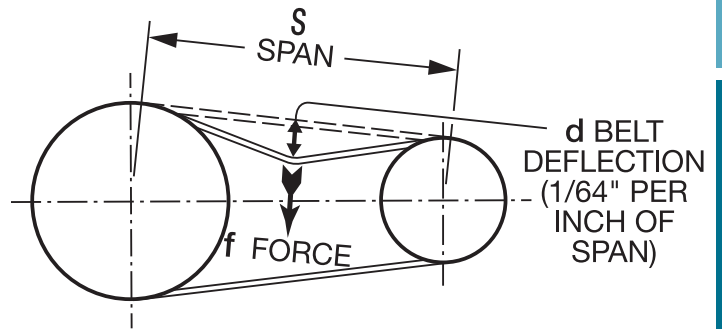
Where S = Span distance in inches

T = Tension in Lbs. from Table below

K = Constant from Table

L = Length of Belt

**Step 2** – Using a straight edge as a reference, apply enough force to deflect belt 1/64" for every inch of center span. If this force is less than the calculated "f", increase center distance of pulleys. If more than "f", decrease center distance of pulleys.



**Belt Deflection Force T and K Values**

| Belt Pitch | Values # | Belt Width |      |      |      |      |      |       |     |       |     |      |      |      |      |      |  |
|------------|----------|------------|------|------|------|------|------|-------|-----|-------|-----|------|------|------|------|------|--|
|            |          | 1/4        | 3/8  | 1/2  | 5/8  | 3/4  | 1    | 1-1/2 | 2   | 2-1/2 | 3   | 4    | 5    | 6    | 8    | 10   |  |
| XL 1/5"    | T        | 6.7        | 10   | 15   | 20   | 24.2 | 34.2 | ...   | ... | ...   | ... | ...  | ...  | ...  | ...  | ...  |  |
|            | K        | .85        | 1.7  | 2.7  | 3.6  | 4.7  | 6.7  | ...   | ... | ...   | ... | ...  | ...  | ...  | ...  | ...  |  |
| L 3/8"     | T        | ...        | 11.4 | 17.1 | 22.1 | 27.9 | 39.3 | 61.4  | ... | ...   | ... | ...  | ...  | ...  | ...  | ...  |  |
|            | K        | ...        | 8.5  | 9.9  | 14   | 17   | 24   | 37    | ... | ...   | ... | ...  | ...  | ...  | ...  | ...  |  |
| H 1/2"     | T        | ...        | ...  | 39.3 | 53.3 | 66   | 93.3 | 145.3 | 200 | 254   | 313 | 444  | 574  | 700  | ...  | ...  |  |
|            | K        | ...        | ...  | 17   | 22   | 32   | 46   | 71    | 95  | 125   | 152 | 210  | 265  | 320  | ...  | ...  |  |
| XH 7/8"    | T        | ...        | ...  | ...  | ...  | ...  | ...  | ...   | 227 | 288   | 356 | 504  | 652  | 795  | 1094 | 1388 |  |
|            | K        | ...        | ...  | ...  | ...  | ...  | ...  | ...   | 190 | 250   | 305 | 440  | 568  | 700  | 1080 | 1330 |  |
| XXH 1-1/4" | T        | ...        | ...  | ...  | ...  | ...  | ...  | ...   | 556 | 707   | 873 | 1238 | 1599 | 1950 | 2683 | 3406 |  |
|            | K        | ...        | ...  | ...  | ...  | ...  | ...  | ...   | 310 | 410   | 500 | 710  | 920  | 1100 | 1500 | ...  |  |

#T = Tension in Pounds; K = constant for above formula.

### Allowable Working Tension (Ta) Lbs.

| Belt Pitch |        | Belt Width |     |     |     |     |     |       |     |       |     |      |      |      |      |      |      |      |
|------------|--------|------------|-----|-----|-----|-----|-----|-------|-----|-------|-----|------|------|------|------|------|------|------|
|            |        | 1/4        | 3/8 | 1/2 | 5/8 | 3/4 | 1   | 1-1/2 | 2   | 2-1/2 | 3   | 4    | 5    | 6    | 8    | 10   | 12   | 14   |
| XL         | 1/5"   | 8          | 12  | 18  | 24  | 29  | 41  | ...   | ... | ...   | ... | ...  | ...  | ...  | ...  | ...  | ...  | ...  |
| L          | 3/8"   | ...        | 16  | 24  | 31  | 39  | 55  | 86    | 118 | 150   | 185 | ...  | ...  | ...  | ...  | ...  | ...  | ...  |
| H          | 1/2"   | ...        | ... | 59  | 80  | 99  | 140 | 218   | 300 | 381   | 470 | 666  | 861  | 1050 | ...  | ...  | ...  | ...  |
| XH         | 7/8"   | ...        | ... | ... | ... | ... | ... | ...   | 409 | 519   | 641 | 908  | 1175 | 1431 | 1969 | 2499 | 3022 | 3552 |
| XXH        | 1-1/4" | ...        | ... | ... | ... | ... | ... | ...   | 500 | 636   | 786 | 1114 | 1439 | 1755 | 2415 | 3065 | 3706 | 4357 |

Note: These values have not been corrected for centrifugal force loss.

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT10-2 | SPECIFICATIONS<br>PAGE PT10-3 | SELECTION<br>PAGE PT10-14 | ENGINEERING/TECHNICAL<br>PAGE PT10-44 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|



# NOTES

V-Drives

FHP Drives

Drive Component  
Accessories

DYNA-SYNC

HT200/HTD  
Synchronous Drives

HT500  
Synchronous Drives

Roller Chain Sprockets



## HT200/HTD Synchronous Belt Drives

|   |          |
|---|----------|
| <b>Features/Benefits</b> .....          | PT11-2   |
| <b>Specification</b>                    |          |
| HT TAPER-LOCK Sprockets .....           | PT11-4   |
| MPB & BTS Sprockets .....               | PT11-9   |
| Fin-Fan Sprockets .....                 | PT11-9   |
| QD HTD Sprockets .....                  | PT11-10  |
| HT200 Belts .....                       | PT11-17  |
| <b>Selection</b>                        |          |
| Procedure .....                         | PT11-19  |
| HT200 Basic HP Rating .....             | PT11-22  |
| HTD/HT100 Basic HP Ratings .....        | PT11-27  |
| 5MM Ratio/Center Distance Tables .....  | PT11-35  |
| 8MM Ratio/Center Distance Tables .....  | PT11-38  |
| 14MM Ratio/Center Distance Tables ..... | PT11-48  |
| 20MM Ratio/Center Distance Tables ..... | PT11-60  |
| <b>Engineering/Technical</b> .....      | PT11-64  |
| Part Number Index .....                 | INDEX-1  |
| Keyword Index .....                     | INDEX-43 |



# FEATURES/BENEFITS

## DODGE HT200 Drives

### High Torque Synchronous Belt Drives

- 200% Rating of HTD
- Quieter Operation
- More Compact
- 8MM & 14MM Pitch

### Plus all the benefits of standard HTD Drives:

- Positive, non-slip drive
- No lubrication required
- Non-stretch
- Corrosion resistant
- Abrasion resistant
- Virtually no backlash
- Clean operation
- Long life
- Low maintenance



## THE TECHNOLOGY OF HT200 PERFORMANCE

### Advanced Tooth Profile Design

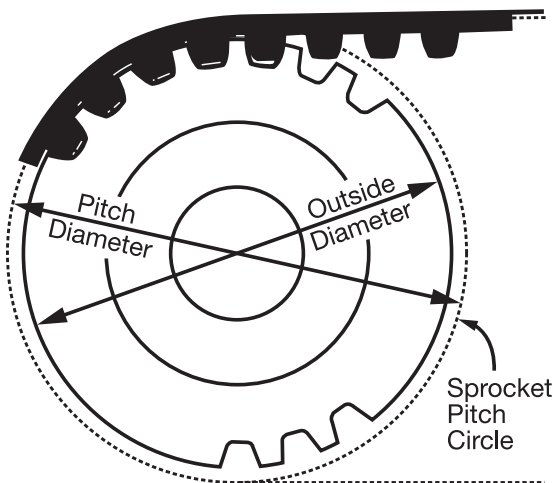
- Optimizes distribution of load forces between belt and sprocket.
- Improves dynamic efficiency between sprocket and belt.
- Increases torque capacity.
- Allows more compact, narrower drive.
- Operates more quietly.

### Belt Construction

- Tougher Chloroprene rubber resists tooth shear, increases load capacity.
- Strong, stretch-resistant tensile cords.
- Tough, wear-resistant nylon tooth facing keeps friction low, protects from wear.

### HT200

- Compact Design
- Uses HT TAPER-LOCK Sprockets
- Competitively Priced



V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets





# FEATURES/BENEFITS

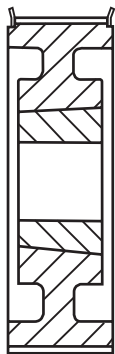
## DODGE HT200 Drives



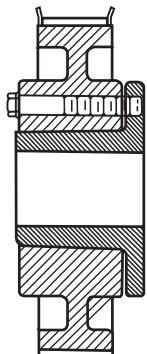
### HT TAPER-LOCK Sprockets

- **Torque Rated:** Shaft gripping strength to meet the higher demands of the 200% rating of HT200 Belts.
- **Compatible:** Accepts HT200 or standard HTD belts.
- **Compact:** Save shaft space with compact TAPER-LOCK design.
- **Reduce Overhung Load:** Compact design allows closer mounting to motor or reducer bearings. Improves bearing life, reduces maintenance costs.

### TAPER-LOCK THE Compact Synchronous Drive



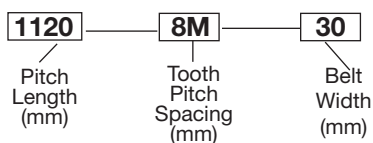
TAPER-LOCK HT



FLANGE-BUSHED SPROCKET

Compact TAPER-LOCK design takes up less shaft space than narrow width belts or products using flanged style bushing. The result is a more compact, economical synchronous drive.

### BELT NOMENCLATURE

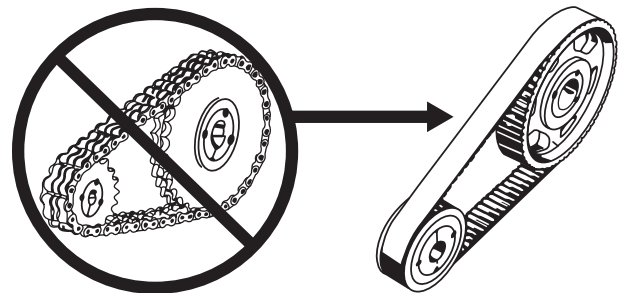


### DODGE QD HTD Sprockets

- Rated for capacity of standard HTD belts.
- Compatible for standard HTD belts.
- Can run HT200 belts at HTD rating.
- Use HT200 belts for quieter operation than with HTD belts.

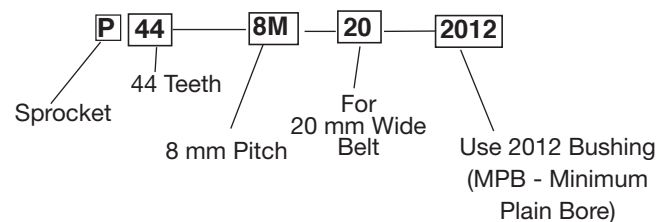
**Caution:** Standard QD style HTD sprockets manufactured by DODGE or by others may not have the torque capacity for the higher rated HT200 belts. HT TAPER-LOCK sprockets from DODGE are designed to handle the higher loads.

### Upgrade Roller Chain Drives to DODGE HT200



- **Clean:** No lubrication required. No messy oil drips or spills.
- **Quiet:** No metal-to-metal contact.
- **Smooth Operation:** No chordal action of chain drive that results in vibration and speed variation.
- **Economical Drive Guard:** Basic enclosed or ventilated guard will suffice. Oil seals, filler and drain plugs not required.

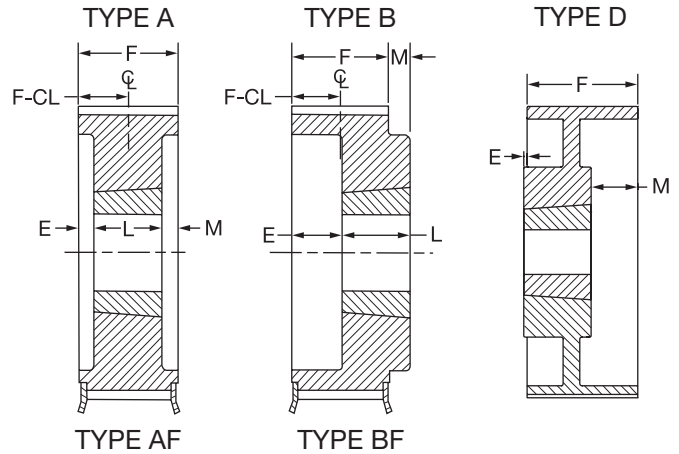
### SPROCKET NOMENCLATURE





## SPECIFICATION

### HT TAPER-LOCK Sprockets



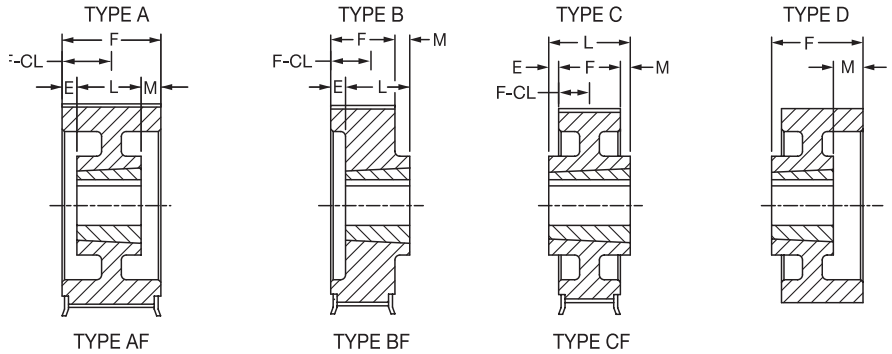
The figure following the sketch reference letter in the "Type" column, indicates the construction of the sprocket (1 = Solid, 2 = Web, and 3 = Arms) and the letter "F" indicates that the sprocket has flanges.

#### 5MM Sprockets

| Sprocket Number | Part No.      | No. Of Teeth | Diameters        |       |        | Type | Dimensions (In.) |      | Bore Sizes |         | Approx. Weight (Lbs.) | Approx. Wr <sup>2</sup> (Lb-Ft <sup>2</sup> ) |
|-----------------|---------------|--------------|------------------|-------|--------|------|------------------|------|------------|---------|-----------------------|---|
|                 |               |              | P.D.             | O.D.  | Flange |      | E                | M    | Min.       | Max.    |                       |   |
| <b>5M-15</b>    |               |              | <b>F = 0.89"</b> |       |        |      |                  |      |            |         |                       |   |
| P32-5M-15-MPB   | <b>112465</b> | 32           | 2.005            | 1.960 | 2.125  |      | 0.50             | 0    | 1/2        | 7/8     | 0.8                   | 0.0016  |
| P34-5M-15-MPB   | <b>112466</b> | 34           | 2.130            | 2.085 | 2.375  |      | 0.50             | 0    | 1/2        | 1       | 0.9                   | 0.0021  |
| P36-5M-15-MPB   | <b>114640</b> | 36           | 2.256            | 2.211 | 2.375  |      | 0.50             | 0    | 1/2        | 1-1/8   | 1.1                   | 0.0028  |
| P36-5M-15-1108  | <b>112467</b> | 36           | 2.256            | 2.211 | 2.375  | A1F  | 0                | 0    | 1/2        | 1-1/8   | 0.47                  | 0.0028  |
| P38-5M-15-1108  | <b>112468</b> | 38           | 2.381            | 2.336 | 2.613  | A1F  | 0                | 0    | 1/2        | 1-1/8   | 0.57                  | 0.0036  |
| P40-5M-15-1108  | <b>112469</b> | 40           | 2.506            | 2.461 | 2.733  | A1F  | 0                | 0    | 1/2        | 1-1/8   | 0.68                  | 0.0047  |
| P44-5M-15-1108  | <b>112470</b> | 44           | 2.757            | 2.712 | 3.090  | A1F  | 0                | 0    | 1/2        | 1-1/8   | 0.91                  | 0.0072  |
| P48-5M-15-1210  | <b>112471</b> | 48           | 3.008            | 2.963 | 3.328  | B1F  | 0                | 0.11 | 1/2        | 1-1/4   | 1.0                   | 0.0105  |
| P52-5M-15-1210  | <b>112472</b> | 52           | 3.258            | 3.213 | 3.566  | B1F  | 0                | 0.11 | 1/2        | 1-1/4   | 1.3                   | 0.0153  |
| P56-5M-15-1610  | <b>112473</b> | 56           | 3.509            | 3.464 | 3.805  | B1F  | 0                | 0.11 | 1/2        | 1-11/16 | 1.4                   | 0.0192  |
| P60-5M-15-1610  | <b>112474</b> | 60           | 3.760            | 3.715 | 4.044  | B1F  | 0                | 0.11 | 1/2        | 1-11/16 | 1.7                   | 0.0267  |
| P64-5M-15-1610  | <b>112475</b> | 64           | 4.010            | 3.965 | 4.170  | B1F  | 0                | 0.11 | 1/2        | 1-11/16 | 2.1                   | 0.0353  |
| P68-5M-15-1610  | <b>112476</b> | 68           | 4.261            | 4.216 | 4.520  | B1F  | 0                | 0.11 | 1/2        | 1-11/16 | 2.4                   | 0.0458  |
| P72-5M-15-1610  | <b>112477</b> | 72           | 4.511            | 4.466 | 4.670  | B1F  | 0                | 0.11 | 1/2        | 1-11/16 | 2.8                   | 0.0583  |
| P80-5M-15-1610  | <b>112478</b> | 80           | 5.013            | 4.968 | ...    | B1   | 0                | 0.11 | 1/2        | 1-11/16 | 3.7                   | 0.0906  |
| P90-5M-15-1610  | <b>112479</b> | 90           | 5.639            | 5.594 | ...    | B1   | 0                | 0.11 | 1/2        | 1-11/16 | 4.9                   | 0.1474  |
| P112-5M-15-2012 | <b>112480</b> | 112          | 7.018            | 6.973 | ...    | B1   | 0                | 0.36 | 1/2        | 2-1/8   | 8.3                   | 0.3750  |
| <b>5M-25</b>    |               |              | <b>F = 1.28"</b> |       |        |      |                  |      |            |         |                       |   |
| P32-5M-25-MPB   | <b>112481</b> | 32           | 2.005            | 1.960 | 2.125  |      | 0.50             | 0    | 1/2        | 7/8     | 1.1                   | 0.0024  |
| P34-5M-25-MPB   | <b>112482</b> | 34           | 2.130            | 2.085 | 2.375  |      | 0.50             | 0    | 1/2        | 1       | 1.2                   | 0.0031  |
| P36-5M-25-1108  | <b>112483</b> | 36           | 2.256            | 2.211 | 2.375  | A1F  | 0                | 0.41 | 1/2        | 1-1/8   | 0.65                  | 0.0039  |
| P38-5M-25-1108  | <b>112484</b> | 38           | 2.381            | 2.336 | 2.613  | A1F  | 0                | 0.41 | 1/2        | 1-1/8   | 0.73                  | 0.0048  |
| P40-5M-25-1108  | <b>112485</b> | 40           | 2.506            | 2.461 | 2.733  | A1F  | 0                | 0.41 | 1/2        | 1-1/8   | 0.85                  | 0.0061  |
| P44-5M-25-1108  | <b>112486</b> | 44           | 2.757            | 2.712 | 3.090  | A1F  | 0                | 0.41 | 1/2        | 1-1/8   | 1.1                   | 0.0091  |
| P48-5M-25-1210  | <b>112487</b> | 48           | 3.008            | 2.963 | 3.328  | A1F  | 0                | 0.28 | 1/2        | 1-1/4   | 1.2                   | 0.0130  |
| P52-5M-25-1210  | <b>112488</b> | 52           | 3.258            | 3.213 | 3.566  | A1F  | 0                | 0.28 | 1/2        | 1-1/4   | 1.6                   | 0.0185  |
| P56-5M-25-1610  | <b>112489</b> | 56           | 3.509            | 3.464 | 3.805  | A1F  | 0                | 0.28 | 1/2        | 1-11/16 | 1.6                   | 0.0240  |
| P60-5M-25-1610  | <b>112490</b> | 60           | 3.760            | 3.715 | 4.044  | A1F  | 0                | 0.28 | 1/2        | 1-11/16 | 2.1                   | 0.0335  |
| P64-5M-25-1610  | <b>112491</b> | 64           | 4.010            | 3.965 | 4.170  | A1F  | 0                | 0.28 | 1/2        | 1-11/16 | 2.4                   | 0.0430  |
| P68-5M-25-2012  | <b>112492</b> | 68           | 4.261            | 4.216 | 4.520  | A1F  | 0.03             | 0.00 | 1/2        | 2-1/8   | 2.7                   | 0.0571  |
| P72-5M-25-2012  | <b>112493</b> | 72           | 4.511            | 4.466 | 4.670  | A1F  | 0.03             | 0.00 | 1/2        | 2-1/8   | 3.3                   | 0.0751  |
| P80-5M-25-2012  | <b>112494</b> | 80           | 5.013            | 4.968 | ...    | A1   | 0.03             | 0.00 | 1/2        | 2-1/8   | 4.5                   | 0.1215  |
| P90-5M-25-2012  | <b>112495</b> | 90           | 5.639            | 5.594 | ...    | A1   | 0.03             | 0.00 | 1/2        | 2-1/8   | 6.2                   | 0.2032  |
| P112-5M-25-2012 | <b>112496</b> | 112          | 7.018            | 6.973 | ...    | A1   | 0.03             | 0.00 | 1/2        | 2-1/8   | 10.7                  | 0.5102  |



## HT TAPER-LOCK Sprockets



The figure following the sketch reference letter in the "Type" column, indicates the construction of the sprocket (1 = Solid, 2 = Web, and 3 = Arms) and the letter "F" indicates that the sprocket has flanges.

### 8MM Sprockets

| Sprocket Number  | Part No.      | No. Of Teeth | Diameters |        |        | Type | Dimensions (In.) |      | Bore Sizes |         | Approx. Weight (Lbs.) | Approx. Wr <sup>2</sup> (Lb-Ft <sup>2</sup> ) |
|--|---------------|--------------|-----------|--------|--------|------|------------------|------|------------|---------|-----------------------|---|
|  |               |              | P.D.      | O.D.   | Flange |      | E                | M    | Min.       | Max     |                       |   |
| <b>8M-20</b> <span style="float:right"><b>F = 1.13"</b></span> |               |              |           |        |        |      |                  |      |            |         |                       |   |
| P22-8M-20-1108*  | <b>112850</b> | 22           | 2.206     | 2.152  | 2.559  | A1F  | 0.00             | 0.26 | 1/2        | 1-1/8   | 0.5                   | 0.0027  |
| P24-8M-20-1108   | <b>112851</b> | 24           | 2.406     | 2.352  | 2.756  | A1F  | 0.00             | 0.26 | 1/2        | 1-1/8   | 0.7                   | 0.0044  |
| P26-8M-20-1108   | <b>112852</b> | 26           | 2.607     | 2.553  | 2.953  | A1F  | 0.00             | 0.26 | 1/2        | 1-1/8   | 0.9                   | 0.0065  |
| P28-8M-20-1108   | <b>112853</b> | 28           | 2.807     | 2.753  | 3.150  | A1F  | 0.26             | 0.00 | 1/2        | 1-1/8   | 1.2                   | 0.0093  |
| P30-8M-20-1210   | <b>112854</b> | 30           | 3.008     | 2.954  | 3.346  | A1F  | 0.13             | 0.00 | 1/2        | 1-1/4   | 1.2                   | 0.0116  |
| P32-8M-20-1210   | <b>112855</b> | 32           | 3.208     | 3.154  | 3.543  | A1F  | 0.00             | 0.13 | 1/2        | 1-1/4   | 1.4                   | 0.0157  |
| P34-8M-20-1610   | <b>112856</b> | 34           | 3.409     | 3.355  | 3.819  | A1F  | 0.13             | 0.00 | 1/2        | 1-11/16 | 1.4                   | 0.0185  |
| P36-8M-20-1610   | <b>112857</b> | 36           | 3.609     | 3.555  | 3.937  | A1F  | 0.13             | 0.00 | 1/2        | 1-11/16 | 1.7                   | 0.0246  |
| P38-8M-20-1610   | <b>112858</b> | 38           | 3.810     | 3.756  | 4.134  | A1F  | 0.13             | 0.00 | 1/2        | 1-11/16 | 2.0                   | 0.0320  |
| P40-8M-20-1610   | <b>112859</b> | 40           | 4.010     | 3.956  | 4.331  | A1F  | 0.13             | 0.00 | 1/2        | 1-11/16 | 2.4                   | 0.0406  |
| P44-8M-20-2012   | <b>112860</b> | 44           | 4.411     | 4.357  | 4.764  | B1F  | 0.00             | 0.12 | 1/2        | 2-1/8   | 2.7                   | 0.0585  |
| P48-8M-20-2012   | <b>112861</b> | 48           | 4.812     | 4.758  | 5.157  | B1F  | 0.00             | 0.12 | 1/2        | 2-1/8   | 3.7                   | 0.0916  |
| P56-8M-20-2012   | <b>112862</b> | 56           | 5.614     | 5.560  | 5.945  | B1F  | 0.00             | 0.12 | 1/2        | 2-1/8   | 5.6                   | 0.1768  |
| P64-8M-20-2012   | <b>112863</b> | 64           | 6.416     | 6.362  | 6.772  | B1F  | 0.00             | 0.12 | 1/2        | 2-1/8   | 7.7                   | 0.3075  |
| P72-8M-20-2012   | <b>112864</b> | 72           | 7.218     | 7.164  | 7.598  | B1F  | 0.00             | 0.12 | 1/2        | 2-1/8   | 10                    | 0.4991  |
| P80-8M-20-2517   | <b>112865</b> | 80           | 8.020     | 7.966  | 8.386  | B1F  | 0.00             | 0.62 | 1/2        | 2-11/16 | 13                    | 0.7725  |
| P90-8M-20-2517   | <b>112866</b> | 90           | 9.023     | 8.969  | ...    | C2   | 0.31             | 0.31 | 1/2        | 2-11/16 | 12                    | 0.9037  |
| <b>8M-30</b> <span style="float:right"><b>F = 1.5"</b></span>  |               |              |           |        |        |      |                  |      |            |         |                       |   |
| P22-8M-30-1108*  | <b>112867</b> | 22           | 2.206     | 2.152  | 2.559  | A1F  | 0.00             | 0.63 | 1/2        | 1-1/8   | 0.64                  | 0.0036  |
| P24-8M-30-1108   | <b>112868</b> | 24           | 2.406     | 2.352  | 2.756  | A1F  | 0.00             | 0.63 | 1/2        | 1-1/8   | 0.90                  | 0.0058  |
| P26-8M-30-1108   | <b>112869</b> | 26           | 2.607     | 2.553  | 2.953  | A1F  | 0.00             | 0.63 | 1/2        | 1-1/8   | 1.1                   | 0.0082  |
| P28-8M-30-1108   | <b>112870</b> | 28           | 2.807     | 2.753  | 3.150  | A1F  | 0.00             | 0.63 | 1/2        | 1-1/8   | 1.5                   | 0.0124  |
| P30-8M-30-1210   | <b>112871</b> | 30           | 3.008     | 2.954  | 3.346  | A1F  | 0.00             | 0.50 | 1/2        | 1-1/4   | 1.5                   | 0.0152  |
| P32-8M-30-1210   | <b>112872</b> | 32           | 3.208     | 3.154  | 3.543  | A1F  | 0.00             | 0.50 | 1/2        | 1-1/4   | 1.7                   | 0.0199  |
| P34-8M-30-1610   | <b>112873</b> | 34           | 3.409     | 3.355  | 3.819  | A1F  | 0.00             | 0.50 | 1/2        | 1-11/16 | 1.8                   | 0.0241  |
| P36-8M-30-1610   | <b>112874</b> | 36           | 3.609     | 3.555  | 3.937  | A1F  | 0.00             | 0.50 | 1/2        | 1-11/16 | 2.2                   | 0.0323  |
| P38-8M-30-1610   | <b>112875</b> | 38           | 3.810     | 3.756  | 4.134  | A1F  | 0.00             | 0.50 | 1/2        | 1-11/16 | 2.5                   | 0.0409  |
| P40-8M-30-2012   | <b>112876</b> | 40           | 4.010     | 3.956  | 4.331  | A1F  | 0.00             | 0.25 | 1/2        | 2-1/8   | 2.3                   | 0.0453  |
| P44-8M-30-2012   | <b>112877</b> | 44           | 4.411     | 4.357  | 4.764  | A1F  | 0.00             | 0.25 | 1/2        | 2-1/8   | 3.2                   | 0.0712  |
| P48-8M-30-2012   | <b>112878</b> | 48           | 4.812     | 4.758  | 5.157  | A1F  | 0.00             | 0.25 | 1/2        | 2-1/8   | 4.2                   | 0.1069  |
| P56-8M-30-2012   | <b>112879</b> | 56           | 5.614     | 5.560  | 5.945  | A1F  | 0.00             | 0.25 | 1/2        | 2-1/8   | 6.3                   | 0.2087  |
| P64-8M-30-2517   | <b>112880</b> | 64           | 6.416     | 6.362  | 6.772  | B1F  | 0.00             | 0.25 | 1/2        | 2-11/16 | 9.5                   | 0.4044  |
| P72-8M-30-2517   | <b>112881</b> | 72           | 7.218     | 7.164  | 7.598  | B1F  | 0.00             | 0.25 | 1/2        | 2-11/16 | 13                    | 0.6599  |
| P80-8M-30-2517   | <b>112882</b> | 80           | 8.020     | 7.966  | 8.386  | B1F  | 0.00             | 0.25 | 1/2        | 2-11/16 | 16                    | 1.019   |
| P90-8M-30-2517   | <b>112883</b> | 90           | 9.023     | 8.969  | ...    | C2   | 0.13             | 0.13 | 1/2        | 2-11/16 | 22                    | 1.650   |
| P112-8M-30-2517  | <b>112884</b> | 112          | 11.229    | 11.175 | ...    | C2   | 0.13             | 0.13 | 1/2        | 2-11/16 | 24                    | 1.764   |
| P144-8M-30-2517  | <b>112849</b> | 114          | 14.437    | 14.383 | ...    | D3   | 0.38             | 0.13 | 1/2        | 2-11/16 | 31                    | 6.014   |

TAPER-LOCK sprockets limited to torque capacity of bushing.

|                                  |                           |                                       |  |
|----------------------------------|---------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SELECTION<br>PAGE PT11-19 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|---------------------------|---------------------------------------|--|



# SPECIFICATION

## HT TAPER-LOCK Sprockets

### 8 MM Sprocket

| Sprocket Number        | Part No.      | No. Of Teeth | Diameters |        |        | Type | Dimensions (In.) |      | Bore Sizes |         | Approx. Weight (Lbs.) | Approx. Wr <sup>2</sup> (Lb-Ft <sup>2</sup> ) |
|------------------------|---------------|--------------|-----------|--------|--------|------|------------------|------|------------|---------|-----------------------|---|
|                        |               |              | P.D.      | O.D.   | Flange |      | E                | M    | Min.       | Max     |                       |   |
| <b>8M-50 F = 2.38"</b> |               |              |           |        |        |      |                  |      |            |         |                       |   |
| P28-8M-50-1108*        | <b>112885</b> | 28           | 2.807     | 2.753  | 3.150  | A1F  | 0.00             | 1.50 | 1/2        | 1-1/8   | 2.1                   | 0.0182  |
| P30-8M-50-1210         | <b>112886</b> | 30           | 3.008     | 2.954  | 3.346  | A1F  | 0.00             | 1.38 | 1/2        | 1-1/4   | 2.2                   | 0.0231  |
| P32-8M-50-1210         | <b>114821</b> | 32           | 3.208     | 3.154  | 3.543  | A1F  | 0.00             | 1.38 | 1/2        | 1-1/4   | 2.3                   | 0.0281  |
| P34-8M-50-1610         | <b>114822</b> | 34           | 3.409     | 3.355  | 3.819  | A1F  | 0.00             | 1.38 | 1/2        | 1-11/16 | 4.0                   | 0.0457  |
| P36-8M-50-1610         | <b>112889</b> | 36           | 3.609     | 3.555  | 3.937  | A1F  | 0.00             | 1.38 | 1/2        | 1-11/16 | 2.7                   | 0.0431  |
| P38-8M-50-1610         | <b>112890</b> | 38           | 3.810     | 3.756  | 4.134  | A1F  | 0.00             | 1.38 | 1/2        | 1-11/16 | 3.1                   | 0.0540  |
| P40-8M-50-2012         | <b>112891</b> | 40           | 4.010     | 3.956  | 4.331  | A1F  | 0.00             | 1.13 | 1/2        | 2-1/8   | 3.5                   | 0.0685  |
| P44-8M-50-2012         | <b>112892</b> | 44           | 4.411     | 4.357  | 4.764  | A1F  | 0.00             | 1.13 | 1/2        | 2-1/8   | 4.3                   | 0.0999  |
| P48-8M-50-2012         | <b>112893</b> | 48           | 4.812     | 4.758  | 5.157  | A1F  | 0.00             | 1.13 | 1/2        | 2-1/8   | 5.5                   | 0.1491  |
| P56-8M-50-2517         | <b>112894</b> | 56           | 5.614     | 5.560  | 5.945  | A1F  | 0.00             | 0.63 | 1/2        | 2-11/16 | 8.1                   | 0.2957  |
| P64-8M-50-2517         | <b>112895</b> | 64           | 6.416     | 6.362  | 6.772  | A1F  | 0.00             | 0.63 | 1/2        | 2-11/16 | 12                    | 0.5272  |
| P72-8M-50-2517         | <b>112896</b> | 72           | 7.218     | 7.164  | 7.598  | A1F  | 0.00             | 0.63 | 1/2        | 2-11/16 | 16                    | 0.8625  |
| P80-8M-50-2517         | <b>112897</b> | 80           | 8.020     | 7.966  | 8.386  | A1F  | 0.00             | 0.63 | 1/2        | 2-11/16 | 20                    | 1.343   |
| P90-8M-50-3020         | <b>112898</b> | 90           | 9.023     | 8.969  | ...    | A1   | 0.00             | 0.38 | 7/8        | 3-1/4   | 27                    | 2.277   |
| P112-8M-50-3020        | <b>112899</b> | 112          | 11.229    | 11.175 | ...    | A2   | 0.00             | 0.38 | 7/8        | 3-1/4   | 30                    | 3.746   |
| P144-8M-50-3020        | <b>114833</b> | 144          | 14.437    | 14.383 | ...    | A3   | 0.00             | 0.38 | 7/8        | 3-1/4   | 49                    | 8.988   |
| P192-8M-50-3020        | <b>112901</b> | 192          | 19.249    | 19.195 | ...    | A3   | 0.00             | 0.38 | 7/8        | 3-1/4   | 108                   | 32.21   |
| <b>8M-85 F = 3.75"</b> |               |              |           |        |        |      |                  |      |            |         |                       |   |
| P34-8M-85-1615         | <b>114823</b> | 34           | 3.409     | 3.355  | 3.810  | A1F  | 0.75             | 1.50 | 1/2        | 1-11/16 | 3.9                   | 0.0547  |
| P36-8M-85-1615         | <b>114825</b> | 36           | 3.609     | 3.555  | 4.009  | A1F  | 0.75             | 1.50 | 1/2        | 1-11/16 | 4.4                   | 0.0694  |
| P40-8M-85-2012         | <b>114828</b> | 40           | 4.010     | 3.956  | 4.410  | A1F  | 1.25             | 1.25 | 1/2        | 2-1/8   | 4.7                   | 0.0970  |
| P44-8M-85-2012         | <b>114504</b> | 44           | 4.411     | 4.357  | 4.764  | A1F  | 1.25             | 1.25 | 1/2        | 2-1/8   | 5.9                   | 0.1447  |
| P48-8M-85-2012         | <b>114505</b> | 48           | 4.812     | 4.758  | 5.212  | A1F  | 1.25             | 1.25 | 1/2        | 2-1/8   | 7.6                   | 0.2146  |
| P56-8M-85-2517         | <b>114506</b> | 56           | 5.614     | 5.560  | 6.014  | A1F  | 0.81             | 1.19 | 1/2        | 2-11/16 | 11                    | 0.4058  |
| P64-8M-85-2517         | <b>114507</b> | 64           | 6.416     | 6.362  | 6.716  | A1F  | 0.59             | 1.41 | 1/2        | 2-11/16 | 15                    | 0.6987  |
| P72-8M-85-3020         | <b>114508</b> | 72           | 7.218     | 7.164  | 7.500  | A1F  | 0.88             | 0.88 | 7/8        | 3-1/4   | 18                    | 1.121   |
| P80-8M-85-3020         | <b>114509</b> | 80           | 8.020     | 7.966  | 8.420  | A1F  | 0.50             | 1.25 | 7/8        | 3-1/4   | 22                    | 1.642   |
| P90-8M-85-3020         | <b>114510</b> | 90           | 9.023     | 8.969  | ...    | A1   | 0.50             | 1.25 | 7/8        | 3-1/4   | 32                    | 2.846   |
| P112-8M-85-3020        | <b>114511</b> | 112          | 11.229    | 11.175 | ...    | A2   | 0.50             | 1.25 | 7/8        | 3-1/4   | 33                    | 4.621   |
| P144-8M-85-3535        | <b>114834</b> | 144          | 14.437    | 14.383 | ...    | A3   | 0.00             | 0.25 | 1-3/16     | 3-15/16 | 54                    | 11.06   |
| P192-8M-85-3535        | <b>114513</b> | 192          | 19.249    | 19.195 | ...    | A3   | 0.13             | 0.13 | 1-3/16     | 3-15/16 | 125                   | 39.63   |

### 14 MM Sprockets

| Sprocket Number         | Part No.      | No. Of Teeth | Diameters |        |        | Type | Dimensions (In.) |      | Bore Sizes |         | Approx. Weight (Lbs.) | Approx. Wr <sup>2</sup> (Lb-Ft <sup>2</sup> ) |
|-------------------------|---------------|--------------|-----------|--------|--------|------|------------------|------|------------|---------|-----------------------|---|
|                         |               |              | P.D.      | O.D.   | Flange |      | E                | M    | Min.       | Max     |                       |   |
| <b>14M-40 F = 2.13"</b> |               |              |           |        |        |      |                  |      |            |         |                       |   |
| P28-14M-40-2012*        | <b>112902</b> | 28           | 4.912     | 4.802  | 5.560  | A1F  | 0.00             | 0.88 | 1/2        | 2-1/8   | 5.9                   | 0.1531  |
| P29-14M-40-2012         | <b>112903</b> | 29           | 5.088     | 4.978  | 5.560  | A1F  | 0.00             | 0.88 | 1/2        | 2-1/8   | 6.6                   | 0.1810  |
| P30-14M-40-2012         | <b>112904</b> | 30           | 5.263     | 5.153  | 6.125  | A1F  | 0.00             | 0.88 | 1/2        | 2-1/8   | 6.5                   | 0.1935  |
| P32-14M-40-2012         | <b>112905</b> | 32           | 5.614     | 5.504  | 6.125  | A1F  | 0.00             | 0.88 | 1/2        | 2-1/8   | 8.0                   | 0.2651  |
| P34-14M-40-2012         | <b>112906</b> | 34           | 5.965     | 5.855  | 6.500  | A1F  | 0.00             | 0.88 | 1/2        | 2-1/8   | 9.4                   | 0.3498  |
| P36-14M-40-2517         | <b>112907</b> | 36           | 6.316     | 6.206  | 6.875  | A1F  | 0.00             | 0.38 | 1/2        | 2-11/16 | 11                    | 0.4443  |
| P38-14M-40-2517         | <b>112908</b> | 38           | 6.667     | 6.557  | 7.219  | A1F  | 0.00             | 0.38 | 1/2        | 2-11/16 | 12                    | 0.5658  |
| P40-14M-40-2517         | <b>112909</b> | 40           | 7.018     | 6.908  | 7.500  | A1F  | 0.00             | 0.38 | 1/2        | 2-11/16 | 14                    | 0.7134  |
| P44-14M-40-2517         | <b>112910</b> | 44           | 7.720     | 7.610  | 8.343  | A1F  | 0.00             | 0.38 | 1/2        | 2-11/16 | 18                    | 1.046   |
| P48-14M-40-2517         | <b>112911</b> | 48           | 8.421     | 8.311  | 8.937  | A1F  | 0.00             | 0.38 | 1/2        | 2-11/16 | 22                    | 1.527   |
| P52-14M-40-2517         | <b>112912</b> | 52           | 9.123     | 9.013  | 9.687  | A1F  | 0.00             | 0.38 | 1/2        | 2-11/16 | 26                    | 2.126   |
| P56-14M-40-2517         | <b>112913</b> | 56           | 9.825     | 9.715  | 10.375 | A1F  | 0.00             | 0.38 | 1/2        | 2-11/16 | 31                    | 2.878   |
| P60-14M-40-3020         | <b>112914</b> | 60           | 10.527    | 10.417 | 11.062 | A2F  | 0.00             | 0.13 | 7/8        | 3-1/4   | 29                    | 3.177   |
| P64-14M-40-3020         | <b>112915</b> | 64           | 11.229    | 11.119 | 11.750 | A2F  | 0.00             | 0.13 | 7/8        | 3-1/4   | 31                    | 3.872   |
| P68-14M-40-3020         | <b>112916</b> | 68           | 11.930    | 11.820 | 12.500 | A2F  | 0.00             | 0.13 | 7/8        | 3-1/4   | 31                    | 4.446   |
| P72-14M-40-3020         | <b>112917</b> | 72           | 12.632    | 12.522 | 13.187 | A2F  | 0.00             | 0.13 | 7/8        | 3-1/4   | 34                    | 5.410   |
| P80-14M-40-3020         | <b>114840</b> | 80           | 14.036    | 13.926 | 14.625 | A3F  | 0.00             | 0.13 | 7/8        | 3-1/4   | 34                    | 7.474   |
| P90-14M-40-3020         | <b>114851</b> | 90           | 15.790    | 15.680 | ...    | A3   | 0.00             | 0.13 | 7/8        | 3-1/4   | 40                    | 9.396   |
| P112-14M-40-3020        | <b>114470</b> | 112          | 19.650    | 19.540 | ...    | A3   | 0.00             | 0.13 | 7/8        | 3-1/4   | 101                   | 29.66   |
| P144-14M-40-3020        | <b>114471</b> | 144          | 25.264    | 25.154 | ...    | A3   | 0.00             | 0.13 | 7/8        | 3-1/4   | 154                   | 75.16   |
| P168-14M-40-3020        | <b>114852</b> | 168          | 29.475    | 29.265 | ...    | A3   | 0.00             | 0.13 | 7/8        | 3-1/4   | 133                   | 113.3   |
| P192-14M-40-3020        | <b>114853</b> | 192          | 33.686    | 33.576 | ...    | A3   | 0.00             | 0.13 | 7/8        | 3-1/4   | 168                   | 189.8   |

|                                  |                           |                                       |
|----------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SELECTION<br>PAGE PT11-19 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |
|----------------------------------|---------------------------|---------------------------------------|

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

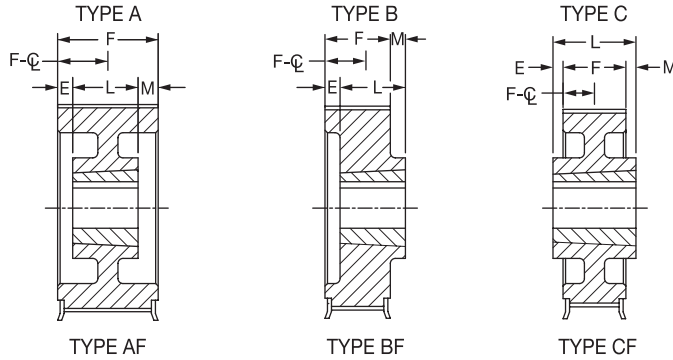
HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets



## HT TAPER-LOCK Sprockets



The figure following the sketch reference letter in the "Type" column indicates the construction of the sprocket (1 = Solid, 2 = Web and 3 = Arms), and the letter "F" indicates that the sprocket has flanges.

### 14MM Sprockets

| Sprocket Number  | Part No.      | No. Of Teeth | Diameters |        |                  | Type | Dimensions (In.) |      | Bore Sizes |         | Approx. Weight (Lbs.) | Approx. Wr <sup>2</sup> (Lb-Ft <sup>2</sup> ) |
|------------------|---------------|--------------|-----------|--------|------------------|------|------------------|------|------------|---------|-----------------------|---|
|                  |               |              | P.D.      | O.D.   | Flange           |      | E                | M    | Min.       | Max     |                       |   |
| <b>14M-55</b>    |               |              |           |        | <b>F = 2.75"</b> |      |                  |      |            |         |                       |   |
| P28-14M-55-2012  | <b>112922</b> | 28           | 4.912     | 4.802  | 5.560            | A1F  | 0.00             | 1.50 | 1/2        | 2-1/8   | 7.4                   | 0.1948  |
| P29-14M-55-2012  | <b>112923</b> | 29           | 5.088     | 4.978  | 5.560            | A1F  | 0.00             | 1.50 | 1/2        | 2-1/8   | 8.4                   | 0.2314  |
| P30-14M-55-2517  | <b>114836</b> | 30           | 5.263     | 5.153  | 6.125            | A1F  | 0.00             | 1.00 | 1/2        | 2-11/16 | 7.4                   | 0.2371  |
| P32-14M-55-2517  | <b>112925</b> | 32           | 5.614     | 5.504  | 6.125            | A1F  | 0.00             | 1.00 | 1/2        | 2-11/16 | 9.3                   | 0.3276  |
| P34-14M-55-2517  | <b>112926</b> | 34           | 5.965     | 5.855  | 6.500            | A1F  | 0.00             | 1.00 | 1/2        | 2-11/16 | 11                    | 0.4379  |
| P36-14M-55-2517  | <b>112927</b> | 36           | 6.316     | 6.206  | 6.875            | A1F  | 0.00             | 1.00 | 1/2        | 2-11/16 | 12                    | 0.5400  |
| P38-14M-55-2517  | <b>112928</b> | 38           | 6.667     | 6.557  | 7.219            | A1F  | 0.00             | 1.00 | 1/2        | 2-11/16 | 14                    | 0.6868  |
| P40-14M-55-2517  | <b>112929</b> | 40           | 7.018     | 6.908  | 7.500            | A1F  | 0.00             | 1.00 | 1/2        | 2-11/16 | 17                    | 0.8719  |
| P44-14M-55-2517  | <b>112930</b> | 44           | 7.720     | 7.610  | 8.343            | A1F  | 0.00             | 1.00 | 1/2        | 2-11/16 | 20                    | 1.234   |
| P48-14M-55-3020  | <b>112931</b> | 48           | 8.421     | 8.311  | 8.937            | A1F  | 0.00             | 0.75 | 7/8        | 3-1/4   | 24                    | 1.840   |
| P52-14M-55-3020  | <b>112932</b> | 52           | 9.123     | 9.013  | 9.687            | A1F  | 0.00             | 0.75 | 7/8        | 3-1/4   | 30                    | 2.573   |
| P56-14M-55-3020  | <b>112933</b> | 56           | 9.825     | 9.715  | 10.375           | A1F  | 0.00             | 0.75 | 7/8        | 3-1/4   | 35                    | 3.489   |
| P60-14M-55-3020  | <b>112934</b> | 60           | 10.527    | 10.417 | 11.062           | A1F  | 0.00             | 0.75 | 7/8        | 3-1/4   | 42                    | 4.647   |
| P64-14M-55-3020  | <b>112935</b> | 64           | 11.229    | 11.119 | 11.750           | A1F  | 0.00             | 0.75 | 7/8        | 3-1/4   | 48                    | 6.012   |
| P68-14M-55-3020  | <b>112936</b> | 68           | 11.930    | 11.820 | 12.500           | A2F  | 0.00             | 0.75 | 7/8        | 3-1/4   | 40                    | 5.909   |
| P72-14M-55-3020  | <b>112937</b> | 72           | 12.632    | 12.522 | 13.187           | A2F  | 0.00             | 0.75 | 7/8        | 3-1/4   | 45                    | 7.387   |
| P80-14M-55-3020  | <b>114841</b> | 80           | 14.036    | 13.926 | 14.625           | A3F  | 0.00             | 0.75 | 7/8        | 3-1/4   | 42                    | 9.021   |
| P90-14M-55-3020  | <b>114859</b> | 90           | 15.790    | 15.680 | ...              | A3   | 0.00             | 0.75 | 7/8        | 3-1/4   | 45                    | 12.36   |
| P112-14M-55-3020 | <b>114472</b> | 112          | 19.650    | 19.540 | ...              | A3   | 0.00             | 0.75 | 7/8        | 3-1/4   | 117                   | 36.86   |
| P144-14M-55-3020 | <b>114854</b> | 144          | 25.264    | 25.154 | ...              | A3   | 0.00             | 0.75 | 7/8        | 3-1/4   | 98                    | 65.38   |
| P168-14M-55-3020 | <b>114860</b> | 168          | 29.475    | 29.265 | ...              | A3   | 0.19             | 0.56 | 7/8        | 3-1/4   | 146                   | 150.2   |
| P192-14M-55-3535 | <b>114755</b> | 192          | 33.686    | 33.576 | ...              | C3   | 0.00             | 0.75 | 1-3/16     | 3-15/16 | 432                   | 404.3   |
| <b>14M-85</b>    |               |              |           |        | <b>F = 4"</b>    |      |                  |      |            |         |                       |   |
| P28-14M-85-2012* | <b>112944</b> | 28           | 4.912     | 4.802  | 5.560            | A1F  | 1.31             | 1.44 | 1/2        | 2-1/8   | 10                    | 0.2787  |
| P29-14M-85-2012* | <b>112945</b> | 29           | 5.088     | 4.978  | 5.560            | A1F  | 1.31             | 1.44 | 1/2        | 2-1/8   | 12                    | 0.3321  |
| P30-14M-85-2517  | <b>114837</b> | 30           | 5.263     | 5.153  | 6.125            | A1F  | 0.50             | 1.75 | 1/2        | 2-11/16 | 10                    | 0.3326  |
| P32-14M-85-2517  | <b>112947</b> | 32           | 5.614     | 5.504  | 6.125            | A1F  | 0.81             | 1.44 | 1/2        | 2-11/16 | 13                    | 0.4590  |
| P34-14M-85-2517  | <b>112948</b> | 34           | 5.965     | 5.855  | 6.500            | A1F  | 0.81             | 1.44 | 1/2        | 2-11/16 | 15                    | 0.6143  |
| P36-14M-85-3020  | <b>112949</b> | 36           | 6.316     | 6.206  | 6.875            | A1F  | 0.53             | 1.47 | 7/8        | 3-1/4   | 14                    | 0.6948  |
| P38-14M-85-3020  | <b>112950</b> | 38           | 6.667     | 6.557  | 7.219            | A1F  | 0.53             | 1.47 | 7/8        | 3-1/4   | 17                    | 0.8975  |
| P40-14M-85-3020  | <b>112951</b> | 40           | 7.018     | 6.908  | 7.500            | A1F  | 0.53             | 1.47 | 7/8        | 3-1/4   | 20                    | 1.161   |
| P44-14M-85-3020  | <b>112952</b> | 44           | 7.720     | 7.610  | 8.343            | A1F  | 0.53             | 1.47 | 7/8        | 3-1/4   | 24                    | 1.615   |
| P48-14M-85-3020  | <b>112953</b> | 48           | 8.421     | 8.311  | 8.937            | A1F  | 0.53             | 1.47 | 7/8        | 3-1/4   | 31                    | 2.432   |
| P52-14M-85-3535  | <b>112954</b> | 52           | 9.123     | 9.013  | 9.687            | A1F  | 0.00             | 0.50 | 1-3/16     | 3-15/16 | 37                    | 3.356   |
| P56-14M-85-3535  | <b>112955</b> | 56           | 9.825     | 9.715  | 10.375           | A1F  | 0.00             | 0.50 | 1-3/16     | 3-15/16 | 52                    | 5.300   |
| P60-14M-85-3535  | <b>112956</b> | 60           | 10.527    | 10.417 | 11.062           | A1F  | 0.00             | 0.50 | 1-3/16     | 3-15/16 | 63                    | 7.128   |
| P64-14M-85-3535  | <b>112957</b> | 64           | 11.229    | 11.119 | 11.750           | A1F  | 0.00             | 0.50 | 1-3/16     | 3-15/16 | 74                    | 9.334   |
| P68-14M-85-3535  | <b>112958</b> | 68           | 11.930    | 11.820 | 12.500           | A2F  | 0.00             | 0.50 | 1-3/16     | 3-15/16 | 63                    | 9.169   |
| P72-14M-85-3535  | <b>112959</b> | 72           | 12.632    | 12.522 | 13.187           | A1F  | 0.00             | 0.50 | 1-3/16     | 3-15/16 | 97                    | 15.19   |
| P80-14M-85-3535  | <b>112960</b> | 80           | 14.036    | 13.926 | 14.625           | A2F  | 0.00             | 0.50 | 1-3/16     | 3-15/16 | 63                    | 13.04   |
| P90-14M-85-3535  | <b>114474</b> | 90           | 15.790    | 15.680 | ...              | A2   | 0.00             | 0.50 | 1-3/16     | 3-15/16 | 72                    | 18.14   |
| P112-14M-85-3535 | <b>114844</b> | 112          | 19.650    | 19.540 | ...              | A3   | 0.00             | 0.50 | 1-3/16     | 3-15/16 | 131                   | 44.18   |
| P144-14M-85-4040 | <b>114855</b> | 144          | 25.264    | 25.154 | ...              | A3   | 0.00             | 0.00 | 1-7/16     | 4-7/16  | 137                   | 92.10   |
| P168-14M-85-4040 | <b>114489</b> | 168          | 29.475    | 29.265 | ...              | A3   | 0.00             | 0.00 | 1-7/16     | 4-7/16  | 192                   | 194.5   |
| P192-14M-85-4040 | <b>114850</b> | 192          | 33.686    | 33.576 | ...              | A3   | 0.00             | 0.00 | 1-7/16     | 4-7/16  | 448                   | 444.6   |

TAPER-LOCK Sprockets limited to torque capacity of bushing.

|                                  |                           |                                       |  |
|----------------------------------|---------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SELECTION<br>PAGE PT11-19 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|---------------------------|---------------------------------------|--|





# SPECIFICATION

## HT TAPER-LOCK Sprockets

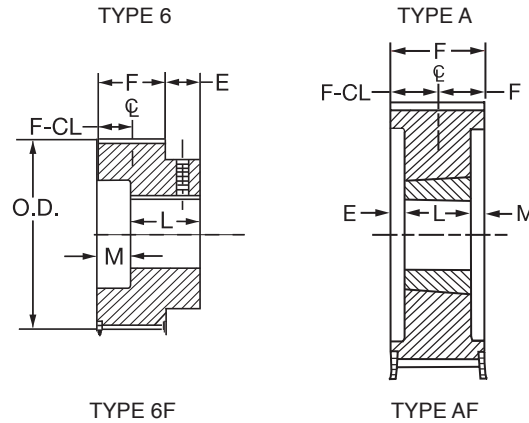


### 14MM Sprockets

| Sprocket Number   | Part No.      | No. Of Teeth | Diameters        |        |        | Type | Dimensions (In.) |      | Bore Sizes |         | Approx. Weight (Lbs.) | Approx. Wr <sup>2</sup> (Lb-Ft <sup>2</sup> ) |
|-------------------|---------------|--------------|------------------|--------|--------|------|------------------|------|------------|---------|-----------------------|---|
|                   |               |              | P.D.             | O.D.   | Flange |      | E                | M    | Min.       | Max     |                       |   |
| <b>14M-115</b>    |               |              | <b>F = 5.25"</b> |        |        |      |                  |      |            |         |                       |   |
| P30-14M-115-2517  | <b>114838</b> | 30           | 5.263            | 5.153  | 5.763  | A1F  | 1.75             | 1.75 | 1/2        | 2-11/16 | 13                    | 0.4386  |
| P32-14M-115-2517  | <b>114517</b> | 32           | 5.614            | 5.504  | 6.114  | A1F  | 1.75             | 1.75 | 1/2        | 2-11/16 | 16                    | 0.5873  |
| P34-14M-115-2517  | <b>114518</b> | 34           | 5.965            | 5.855  | 6.465  | A1F  | 1.75             | 1.75 | 1/2        | 2-11/16 | 19                    | 0.7908  |
| P36-14M-115-3020  | <b>114519</b> | 36           | 6.316            | 6.206  | 6.816  | A1F  | 1.63             | 1.63 | 7/8        | 3-1/4   | 18                    | 0.8766  |
| P38-14M-115-3020  | <b>114494</b> | 38           | 6.667            | 6.557  | 7.167  | A1F  | 1.63             | 1.63 | 7/8        | 3-1/4   | 20                    | 1.100   |
| P40-14M-115-3020  | <b>114475</b> | 40           | 7.018            | 6.908  | 7.518  | A1F  | 1.63             | 1.63 | 7/8        | 3-1/4   | 23                    | 1.357   |
| P44-14M-115-3535  | <b>114522</b> | 44           | 7.720            | 7.610  | 8.395  | A1F  | 0.88             | 0.88 | 1-3/16     | 3-15/16 | 30                    | 2.144   |
| P48-14M-115-3535  | <b>114523</b> | 48           | 8.421            | 8.311  | 8.941  | A1F  | 0.88             | 0.88 | 1-3/16     | 3-15/16 | 40                    | 3.277   |
| P52-14M-115-4040  | <b>114524</b> | 52           | 9.123            | 9.013  | 9.687  | A1F  | 0.63             | 0.63 | 1-7/16     | 4-7/16  | 47                    | 4.545   |
| P56-14M-115-4040  | <b>114525</b> | 56           | 9.825            | 9.715  | 10.355 | A1F  | 0.63             | 0.63 | 1-7/16     | 4-7/16  | 58                    | 6.335   |
| P60-14M-115-4040  | <b>114526</b> | 60           | 10.527           | 10.417 | 11.067 | A1F  | 0.63             | 0.63 | 1-7/16     | 4-7/16  | 70                    | 8.589   |
| P64-14M-115-4545  | <b>114527</b> | 64           | 11.229           | 11.119 | 11.750 | A1F  | 0.38             | 0.38 | 1-15/16    | 4-15/16 | 82                    | 11.47   |
| P68-14M-115-4545  | <b>114528</b> | 68           | 11.930           | 11.820 | 12.500 | A1F  | 0.38             | 0.38 | 1-15/16    | 4-15/16 | 97                    | 14.91   |
| P72-14M-115-4545  | <b>114529</b> | 72           | 12.632           | 12.522 | 13.066 | A1F  | 0.00             | 0.75 | 1-15/16    | 4-15/16 | 113                   | 19.06   |
| P80-14M-115-4545  | <b>114530</b> | 80           | 14.036           | 13.926 | 14.620 | A2F  | 0.38             | 0.38 | 1-15/16    | 4-15/16 | 148                   | 29.66   |
| P90-14M-115-4545  | <b>114476</b> | 90           | 15.790           | 15.680 | ...    | A2   | 0.38             | 0.38 | 1-15/16    | 4-15/16 | 117                   | 28.30   |
| P112-14M-115-4545 | <b>114477</b> | 112          | 19.650           | 19.540 | ...    | A2   | 0.00             | 0.75 | 1-15/16    | 4-15/16 | 173                   | 64.72   |
| P144-14M-115-4545 | <b>114856</b> | 144          | 25.264           | 25.154 | ...    | A3   | 0.38             | 0.38 | 1-15/16    | 4-15/16 | 120                   | 172.2   |
| P168-14M-115-4545 | <b>114848</b> | 168          | 29.475           | 29.265 | ...    | A3   | 0.38             | 0.38 | 1-15/16    | 4-15/16 | 223                   | 243.3   |
| P192-14M-115-4545 | <b>114482</b> | 192          | 33.686           | 33.576 | ...    | A3   | 0.38             | 0.38 | 1-15/16    | 4-15/16 | 475                   | 496.5   |
| P216-14M-115-6050 | <b>114857</b> | 216          | 37.896           | 37.786 | ...    | A3   | 0.00             | 0.25 | 4-7/16     | 6       | 686                   | 378.0   |
| <b>14M-170</b>    |               |              | <b>F = 7.38"</b> |        |        |      |                  |      |            |         |                       |   |
| P40-14M-170-3535* | <b>114539</b> | 40           | 7.018            | 6.908  | 7.518  | A1F  | 1.94             | 1.94 | 1-3/16     | 3-15/16 | 29                    | 1.780   |
| P44-14M-170-3535  | <b>114540</b> | 44           | 7.720            | 7.610  | 8.395  | A1F  | 1.94             | 1.94 | 1-3/16     | 3-15/16 | 39                    | 2.828   |
| P48-14M-170-3535  | <b>114541</b> | 48           | 8.421            | 8.311  | 8.941  | A1F  | 1.94             | 1.94 | 1-3/16     | 3-15/16 | 51                    | 4.283   |
| P52-14M-170-4040  | <b>114542</b> | 52           | 9.123            | 9.013  | 9.687  | A1F  | 1.13             | 2.25 | 1-7/16     | 4-7/16  | 59                    | 5.877   |
| P56-14M-170-4040  | <b>114543</b> | 56           | 9.825            | 9.715  | 10.355 | A1F  | 1.13             | 2.25 | 1-7/16     | 4-7/16  | 71                    | 8.051   |
| P60-14M-170-4545  | <b>114544</b> | 60           | 10.527           | 10.417 | 11.067 | A1F  | 0.75             | 2.13 | 1-15/16    | 4-15/16 | 83                    | 10.85   |
| P64-14M-170-4545  | <b>114545</b> | 64           | 11.229           | 11.119 | 11.750 | A1F  | 0.63             | 2.25 | 1-15/16    | 4-15/16 | 94                    | 13.71   |
| P68-14M-170-4545  | <b>114546</b> | 68           | 11.930           | 11.820 | 12.500 | A1F  | 0.63             | 2.25 | 1-15/16    | 4-15/16 | 113                   | 18.15   |
| P72-14M-170-4545  | <b>114547</b> | 72           | 12.632           | 12.522 | 13.066 | A1F  | 0.63             | 2.25 | 1-15/16    | 4-15/16 | 130                   | 23.00   |
| P80-14M-170-4545  | <b>114548</b> | 80           | 14.036           | 13.926 | 14.625 | A1F  | 1.03             | 1.84 | 1-15/16    | 4-15/16 | 166                   | 35.12   |
| P90-14M-170-4545  | <b>114478</b> | 90           | 15.790           | 15.680 | ...    | A2   | 0.63             | 2.25 | 1-15/16    | 4-15/16 | 159                   | 42.03   |
| P112-14M-170-4545 | <b>114479</b> | 112          | 19.650           | 19.540 | ...    | D2   | 0.25             | 3.12 | 1-15/16    | 4-15/16 | 215                   | 81.30   |
| P144-14M-170-6050 | <b>114858</b> | 144          | 25.264           | 25.154 | ...    | A3   | 1.19             | 1.19 | 4-7/16     | 6       | 264                   | 207.9   |
| P168-14M-170-6050 | <b>114499</b> | 168          | 29.475           | 29.265 | ...    | A3   | 1.19             | 1.19 | 4-7/16     | 6       | 462                   | 384.2   |
| P192-14M-170-6050 | <b>117846</b> | 192          | 33.686           | 33.576 | ...    | A3   | 1.19             | 1.19 | 4-7/16     | 6       | 616                   | 655.7   |
| P216-14M-170-6050 | <b>117848</b> | 216          | 37.896           | 37.786 | ...    | A2   | 1.19             | 1.19 | 4-7/16     | 6       | 563                   | 851.7   |



## HT Sprockets



### Plain Bore HT Sprockets

| Sprocket Number | Part No. | No. Of Teeth | Diameters          |       |        | Dimensions (Inches) |      |      | Bore Range |         | Approx. Weight (Lbs.) | Approx. $Wr^2$ (Lb-Ft <sup>2</sup> ) |
|-----------------|----------|--------------|--------------------|-------|--------|---------------------|------|------|------------|---------|-----------------------|--------------------------------------|
|                 |          |              | Pitch              | O.D.  | Flange | E                   | L    | M    | Min.       | Max     |                       |                                      |
|                 |          |              | <b>8 MM Pitch</b>  |       |        | <b>Type 6F</b>      |      |      |            |         |                       |                                      |
| P22-8M-20-MPB   | 110700   | 22           | 2.206              | 2.152 | 2.606  | 0.60                | 1.80 | 0.00 | 1/2        | 1-3/16  | 1.3                   | 0.0048                               |
| P22-8M-30-MPB   | 110720   | 22           | 2.206              | 2.152 | 2.606  | 0.60                | 2.10 | 0.00 | 1/2        | 1-3/16  | 1.6                   | 0.0060                               |
| P24-8M-30-MPB   | 110721   | 24           | 2.406              | 2.352 | 2.756  | 0.60                | 2.10 | 0.00 | 1/2        | 1-1/4   | 1.9                   | 0.0061                               |
| P26-8M-30-MPB   | 110722   | 26           | 2.607              | 2.553 | 2.906  | 0.80                | 2.30 | 0.00 | 1/2        | 1-1/4   | 2.4                   | 0.0087                               |
| P28-8M-50-MPB   | 114484   | 28           | 2.807              | 2.753 | 3.207  | 0.60                | 2.50 | 0.50 | 1/2        | 1-1/2   | 3.7                   | 0.0240                               |
| P30-8M-50-MPB   | 110741   | 30           | 3.008              | 2.954 | 3.346  | 0.60                | 2.50 | 0.50 | 1/2        | 1-1/2   | 4.3                   | 0.0319                               |
| P38-8M-85-MPB   | 114827   | 38           | 3.810              | 3.756 | 4.201  | 0.60                | 3.30 | 1.10 | 1/2        | 1-7/8   | 9.7                   | 0.1204                               |
|                 |          |              | <b>14 MM Pitch</b> |       |        | <b>Type 6F</b>      |      |      |            |         |                       |                                      |
| P28-14M-85-MPB  | 110830   | 28           | 4.912              | 4.802 | 5.562  | 1.00                | 4.00 | 1.00 | 1-1/4      | 2-11/16 | 17                    | 0.3128                               |
| P29-14M-85-MPB  | 110831   | 29           | 5.088              | 4.978 | 5.562  | 1.00                | 4.00 | 1.00 | 1-1/4      | 2-11/16 | 19                    | 0.3654                               |
| P28-14M-115-MPB | 110855   | 28           | 4.912              | 4.802 | 5.562  | 1.30                | 5.00 | 1.50 | 1-1/4      | 2-11/16 | 22                    | 0.4077                               |
| P29-14M-115-MPB | 110856   | 29           | 5.088              | 4.978 | 5.562  | 1.30                | 5.00 | 1.50 | 1-1/4      | 2-11/16 | 24                    | 0.4768                               |
| P36-14M-170-MPB | 110880   | 36           | 6.316              | 6.206 | 6.816  | 1.30                | 6.00 | 2.60 | 1-1/2      | 3-3/8   | 47                    | 1.593                                |
| P38-14M-170-MPB | 110881   | 38           | 6.667              | 6.557 | 7.167  | 1.30                | 6.00 | 2.60 | 1-1/2      | 3-3/8   | 54                    | 1.987                                |
| P40-14M-170-MPB | 110882   | 40           | 7.018              | 6.908 | 7.518  | 1.30                | 6.00 | 2.60 | 1-1/2      | 3-3/4   | 60                    | 2.479                                |

### Fin-Fan Sprockets

### For Cooling Tower Drives

| TAPER-LOCK       |        | 14 MM Pitch |        | Type A |     |      |      |      |     |       |       |       |
|------------------|--------|-------------|--------|--------|-----|------|------|------|-----|-------|-------|-------|
| P168-14M-40-3020 | 114852 | 168         | 29.475 | 29.265 | ... | 0.00 | 2.00 | 0.10 | 7/8 | 3-1/4 | 133   | 113.3 |
| P192-14M-40-3020 | 114853 | 192         | 33.686 | 33.576 | ... | 0.00 | 2.00 | 0.10 | 7/8 | 3-1/4 | 168   | 189.8 |
| P168-14M-55-3020 | 114860 | 168         | 29.475 | 29.265 | ... | 0.00 | 2.00 | 0.80 | 7/8 | 3-1/4 | 146   | 150.2 |
| F192-14M-55-3020 | 114993 | 192         | 33.686 | 33.576 | ... | 0.00 | 2.00 | 0.80 | 7/8 | 3-1/4 | 162   | 170.9 |
| F216-14M-55-3020 | 114994 | 216         | 37.896 | 37.786 | ... | 0.00 | 2.00 | 0.80 | 7/8 | 3-1/4 | 195   | 254.6 |
| QD               |        | 14 MM Pitch |        | Type A |     |      |      |      |     |       |       |       |
| F168-14M-55-E    | 114375 | 168         | 29.475 | 29.265 | ... | 0.60 | 1.60 | 0.60 | 7/8 | 3-1/2 | 151.7 | 102.6 |
| F192-14M-55-E    | 114376 | 192         | 33.686 | 33.576 | ... | 0.60 | 1.60 | 0.60 | 7/8 | 3-1/2 | 127.8 | 143.5 |
| F144-14M-85-E    | 114377 | 144         | 25.262 | 25.154 | ... | 0.60 | 1.60 | 1.20 | 7/8 | 3-1/2 | 140.3 | 77.97 |
| F168-14M-85-E    | 114378 | 168         | 29.475 | 29.265 | ... | 0.00 | 1.60 | 1.20 | 7/8 | 3-1/2 | 175.1 | 129.5 |
| F192-14M-85-E    | 114379 | 192         | 33.686 | 33.576 | ... | 0.00 | 1.60 | 1.20 | 7/8 | 3-1/2 | 183.0 | 210.5 |
| F216-14M-85-E    | 114380 | 216         | 37.896 | 37.786 | ... | 0.00 | 1.60 | 1.20 | 7/8 | 3-1/2 | 218.1 | 288.9 |

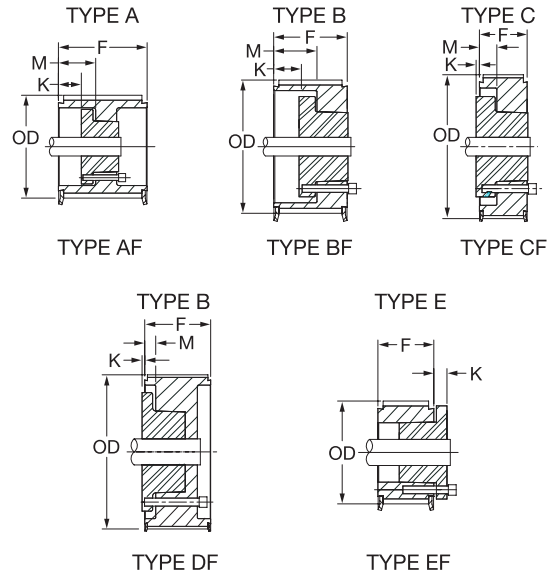
|                                  |                           |                                       |  |
|----------------------------------|---------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SELECTION<br>PAGE PT11-19 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|---------------------------|---------------------------------------|--|





## SPECIFICATION

### QD HTD Sprockets



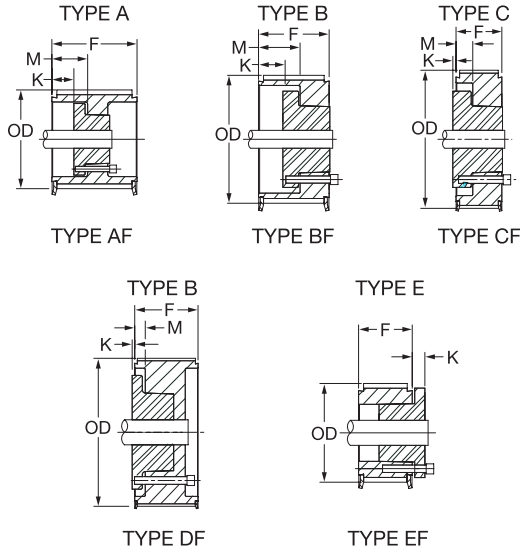
The figure following the sketch reference letter in the "Type" column indicates the construction of the sprocket (1 = Solid, 2 = Web, and 3 = Arms), and the letter "F" indicates that the sprocket has flanges.

### 5MM QD HTD Sprockets

| Sprocket Number | Part No.      | No. Of Teeth | Diameters      |       |        | Type | Dimensions (In.) |      | Bore Sizes |         | Approx. Weight (Lbs.) | Approx. Wr <sup>2</sup> (Lb-Ft <sup>2</sup> ) |
|-----------------|---------------|--------------|----------------|-------|--------|------|------------------|------|------------|---------|-----------------------|---|
|                 |               |              | P.D.           | O.D.  | Flange |      | M                | K    | Min.       | Max.    |                       |   |
| <b>5M-15</b>    |               |              | <b>F=0.89"</b> |       |        |      |                  |      |            |         |                       |   |
| P38-5M-15-JA    | <b>114641</b> | 38           | 2.381          | 2.336 | 2.613  | E1F  | 0.00             | 0.51 | 1/2        | 1-1/4   | 0.6                   | 0.0030  |
| P40-5M-15-JA    | <b>114642</b> | 40           | 2.506          | 2.461 | 2.733  | E1F  | 0.00             | 0.51 | 1/2        | 1-1/4   | 0.7                   | 0.0039  |
| P44-5M-15-JA    | <b>114643</b> | 44           | 2.757          | 2.712 | 3.090  | E1F  | 0.00             | 0.51 | 1/2        | 1-1/4   | 0.9                   | 0.0061  |
| P48-5M-15-JA    | <b>114644</b> | 48           | 3.008          | 2.963 | 3.328  | D1F  | 0.31             | 0.20 | 1/2        | 1-1/4   | 0.9                   | 0.0076  |
| P52-5M-15-JA    | <b>114645</b> | 52           | 3.258          | 3.213 | 3.566  | D1F  | 0.31             | 0.20 | 1/2        | 1-1/4   | 1.1                   | 0.0106  |
| P56-5M-15-SH    | <b>114646</b> | 56           | 3.509          | 3.464 | 3.805  | E1F  | 0.00             | 0.68 | 1/2        | 1-11/16 | 1.5                   | 0.0169  |
| P60-5M-15-SH    | <b>114647</b> | 60           | 3.760          | 3.715 | 4.044  | E1F  | 0.00             | 0.68 | 1/2        | 1-11/16 | 1.8                   | 0.0233  |
| P64-5M-15-SH    | <b>114648</b> | 64           | 4.010          | 3.965 | 4.170  | E1F  | 0.00             | 0.68 | 1/2        | 1-11/16 | 2.1                   | 0.0312  |
| P68-5M-15-SDS   | <b>114649</b> | 68           | 4.261          | 4.216 | 4.520  | D1F  | 0.14             | 0.56 | 1/2        | 2       | 2.1                   | 0.0369  |
| P72-5M-15-SDS   | <b>114650</b> | 72           | 4.511          | 4.466 | 4.670  | D1F  | 0.14             | 0.56 | 1/2        | 2       | 2.4                   | 0.0463  |
| P80-5M-15-SDS   | <b>114651</b> | 80           | 5.013          | 4.968 | ...    | C1   | 0.14             | 0.56 | 1/2        | 2       | 3.1                   | 0.0732  |
| P90-5M-15-SDS   | <b>114652</b> | 90           | 5.639          | 5.594 | ...    | C1   | 0.14             | 0.56 | 1/2        | 2       | 4.1                   | 0.1204  |
| P112-5M-15-SDS  | <b>114653</b> | 112          | 7.018          | 6.973 | ...    | C1   | 0.14             | 0.56 | 1/2        | 2       | 6.9                   | 0.3033  |
| <b>5M-25</b>    |               |              | <b>F=1.28"</b> |       |        |      |                  |      |            |         |                       |   |
| P38-5M-25-JA    | <b>114655</b> | 38           | 2.381          | 2.336 | 2.613  | E1F  | 0.00             | 0.51 | 1/2        | 1-1/4   | 0.9                   | 0.0043  |
| P40-5M-25-JA    | <b>114656</b> | 40           | 2.506          | 2.461 | 2.733  | E1F  | 0.00             | 0.51 | 1/2        | 1-1/4   | 1.0                   | 0.0056  |
| P44-5M-25-JA    | <b>114657</b> | 44           | 2.757          | 2.712 | 3.090  | E1F  | 0.00             | 0.51 | 1/2        | 1-1/4   | 1.3                   | 0.0088  |
| P48-5M-25-JA    | <b>114658</b> | 48           | 3.008          | 2.963 | 3.328  | B1F  | 0.72             | 0.21 | 1/2        | 1-1/4   | 1.1                   | 0.0097  |
| P52-5M-25-JA    | <b>114659</b> | 52           | 3.258          | 3.213 | 3.566  | B1F  | 0.72             | 0.21 | 1/2        | 1-1/4   | 1.3                   | 0.0133  |
| P56-5M-25-SH    | <b>114660</b> | 56           | 3.509          | 3.464 | 3.805  | C1F  | 0.47             | 0.21 | 1/2        | 1-11/16 | 1.7                   | 0.0206  |
| P60-5M-25-SH    | <b>114661</b> | 60           | 3.760          | 3.715 | 4.044  | C1F  | 0.47             | 0.21 | 1/2        | 1-11/16 | 2.1                   | 0.0285  |
| P64-5M-25-SH    | <b>114662</b> | 64           | 4.010          | 3.965 | 4.170  | C1F  | 0.47             | 0.21 | 1/2        | 1-11/16 | 2.4                   | 0.0379  |
| P68-5M-25-SDS   | <b>114663</b> | 68           | 4.261          | 4.216 | 4.520  | C1F  | 0.53             | 0.17 | 1/2        | 2       | 2.6                   | 0.0479  |
| P72-5M-25-SDS   | <b>114664</b> | 72           | 4.511          | 4.466 | 4.670  | C1F  | 0.53             | 0.17 | 1/2        | 2       | 2.8                   | 0.0564  |
| P80-5M-25-SDS   | <b>114665</b> | 80           | 5.013          | 4.968 | ...    | C1   | 0.53             | 0.17 | 1/2        | 2       | 3.6                   | 0.0875  |
| P90-5M-25-SDS   | <b>114666</b> | 90           | 5.639          | 5.594 | ...    | C1   | 0.53             | 0.17 | 1/2        | 2       | 4.7                   | 0.1414  |
| P112-5M-25-SDS  | <b>114667</b> | 112          | 7.018          | 6.973 | ...    | C1   | 0.53             | 0.17 | 1/2        | 2       | 7.7                   | 0.3595  |



## QD HTD Sprockets



The figure following the sketch reference letter in the "Type" column indicates the construction of the sprocket (1 = Solid, 2 = Web, and 3 = Arms), and the letter "F" indicates that the sprocket has flanges.

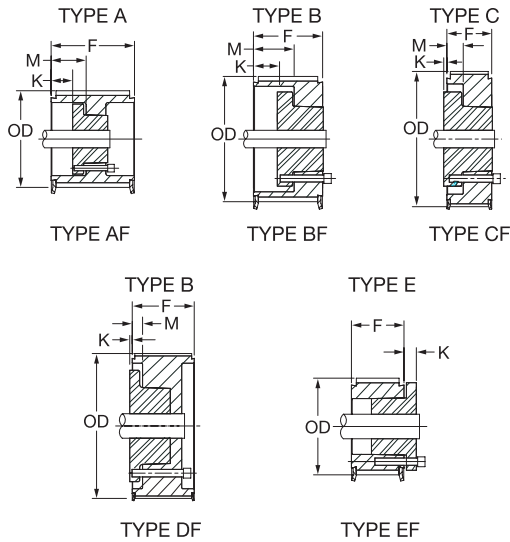
### 8MM QD HTD Sprockets

| Sprocket Number | Part No.      | No. Of Teeth | Diameters         |        |        | Type | Dimensions (In.) |      | Bore Sizes |         | Approx. Weight (Lbs.) | Approx. Wr <sup>2</sup> (Lb-Ft <sup>2</sup> ) |
|-----------------|---------------|--------------|-------------------|--------|--------|------|------------------|------|------------|---------|-----------------------|---|
|                 |               |              | P.D.              | O.D.   | Flange |      | M                | K    | Min.       | Max     |                       |   |
| <b>8M-20</b>    |               |              | <b>F = 1.125"</b> |        |        |      |                  |      |            |         |                       |   |
| P24-8M-20-JA    | <b>110701</b> | 24           | 2.406             | 2.352  | 2.756  | E1F  | 0.00             | 0.51 | 1/2        | 1-1/4   | 0.8                   | 0.0039  |
| P26-8M-20-JA    | <b>110702</b> | 26           | 2.607             | 2.553  | 2.906  | E1F  | 0.00             | 0.51 | 1/2        | 1-1/4   | 1.0                   | 0.0059  |
| P28-8M-20-QT    | <b>110703</b> | 28           | 2.807             | 2.759  | 3.207  | E1F  | 0.00             | 1.42 | 3/8        | 1-1/2   | 1.1                   | 0.0078  |
| P30-8M-20-QT    | <b>110704</b> | 30           | 3.008             | 2.958  | 3.408  | E1F  | 0.00             | 1.42 | 3/8        | 1-1/2   | 1.3                   | 0.0110  |
| P32-8M-20-QT    | <b>110705</b> | 32           | 3.208             | 3.156  | 3.608  | E1F  | 0.00             | 1.42 | 3/8        | 1-1/2   | 1.6                   | 0.0148  |
| P34-8M-20-SH    | <b>110706</b> | 34           | 3.409             | 3.355  | 3.810  | E1F  | 0.00             | 0.68 | 1/2        | 1-11/16 | 1.6                   | 0.0181  |
| P36-8M-20-SH    | <b>110707</b> | 36           | 3.609             | 3.555  | 4.009  | C1F  | 0.31             | 0.37 | 1/2        | 1-11/16 | 1.7                   | 0.0213  |
| P38-8M-20-SH    | <b>110708</b> | 38           | 3.810             | 3.756  | 4.210  | C1F  | 0.31             | 0.37 | 1/2        | 2       | 2.0                   | 0.0272  |
| P40-8M-20-SH    | <b>110709</b> | 40           | 4.010             | 3.956  | 4.410  | C1F  | 0.31             | 0.37 | 1/2        | 2       | 2.3                   | 0.0353  |
| P44-8M-20-SDS   | <b>110710</b> | 44           | 4.411             | 4.357  | 4.764  | C1F  | 0.38             | 0.32 | 1/2        | 2       | 2.6                   | 0.0490  |
| P48-8M-20-SDS   | <b>110711</b> | 48           | 4.812             | 4.758  | 5.212  | C1F  | 0.38             | 0.32 | 1/2        | 2       | 3.4                   | 0.0771  |
| P56-8M-20-SDS   | <b>110712</b> | 56           | 5.614             | 5.560  | 6.014  | C1F  | 0.38             | 0.32 | 1/2        | 2       | 4.6                   | 0.1370  |
| P64-8M-20-SDS   | <b>110713</b> | 64           | 6.416             | 6.362  | 6.716  | C1F  | 0.38             | 0.32 | 1/2        | 2       | 6.8                   | 0.2639  |
| P72-8M-20-SDS   | <b>110714</b> | 72           | 7.218             | 7.164  | 7.500  | C1F  | 0.38             | 0.32 | 1/2        | 2       | 8.8                   | 0.4298  |
| P80-8M-20-SDS   | <b>110715</b> | 80           | 8.020             | 7.966  | 8.420  | C1F  | 0.38             | 0.32 | 1/2        | 2       | 11                    | 0.6433  |
| P90-8M-20-SDS   | <b>110716</b> | 90           | 9.023             | 8.969  | ...    | C2   | 0.38             | 0.32 | 1/2        | 2       | 12                    | 0.9369  |
| <b>8M-30</b>    |               |              | <b>F = 1.5"</b>   |        |        |      |                  |      |            |         |                       |   |
| P28-8M-30-QT    | <b>110723</b> | 28           | 2.807             | 2.759  | 3.207  | E1F  | 0.00             | 0.37 | 1/2        | 1-1/2   | 1.4                   | 0.0104  |
| P30-8M-30-QT    | <b>110724</b> | 30           | 3.008             | 2.958  | 3.408  | E1F  | 0.00             | 0.37 | 3/8        | 1-1/2   | 1.8                   | 0.0146  |
| P32-8M-30-QT    | <b>110725</b> | 32           | 3.208             | 3.156  | 3.608  | E1F  | 0.00             | 0.37 | 3/8        | 1-1/2   | 2.1                   | 0.0197  |
| P34-8M-30-SH    | <b>110726</b> | 34           | 3.409             | 3.355  | 3.810  | B1F  | 0.69             | 0.01 | 1/2        | 1-11/16 | 1.6                   | 0.0186  |
| P36-8M-30-SH    | <b>110727</b> | 36           | 3.609             | 3.555  | 4.009  | B1F  | 0.69             | 0.01 | 1/2        | 1-11/16 | 2.0                   | 0.0259  |
| P38-8M-30-SH    | <b>110728</b> | 38           | 3.810             | 3.756  | 4.210  | B1F  | 0.69             | 0.01 | 1/2        | 1-11/16 | 2.3                   | 0.0328  |
| P40-8M-30-SH    | <b>110729</b> | 40           | 4.010             | 3.956  | 4.410  | B1F  | 0.69             | 0.01 | 1/2        | 1-11/16 | 2.8                   | 0.0435  |
| P44-8M-30-SDS   | <b>110730</b> | 44           | 4.411             | 4.357  | 4.764  | B1F  | 0.75             | 0.05 | 1/2        | 2       | 3.0                   | 0.0595  |
| P48-8M-30-SDS   | <b>110731</b> | 48           | 4.812             | 4.758  | 5.212  | B1F  | 0.75             | 0.05 | 1/2        | 2       | 3.8                   | 0.0880  |
| P56-8M-30-SDS   | <b>110732</b> | 56           | 5.614             | 5.560  | 6.014  | B1F  | 0.75             | 0.05 | 1/2        | 2       | 5.2                   | 0.1633  |
| P64-8M-30-SK    | <b>110733</b> | 64           | 6.416             | 6.362  | 6.716  | C1F  | 0.25             | 0.64 | 1/2        | 2-5/8   | 8.6                   | 0.3421  |
| P72-8M-30-SK    | <b>110734</b> | 72           | 7.218             | 7.164  | 7.500  | C1F  | 0.25             | 0.64 | 1/2        | 2-5/8   | 12                    | 0.5710  |
| P80-8M-30-SK    | <b>110735</b> | 80           | 8.020             | 7.966  | 8.420  | C2   | 0.25             | 0.64 | 1/2        | 2-5/8   | 11                    | 0.6487  |
| P90-8M-30-SK    | <b>110736</b> | 90           | 9.023             | 8.969  | ...    | C2   | 0.25             | 0.64 | 1/2        | 2-5/8   | 16                    | 1.2862  |
| P112-8M-30-SK   | <b>110737</b> | 112          | 11.229            | 11.175 | ...    | C2   | 0.25             | 0.64 | 1/2        | 2-5/8   | 22                    | 2.703   |



## SPECIFICATION

### QD HTD Sprockets



The figure following the sketch reference letter in the "Type" column indicates the construction of the sprocket (1 = Solid, 2 = Web, and 3 = Arms), and the letter "F" indicates that the sprocket has flanges.

#### 8MM QD HTD Sprockets

| Sprocket Number        | Part No.      | No. Of Teeth | Diameters |        |        | Type | Dimensions (In.) |      | Bore Sizes |         | Approx. Weight (Lbs.) | Approx. Wr <sup>2</sup> (Lb-Ft <sup>2</sup> ) |
|------------------------|---------------|--------------|-----------|--------|--------|------|------------------|------|------------|---------|-----------------------|---|
|                        |               |              | P.D.      | O.D.   | Flange |      | M                | K    | Min.       | Max.    |                       |   |
| <b>8M-50 F = 2.38"</b> |               |              |           |        |        |      |                  |      |            |         |                       |   |
| P28-8M-50-JA           | <b>110738</b> | 28           | 2.807     | 2.759  | 3.207  | A1F  | 0.81             | 0.30 | 1/2        | 1-1/4   | 1.7                   | 0.0127  |
| P30-8M-50-JA           | <b>110739</b> | 30           | 3.008     | 2.958  | 3.408  | A1F  | 0.81             | 0.30 | 1/2        | 1-1/4   | 1.9                   | 0.0172  |
| P32-8M-50-QT           | <b>110742</b> | 32           | 3.208     | 3.156  | 3.608  | A1F  | 0.81             | 0.30 | 3/8        | 1-1/2   | 2.1                   | 0.0214  |
| P34-8M-50-SH           | <b>110743</b> | 34           | 3.409     | 3.355  | 3.810  | D1F  | 0.50             | 0.18 | 1/2        | 1-11/16 | 2.2                   | 0.0263  |
| P36-8M-50-SH           | <b>110744</b> | 36           | 3.609     | 3.555  | 4.009  | D1F  | 0.50             | 0.18 | 1/2        | 1-11/16 | 2.8                   | 0.0367  |
| P38-8M-50-SH           | <b>110745</b> | 38           | 3.810     | 3.756  | 4.210  | D1F  | 0.50             | 0.18 | 1/2        | 1-11/16 | 3.1                   | 0.0462  |
| P40-8M-50-SH           | <b>110746</b> | 40           | 4.010     | 3.956  | 4.410  | D1F  | 0.50             | 0.18 | 1/2        | 1-11/16 | 3.9                   | 0.0632  |
| P44-8M-50-SD           | <b>110747</b> | 44           | 4.411     | 4.357  | 4.764  | D1F  | 0.56             | 1.74 | 1/2        | 2       | 5.5                   | 0.1068  |
| P48-8M-50-SD           | <b>110748</b> | 48           | 4.812     | 4.758  | 5.212  | D1F  | 0.56             | 1.74 | 1/2        | 2       | 7.2                   | 0.1644  |
| P56-8M-50-SK           | <b>110749</b> | 56           | 5.614     | 5.560  | 6.014  | D1F  | 0.56             | 0.33 | 1/2        | 2-15/16 | 11                    | 0.3314  |
| P64-8M-50-SK           | <b>110750</b> | 64           | 6.416     | 6.362  | 6.716  | D1F  | 0.56             | 0.33 | 1/2        | 2-15/16 | 10                    | 0.4400  |
| P72-8M-50-SK           | <b>110751</b> | 72           | 7.218     | 7.164  | 7.500  | D1F  | 0.56             | 0.33 | 1/2        | 2-15/16 | 16                    | 0.8488  |
| P80-8M-50-SF           | <b>110752</b> | 80           | 8.020     | 7.966  | 8.420  | D1F  | 0.56             | 0.38 | 1/2        | 2-15/16 | 20                    | 1.335   |
| P90-8M-50-SF           | <b>110753</b> | 90           | 9.023     | 8.969  | ...    | D1   | 0.56             | 0.38 | 1/2        | 2-15/16 | 25                    | 2.102c  |
| P112-8M-50-SF          | <b>110754</b> | 112          | 11.229    | 11.175 | ...    | D2   | 0.75             | 0.19 | 1/2        | 2-15/16 | 32                    | 4.152   |
| P144-8M-50-E           | <b>110755</b> | 144          | 14.437    | 14.383 | ...    | D3   | 0.38             | 0.82 | 7/8        | 3-1/2   | 45                    | 9.391   |
| P192-8M-50-E           | <b>110756</b> | 192          | 19.249    | 19.195 | ...    | D3   | 0.38             | 0.82 | 7/8        | 3-1/2   | 65                    | 20.42   |
| <b>8M-85 F = 3.75"</b> |               |              |           |        |        |      |                  |      |            |         |                       |   |
| P34-8M-85-SH           | <b>110760</b> | 34           | 3.409     | 3.355  | 3.810  | A1F  | 1.50             | 0.82 | 1/2        | 1-11/16 | 3.1                   | 0.0376  |
| P36-8M-85-SH           | <b>110761</b> | 36           | 3.609     | 3.555  | 4.009  | A1F  | 1.50             | 0.82 | 1/2        | 1-11/16 | 3.9                   | 0.0535  |
| P38-8M-85-SH           | <b>110762</b> | 38           | 3.810     | 3.756  | 4.210  | A1F  | 1.50             | 0.82 | 1/2        | 1-11/16 | 4.4                   | 0.0671  |
| P40-8M-85-SD           | <b>110763</b> | 40           | 4.010     | 3.956  | 4.410  | A1F  | 1.25             | 0.55 | 1/2        | 2       | 4.9                   | 0.0836  |
| P44-8M-85-SD           | <b>110764</b> | 44           | 4.411     | 4.357  | 4.764  | A1F  | 1.25             | 0.55 | 1/2        | 2       | 7.8                   | 0.1589  |
| P48-8M-85-SD           | <b>110765</b> | 48           | 4.812     | 4.758  | 5.212  | A1F  | 1.25             | 0.55 | 1/2        | 2       | 11                    | 0.2496  |
| P56-8M-85-SK           | <b>110766</b> | 56           | 5.614     | 5.560  | 6.014  | A1F  | 1.25             | 0.36 | 1/2        | 2-5/8   | 12                    | 0.4191  |
| P64-8M-85-SK           | <b>110767</b> | 64           | 6.42      | 6.362  | 6.716  | A1F  | 1.25             | 0.36 | 1/2        | 2-5/8   | 17                    | 0.7664  |
| P72-8M-85-SF           | <b>110768</b> | 72           | 7.218     | 7.164  | 7.500  | A1F  | 1.25             | 0.31 | 1/2        | 2-15/16 | 19                    | 1.114   |
| P80-8M-85-SF           | <b>110769</b> | 80           | 8.020     | 7.966  | 8.420  | A1F  | 1.25             | 0.31 | 1/2        | 2-15/16 | 29                    | 1.982   |
| P90-8M-85-SF           | <b>110770</b> | 90           | 9.023     | 8.969  | ...    | A1   | 1.25             | 0.31 | 1/2        | 2-15/16 | 26                    | 2.253   |
| P112-8M-85-SF          | <b>110771</b> | 112          | 11.229    | 11.175 | ...    | A2   | 1.25             | 0.31 | 1/2        | 2-15/16 | 38                    | 5.286   |
| P144-8M-85-E           | <b>110772</b> | 144          | 14.437    | 14.383 | ...    | D3   | 1.06             | 0.14 | 7/8        | 3-1/2   | 61                    | 14.031  |
| P192-8M-85-E           | <b>110773</b> | 192          | 19.249    | 19.195 | ...    | D3   | 1.06             | 0.14 | 7/8        | 3-1/2   | 76                    | 26.80   |

# SPECIFICATION



## 14MM QD HTD Sprockets

| Sprocket Number  | Part No.      | No. Of Teeth | Diameters |        |        | Type | Dimensions (In.) |      | Bore Sizes |         | Approx. Weight (Lbs.) | Approx. Wr <sup>2</sup> (Lb-Ft <sup>2</sup> ) |
|------------------|---------------|--------------|-----------|--------|--------|------|------------------|------|------------|---------|-----------------------|---|
|                  |               |              | P.D.      | O.D.   | Flange |      | M                | K    | Min.       | Max     |                       |   |
| <b>14M-40</b>    |               |              |           |        |        |      |                  |      |            |         |                       |   |
| <b>F = 2.13"</b> |               |              |           |        |        |      |                  |      |            |         |                       |   |
| P28-14M-40-SK    | <b>110780</b> | 28           | 4.912     | 4.808  | 5.562  | E1F  | 0.00             | 0.89 | 0.5        | 2-5/8   | 5.8                   | 0.1301  |
| P29-14M-40-SK    | <b>110781</b> | 29           | 5.088     | 4.983  | 5.562  | E1F  | 0.00             | 0.89 | 0.5        | 2-5/8   | 6.5                   | 0.1561  |
| P30-14M-40-SK    | <b>110782</b> | 30           | 5.263     | 5.157  | 5.763  | D1F  | 0.44             | 0.45 | 0.5        | 2-5/8   | 6.2                   | 0.1629  |
| P32-14M-40-SK    | <b>110783</b> | 32           | 5.614     | 5.507  | 6.114  | D1F  | 0.44             | 0.45 | 0.5        | 2-5/8   | 7.8                   | 0.2310  |
| P34-14M-40-SK    | <b>110784</b> | 34           | 5.965     | 5.858  | 6.465  | D1F  | 0.44             | 0.45 | 0.5        | 2-5/8   | 9.4                   | 0.3113  |
| P36-14M-40-SF    | <b>110785</b> | 36           | 6.316     | 6.208  | 6.816  | D1F  | 0.44             | 0.50 | 0.5        | 2-15/16 | 9.6                   | 0.3693  |
| P38-14M-40-SF    | <b>110786</b> | 38           | 6.667     | 6.559  | 7.167  | D1F  | 0.44             | 0.50 | 0.5        | 2-15/16 | 12                    | 0.5080  |
| P40-14M-40-SF    | <b>110787</b> | 40           | 7.018     | 6.909  | 7.518  | D1F  | 0.44             | 0.50 | 0.5        | 2-15/16 | 13                    | 0.6096  |
| P44-14M-40-E     | <b>110788</b> | 44           | 7.720     | 7.610  | 8.395  | D1F  | 0.38             | 0.82 | 0.875      | 3-1/2   | 16                    | 0.9305  |
| P48-14M-40-E     | <b>110789</b> | 48           | 8.421     | 8.311  | 8.941  | D1F  | 0.38             | 0.82 | 0.875      | 3-1/2   | 20                    | 1.360   |
| P52-14M-40-E     | <b>110790</b> | 52           | 9.123     | 9.013  | 9.687  | D1F  | 0.25             | 0.95 | 0.875      | 3-1/2   | 25                    | 1.991   |
| P56-14M-40-E     | <b>110791</b> | 56           | 9.825     | 9.715  | 10.355 | D1F  | 0.25             | 0.95 | 0.875      | 3-1/2   | 29                    | 2.583   |
| P60-14M-40-E     | <b>110792</b> | 60           | 10.527    | 10.417 | 11.067 | D1F  | 0.44             | 0.76 | 0.875      | 3-1/2   | 34                    | 3.494   |
| P64-14M-40-E     | <b>110793</b> | 64           | 11.229    | 11.119 | 11.750 | D1F  | 0.44             | 0.76 | 0.875      | 3-1/2   | 39                    | 4.489   |
| P68-14M-40-E     | <b>110794</b> | 68           | 11.930    | 11.820 | 12.500 | D2F  | 0.44             | 0.76 | 0.875      | 3-1/2   | 34                    | 4.368   |
| P72-14M-40-E     | <b>110795</b> | 72           | 12.632    | 12.522 | 13.066 | D2F  | 0.31             | 0.89 | 0.875      | 3-1/2   | 40                    | 5.811   |
| P80-14M-40-E     | <b>110796</b> | 80           | 14.036    | 13.926 | 14.620 | D3F  | 0.44             | 0.76 | 0.875      | 3-1/2   | 39                    | 7.005   |
| P90-14M-40-E     | <b>110797</b> | 90           | 15.790    | 15.680 | ...    | D3   | 0.25             | 0.95 | 0.875      | 3-1/2   | 40                    | 8.633   |
| P112-14M-40-E    | <b>110798</b> | 112          | 19.650    | 19.540 | ...    | D3   | 0.25             | 0.95 | 0.875      | 3-1/2   | 67                    | 21.62   |
| P144-14M-40-E    | <b>110799</b> | 144          | 25.264    | 25.154 | ...    | D3   | 0.25             | 0.95 | 0.875      | 3-1/2   | 66                    | 38.99   |
| P168-14M-40-F    | <b>110759</b> | 168          | 29.475    | 29.265 | ...    | C3   | 0.37             | 1.79 | 1          | 4       | 91                    | 74.83   |
| P192-14M-40-F    | <b>110774</b> | 192          | 33.686    | 33.576 | ...    | C3   | 0.37             | 1.79 | 1          | 4       | 108                   | 117.1   |
| <b>14M-55</b>    |               |              |           |        |        |      |                  |      |            |         |                       |   |
| <b>F = 2.75"</b> |               |              |           |        |        |      |                  |      |            |         |                       |   |
| P28-14M-55-SK    | <b>110805</b> | 28           | 4.912     | 4.808  | 5.562  | E1F  | 0.00             | 0.89 | 0.5        | 2-5/8   | 7.3                   | 0.1657  |
| P29-14M-55-SK    | <b>110806</b> | 29           | 5.088     | 4.983  | 5.562  | E1F  | 0.00             | 0.89 | 0.5        | 2-5/8   | 8.2                   | 0.1991  |
| P30-14M-55-SK    | <b>110807</b> | 30           | 5.263     | 5.157  | 5.763  | D1F  | 0.75             | 0.14 | 0.5        | 2-5/8   | 7.5                   | 0.1989  |
| P32-14M-55-SK    | <b>110808</b> | 32           | 5.614     | 5.507  | 6.114  | D1F  | 0.75             | 0.14 | 0.5        | 2-5/8   | 9.5                   | 0.2868  |
| P34-14M-55-SK    | <b>110809</b> | 34           | 5.965     | 5.858  | 6.465  | D1F  | 0.75             | 0.14 | 0.5        | 2-5/8   | 11                    | 0.3851  |
| P36-14M-55-SF    | <b>110810</b> | 36           | 6.316     | 6.208  | 6.816  | D1F  | 0.75             | 0.19 | 0.5        | 2-15/16 | 11                    | 0.4515  |
| P38-14M-55-SF    | <b>110811</b> | 38           | 6.667     | 6.559  | 7.167  | D1F  | 0.75             | 0.19 | 0.5        | 2-15/16 | 14                    | 0.6139  |
| P40-14M-55-SF    | <b>110812</b> | 40           | 7.018     | 6.909  | 7.518  | D1F  | 0.75             | 0.19 | 0.5        | 2-15/16 | 15                    | 0.7440  |
| P44-14M-55-E     | <b>110813</b> | 44           | 7.720     | 7.610  | 8.395  | D1F  | 0.56             | 0.64 | 0.875      | 3-1/2   | 19                    | 1.136   |
| P48-14M-55-E     | <b>110814</b> | 48           | 8.421     | 8.311  | 8.941  | D1F  | 0.56             | 0.64 | 0.875      | 3-1/2   | 23                    | 1.641   |
| P52-14M-55-E     | <b>110815</b> | 52           | 9.123     | 9.013  | 9.687  | D1F  | 0.56             | 0.64 | 0.875      | 3-1/2   | 30                    | 2.454   |
| P56-14M-55-E     | <b>110816</b> | 56           | 9.825     | 9.715  | 10.355 | D1F  | 0.56             | 0.64 | 0.875      | 3-1/2   | 32                    | 3.030   |
| P60-14M-55-E     | <b>110817</b> | 60           | 10.527    | 10.417 | 11.067 | D1F  | 0.56             | 0.64 | 0.875      | 3-1/2   | 38                    | 4.038   |
| P64-14M-55-F     | <b>110818</b> | 64           | 11.229    | 11.119 | 11.750 | D1F  | 0.13             | 1.29 | 1          | 4       | 54                    | 6.267   |
| P68-14M-55-F     | <b>110819</b> | 68           | 11.930    | 11.820 | 12.500 | D1F  | 0.13             | 1.29 | 1          | 4       | 62                    | 8.029   |
| P72-14M-55-F     | <b>110820</b> | 72           | 12.632    | 12.522 | 13.066 | D1F  | 0.13             | 1.29 | 1          | 4       | 71                    | 10.32   |
| P80-14M-55-F     | <b>110821</b> | 80           | 14.036    | 13.926 | 14.620 | D1F  | 0.13             | 1.29 | 1          | 4       | 89                    | 15.76   |
| P90-14M-55-F     | <b>110822</b> | 90           | 15.790    | 15.680 | ...    | D2   | 0.13             | 1.29 | 1          | 4       | 61                    | 12.67   |
| P112-14M-55-F    | <b>110823</b> | 112          | 19.650    | 19.540 | ...    | D3   | 0.13             | 1.29 | 1          | 4       | 80                    | 25.72   |
| P144-14M-55-F    | <b>110824</b> | 144          | 25.264    | 25.154 | ...    | D3   | 0.13             | 1.29 | 1          | 4       | 90                    | 55.45   |
| P168-14M-55-F    | <b>110825</b> | 168          | 29.475    | 29.265 | ...    | D3   | 0.13             | 1.29 | 1          | 4       | 111                   | 95.26   |
| P192-14M-55-F    | <b>110826</b> | 192          | 33.686    | 33.576 | ...    | D3   | 0.13             | 1.29 | 1          | 4       | 134                   | 149.7   |
| P216-14M-55-F    | <b>110827</b> | 216          | 37.896    | 37.786 | ...    | D3   | 0.13             | 1.29 | 1          | 4       | 159                   | 223.9   |
| <b>14M-85</b>    |               |              |           |        |        |      |                  |      |            |         |                       |   |
| <b>F = 4"</b>    |               |              |           |        |        |      |                  |      |            |         |                       |   |
| P30-14M-85-SK    | <b>110832</b> | 30           | 5.263     | 5.157  | 5.763  | A1F  | 1.38             | 0.49 | 1/2        | 2-11/16 | 10                    | 0.2715  |
| P32-14M-85-SK    | <b>110833</b> | 32           | 5.614     | 5.507  | 6.114  | A1F  | 1.38             | 0.49 | 1/2        | 2-5/8   | 13                    | 0.3993  |
| P34-14M-85-SK    | <b>110834</b> | 34           | 5.965     | 5.858  | 6.465  | A1F  | 1.38             | 0.49 | 1/2        | 2-5/8   | 15                    | 0.5387  |
| P36-14M-85-SF    | <b>110835</b> | 36           | 6.316     | 6.208  | 6.816  | A1F  | 1.5              | 0.56 | 1/2        | 2-15/16 | 15                    | 0.6171  |
| P38-14M-85-SF    | <b>110836</b> | 38           | 6.667     | 6.559  | 7.167  | A1F  | 1.38             | 0.44 | 1/2        | 2-15/16 | 19                    | 0.8559  |
| P40-14M-85-SF    | <b>110837</b> | 40           | 7.018     | 6.909  | 7.518  | A1F  | 1.38             | 0.44 | 1/2        | 2-15/16 | 22                    | 1.097   |
| P44-14M-85-E     | <b>110838</b> | 44           | 7.720     | 7.610  | 8.395  | D1F  | 1.19             | 0.01 | 7/8        | 3-1/2   | 23                    | 1.390   |
| P48-14M-85-E     | <b>110839</b> | 48           | 8.421     | 8.311  | 8.941  | D1F  | 1.19             | 0.01 | 7/8        | 3-1/2   | 29                    | 2.133   |
| P52-14M-85-E     | <b>110840</b> | 52           | 9.123     | 9.013  | 9.687  | D1F  | 1.19             | 0.01 | 7/8        | 3-1/2   | 35                    | 2.972   |
| P56-14M-85-F     | <b>110841</b> | 56           | 9.825     | 9.715  | 10.355 | D1F  | 0.75             | 0.67 | 1          | 4       | 46                    | 4.426   |
| P60-14M-85-F     | <b>110842</b> | 60           | 10.527    | 10.417 | 11.067 | D1F  | 0.75             | 0.67 | 1          | 4       | 57                    | 6.259   |
| P64-14M-85-F     | <b>110843</b> | 64           | 11.229    | 11.119 | 11.750 | D1F  | 0.75             | 0.67 | 1          | 4       | 64                    | 7.866   |
| P68-14M-85-F     | <b>110852</b> | 68           | 11.930    | 11.820 | 12.500 | D1F  | 0.75             | 0.67 | 1          | 4       | 75                    | 10.40   |
| P72-14M-85-F     | <b>110844</b> | 72           | 12.632    | 12.522 | 13.066 | D1F  | 0.75             | 0.67 | 1          | 4       | 89                    | 13.74   |
| P80-14M-85-F     | <b>110845</b> | 80           | 14.036    | 13.926 | 14.620 | D1F  | 0.75             | 0.67 | 1          | 4       | 100                   | 18.65   |
| P90-14M-85-F     | <b>110846</b> | 90           | 15.790    | 15.680 | ...    | D3   | 0.75             | 0.67 | 1          | 4       | 57                    | 12.19   |
| P112-14M-85-F    | <b>110847</b> | 112          | 19.650    | 19.540 | ...    | D3   | 0.75             | 0.67 | 1          | 4       | 94                    | 32.92   |
| P144-14M-85-F    | <b>110848</b> | 144          | 25.264    | 25.154 | ...    | D3   | 0.75             | 0.67 | 1          | 4       | 129                   | 73.66   |
| P168-14M-85-F    | <b>110849</b> | 168          | 29.475    | 29.265 | ...    | D3   | 0.69             | 0.73 | 1          | 4       | 144                   | 126.7   |
| P192-14M-85-F    | <b>110850</b> | 192          | 33.686    | 33.576 | ...    | D3   | 0.69             | 0.73 | 1          | 4       | 178                   | 203.8   |
| P216-14M-85-F    | <b>110851</b> | 216          | 37.896    | 37.786 | ...    | D3   | 0.69             | 0.73 | 1          | 4       | 216                   | 315.6   |

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

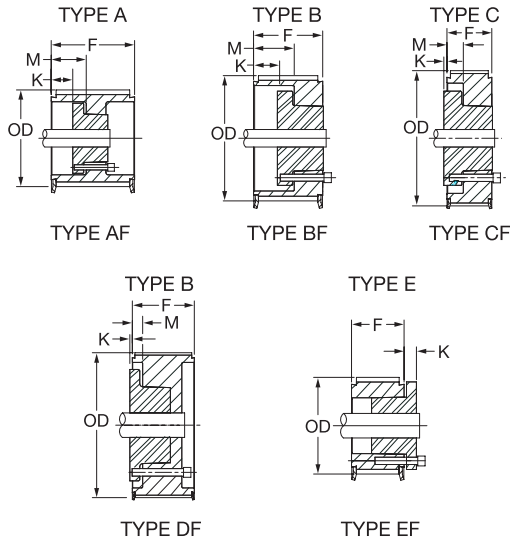
HT500 Synchronous Drives

Roller Chain Sprockets



## SPECIFICATION

### QD HTD Sprockets



The figure following the sketch reference letter in the "Type" column indicates the construction of the sprocket (1 = Solid, 2 = Web, and 3 = Arms), and the letter "F" indicates that the sprocket has flanges.

#### 14MM QD HTD Sprockets

| Sprocket Number          | Part No.      | No. Of Teeth | Diameters |        |        | Type | Dimensions (In.) |      | Bore Sizes |         | Approx. Weight (Lbs.) | Approx. Wr <sup>2</sup> (Lb-Ft <sup>2</sup> ) |  |
|--------------------------|---------------|--------------|-----------|--------|--------|------|------------------|------|------------|---------|-----------------------|---|--|
|                          |               |              | P.D.      | O.D.   | Flange |      | M                | K    | Min.       | Max.    |                       |   |  |
| <b>14M-115 F = 5.25"</b> |               |              |           |        |        |      |                  |      |            |         |                       |   |  |
| P30-14M-115-SK           | <b>110857</b> | 30           | 5.263     | 5.157  | 5.763  | A1F  | 2.00             | 1.11 | 1/2        | 2-5/8   | 12                    | 0.3441  |  |
| P32-14M-115-SK           | <b>110858</b> | 32           | 5.614     | 5.507  | 6.114  | A1F  | 2.00             | 1.11 | 1/2        | 2-5/8   | 16                    | 0.5084  |  |
| P34-14M-115-SK           | <b>110859</b> | 34           | 5.965     | 5.858  | 6.465  | A1F  | 2.00             | 1.11 | 1/2        | 2-5/8   | 20                    | 0.7035  |  |
| P36-14M-115-SF           | <b>110860</b> | 36           | 6.316     | 6.208  | 6.816  | A1F  | 2.00             | 1.06 | 1/2        | 2-15/16 | 19                    | 0.7834  |  |
| P38-14M-115-SF           | <b>110861</b> | 38           | 6.667     | 6.559  | 7.167  | A1F  | 2.00             | 1.06 | 1/2        | 2-15/16 | 22                    | 1.000   |  |
| P40-14M-115-SF           | <b>110862</b> | 40           | 7.018     | 6.909  | 7.518  | A1F  | 2.00             | 1.06 | 1/2        | 2-15/16 | 26                    | 1.306   |  |
| P44-14M-115-E            | <b>110863</b> | 44           | 7.720     | 7.610  | 8.395  | A1F  | 2.00             | 0.80 | 7/8        | 3-1/2   | 27                    | 1.717   |  |
| P48-14M-115-E            | <b>110864</b> | 48           | 8.421     | 8.311  | 8.941  | A1F  | 1.94             | 0.74 | 7/8        | 3-1/2   | 36                    | 2.657   |  |
| P52-14M-115-F            | <b>110865</b> | 52           | 9.123     | 9.013  | 9.687  | D1F  | 1.38             | 0.05 | 1          | 4       | 48                    | 4.133   |  |
| P56-14M-115-F            | <b>110866</b> | 56           | 9.825     | 9.715  | 10.355 | D1F  | 1.38             | 0.05 | 1          | 4       | 54                    | 5.326   |  |
| P60-14M-115-F            | <b>110867</b> | 60           | 10.527    | 10.417 | 11.067 | D1F  | 1.38             | 0.05 | 1          | 4       | 63                    | 7.105   |  |
| P64-14M-115-J            | <b>110868</b> | 64           | 11.229    | 11.119 | 11.750 | D1F  | 1.00             | 0.20 | 1-1/2      | 4-1/2   | 81                    | 10.377  |  |
| P68-14M-115-J            | <b>110869</b> | 68           | 11.930    | 11.820 | 12.500 | D1F  | 1.00             | 0.20 | 1-1/2      | 4-1/2   | 90                    | 12.89   |  |
| P72-14M-115-J            | <b>110870</b> | 72           | 12.632    | 12.522 | 13.066 | D1F  | 1.00             | 0.20 | 1-1/2      | 4-1/2   | 101                   | 16.06   |  |
| P80-14M-115-J            | <b>110871</b> | 80           | 14.036    | 13.926 | 14.620 | D2F  | 1.00             | 0.20 | 1-1/2      | 4-1/2   | 108                   | 21.04   |  |
| P90-14M-115-J            | <b>110872</b> | 90           | 15.790    | 15.680 | ...    | D2   | 1.00             | 0.20 | 1-1/2      | 4-1/2   | 121                   | 29.10   |  |
| P112-14M-115-J           | <b>110873</b> | 112          | 19.650    | 19.540 | ...    | D3   | 1.00             | 0.20 | 1-1/2      | 4-1/2   | 117                   | 46.65   |  |
| P144-14M-115-J           | <b>110874</b> | 144          | 25.264    | 25.154 | ...    | D3   | 1.06             | 0.14 | 1-1/2      | 4-1/2   | 157                   | 113.9   |  |
| P168-14M-115-J           | <b>110875</b> | 168          | 29.475    | 29.265 | ...    | D3   | 1.06             | 0.14 | 1-1/2      | 4-1/2   | 198                   | 209.1   |  |
| P192-14M-115-J           | <b>110876</b> | 192          | 33.686    | 33.576 | ...    | D3   | 1.06             | 0.14 | 1-1/2      | 4-1/2   | 240                   | 265.8   |  |
| P216-14M-115-J           | <b>110877</b> | 216          | 37.896    | 37.786 | ...    | D3   | 1.06             | 0.14 | 1-1/2      | 4-1/2   | 284                   | 401.7   |  |
| <b>14M-170 F = 7.38"</b> |               |              |           |        |        |      |                  |      |            |         |                       |   |  |
| P44-14M-170-E            | <b>110883</b> | 44           | 7.720     | 7.610  | 8.395  | A1F  | 2.88             | 1.68 | 7/8        | 3-1/2   | 35                    | 2.273   |  |
| P48-14M-170-E            | <b>110884</b> | 48           | 8.421     | 8.311  | 8.941  | A1F  | 2.88             | 1.68 | 7/8        | 3-1/2   | 46                    | 3.550   |  |
| P52-14M-170-F            | <b>110885</b> | 52           | 9.123     | 9.013  | 9.687  | A1F  | 2.44             | 1.02 | 1          | 4       | 61                    | 5.430   |  |
| P56-14M-170-F            | <b>110886</b> | 56           | 9.825     | 9.715  | 10.355 | A1F  | 2.44             | 1.02 | 1          | 4       | 67                    | 6.860   |  |
| P60-14M-170-J            | <b>110887</b> | 60           | 10.527    | 10.417 | 11.067 | A1F  | 2.28             | 1.08 | 1-1/2      | 4-1/2   | 81                    | 9.546   |  |
| P64-14M-170-J            | <b>110888</b> | 64           | 11.229    | 11.119 | 11.750 | A1F  | 2.13             | 0.93 | 1-1/2      | 4-1/2   | 100                   | 13.31   |  |
| P68-14M-170-J            | <b>110897</b> | 68           | 11.930    | 11.820 | 12.500 | A1F  | 2.13             | 0.93 | 1-1/2      | 4-1/2   | 108                   | 16.08   |  |
| P72-14M-170-J            | <b>110889</b> | 72           | 12.632    | 12.522 | 13.066 | A1F  | 2.13             | 0.93 | 1-1/2      | 4-1/2   | 119                   | 19.72   |  |
| P80-14M-170-J            | <b>110890</b> | 80           | 14.036    | 13.926 | 14.620 | A2F  | 2.13             | 0.93 | 1-1/2      | 4-1/2   | 129                   | 26.66   |  |
| P90-14M-170-J            | <b>110891</b> | 90           | 15.790    | 15.680 | ...    | A2   | 2.13             | 0.93 | 1-1/2      | 4-1/2   | 163                   | 41.42   |  |
| P112-14M-170-M           | <b>110892</b> | 112          | 19.650    | 19.540 | ...    | D3   | 1.44             | 0.30 | 2          | 5-1/2   | 188                   | 63.86   |  |
| P144-14M-170-M           | <b>110893</b> | 144          | 25.264    | 25.154 | ...    | D3   | 1.44             | 0.30 | 2          | 5-1/2   | 240                   | 146.9   |  |
| P168-14M-170-M           | <b>110894</b> | 168          | 29.475    | 29.265 | ...    | D3   | 1.44             | 0.30 | 2          | 5-1/2   | 279                   | 247.5   |  |
| P192-14M-170-M           | <b>110895</b> | 192          | 33.686    | 33.576 | ...    | D3   | 1.44             | 0.30 | 2          | 5-1/2   | 541                   | 746.7   |  |
| P216-14M-170-M           | <b>110896</b> | 216          | 37.896    | 37.786 | ...    | D3   | 1.44             | 0.30 | 2          | 5-1/2   | 443                   | 774.6   |  |



# SPECIFICATION



## QD HTD Sprockets 20MM QD HTD Sprockets

| SPROCKET NUMBER | PART NO.      | NO. OF TEETH | DIAMETERS |        |                  | TYPE | DIMENSIONS (IN.) |      | Bore Sizes |       | Approx. Weight (LBS.) |
|-----------------|---------------|--------------|-----------|--------|------------------|------|------------------|------|------------|-------|-----------------------|
|                 |               |              | P.D.      | O.D.   | FLANGE           |      | M                | K    | Min.       | Max   |                       |
| <b>20M-115</b>  |               |              |           |        | <b>F = 5.38"</b> |      |                  |      |            |       |                       |
| P34-20M-115-F   | <b>114668</b> | 34           | 8.522     | 8.352  | 9.449            | A1F  | 1.44             | 0.02 | 1          | 4     | 42                    |
| P36-20M-115-F   | <b>114669</b> | 36           | 9.023     | 8.853  | 9.843            | A1F  | 1.44             | 0.02 | 1          | 4     | 50                    |
| P38-20M-115-F   | <b>114670</b> | 38           | 9.524     | 9.354  | 10.443           | A1F  | 1.44             | 0.02 | 1          | 4     | 55                    |
| P40-20M-115-F   | <b>114671</b> | 40           | 10.026    | 9.855  | 10.827           | A1F  | 1.44             | 0.02 | 1          | 4     | 61                    |
| P44-20M-115-F   | <b>114672</b> |              | 11.028    | 10.858 | 11.811           | A1F  | 1.44             | 0.02 | 1          | 4     | 74                    |
| P48-20M-115-J   | <b>114673</b> | 48           | 12.031    | 11.861 | 12.795           | D1F  | 1.19             | 0.01 | 1-1/2      | 4-1/2 | 100                   |
| P52-20M-115-J   | <b>114674</b> | 52           | 13.033    | 12.863 | 13.764           | D2F  | 1.19             | 0.01 | 1-1/2      | 4-1/2 | 96                    |
| P56-20M-115-J   | <b>114675</b> | 56           | 14.036    | 13.856 | 14.764           | D2F  | 1.19             | 0.01 | 1-1/2      | 4-1/2 | 103                   |
| P60-20M-115-J   | <b>114676</b> | 60           | 15.038    | 14.868 | 15.927           | D2F  | 1.19             | 0.01 | 1-1/2      | 4-1/2 | 110                   |
| P64-20M-115-J   | <b>114677</b> | 64           | 16.041    | 15.871 | 16.929           | D2F  | 1.19             | 0.01 | 1-1/2      | 4-1/2 | 119                   |
| P68-20M-115-J   | <b>114678</b> | 68           | 17.032    | 16.873 | 17.927           | D2F  | 1.19             | 0.01 | 1-1/2      | 4-1/2 | 125                   |
| P72-20M-115-J   | <b>114679</b> | 72           | 18.046    | 17.876 | 18.898           | D2F  | 1.19             | 0.01 | 1-1/2      | 4-1/2 | 135                   |
| P80-20M-115-M   | <b>114680</b> | 80           | 20.051    | 19.881 | 20.866           | D2F  | 0.19             | 1.55 | 2          | 5-1/2 | 216                   |
| P90-20M-115-M   | <b>114681</b> | 90           | 22.557    | 22.387 | 23.425           | D2F  | 0.19             | 1.55 | 2          | 5-1/2 | 247                   |
| P112-20M-115-M  | <b>114682</b> | 112          | 28.071    | 27.901 | ...              | D3   | 0.19             | 1.55 | 2          | 5-1/2 | 273                   |
| P144-20M-115-N  | <b>114683</b> | 144          | 36.092    | 35.922 | ...              | C3   | 0.00             | 2.05 | 2-7/16     | 5-7/8 | 392                   |
| P168-20M-115-N  | <b>114684</b> | 168          | 42.107    | 41.937 | ...              | C3   | 0.00             | 2.05 | 2-7/16     | 5-7/8 | 469                   |
| P192-20M-115-N  | <b>114685</b> | 192          | 48.122    | 47.952 | ...              | C3   | 0.00             | 2.05 | 2-7/16     | 5-7/8 | 552                   |
| P216-20M-115-N  | <b>114686</b> | 216          | 54.136    | 53.958 | ...              | C3   | 0.00             | 2.05 | 2-7/16     | 5-7/8 | 618                   |
| <b>20M-170</b>  |               |              |           |        | <b>F = 7.5"</b>  |      |                  |      |            |       |                       |
| P34-20M-170-MPB | <b>114687</b> | 34           | 8.522     | 8.352  | 9.449            | 6F   | 2.25             | 1.25 | 2-1/8      | 4-3/8 | 81                    |
| P36-20M-170-MPB | <b>114688</b> | 36           | 9.023     | 8.853  | 9.843            | 6F   | 2.25             | 1.25 | 2-1/8      | 4-1/2 | 93                    |
| P38-20M-170-J   | <b>114689</b> | 38           | 9.524     | 9.354  | 10.443           | A1F  | 2.19             | 0.99 | 1-1/2      | 4-1/2 | 72                    |
| P40-20M-170-J   | <b>114690</b> | 40           | 10.026    | 9.855  | 10.827           | A1F  | 2.19             | 0.99 | 1-1/2      | 4-1/2 | 80                    |
| P44-20M-170-J   | <b>114691</b> | 44           | 11.028    | 10.858 | 11.811           | A1F  | 2.19             | 0.99 | 1-1/2      | 4-1/2 | 97                    |
| P48-20M-170-M   | <b>114692</b> | 48           | 12.031    | 11.861 | 12.795           | D1F  | 1.50             | 0.24 | 2          | 5-1/2 | 148                   |
| P52-20M-170-M   | <b>114693</b> | 52           | 13.033    | 12.863 | 13.764           | D1F  | 1.50             | 0.24 | 2          | 5-1/2 | 175                   |
| P56-20M-170-M   | <b>114694</b> | 56           | 14.036    | 13.856 | 14.764           | D1F  | 1.50             | 0.24 | 2          | 5-1/2 | 204                   |
| P60-20M-170-M   | <b>114695</b> | 60           | 15.038    | 14.868 | 15.927           | D1F  | 1.50             | 0.24 | 2          | 5-1/2 | 233                   |
| P64-20M-170-M   | <b>114696</b> | 64           | 16.041    | 15.871 | 16.929           | D2F  | 1.50             | 0.24 | 2          | 5-1/2 | 210                   |
| P68-20M-170-M   | <b>114697</b> | 68           | 17.032    | 16.873 | 17.927           | D2F  | 1.50             | 0.24 | 2          | 5-1/2 | 222                   |
| P72-20M-170-M   | <b>114698</b> | 72           | 18.046    | 17.876 | 18.898           | D2F  | 1.50             | 0.24 | 2          | 5-1/2 | 230                   |
| P80-20M-170-M   | <b>114699</b> | 80           | 20.051    | 19.881 | 20.866           | D2F  | 1.50             | 0.24 | 2          | 5-1/2 | 249                   |
| P90-20M-170-M   | <b>114700</b> | 90           | 22.557    | 22.387 | 23.425           | D2F  | 1.50             | 0.24 | 2          | 5-1/2 | 285                   |
| P112-20M-170-N  | <b>114701</b> | 112          | 28.071    | 27.901 | ...              | D3   | 1.25             | 0.80 | 2-7/16     | 5-7/8 | 361                   |
| P144-20M-170-N  | <b>114702</b> | 144          | 36.092    | 35.922 | ...              | D3   | 1.25             | 0.80 | 2-7/16     | 5-7/8 | 478                   |
| P168-20M-170-P  | <b>114703</b> | 168          | 42.107    | 41.937 | ...              | C3   | 1.06             | 1.24 | 2-7/16     | 7     | 658                   |
| P192-20M-170-P  | <b>114704</b> | 192          | 48.122    | 47.952 | ...              | C3   | 1.06             | 1.24 | 2-7/16     | 7     | 739                   |
| P216-20M-170-P  | <b>114705</b> | 216          | 54.136    | 53.958 | ...              | C3   | 1.06             | 1.24 | 2-7/16     | 7     | 901                   |
| <b>20M-230</b>  |               |              |           |        | <b>F = 9.88"</b> |      |                  |      |            |       |                       |
| P38-20M-230-MPB | <b>114706</b> | 38           | 9.524     | 9.354  | 10.443           | 6F   | 2.63             | 1.25 | 2-7/8      | 5-1/4 | 120                   |
| P40-20M-230-MPB | <b>114707</b> | 40           | 10.026    | 9.855  | 10.827           | 6F   | 2.63             | 1.25 | 2-7/8      | 5-7/8 | 147                   |
| P44-20M-230-MPB | <b>114708</b> | 44           | 11.028    | 10.858 | 11.811           | 6F   | 2.63             | 1.25 | 2-7/8      | 6     | 180                   |
| P48-20M-230-M   | <b>114709</b> | 48           | 12.031    | 11.861 | 12.795           | A1F  | 2.00             | 0.26 | 2          | 5-1/2 | 164                   |
| P52-20M-230-M   | <b>114710</b> | 52           | 13.033    | 12.863 | 13.764           | A1F  | 2.00             | 0.26 | 2          | 5-1/2 | 193                   |
| P56-20M-230-M   | <b>114711</b> |              | 14.036    | 13.856 | 14.764           | A1F  | 2.00             | 0.26 | 2          | 5-1/2 | 224                   |
| P60-20M-230-M   | <b>114712</b> | 60           | 15.038    | 14.868 | 15.927           | A1F  | 2.00             | 0.26 | 2          | 5-1/2 | 252                   |
| P64-20M-230-M   | <b>114713</b> | 64           | 16.041    | 15.871 | 16.929           | A2F  | 2.00             | 0.26 | 2          | 5-1/2 | 233                   |
| P68-20M-230-N   | <b>114714</b> | 68           | 17.032    | 16.873 | 17.927           | D1F  | 1.81             | 0.24 | 2-7/16     | 5-7/8 | 375                   |
| P72-20M-230-N   | <b>114715</b> | 72           | 18.046    | 17.876 | 18.898           | D2F  | 1.81             | 0.24 | 2-7/16     | 5-7/8 | 339                   |
| P80-20M-230-N   | <b>114716</b> | 80           | 20.051    | 19.881 | 20.866           | D2F  | 1.81             | 0.24 | 2-7/16     | 5-7/8 | 331                   |
| P90-20M-230-N   | <b>114717</b> | 90           | 22.557    | 22.387 | 23.425           | D2F  | 1.81             | 0.24 | 2-7/16     | 5-7/8 | 370                   |
| P112-20M-230-N  | <b>114718</b> | 112          | 28.071    | 27.901 | ...              | D3   | 1.81             | 0.24 | 2-7/16     | 5-7/8 | 409                   |
| P144-20M-230-P  | <b>114719</b> | 144          | 36.092    | 35.922 | ...              | D3   | 1.31             | 0.99 | 2-15/16    | 7     | 622                   |
| P168-20M-230-P  | <b>114720</b> | 168          | 42.107    | 41.937 | ...              | D3   | 1.31             | 0.99 | 2-15/16    | 7     | 742                   |
| P192-20M-230-W  | <b>114721</b> | 192          | 48.122    | 47.952 | ...              | C3   | 1.50             | 1.06 | 4          | 8-1/2 | 1111                  |
| P216-20M-230-W  | <b>114722</b> | 216          | 54.136    | 53.958 | ...              | C3   | 1.50             | 1.06 | 4          | 8-1/2 | 1238                  |

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets

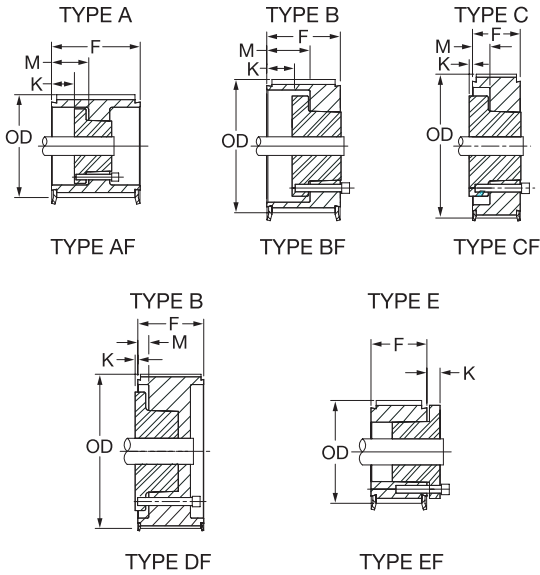
|                                  |                           |                                       |  |
|----------------------------------|---------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SELECTION<br>PAGE PT11-19 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|---------------------------|---------------------------------------|--|





## SPECIFICATION

### QD HTD Sprockets



The figure following the sketch reference letter in the "Type" column indicates the construction of the sprocket (1 = Solid, 2 = Web, and 3 = Arms), and the letter "F" indicates that the sprocket has flanges.

#### 20MM QD HTD Sprockets

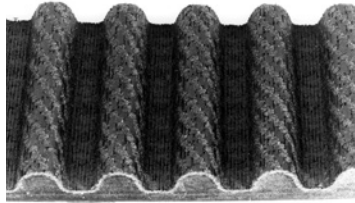
| Sprocket Number   | Part No.      | No. Of Teeth | Diameters (Inches) |        |        | Type | Dimensions Inches |      | Bore Sizes |       | Wt. (Lbs) |
|---|---------------|--------------|--------------------|--------|--------|------|-------------------|------|------------|-------|-----------|
|   |               |              | Pitch              | O.D.   | Flange |      | M                 | K    | Min.       | Max.  |           |
| <b>20M-290</b> <span style="float:right"><b>F = 12.25"</b></span> |               |              |                    |        |        |      |                   |      |            |       |           |
| P52-20M-290-N   | <b>114723</b> | 52           | 13.033             | 12.863 | 13.764 | A1F  | 2.50              | 0.50 | 2-7/16     | 5-7/8 | 202.7     |
| P56-20M-290-N   | <b>114724</b> | 56           | 14.036             | 13.856 | 14.764 | A1F  | 2.50              | 0.50 | 2-7/16     | 5-7/8 | 238.8     |
| P60-20M-290-N   | <b>114725</b> | 60           | 15.038             | 14.868 | 15.927 | A1F  | 2.50              | 0.50 | 2-7/16     | 5-7/8 | 276.5     |
| P64-20M-290-N   | <b>114726</b> | 64           | 16.041             | 15.871 | 16.929 | A1F  | 2.50              | 0.50 | 2-7/16     | 5-7/8 | 319.8     |
| P68-20M-290-N   | <b>114727</b> | 68           | 17.032             | 16.873 | 17.927 | A1F  | 2.50              | 0.50 | 2-7/16     | 5-7/8 | 367.9     |
| P72-20M-290-N   | <b>114728</b> | 72           | 18.046             | 17.876 | 18.898 | A2F  | 2.50              | 0.50 | 2-7/16     | 5-7/8 | 364.0     |
| P80-20M-290-N   | <b>114729</b> | 80           | 20.051             | 19.881 | 20.866 | A2F  | 2.50              | 0.50 | 2-7/16     | 5-7/8 | 369.6     |
| P90-20M-290-N   | <b>114730</b> | 90           | 22.557             | 22.387 | 23.425 | A2F  | 2.50              | 0.50 | 2-7/16     | 5-7/8 | 424.3     |
| P112-20M-290-P  | <b>114731</b> | 112          | 28.071             | 27.901 | ...    | A2   | 2.50              | 0.25 | 2-15/16    | 7     | 614.6     |
| P144-20M-290-P  | <b>114732</b> | 144          | 36.092             | 35.922 | ...    | A3   | 2.50              | 0.25 | 2-15/16    | 7     | 679.8     |
| P168-20M-290-W  | <b>114733</b> | 168          | 42.107             | 41.937 | ...    | A3   | 2.69              | 0.19 | 4          | 8-1/2 | 1117.1    |
| P192-20M-290-W  | <b>114734</b> | 192          | 48.122             | 47.952 | ...    | A3   | 2.69              | 0.19 | 4          | 8-1/2 | 1281.0    |
| P216-20M-290-W  | <b>114735</b> | 216          | 54.136             | 53.958 | ...    | A3   | 2.69              | 0.19 | 4          | 8-1/2 | 1175.6    |
| <b>20M-340</b> <span style="float:right"><b>F = 14.25"</b></span> |               |              |                    |        |        |      |                   |      |            |       |           |
| P52-20M-340-N   | <b>114736</b> | 52           | 13.033             | 12.863 | 13.764 | A1F  | 2.50              | 0.50 | 2-7/16     | 5-7/8 | 221.0     |
| P56-20M-340-N   | <b>114737</b> | 56           | 14.036             | 13.856 | 14.764 | A1F  | 2.50              | 0.50 | 2-7/16     | 5-7/8 | 258.0     |
| P60-20M-340-N   | <b>114738</b> | 60           | 15.038             | 14.868 | 15.927 | A1F  | 2.50              | 0.50 | 2-7/16     | 5-7/8 | 293.4     |
| P64-20M-340-N   | <b>114739</b> | 64           | 16.041             | 15.871 | 16.929 | A1F  | 2.50              | 0.50 | 2-7/16     | 5-7/8 | 337.9     |
| P68-20M-340-N   | <b>114740</b> | 68           | 17.032             | 16.873 | 17.927 | A1F  | 2.50              | 0.50 | 2-7/16     | 5-7/8 | 388.1     |
| P72-20M-340-N   | <b>114741</b> | 72           | 18.046             | 17.876 | 18.898 | A2F  | 2.50              | 0.50 | 2-7/16     | 5-7/8 | 393.1     |
| P80-20M-340-P   | <b>114742</b> | 80           | 20.051             | 19.881 | 20.866 | A1F  | 3.50              | 1.25 | 2-15/16    | 7     | 560.0     |
| P90-20M-340-P   | <b>114743</b> | 90           | 22.557             | 22.387 | 23.425 | A2F  | 3.50              | 1.25 | 2-15/16    | 7     | 497.3     |
| P112-20M-340-P  | <b>114744</b> | 112          | 28.071             | 27.901 | ...    | A2   | 3.50              | 1.25 | 2-15/16    | 7     | 653.3     |
| P144-20M-340-W  | <b>114745</b> | 144          | 36.092             | 35.922 | ...    | A3   | 2.63              | 0.13 | 4          | 8-1/2 | 851.0     |
| P168-20M-340-W  | <b>114746</b> | 168          | 42.107             | 41.937 | ...    | A3   | 2.63              | 0.13 | 4          | 8-1/2 | 1177.0    |
| P192-20M-340-S  | <b>114747</b> | 192          | 48.122             | 47.952 | ...    | D3   | 1.13              | 2.38 | 5-1/2      | 10    | 1519.4    |
| P216-20M-340-S  | <b>114748</b> | 216          | 54.136             | 53.958 | ...    | D3   | 1.13              | 2.38 | 5-1/2      | 10    | 1473.5    |

|                                  |                           |                                       |  |
|----------------------------------|---------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SELECTION<br>PAGE PT11-19 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|---------------------------|---------------------------------------|--|

# SPECIFICATION



## DODGE H200 Belts



- 200% Rating of HTD Belts
- For Use on TAPER-LOCK HT Sprockets

**Note:** Belt length is in millimeters  
To convert to inches, divide by 25.4

**Example:** 2600-8M-30 belt size  
 $2600 \div 25.4 = 102.36$  inches belt length

### 5 MM Pitch HT200 Belts

| 15MM Wide   |          |      | 15MM Wide   |          |      | 25MM Wide   |          |      | 25MM Wide   |          |      |
|-------------|----------|------|-------------|----------|------|-------------|----------|------|-------------|----------|------|
| Description | Part No. | Wgt. | Description | Part No. | Wgt. | Description | Part No. | Wgt. | Description | Part No. | Wgt. |
| 300-5M-15   | 142100   | 0.04 | 650-5M-15   | 142110   | 0.09 | 300-5M-25   | 142122   | 0.07 | 650-5M-25   | 142132   | 0.15 |
| 355-5M-15   | 142101   | 0.05 | 700-5M-15   | 142111   | 0.09 | 355-5M-25   | 142123   | 0.08 | 700-5M-25   | 142133   | 0.15 |
| 375-5M-15   | 142102   | 0.05 | 750-5M-15   | 142112   | 0.10 | 375-5M-25   | 142124   | 0.09 | 750-5M-25   | 142134   | 0.17 |
| 400-5M-15   | 142103   | 0.05 | 800-5M-15   | 142113   | 0.11 | 400-5M-25   | 142125   | 0.09 | 800-5M-25   | 142135   | 0.18 |
| 405-5M-15   | 142145   | 0.05 | 850-5M-15   | 142148   | 0.11 | 405-5M-25   | 142149   | 0.09 | 850-5M-25   | 142152   | 0.19 |
| 425-5M-15   | 142104   | 0.06 | 900-5M-15   | 142114   | 0.12 | 425-5M-25   | 142126   | 0.10 | 900-5M-25   | 142136   | 0.20 |
| 450-5M-15   | 142105   | 0.06 | 1000-5M-15  | 142115   | 0.14 | 450-5M-25   | 142127   | 0.10 | 1000-5M-25  | 142137   | 0.23 |
| 500-5M-15   | 142106   | 0.07 | 1150-5M-15  | 142116   | 0.16 | 500-5M-25   | 142128   | 0.11 | 1150-5M-25  | 142138   | 0.26 |
| 535-5M-15   | 142107   | 0.07 | 1300-5M-15  | 142117   | 0.18 | 535-5M-25   | 142129   | 0.12 | 1300-5M-25  | 142139   | 0.29 |
| 565-5M-15   | 142108   | 0.08 | 1450-5M-15  | 142118   | 0.20 | 565-5M-25   | 142130   | 0.13 | 1450-5M-25  | 142140   | 0.34 |
| 580-5M-15   | 142146   | 0.08 | 1600-5M-15  | 142119   | 0.22 | 580-5M-25   | 142150   | 0.13 | 1600-5M-25  | 142141   | 0.36 |
| 600-5M-15   | 142109   | 0.08 | 1720-5M-15  | 142120   | 0.23 | 600-5M-25   | 142131   | 0.14 | 1720-5M-25  | 142142   | 0.39 |
| 625-5M-15   | 142147   | 0.09 | 2100-5M-15  | 142121   | 0.29 | 625-5M-25   | 142151   | 0.14 | 2100-5M-25  | 142143   | 0.47 |

### 8 MM Pitch HT200 Belts

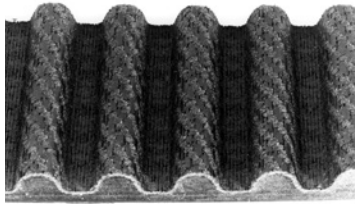
| 20MM Wide   |          |      | 30MM Wide   |          |      | 50MM Wide   |          |      | 85MM Wide   |          |      |
|-------------|----------|------|-------------|----------|------|-------------|----------|------|-------------|----------|------|
| Description | Part No. | Wt.  | Description | Part No. | Wt.  | Description | Part No. | Wt.  | Description | Part No. | Wt.  |
| 384-8M-20   | 146400   | 0.12 | 384-8M-30   | 146433   | 0.19 | 384-8M-50   | 146466   | 0.33 | 384-8M-85   | 146499   | 0.55 |
| 480-8M-20   | 146401   | 0.13 | 480-8M-30   | 146434   | 0.20 | 480-8M-50   | 146467   | 0.34 | 480-8M-85   | 146500   | 0.57 |
| 560-8M-20   | 146402   | 0.16 | 560-8M-30   | 146435   | 0.23 | 560-8M-50   | 146468   | 0.39 | 560-8M-85   | 146501   | 0.66 |
| 600-8M-20   | 146403   | 0.17 | 600-8M-30   | 146436   | 0.25 | 600-8M-50   | 146469   | 0.42 | 600-8M-85   | 146502   | 0.71 |
| 640-8M-20   | 146404   | 0.18 | 640-8M-30   | 146437   | 0.27 | 640-8M-50   | 146470   | 0.45 | 640-8M-85   | 146503   | 0.76 |
| 720-8M-20   | 146405   | 0.20 | 720-8M-30   | 146438   | 0.30 | 720-8M-50   | 146471   | 0.50 | 720-8M-85   | 146504   | 0.85 |
| 800-8M-20   | 146406   | 0.22 | 800-8M-30   | 146439   | 0.33 | 800-8M-50   | 146472   | 0.56 | 800-8M-85   | 146505   | 0.95 |
| 840-8M-20   | 146407   | 0.23 | 840-8M-30   | 146440   | 0.35 | 840-8M-50   | 146473   | 0.59 | 840-8M-85   | 146505   | 1.00 |
| 880-8M-20   | 146408   | 0.25 | 880-8M-30   | 146441   | 0.37 | 880-8M-50   | 146474   | 0.61 | 880-8M-85   | 146507   | 1.04 |
| 920-8M-20   | 146409   | 0.26 | 920-8M-30   | 146442   | 0.39 | 920-8M-50   | 146475   | 0.64 | 920-8M-85   | 146508   | 1.09 |
| 960-8M-20   | 146410   | 0.27 | 960-8M-30   | 146443   | 0.40 | 960-8M-50   | 146476   | 0.67 | 960-8M-85   | 146509   | 1.14 |
| 1040-8M-20  | 146411   | 0.29 | 1040-8M-30  | 146444   | 0.43 | 1040-8M-50  | 146477   | 0.74 | 1040-8M-85  | 146510   | 1.23 |
| 1064-8M-20  | 146412   | 0.30 | 1064-8M-30  | 146445   | 0.45 | 1064-8M-50  | 146478   | 0.76 | 1064-8M-85  | 146511   | 1.27 |
| 1120-8M-20  | 146413   | 0.31 | 1120-8M-30  | 146446   | 0.47 | 1120-8M-50  | 146479   | 0.78 | 1120-8M-85  | 146512   | 1.33 |
| 1160-8M-20  | 146414   | 0.32 | 1160-8M-30  | 146447   | 0.48 | 1160-8M-50  | 146480   | 0.8  | 1160-8M-85  | 146513   | 1.28 |
| 1200-8M-20  | 146415   | 0.34 | 1200-8M-30  | 146448   | 0.50 | 1200-8M-50  | 146481   | 0.84 | 1200-8M-85  | 146514   | 1.42 |
| 1224-8M-20  | 146416   | 0.35 | 1224-8M-30  | 146449   | 0.51 | 1224-8M-50  | 146482   | 0.87 | 1224-8M-85  | 146515   | 1.47 |
| 1280-8M-20  | 146417   | 0.36 | 1280-8M-30  | 146450   | 0.53 | 1280-8M-50  | 146483   | 0.89 | 1280-8M-85  | 146516   | 1.52 |
| 1440-8M-20  | 146418   | 0.40 | 1440-8M-30  | 146451   | 0.60 | 1440-8M-50  | 146484   | 1.01 | 1440-8M-85  | 146517   | 1.71 |
| 1512-8M-20  | 146419   | 0.42 | 1512-8M-30  | 146452   | 0.62 | 1512-8M-50  | 146485   | 1.05 | 1512-8M-85  | 146518   | 1.79 |
| 1584-8M-20  | 146420   | 0.43 | 1584-8M-30  | 146453   | 0.65 | 1584-8M-50  | 146486   | 1.09 | 1584-8M-85  | 146519   | 1.82 |
| 1600-8M-20  | 146421   | 0.45 | 1600-8M-30  | 146454   | 0.67 | 1600-8M-50  | 146487   | 1.11 | 1600-8M-85  | 146520   | 1.90 |
| 1760-8M-20  | 146422   | 0.49 | 1760-8M-30  | 146455   | 0.73 | 1760-8M-50  | 146488   | 1.23 | 1760-8M-85  | 146521   | 2.08 |
| 1800-8M-20  | 146423   | 0.50 | 1800-8M-30  | 146456   | 0.75 | 1800-8M-50  | 146489   | 1.25 | 1800-8M-85  | 146522   | 2.13 |
| 2000-8M-20  | 146424   | 0.56 | 2000-8M-30  | 146457   | 0.83 | 2000-8M-50  | 146490   | 1.39 | 2000-8M-85  | 146523   | 2.37 |
| 2200-8M-20  | 146425   | 0.60 | 2200-8M-30  | 146458   | 0.90 | 2200-8M-50  | 146491   | 1.50 | 2200-8M-85  | 146524   | 2.55 |
| 2400-8M-20  | 146426   | 0.67 | 2400-8M-30  | 146459   | 1.00 | 2400-8M-50  | 146492   | 1.67 | 2400-8M-85  | 146525   | 2.84 |
| 2600-8M-20  | 146427   | 0.79 | 2600-8M-30  | 146460   | 1.09 | 2600-8M-50  | 146493   | 1.81 | 2600-8M-85  | 146526   | 3.09 |
| 2800-8M-20  | 146428   | 0.80 | 2800-8M-30  | 146461   | 1.17 | 2800-8M-50  | 146494   | 1.95 | 2800-8M-85  | 146527   | 3.32 |
| 3048-8M-20  | 146429   | 0.85 | 3048-8M-30  | 146462   | 1.27 | 3048-8M-50  | 146495   | 2.00 | 3048-8M-85  | 146528   | 3.62 |
| 3280-8M-20  | 146430   | 0.92 | 3280-8M-30  | 146463   | 1.37 | 3280-8M-50  | 146496   | 2.29 | 3280-8M-85  | 146529   | 3.89 |
| 3600-8M-20  | 146431   | 1.01 | 3600-8M-30  | 146464   | 1.51 | 3600-8M-50  | 146497   | 2.51 | 3600-8M-85  | 146530   | 4.27 |
| 4400-8M-20  | 146432   | 1.23 | 4400-8M-30  | 146465   | 1.84 | 4400-8M-50  | 146498   | 3.07 | 4400-8M-85  | 146531   | 5.22 |

|                                  |                           |                                       |  |
|----------------------------------|---------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SELECTION<br>PAGE PT11-19 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|---------------------------|---------------------------------------|--|



## SPECIFICATION

### DODGE H200 Belts



- 200% Rating of HTD Belts
- For Use on TAPER-LOCK HT Sprockets

**Note:** Belt length is in millimeters  
To convert to inches, divide by 25.4

**Example:** 2600-8M-30 belt size  
 $2600 \div 25.4 = 102.36$  inches belt length

#### 14 MM Pitch HT200 Belts

| 40MM Wide   |          |      | 55MM Wide   |          |      | 85MM Wide   |          |       | 115MM Wide   |          |       | 170MM Wide   |          |       |
|-------------|----------|------|-------------|----------|------|-------------|----------|-------|--------------|----------|-------|--------------|----------|-------|
| Description | Part No. | Wt.  | Description | Part No. | Wt.  | Description | Part No. | Wt.   | Description  | Part No. | Wt.   | Description  | Part No. | Wt.   |
| 966-14M-40  | 146532   | 0.84 | 966-14M-55  | 146554   | 1.15 | 966-14M-85  | 146576   | 1.78  | 966-14M-115  | 146598   | 2.41  | 966-14M-170  | 146620   | 3.56  |
| 1190-14M-40 | 146533   | 1.03 | 1190-14M-55 | 146555   | 1.42 | 1190-14M-85 | 146577   | 2.20  | 1190-14M-115 | 146599   | 2.98  | 1190-14M-170 | 146621   | 4.39  |
| 1400-14M-40 | 146534   | 1.21 | 1400-14M-55 | 146556   | 1.67 | 1400-14M-85 | 146578   | 2.58  | 1400-14M-115 | 146600   | 3.50  | 1400-14M-170 | 146622   | 5.16  |
| 1610-14M-40 | 146535   | 1.40 | 1610-14M-55 | 146557   | 1.92 | 1610-14M-85 | 146579   | 2.97  | 1610-14M-115 | 146601   | 4.02  | 1610-14M-170 | 146623   | 5.95  |
| 1778-14M-40 | 146536   | 1.54 | 1778-14M-55 | 146558   | 2.13 | 1778-14M-85 | 146580   | 3.28  | 1778-14M-115 | 146602   | 4.45  | 1778-14M-170 | 146624   | 6.56  |
| 1890-14M-40 | 146537   | 1.64 | 1890-14M-55 | 146559   | 2.26 | 1890-14M-85 | 146581   | 3.49  | 1890-14M-115 | 146603   | 4.73  | 1890-14M-170 | 146625   | 6.97  |
| 2100-14M-40 | 146538   | 1.82 | 2100-14M-55 | 146560   | 2.51 | 2100-14M-85 | 146582   | 3.88  | 2100-14M-115 | 146604   | 5.25  | 2100-14M-170 | 146626   | 7.75  |
| 2310-14M-40 | 146539   | 2.00 | 2310-14M-55 | 146561   | 2.76 | 2310-14M-85 | 146583   | 4.26  | 2310-14M-115 | 146605   | 5.77  | 2310-14M-170 | 146627   | 8.53  |
| 2450-14M-40 | 146540   | 2.13 | 2450-14M-55 | 146562   | 2.93 | 2450-14M-85 | 146584   | 4.52  | 2450-14M-115 | 146606   | 6.13  | 2450-14M-170 | 146628   | 9.04  |
| 2590-14M-40 | 146541   | 2.25 | 2590-14M-55 | 146563   | 3.10 | 2590-14M-85 | 146585   | 4.78  | 2590-14M-115 | 146607   | 6.47  | 2590-14M-170 | 146629   | 9.55  |
| 2800-14M-40 | 146542   | 2.43 | 2800-14M-55 | 146564   | 3.34 | 2800-14M-85 | 146586   | 5.17  | 2800-14M-115 | 146608   | 7.00  | 2800-14M-170 | 146630   | 10.33 |
| 3150-14M-40 | 146543   | 2.73 | 3150-14M-55 | 146565   | 3.77 | 3150-14M-85 | 146587   | 5.82  | 3150-14M-115 | 146609   | 7.87  | 3150-14M-170 | 146631   | 11.62 |
| 3360-14M-40 | 146544   | 2.91 | 3360-14M-55 | 146566   | 4.02 | 3360-14M-85 | 146588   | 6.20  | 3360-14M-115 | 146610   | 8.39  | 3360-14M-170 | 146631   | 12.39 |
| 3500-14M-40 | 146545   | 3.03 | 3500-14M-55 | 146567   | 4.19 | 3500-14M-85 | 146589   | 6.46  | 3500-14M-115 | 146611   | 8.75  | 3500-14M-170 | 146633   | 12.90 |
| 3850-14M-40 | 146546   | 3.33 | 3850-14M-55 | 146568   | 4.60 | 3850-14M-85 | 146590   | 7.10  | 3850-14M-115 | 146612   | 9.62  | 3850-14M-170 | 146634   | 14.20 |
| 4326-14M-40 | 146547   | 3.74 | 4326-14M-55 | 146569   | 5.17 | 4326-14M-85 | 146591   | 8.00  | 4326-14M-115 | 146613   | 10.80 | 4326-14M-170 | 146635   | 15.96 |
| 4578-14M-40 | 146548   | 3.96 | 4578-14M-55 | 146570   | 5.48 | 4578-14M-85 | 146592   | 8.45  | 4578-14M-115 | 146614   | 11.42 | 4578-14M-170 | 146636   | 16.90 |
| 4956-14M-40 | 146549   | 4.29 | 4956-14M-55 | 146571   | 5.90 | 4956-14M-85 | 146593   | 9.11  | 4956-14M-115 | 146615   | 12.33 | 4956-14M-170 | 146637   | 18.23 |
| 5320-14M-40 | 146550   | 4.61 | 5320-14M-55 | 146572   | 6.33 | 5320-14M-85 | 146594   | 9.28  | 5320-14M-115 | 146616   | 13.24 | 5320-14M-170 | 146638   | 19.57 |
| 5740-14M-40 | 146551   | 4.97 | 5740-14M-55 | 146573   | 6.83 | 5740-14M-85 | 146595   | 10.55 | 5740-14M-115 | 146617   | 14.29 | 5740-14M-170 | 146639   | 25.00 |
| 6160-14M-40 | 146552   | 5.33 | 6160-14M-55 | 146574   | 7.33 | 6160-14M-85 | 146596   | 11.32 | 6160-14M-115 | 146618   | 15.34 | 6160-14M-170 | 146640   | 22.67 |
| 6860-14M-40 | 146553   | 5.94 | 6860-14M-55 | 146575   | 8.16 | 6860-14M-85 | 146597   | 12.61 | 6860-14M-115 | 146619   | 17.08 | 6860-14M-170 | 146641   | 25.25 |

#### 20MM Pitch HTD Belts

| 115MM Wide   |          |      | 170MM Wide   |          |      | 230MM Wide   |          |      | 290MM Wide   |          |      | 340MM Wide   |          |      |
|--------------|----------|------|--------------|----------|------|--------------|----------|------|--------------|----------|------|--------------|----------|------|
| Size         | Part No. | Wt.  | Size         | Part No. | Wt.  | Size         | Part No. | Wt.  | Size         | Part No. | Wt.  | Size         | Part No. | Wt.  |
| 2000-20M-115 | 142288   | 6    | 2000-20M-170 | 142303   | 9    | 2000-20M-230 | 142318   | 12   | 2000-20M-290 | 142333   | 16   | 2000-20M-340 | 142348   | 19   |
| 2500-20M-115 | 142289   | 8    | 2500-20M-170 | 142304   | 11   | 2500-20M-230 | 142319   | 15   | 2500-20M-290 | 142334   | 20   | 2500-20M-340 | 142349   | 24   |
| 3400-20M-115 | 142290   | 11   | 3400-20M-170 | 142305   | 16   | 3400-20M-230 | 142320   | 22   | 3400-20M-290 | 142335   | 27   | 3400-20M-340 | 142350   | 32   |
| 3800-20M-115 | 142291   | 12   | 3800-20M-170 | 142306   | 18   | 3800-20M-230 | 142321   | 24.5 | 3800-20M-290 | 142336   | 30.5 | 3800-20M-340 | 142351   | 35.5 |
| 4200-20M-115 | 142292   | 13   | 4200-20M-170 | 142307   | 20   | 4200-20M-230 | 142322   | 27   | 4200-20M-290 | 142337   | 34   | 4200-20M-340 | 142352   | 39   |
| 4600-20M-115 | 142293   | 14.5 | 4600-20M-170 | 142308   | 21.5 | 4600-20M-230 | 142323   | 29.5 | 4600-20M-290 | 142338   | 37   | 4600-20M-340 | 142353   | 43   |
| 5000-20M-115 | 142294   | 16   | 5000-20M-170 | 142309   | 23   | 5000-20M-230 | 142324   | 32   | 5000-20M-290 | 142339   | 40   | 5000-20M-340 | 142354   | 47   |
| 5200-20M-115 | 142295   | 16.5 | 5200-20M-170 | 142310   | 24   | 5200-20M-230 | 142325   | 33   | 5200-20M-290 | 142340   | 41.5 | 5200-20M-340 | 142355   | 49   |
| 5400-20M-115 | 142296   | 17   | 5400-20M-170 | 142311   | 25   | 5400-20M-230 | 142326   | 34   | 5400-20M-290 | 142341   | 43   | 5400-20M-340 | 142356   | 51   |
| 5600-20M-115 | 142297   | 17.5 | 5600-20M-170 | 142312   | 26   | 5600-20M-230 | 142327   | 35.5 | 5600-20M-290 | 142342   | 44.5 | 5600-20M-340 | 142357   | 52.5 |
| 5800-20M-115 | 142298   | 18.0 | 5800-20M-170 | 142313   | 27   | 5800-20M-230 | 142328   | 37   | 5800-20M-290 | 142343   | 46   | 5800-20M-340 | 142358   | 54   |
| 6000-20M-115 | 142299   | 19   | 6000-20M-170 | 142314   | 28   | 6000-20M-230 | 142329   | 38   | 6000-20M-290 | 142344   | 48   | 6000-20M-340 | 142359   | 56   |
| 6200-20M-115 | 142300   | 20.0 | 6200-20M-170 | 142315   | 29   | 6200-20M-230 | 142330   | 39   | 6200-20M-290 | 142345   | 50   | 6200-20M-340 | 142360   | 58   |
| 6400-20M-115 | 142301   | 21   | 6400-20M-170 | 142316   | 30   | 6400-20M-230 | 142331   | 40.5 | 6400-20M-290 | 142346   | 51.5 | 6400-20M-340 | 142361   | 60.0 |
| 6600-20M-115 | 142302   | 22.0 | 6600-20M-170 | 142317   | 31   | 6600-20M-230 | 142332   | 42   | 6600-20M-290 | 142347   | 53   | 6600-20M-340 | 142362   | 62   |

|                                  |                           |                                       |  |
|----------------------------------|---------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SELECTION<br>PAGE PT11-19 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|---------------------------|---------------------------------------|--|



## PROCEDURE

### 1. Obtain required information:

- Motor name plate HP
- Motor or DriveR RPM and Shaft size
- DriveN Machine RPM and Shaft size
- Approximate center distance
- Service factor information

### 2. Determine Service Factor: (Page PT11-20)

- Determine type of Driven Machine from Table 1
- Choose Basic Service Factor in appropriate column of the following S.F. Table
- Add additional service factor for slow speed drives, idlers or speed up drives were applicable

### 3. Calculate Design Horsepower:

- Multiply Motor HP or normal running HP times Service Factor from Step 2
- Note: Recommended Min. Sprocket Diameter, if applicable, from NEMA table on page PT11-21.

### 4. Determine Belt Pitch: (Page PT11-21)

- Choose belt pitch based upon Design HP and RPM of faster shaft

### 5. Select Smaller Sprocket:

- Look at Basic HP rating tables of belt Pitch selected in Step 4
- Scan HP rating at RPM of faster shaft. (Pg. PT11-22 thru PT11-26)
- Find sprocket size(s) that have HP rating at or above Design HP

### 6. Calculate Drive Speed Ratio:

- Divide Fast Shaft RPM by Slow Shaft RPM

### 7. Select Sprockets and Belt:

- Refer to "Ratio/Center Distance" Tables for Belt pitch chosen in Step 4. (Pg. PT11-35 - PT11-65)
- Trace down left hand column to approximate ratio calculated in Step 6
- Choose drive that has small sprocket at or above the number of teeth determined in Step 5
- On this same line, trace to the right until the number closest to the required center distance is reached
- Trace to the top of this column and note the belt size that gives this center distance
- Also note the "Belt Length Correction Factor" at the top or bottom of this same column

### 8. Finalize Selection:

- Multiply "Belt Length Correction Factor" times indicated rating obtained from HP table
- Verify that Design HP is equal to or less than this corrected HP value
- Note: If Correction Factor is greater than 1.0 corrected HP may allow selection of smaller less expensive drive

### 9. Specify Drive:

- DriveR Sprocket and Bushing
- DriveN Sprocket and Bushing
- Belt
- Verify that bushing bore has capacity for shaft size

## Example

**Step 1. Required Information:** Select a HTR/HTRC drive to connect a 15HP APG gearmotor to a package conveyor headshaft. Reducer output is 125 RPM, shaft size is 2". Headshaft is 2-3/4" and is to run at 70 RPM. Center distance is 19-23", operation is 14 hrs/day.

**Step 2: Service Factor:** Package Conveyor requires 1.4 basic Service Factor. Add 0.3 for slow speed drive application (step 2 at left). Net S.F. = 1.7

**Step 3. Design HP:**  $1.7 \times 15 = 25.5$  HP.

**Step 4. Belt Pitch:** Referring to page PT11-21, most probable belt pitch for 25.5 Des. HP at 125 RPM is 14MM.

**Step 5. Select Small Sprocket:** Scan 14MM HP Tables. Since there is no 125 RPM line, it will be necessary to interpolate. Start with the 100 RPM line. Observe that a 38 tooth sprocket for a 115MM wide belt gives 23.5 HP. Interpolation for 125 RPM gives 29.2 HP. Other alternatives are also available (see below)

**Step 6. Drive Ratio:**  $125 / 70 \text{ RPM} = 1.79:1$

**Step 7. Sprocket Selection:** Refer to 14MM Ratio/Center Distance tables. For 1.79 ratio, note that there are 5 drive combinations in the 1.78 to 1.8 range. The 38 tooth DriveR and the 68 tooth DriveN combination appears to be good, however we need to account for the belt length correction factor of .95, which gives us a net design HP of 27.7. (Note 20.2" C.D. requires a 1778 length code belt)

**Step 8. Finalize Selection:** Select the 38 to 68 tooth combination with a 1778 length code belt for 20.2" C.D. From step 7, rated HP is 27.7

There are many optional drive selections. For drive verification or complete list of choices run ViaSync at [www.ptwizard.com](http://www.ptwizard.com).

### Step 9. Specify Drive:

#### Original Selection:

DriveR Sprocket: P38-14M-115-3020, P/N **114520** Bushing. 3020 x 2", P/N **117118**

DriveN Sprocket: P68-14M-115-4545, P/N **114528** Bushing. 4545 x 2-3/4", P/N **117426**

Belt: 1778-14M-115 HT200 Belt, P/N **146602** Shaft capacity is verified by availability of bore sizes.

Selection program available online at [ptwizard.com](http://ptwizard.com)

|                                  |                               |                                       |  |
|----------------------------------|-------------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SPECIFICATIONS<br>PAGE PT11-4 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|-------------------------------|---------------------------------------|--|



# SELECTION

## Service Factors

Table 1

| DriveN Machine  | DriveR                          |                    |                     |                                 |                    |                     |
|---|---------------------------------|--------------------|---------------------|---------------------------------|--------------------|---------------------|
|   | Intermittent Service            | Normal Service     | Continuous Service  | Intermittent Service            | Normal Service     | Continuous Service  |
| The driveN machines listed below are representative samples only. Select a driveN machine whose load characteristics most closely approximate those of the machine being considered.  | Up to 8 hours Daily or Seasonal | 8 - 16 hours Daily | 16 - 24 hours Daily | Up to 8 hours Daily or Seasonal | 8 - 16 hours Daily | 16 - 24 hours Daily |
| Display, Dispensing Equipment, Instrumentation, Measuring Equipment, Medical Equipment, Office, Projection Equipment  | 1.0                             | 1.2                | 1.4                 | 1.2                             | 1.4                | 1.6                 |
| Appliances, Sweepers, Sewing Machines Screens, Oven Screens, Drum, Conical Woodworking Equipment (Light): Band Saws, Drills, Lathes   | 1.1                             | 1.3                | 1.5                 | 1.3                             | 1.5                | 1.7                 |
| Agitators for Liquids, Conveyors: Belt, Light Package, Drill Press, Lathes, Saws, Laundry Machinery, Wood Working Equipment (Heavy): Circular Saws, Jointers, Planers   | 1.2                             | 1.4                | 1.6                 | 1.6                             | 1.8                | 2.0                 |
| Agitators for Semi-Liquids, Compressor: Centrifugal, Conveyor Belt: Ore, Coal, Sand Dough Mixers, Line Shafts, Machine Tools: Grinder, Shaper, Boring Mill, Milling Machines, Paper Machinery (except Pulpers): Presses, Punches, Shears, Printing Machinery, Pumps: Centrifugal, Gear, Screens: Revolving, Vibratory | 1.3                             | 1.5                | 1.7                 | 1.6                             | 1.8                | 2.0                 |
| Brick Machinery (except Pug Mills) Conveyor: Apron, Pan, Bucket, Elevator, Extractors, Washers, Fans, Centrifugal Blowers, Generators & Exciters, Hoists, Rubber Calender, Mills, Extruders   | 1.4                             | 1.6                | 1.8                 | 1.8                             | 2.0                | 2.2                 |
| Centrifuges, Screw Conveyors Hammer Mill, Paper Pulpers, Textile Machinery  | 1.5                             | 1.7                | 1.9                 | 1.9                             | 2.1                | 2.3                 |
| Blowers: Positive Displacement, Mine Fans, Pulverizers  | 1.6                             | 1.8                | 2.0                 | 2.0                             | 2.2                | 2.4                 |
| Compressors: Reciprocating, Crushers: Gyratory, Jaw, Roll, Mills: Ball, Rod, Pebble, etc., Pumps: Reciprocating Saw Mill Equipment  | 1.7                             | 1.9                | 2.1                 | 2.1                             | 2.3                | 2.5                 |

These service factors are adequate for most belt drive applications. Note that service factors cannot be substituted for good engineering judgment. Service factors may be adjusted based upon an understanding of the severity of actual drive operation conditions.

### Additional Service Factors

#### Low Speed Drives

| 8mm, 14,, & 20mm Belts Only |         |
|-----------------------------|---------|
| Smaller Sprocket Speed      |         |
| Up to 200 rpm               | Add 0.3 |
| 201 to 400 rpm              | Add 0.2 |
| 401 to 600 rpm              | Add 0.1 |
| Each Idler                  | Add 0.2 |

#### Speed-up Drives

For speed up drives, add the basic service factor to the additional factor given below.

| Speed-up Ratio Range | Additional Factor | Speed-up Ratio Range | Additional Factor |
|----------------------|-------------------|----------------------|-------------------|
| 1 to 1.24            | none              | 2.5 to 3.49          | 0.3               |
| 1.25 to 1.74         | 0.1               | 3.5 & over           | 0.4               |
| 1.75 to 2.49         | 0.2               |                      |                   |

#### Unusual Conditions

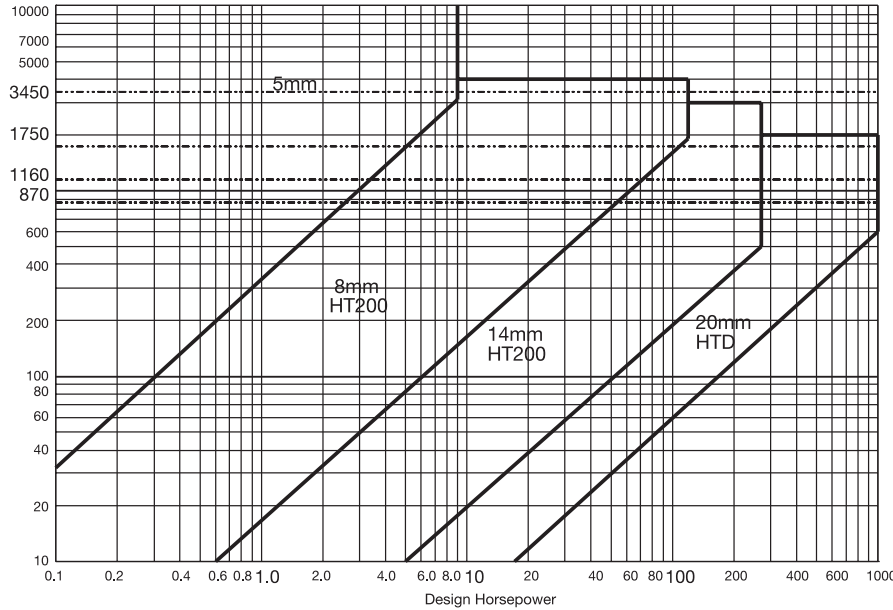
Additional service factors are required for unusual conditions such as a load reversal, heavy shock, plugged motor stop, electric brake. Consult factory or recommendation.

|                                  |                               |                                       |  |
|----------------------------------|-------------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SPECIFICATIONS<br>PAGE PT11-4 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|-------------------------------|---------------------------------------|--|





## Belt Pitch Selection Guide



Synchronous belt drive noise increases as a function of Design Horsepower and operating RPM. This is indicated on the chart at the left. Provisions should be made to design drive guards for sound absorption accordingly.

### Recommended Minimum Sprocket Diameters & Face Width Synchronous Belt Drives Used On General Purpose Electric Motors

| Motor Horsepower | Min. Sprocket Dia. (in.) |       |       |      | Maximum Face Width |       |       |      |
|------------------|--------------------------|-------|-------|------|--------------------|-------|-------|------|
|                  | 870                      | 1160  | 1750  | 3450 | 870                | 1160  | 1750  | 3450 |
| 1/2              | 2.0                      | -     | -     | -    | 2.25               | -     | -     | -    |
| 3/4              | 2.16                     | 2.0   | -     | -    | 2.25               | 2.25  | -     | -    |
| 1                | 2.16                     | 2.16  | 2.0   | -    | 2.75               | 2.25  | 2.25  | -    |
| 1-1/2            | 2.16                     | 2.16  | 2.16  | 2.0  | 2.75               | 2.75  | 2.25  | 2.25 |
| 2                | 2.7                      | 2.16  | 2.16  | 2.16 | 3.38               | 2.75  | 2.25  | 2.25 |
| 3                | 2.7                      | 2.7   | 2.16  | 2.16 | 3.38               | 3.38  | 2.75  | 2.25 |
| 5                | 3.42                     | 2.7   | 2.7   | 2.16 | 4.0                | 3.38  | 2.75  | 2.75 |
| 7-1/2            | 4.0                      | 3.42  | 2.7   | 2.7  | 4.0                | 4.0   | 3.38  | 2.75 |
| 10               | 4.0                      | 4.0   | 3.42  | 2.7  | 4.63               | 4.0   | 3.38  | 3.38 |
| 15               | 4.7                      | 4.0   | 4.0   | 3.42 | 4.63               | 4.63  | 4.0   | 3.38 |
| 20               | 5.4                      | 4.7   | 4.0   | 4.0  | 5.25               | 4.63  | 4.0   | 4.0  |
| 25               | 6.12                     | 5.4   | 4.0   | 4.0  | 5.25               | 5.25  | 4.63  | 4.0  |
| 30               | 6.12                     | 6.12  | 4.7   | -    | 5.87               | 5.25  | 4.63  | -    |
| 40               | 7.4                      | 6.12  | 5.4   | -    | 5.88               | 5.88  | 5.25  | -    |
| 50               | 7.6                      | 7.4   | 6.12  | -    | 7.25               | 5.88  | 5.25  | -    |
| 60               | 9.0                      | 8.1   | 6.7   | -    | 7.25               | 7.25  | 5.88  | -    |
| 75               | 8.6                      | 9.0   | 7.8   | -    | 8.5                | 7.25  | 5.88  | -    |
| 100              | 10.8                     | 9.0   | 7.8   | -    | 8.5                | 8.5   | 7.25  | -    |
| 125              | 11.3                     | 10.8  | 9.5   | -    | 8.5                | 8.5   | 7.25  | -    |
| 150              | 11.88                    | 11.88 | 9.5   | -    | 11.63              | 8.5   | 8.5   | -    |
| 200              | 11.88                    | 11.88 | 11.88 | -    | 11.63              | 11.63 | 11.63 | -    |
| 250              | 13.5                     | 11.88 | 11.88 | -    | 11.63              | 11.63 | 9.38  | -    |
| 300              | -                        | -     | 11.88 | -    | -                  | 11.63 | 11.63 | -    |
| 350              | -                        | -     | 11.88 | -    | -                  | 11.63 | 11.63 | -    |
| 400              | -                        | -     | 12.69 | -    | -                  | -     | 11.63 | -    |

**NOTE:** For a given motor horsepower and speed, the total belt pull is related to the motor sprocket size. As this size **decreases**, the total belt pull **increases**. Therefore, to limit the resultant load on motor shaft and bearings, NEMA lists minimum sprocket sizes for the various motors. The sprocket on the motor (DriveR Sprocket) should be at least this large.





# SELECTION

## HT200 Basic Horsepower Rating

NOTE: Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

| 8M-20 | Rated Horsepower for Small Sprocket<br>(Number of Teeth and Pitch Diameter, Inches) |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |
|-------|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|       | RPM<br>Small Shaft  | 22<br>2.21 | 24<br>2.41 | 26<br>2.61 | 28<br>2.81 | 30<br>3.01 | 32<br>3.21 | 34<br>3.41 | 36<br>3.61 | 38<br>3.81 | 40<br>4.01 | 44<br>4.44 | 48<br>4.81 | 56<br>5.61 | 64<br>6.42 | 72<br>7.22 | 80<br>8.02 |
| 10    | 0.1   | 0.1        | 0.1        | 0.1        | 0.1        | 0.1        | 0.1        | 0.1        | 0.1        | 0.14       | 0.2        | 0.2        | 0.2        | 0.2        | 0.3        | 0.3        | 0.3        |
| 20    | 0.1   | 0.1        | 0.2        | 0.2        | 0.2        | 0.2        | 0.2        | 0.2        | 0.3        | 0.27       | 0.3        | 0.3        | 0.4        | 0.4        | 0.5        | 0.6        | 0.6        |
| 40    | 0.2   | 0.3        | 0.3        | 0.3        | 0.4        | 0.4        | 0.4        | 0.5        | 0.51       | 0.5        | 0.6        | 0.7        | 0.8        | 0.9        | 1.1        | 1.2        | 1.2        |
| 60    | 0.4   | 0.4        | 0.5        | 0.5        | 0.6        | 0.6        | 0.7        | 0.7        | 0.74       | 0.8        | 0.9        | 1.0        | 1.0        | 1.1        | 1.4        | 1.6        | 1.8        |
| 100   | 0.6   | 0.6        | 0.7        | 0.8        | 0.9        | 1.0        | 1.0        | 1.1        | 1.2        | 1.3        | 1.4        | 1.6        | 1.6        | 1.9        | 2.3        | 2.5        | 2.8        |
| 200   | 1.0   | 1.2        | 1.4        | 1.5        | 1.7        | 1.8        | 2.0        | 2.1        | 2.3        | 2.5        | 2.8        | 3.1        | 3.7        | 4.3        | 4.9        | 5.5        | 5.5        |
| 300   | 1.5   | 1.7        | 2.0        | 2.2        | 2.4        | 2.7        | 2.9        | 3.1        | 3.4        | 3.6        | 4.0        | 4.5        | 5.4        | 6.2        | 7.1        | 8.0        | 8.0        |
| 400   | 2.0   | 2.3        | 2.6        | 2.9        | 3.2        | 3.5        | 3.8        | 4.1        | 4.37       | 4.7        | 5.3        | 5.9        | 7.0        | 8.4        | 9.3        | 10.5       | 10.5       |
| 500   | 2.4   | 2.8        | 3.2        | 3.5        | 3.9        | 4.3        | 4.6        | 5.0        | 5.38       | 5.7        | 6.5        | 7.2        | 8.6        | 10.1       | 11.5       | 12.9       | 12.9       |
| 600   | 2.8   | 3.1        | 3.7        | 4.2        | 4.6        | 5.1        | 5.5        | 6.0        | 6.37       | 6.8        | 7.7        | 8.5        | 10.2       | 11.9       | 13.6       | 15.3       | 15.3       |
| 700   | 3.3   | 3.8        | 4.3        | 4.8        | 5.3        | 5.8        | 6.3        | 6.9        | 7.35       | 7.9        | 8.9        | 9.9        | 11.8       | 13.8       | 15.7       | 17.6       | 17.6       |
| 800   | 3.7   | 4.3        | 4.9        | 5.4        | 6.0        | 6.6        | 7.2        | 7.8        | 8.31       | 8.9        | 10.0       | 11.1       | 13.4       | 15.6       | 17.8       | 20.0       | 20.0       |
| 870   | 4.0   | 4.6        | 5.2        | 5.9        | 6.5        | 7.1        | 7.7        | 8.4        | 8.98       | 9.6        | 10.8       | 12.0       | 14.5       | 16.9       | 19.2       | 21.6       | 21.6       |
| 1000  | 4.5   | 5.2        | 5.9        | 6.7        | 7.4        | 8.1        | 8.8        | 9.5        | 10.2       | 10.9       | 12.3       | 13.7       | 16.5       | 19.2       | 21.9       | 24.5       | 24.5       |
| 1160  | 5.1   | 6.0        | 6.8        | 7.6        | 8.5        | 9.3        | 10.1       | 10.9       | 11.7       | 12.5       | 14.1       | 15.7       | 18.9       | 22.0       | 25.1       | 28.1       | 28.1       |
| 1200  | 5.3   | 6.2        | 7.0        | 7.9        | 8.7        | 9.6        | 10.4       | 11.2       | 12.1       | 12.9       | 14.6       | 16.2       | 19.5       | 22.7       | 25.9       | 29.0       | 29.0       |
| 1400  | 6.1   | 7.1        | 8.1        | 9.0        | 10.0       | 11.0       | 12.0       | 12.9       | 13.9       | 14.9       | 16.8       | 18.7       | 22.4       | 26.1       | 29.8       | 33.4       | 33.4       |
| 1600  | 6.8   | 8.0        | 9.1        | 10.2       | 11.3       | 12.4       | 13.5       | 14.6       | 15.7       | 16.8       | 19.0       | 21.1       | 25.3       | 29.5       | 33.6       | 37.7       | 37.7       |
| 1750  | 7.4   | 8.6        | 9.9        | 11.1       | 12.3       | 13.5       | 14.7       | 15.9       | 17.1       | 18.2       | 20.6       | 22.9       | 27.5       | 32.0       | 36.5       | 40.8       | 40.8       |
| 2000  | 8.4   | 9.7        | 11.1       | 12.5       | 13.9       | 15.2       | 16.6       | 17.9       | 19.3       | 20.6       | 23.2       | 25.8       | 31.0       | 36.1       | 41.1       | 45.9       | 45.9       |
| 2400  | 9.8   | 11.4       | 13.1       | 14.7       | 16.3       | 17.9       | 19.5       | 21.1       | 22.7       | 24.3       | 27.4       | 30.5       | 36.5       | 42.4       | 48.2       | 53.8       | 53.8       |
| 2800  | 11.2  | 13.1       | 15.0       | 16.9       | 18.7       | 20.6       | 22.4       | 24.2       | 26.0       | 27.8       | 31.4       | 34.9       | 41.8       | 48.5       | 54.9       | 61.2       | 61.2       |
| 3200  | 12.6  | 14.8       | 16.9       | 19.0       | 21.1       | 23.2       | 25.2       | 27.3       | 29.3       | 31.3       | 35.3       | 39.2       | 46.9       | 54.2       | 61.3       | 68.3       | 68.3       |
| 3450  | 13.5  | 15.8       | 18.0       | 20.3       | 22.5       | 24.8       | 27.0       | 29.1       | 31.3       | 33.5       | 37.7       | 41.9       | 50.0       | 57.7       | 65.1       | 72.9       | 72.9       |
| 4000  | 15.3  | 17.9       | 20.5       | 23.1       | 25.6       | 28.2       | 30.7       | 33.1       | 35.6       | 38.0       | 42.8       | 47.4       | 56.4       | 64.4       | 72.9       | 81.2       | 81.2       |
| 4500  | 16.9  | 19.8       | 22.7       | 25.5       | 28.4       | 31.1       | 33.9       | 36.6       | 39.3       | 42.0       | 47.2       | 52.2       | 61.6       | 70.1       | 78.6       | 87.1       | 87.1       |
| 5000  | 18.5  | 21.7       | 24.8       | 27.9       | 31.0       | 34.0       | 37.0       | 40.0       | 42.9       | 45.7       | 51.3       | 56.7       | 66.6       | 75.6       | 84.6       | 93.6       | 93.6       |
| 5500  | 20.0  | 23.5       | 26.9       | 30.2       | 33.6       | 36.8       | 40.0       | 43.2       | 46.3       | 49.3       | 55.3       | 60.7       | 71.2       | 80.2       | 89.2       | 98.2       | 98.2       |

| 8M-30 | Rated Horsepower for Small Sprocket<br>(Number of Teeth and Pitch Diameter, Inches) |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |
|-------|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|       | RPM<br>Small Shaft  | 22<br>2.21 | 24<br>2.41 | 26<br>2.61 | 28<br>2.81 | 30<br>3.01 | 32<br>3.21 | 34<br>3.41 | 36<br>3.61 | 38<br>3.81 | 40<br>4.01 | 44<br>4.44 | 48<br>4.81 | 56<br>5.61 | 64<br>6.42 | 72<br>7.22 | 80<br>8.02 |
| 10    | 0.1   | 0.1        | 0.1        | 0.2        | 0.2        | 0.2        | 0.2        | 0.2        | 0.2        | 0.2        | 0.2        | 0.3        | 0.3        | 0.4        | 0.5        | 0.5        | 0.5        |
| 20    | 0.2   | 0.2        | 0.3        | 0.3        | 0.3        | 0.3        | 0.4        | 0.4        | 0.4        | 0.4        | 0.5        | 0.6        | 0.7        | 0.8        | 0.9        | 1.0        | 1.0        |
| 40    | 0.4   | 0.4        | 0.5        | 0.5        | 0.6        | 0.6        | 0.7        | 0.8        | 0.8        | 0.9        | 1.0        | 1.1        | 1.3        | 1.5        | 1.7        | 1.9        | 1.9        |
| 60    | 0.5   | 0.6        | 0.7        | 0.8        | 0.9        | 0.9        | 1.0        | 1.1        | 1.2        | 1.3        | 1.4        | 1.6        | 1.9        | 2.2        | 2.5        | 2.8        | 2.8        |
| 100   | 0.9   | 1.0        | 1.1        | 1.3        | 1.4        | 1.5        | 1.6        | 1.8        | 1.9        | 2.0        | 2.3        | 2.5        | 3.0        | 3.5        | 4.0        | 4.5        | 4.5        |
| 200   | 1.6   | 1.9        | 2.1        | 2.4        | 2.6        | 2.9        | 3.1        | 3.4        | 3.6        | 3.8        | 4.3        | 4.8        | 5.8        | 6.7        | 7.6        | 8.6        | 8.6        |
| 300   | 2.4   | 2.7        | 3.1        | 3.5        | 3.8        | 4.2        | 4.5        | 4.9        | 5.3        | 5.6        | 6.3        | 7.0        | 8.4        | 9.8        | 11.2       | 12.5       | 12.5       |
| 400   | 3.1   | 3.6        | 4.0        | 4.5        | 5.0        | 5.5        | 5.9        | 6.4        | 6.9        | 7.3        | 8.3        | 9.2        | 11.0       | 12.8       | 14.6       | 16.4       | 16.4       |
| 500   | 3.8   | 4.4        | 5.0        | 5.5        | 6.1        | 6.7        | 7.3        | 7.9        | 8.5        | 9.0        | 10.2       | 11.3       | 13.6       | 15.8       | 18.0       | 20.2       | 20.2       |
| 600   | 4.5   | 5.2        | 5.9        | 6.6        | 7.3        | 7.9        | 8.6        | 9.3        | 10.0       | 10.7       | 12.0       | 13.4       | 16.1       | 18.7       | 21.4       | 24.0       | 24.0       |
| 700   | 5.1   | 5.9        | 6.7        | 7.5        | 8.4        | 9.2        | 10.0       | 10.7       | 11.5       | 12.3       | 13.9       | 15.5       | 18.6       | 21.6       | 24.7       | 27.7       | 27.7       |
| 800   | 5.8   | 6.7        | 7.6        | 8.5        | 9.4        | 10.3       | 11.2       | 12.1       | 13.0       | 13.9       | 15.7       | 17.5       | 21.0       | 24.5       | 27.9       | 31.4       | 31.4       |
| 870   | 6.2   | 7.2        | 8.2        | 9.2        | 10.2       | 11.2       | 12.2       | 13.1       | 14.1       | 15.1       | 17.0       | 18.9       | 22.7       | 26.5       | 30.2       | 33.9       | 33.9       |
| 1000  | 7.1   | 8.2        | 9.3        | 10.5       | 11.6       | 12.7       | 13.8       | 14.9       | 16.0       | 17.1       | 19.3       | 21.5       | 25.8       | 30.1       | 34.3       | 38.5       | 38.5       |
| 1160  | 8.1   | 9.4        | 10.7       | 12.0       | 13.3       | 14.5       | 15.8       | 17.1       | 18.4       | 19.6       | 22.2       | 24.7       | 29.6       | 34.5       | 39.4       | 44.2       | 44.2       |
| 1200  | 8.3   | 9.7        | 11.0       | 12.3       | 13.7       | 15.0       | 16.3       | 17.6       | 19.0       | 20.3       | 22.9       | 25.4       | 30.6       | 35.6       | 40.6       | 45.6       | 45.6       |
| 1400  | 9.5   | 11.1       | 12.7       | 14.2       | 15.7       | 17.3       | 18.8       | 20.3       | 21.8       | 23.3       | 26.3       | 29.3       | 35.2       | 41.0       | 46.8       | 52.4       | 52.4       |
| 1600  | 10.8  | 12.5       | 14.3       | 16.0       | 17.8       | 19.5       | 21.2       | 23.0       | 24.7       | 26.4       | 29.8       | 33.1       | 39.8       | 46.3       | 52.8       | 59.1       | 59.1       |
| 1750  | 11.6  | 13.6       | 15.5       | 17.4       | 19.3       | 21.2       | 23.0       | 24.9       | 26.8       | 28.6       | 32.3       | 36.0       | 43.2       | 50.3       | 57.2       | 64.1       | 64.1       |
| 2000  | 13.1  | 15.3       | 17.5       | 19.6       | 21.8       | 23.9       | 26.0       | 28.1       | 30.2       | 32.3       | 36.5       | 40.6       | 48.7       | 56.7       | 64.5       | 72.1       | 72.1       |
| 2400  | 15.4  | 18.0       | 20.5       | 23.1       | 25.6       | 28.1       | 30.7       | 33.1       | 35.6       | 38.1       | 43.0       | 47.8       | 57.3       | 66.6       | 75.6       | 84.4       | 84.4       |
| 2800  | 17.6  | 20.6       | 23.6       | 26.5       | 29.4       | 32.3       | 35.2       | 38.0       | 40.9       | 43.7       | 49.3       | 54.8       | 65.6       | 76.1       | 86.2       | 96.0       | 96.0       |
| 3200  | 19.8  | 23.2       | 26.5       | 29.8       | 33.1       | 36.4       | 39.6       | 42.8       | 46.0       | 49.2       | 55.4       | 61.6       | 73.6       | 85.2       | 96.2       | 106.2      | 106.2      |
| 3450  | 21.1  | 24.7       | 28.3       | 31.9       | 35.4       | 38.9       | 42.3       | 45.8       | 49.2       | 52.5       | 59.2       | 65.7       | 78.4       | 90.6       | 102.2      | 112.2      | 112.2      |
| 4000  | 24.0  | 28.1       | 32.2       | 36.2       | 40.3       | 44.2       | 48.1       | 52.0       | 55.9       | 59.7       | 67.1       | 74.5       | 88.5       | 101.1      | 113.7      | 126.3      | 126.3      |
| 4500  | 26.6  | 31.1       | 35.6       | 40.1       | 44.5       | 48.9       | 53.2       | 57.5       | 61.7       | 65.9       | 74.0       | 82.0       | 96.6       | 109.2      | 121.8      | 134.4      | 134.4      |
| 5000  | 29.0  | 34.0       | 39.0       | 43.8       | 48.7       | 53.4       | 58.1       | 62.8       | 67.3       | 71.8       | 80.6       | 89.1       | 104.2      | 117.8      | 130.4      | 143.0      | 143.0      |
| 5500  | 31.4  | 36.8       | 42.2       | 47.5       | 52.7       | 57.8       | 62.9       | 67.8       | 72.7       | 77.5       | 86.8       | 95.7       | 111.2      | 124.8      | 137.4      | 150.0      | 150.0      |

Operation in shaded area will result in a reduction of belt life.

|                                  |                               |                                       |  |
|----------------------------------|-------------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SPECIFICATIONS<br>PAGE PT11-4 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|-------------------------------|---------------------------------------|--|

# SELECTION



## HT200 Basic Horsepower Rating

NOTE: Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

| 8M-50<br>RPM<br>Small Shaft | Rated Horsepower for Small Sprocket<br>(Number of Teeth and Pitch Diameter, Inches) |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |
|-----------------------------|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                             | 22<br>2.21  | 24<br>2.41 | 26<br>2.61 | 28<br>2.81 | 30<br>3.01 | 32<br>3.21 | 34<br>3.41 | 36<br>3.61 | 38<br>3.81 | 40<br>4.01 | 44<br>4.44 | 48<br>4.81 | 56<br>5.61 | 64<br>6.42 | 72<br>7.22 | 80<br>8.02 |
| 10                          | 0.2   | 0.2        | 0.2        | 0.3        | 0.3        | 0.3        | 0.3        | 0.4        | 0.4        | 0.4        | 0.5        | 0.5        | 0.6        | 0.7        | 0.8        | 0.9        |
| 20                          | 0.3   | 0.4        | 0.4        | 0.5        | 0.5        | 0.6        | 0.6        | 0.7        | 0.7        | 0.8        | 0.9        | 1.0        | 1.1        | 1.3        | 1.5        | 1.7        |
| 40                          | 0.7   | 0.7        | 0.8        | 0.9        | 1.0        | 1.1        | 1.2        | 1.3        | 1.4        | 1.5        | 1.7        | 1.9        | 2.2        | 2.6        | 2.9        | 3.3        |
| 60                          | 0.9   | 1.1        | 1.2        | 1.4        | 1.5        | 1.6        | 1.8        | 1.9        | 2.0        | 2.2        | 2.4        | 2.7        | 3.2        | 3.8        | 4.3        | 4.8        |
| 100                         | 1.5   | 1.7        | 2.0        | 2.2        | 2.4        | 2.6        | 2.8        | 3.1        | 3.3        | 3.5        | 3.9        | 4.4        | 5.2        | 6.1        | 6.9        | 7.8        |
| 200                         | 2.9   | 3.3        | 3.7        | 4.1        | 4.6        | 5.0        | 5.4        | 5.8        | 6.3        | 6.7        | 7.5        | 8.4        | 10.0       | 11.7       | 13.3       | 14.9       |
| 300                         | 4.1   | 4.8        | 5.4        | 6.0        | 6.7        | 7.23       | 7.9        | 8.5        | 9.2        | 9.8        | 11.0       | 12.2       | 14.6       | 17.0       | 19.4       | 21.8       |
| 400                         | 5.4   | 6.2        | 7.0        | 7.9        | 8.7        | 9.5        | 10.3       | 11.1       | 11.9       | 12.7       | 14.4       | 16.0       | 19.2       | 22.3       | 25.5       | 28.6       |
| 500                         | 6.6   | 7.6        | 8.6        | 9.6        | 10.7       | 11.7       | 12.7       | 13.7       | 14.7       | 15.7       | 17.7       | 19.7       | 23.6       | 27.5       | 31.4       | 35.2       |
| 600                         | 7.7   | 9.0        | 10.2       | 11.4       | 12.6       | 13.8       | 15.0       | 16.2       | 17.4       | 18.6       | 20.9       | 23.3       | 28.0       | 32.6       | 37.2       | 41.7       |
| 700                         | 8.9   | 10.3       | 11.7       | 13.1       | 14.5       | 15.9       | 17.3       | 18.7       | 20.1       | 21.4       | 24.2       | 26.9       | 32.3       | 37.6       | 42.9       | 48.2       |
| 800                         | 10.0  | 11.6       | 13.2       | 14.8       | 16.4       | 18.0       | 19.6       | 21.1       | 22.7       | 24.2       | 27.3       | 30.4       | 36.5       | 42.6       | 48.6       | 54.5       |
| 870                         | 10.8  | 12.6       | 14.3       | 16.0       | 17.7       | 19.4       | 21.1       | 22.8       | 24.5       | 26.2       | 29.5       | 32.9       | 39.5       | 46.0       | 52.5       | 58.9       |
| 1000                        | 12.3  | 14.2       | 16.2       | 18.2       | 20.1       | 22.1       | 24.0       | 25.9       | 27.9       | 29.8       | 33.6       | 37.4       | 44.9       | 52.4       | 59.7       | 67.0       |
| 1160                        | 14.0  | 16.3       | 18.6       | 20.8       | 23.1       | 25.3       | 27.5       | 29.7       | 32.0       | 34.1       | 38.5       | 42.9       | 51.5       | 60.0       | 68.5       | 76.8       |
| 1200                        | 14.4  | 16.8       | 19.1       | 21.5       | 23.8       | 26.1       | 28.4       | 30.7       | 33.0       | 35.2       | 39.8       | 44.2       | 53.1       | 61.9       | 70.6       | 79.2       |
| 1400                        | 16.6  | 19.3       | 22.0       | 24.7       | 27.4       | 30.0       | 32.7       | 35.3       | 38.0       | 40.6       | 45.8       | 51.0       | 61.2       | 71.3       | 81.3       | 91.2       |
| 1600                        | 18.7  | 21.8       | 24.8       | 27.9       | 30.9       | 33.9       | 36.9       | 39.9       | 42.9       | 45.9       | 51.8       | 57.6       | 69.2       | 80.6       | 91.8       | 102.9      |
| 1750                        | 20.2  | 23.6       | 26.9       | 30.2       | 33.5       | 36.8       | 40.1       | 43.3       | 46.6       | 49.8       | 56.2       | 62.5       | 75.0       | 87.4       | 99.5       | 111.4      |
| 2000                        | 22.8  | 26.6       | 30.3       | 34.1       | 37.8       | 41.5       | 45.2       | 48.9       | 52.6       | 56.2       | 63.4       | 70.6       | 84.7       | 98.5       | 112.1      | 125.4      |
| 2400                        | 26.8  | 31.3       | 35.7       | 40.2       | 44.6       | 48.9       | 53.3       | 57.6       | 62.0       | 66.2       | 74.7       | 83.1       | 99.7       | 115.8      | 131.5      | 146.8      |
| 2800                        | 30.7  | 35.8       | 41.0       | 46.1       | 51.2       | 56.2       | 61.2       | 66.2       | 71.1       | 76.0       | 85.7       | 95.3       | 114.1      | 132.3      | 149.9      | 166.9      |
| 3200                        | 34.4  | 40.3       | 46.1       | 51.9       | 57.6       | 63.2       | 68.9       | 74.5       | 80.0       | 85.5       | 96.4       | 107.1      | 128.0      | 148.1      | 167.4      |            |
| 3450                        | 36.8  | 43.0       | 49.2       | 55.4       | 61.5       | 67.6       | 73.6       | 79.6       | 85.5       | 91.3       | 102.9      | 114.3      | 136.4      | 157.5      | 177.7      |            |
| 4000                        | 41.8  | 48.9       | 56.0       | 63.0       | 70.0       | 76.9       | 83.7       | 90.4       | 97.1       | 103.7      | 116.8      | 129.5      | 154.0      |            |            |            |
| 4500                        | 46.2  | 54.1       | 62.0       | 69.7       | 77.4       | 85.0       | 92.6       | 100.0      | 107.3      | 114.5      | 128.7      | 142.5      |            |            |            |            |
| 5000                        | 50.5  | 59.1       | 67.8       | 76.2       | 84.7       | 92.9       | 101.1      | 109.1      | 117.1      | 124.9      | 140.1      | 154.9      |            |            |            |            |
| 5500                        | 54.6  | 64.0       | 73.4       | 82.5       | 91.6       | 100.5      | 109.3      | 117.9      | 126.4      | 134.7      | 150.9      |            |            |            |            |            |

| 8M-85<br>RPM<br>Small Shaft | Rated Horsepower for Small Sprocket<br>(Number of Teeth and Pitch Diameter, Inches) |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |
|-----------------------------|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                             | 22<br>2.21  | 24<br>2.41 | 26<br>2.61 | 28<br>2.81 | 30<br>3.01 | 32<br>3.21 | 34<br>3.41 | 36<br>3.61 | 38<br>3.81 | 40<br>4.01 | 44<br>4.44 | 48<br>4.81 | 56<br>5.61 | 64<br>6.42 | 72<br>7.22 | 80<br>8.02 |
| 10                          | 0.3   | 0.4        | 0.4        | 0.4        | 0.5        | 0.5        | 0.6        | 0.6        | 0.7        | 0.7        | 0.8        | 0.9        | 1.0        | 1.2        | 1.4        | 1.5        |
| 20                          | 0.6   | 0.7        | 0.8        | 0.8        | 0.9        | 1.0        | 1.1        | 1.2        | 1.3        | 1.3        | 1.5        | 1.7        | 2.0        | 2.3        | 2.6        | 3.0        |
| 40                          | 1.1   | 1.3        | 1.5        | 1.6        | 1.8        | 1.9        | 2.1        | 2.3        | 2.4        | 2.6        | 2.9        | 3.2        | 3.8        | 4.5        | 5.1        | 5.7        |
| 60                          | 1.6   | 1.9        | 2.1        | 2.4        | 2.6        | 2.8        | 3.1        | 3.3        | 3.5        | 3.8        | 4.2        | 4.7        | 5.6        | 6.5        | 7.4        | 8.3        |
| 100                         | 2.6   | 3.0        | 3.4        | 3.8        | 4.2        | 4.6        | 4.9        | 5.3        | 5.7        | 6.1        | 6.8        | 7.6        | 9.1        | 10.6       | 12.0       | 13.5       |
| 200                         | 5.0   | 5.7        | 6.5        | 7.2        | 8.0        | 8.7        | 9.4        | 10.2       | 10.9       | 11.6       | 13.1       | 14.5       | 17.4       | 20.3       | 23.1       | 25.9       |
| 300                         | 7.2   | 8.3        | 9.4        | 10.5       | 11.6       | 12.7       | 13.7       | 14.8       | 15.9       | 17.0       | 19.1       | 21.2       | 25.5       | 29.7       | 33.8       | 38.0       |
| 400                         | 9.3   | 10.8       | 12.2       | 13.7       | 15.1       | 16.5       | 17.9       | 19.4       | 20.8       | 22.2       | 25.0       | 27.8       | 33.3       | 38.8       | 44.3       | 49.7       |
| 500                         | 11.4  | 13.2       | 15.0       | 16.8       | 18.5       | 20.3       | 22.1       | 23.8       | 25.6       | 27.3       | 30.8       | 34.2       | 41.0       | 47.8       | 54.6       | 61.2       |
| 600                         | 13.5  | 15.6       | 17.7       | 19.8       | 21.9       | 24.0       | 26.1       | 28.2       | 30.3       | 32.3       | 36.4       | 40.5       | 48.6       | 56.7       | 64.7       | 72.6       |
| 700                         | 15.5  | 17.9       | 20.4       | 22.8       | 25.3       | 27.7       | 30.1       | 32.5       | 34.9       | 37.3       | 42.0       | 46.8       | 56.1       | 65.4       | 74.7       | 83.8       |
| 800                         | 17.5  | 20.2       | 23.0       | 25.8       | 28.6       | 31.3       | 34.0       | 36.8       | 39.5       | 42.2       | 47.6       | 52.9       | 63.6       | 74.1       | 84.5       | 94.9       |
| 870                         | 18.8  | 21.8       | 24.9       | 27.8       | 30.8       | 33.8       | 36.8       | 39.7       | 42.7       | 45.6       | 51.4       | 57.2       | 68.7       | 80.1       | 91.4       | 102.5      |
| 1000                        | 21.3  | 24.8       | 28.2       | 31.6       | 35.0       | 38.4       | 41.8       | 45.1       | 48.5       | 51.8       | 58.5       | 65.1       | 78.2       | 91.1       | 103.9      | 116.6      |
| 1160                        | 24.4  | 28.3       | 32.3       | 36.2       | 40.1       | 44.0       | 47.9       | 51.7       | 55.6       | 59.4       | 67.0       | 74.6       | 89.6       | 104.5      | 119.1      | 133.6      |
| 1200                        | 25.1  | 29.2       | 33.3       | 37.3       | 41.4       | 45.4       | 49.4       | 53.4       | 57.4       | 61.3       | 69.2       | 77.0       | 92.5       | 107.8      | 122.9      | 137.8      |
| 1400                        | 28.9  | 33.6       | 38.3       | 43.0       | 47.6       | 52.3       | 56.9       | 61.5       | 66.1       | 70.6       | 79.7       | 88.7       | 106.5      | 124.1      | 141.5      | 158.6      |
| 1600                        | 32.5  | 37.9       | 43.2       | 48.5       | 53.8       | 59.0       | 64.3       | 69.4       | 74.6       | 79.8       | 90.1       | 100.2      | 120.4      | 140.2      | 159.7      | 179.0      |
| 1750                        | 35.2  | 41.0       | 46.8       | 52.6       | 58.3       | 64.0       | 69.7       | 75.4       | 81.0       | 86.6       | 97.7       | 108.8      | 130.6      | 152.0      | 173.1      | 193.9      |
| 2000                        | 39.6  | 46.2       | 52.8       | 59.3       | 65.8       | 72.3       | 78.7       | 85.1       | 91.4       | 97.8       | 110.3      | 122.8      | 147.3      | 171.4      | 195.0      | 218.2      |
| 2400                        | 46.6  | 54.4       | 62.2       | 69.9       | 77.6       | 85.2       | 92.8       | 100.3      | 107.8      | 115.2      | 130.0      | 144.6      | 173.4      | 201.4      | 228.8      | 255.4      |
| 2800                        | 53.3  | 62.3       | 71.3       | 80.2       | 89.0       | 97.8       | 106.5      | 115.1      | 123.7      | 132.3      | 149.2      | 165.9      | 198.5      | 230.2      | 260.9      | 290.5      |
| 3200                        | 59.9  | 70.1       | 80.2       | 90.2       | 100.2      | 110.0      | 119.9      | 129.6      | 139.3      | 148.8      | 167.7      | 186.4      | 222.7      | 256.6      | 291.2      |            |
| 3450                        | 64.0  | 74.9       | 85.7       | 96.4       | 107.0      | 117.6      | 128.1      | 138.4      | 148.7      | 158.9      | 179.1      | 198.8      | 237.3      | 274.1      | 309.1      |            |
| 4000                        | 72.7  | 85.1       | 97.5       | 109.6      | 121.8      | 133.7      | 145.6      | 157.4      | 169.0      | 180.5      | 203.1      | 225.3      | 267.9      |            |            |            |
| 4500                        | 80.3  | 94.1       | 107.8      | 121.3      | 134.7      | 147.9      | 161.0      | 173.9      | 186.7      | 199.3      | 224.0      | 248.0      |            |            |            |            |
| 5000                        | 87.8  | 102.9      | 117.9      | 132.7      | 147.3      | 161.7      | 175.9      | 189.9      | 203.7      | 217.3      | 243.8      | 269.4      |            |            |            |            |
| 5500                        | 95.0  | 111.4      | 127.7      | 143.6      | 159.4      | 174.9      | 190.2      | 205.2      | 220.0      | 234.4      | 262.5      |            |            |            |            |            |

Operation in shaded area will result in a reduction of belt life.

|                                  |                               |                                       |  |
|----------------------------------|-------------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SPECIFICATIONS<br>PAGE PT11-4 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|-------------------------------|---------------------------------------|--|



# SELECTION

## HT200 Basic Horsepower Rating

NOTE: Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

| RPM                | Rated Horsepower for Small Sprocket<br>(Number of Teeth and Pitch Diameter, Inches) |             |             |             |             |             |             |             |             |             |             |             |              |              |              |              |              |
|--------------------|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
|                    | 28  | 29          | 30          | 32          | 34          | 36          | 38          | 40          | 44          | 48          | 52          | 56          | 60           | 64           | 68           | 72           | 80           |
| <b>Small Shaft</b> | <b>4.91</b>   | <b>5.09</b> | <b>5.26</b> | <b>5.61</b> | <b>5.97</b> | <b>6.32</b> | <b>6.67</b> | <b>7.02</b> | <b>7.72</b> | <b>8.42</b> | <b>9.12</b> | <b>9.83</b> | <b>10.53</b> | <b>11.23</b> | <b>11.93</b> | <b>12.63</b> | <b>14.04</b> |
| 10                 | 0.6   | 0.6         | 0.6         | 0.7         | 0.7         | 0.7         | 0.8         | 0.8         | 0.9         | 1.0         | 1.1         | 1.2         | 1.3          | 1.4          | 1.5          | 1.6          | 1.7          |
| 20                 | 1.1   | 1.1         | 1.2         | 1.2         | 1.3         | 1.4         | 1.5         | 1.6         | 1.7         | 1.9         | 2.1         | 2.3         | 2.4          | 2.6          | 2.8          | 2.9          | 3.3          |
| 40                 | 2.2   | 2.2         | 2.3         | 2.5         | 2.6         | 2.8         | 2.9         | 3.1         | 3.4         | 3.7         | 4.0         | 4.3         | 4.6          | 5.0          | 5.3          | 5.6          | 6.2          |
| 60                 | 3.2   | 3.4         | 3.5         | 3.7         | 3.9         | 4.2         | 4.4         | 4.6         | 5.1         | 5.6         | 6.0         | 6.5         | 7.0          | 7.4          | 7.9          | 8.4          | 9.3          |
| 100                | 5.4   | 5.6         | 5.8         | 6.2         | 6.6         | 7.0         | 7.4         | 7.7         | 8.5         | 9.3         | 10.0        | 10.8        | 11.6         | 12.4         | 13.1         | 13.9         | 15.5         |
| 200                | 10.1  | 10.5        | 10.9        | 11.8        | 12.7        | 13.5        | 14.4        | 15.3        | 17.0        | 18.5        | 20.1        | 21.6        | 23.2         | 24.7         | 26.3         | 27.8         | 30.9         |
| 300                | 13.6  | 14.2        | 14.8        | 15.9        | 17.2        | 18.3        | 19.6        | 20.8        | 23.2        | 25.7        | 28.3        | 30.9        | 33.5         | 36.1         | 38.8         | 41.5         | 46.3         |
| 400                | 16.9  | 17.6        | 18.3        | 19.8        | 21.3        | 22.7        | 24.2        | 25.8        | 28.8        | 31.9        | 35.0        | 38.3        | 41.5         | 44.8         | 48.1         | 51.4         | 58.2         |
| 500                | 20.0  | 20.8        | 21.7        | 23.4        | 25.1        | 26.9        | 28.6        | 30.4        | 34.01       | 37.7        | 41.4        | 45.2        | 49.0         | 52.8         | 56.7         | 60.6         | 68.6         |
| 600                | 22.9  | 23.9        | 24.8        | 26.8        | 28.8        | 30.8        | 32.8        | 34.8        | 39.0        | 43.1        | 47.4        | 51.7        | 56.1         | 60.4         | 64.9         | 69.3         | 78.4         |
| 700                | 25.7  | 26.8        | 27.8        | 30.0        | 32.3        | 34.5        | 36.8        | 39.1        | 43.7        | 48.3        | 53.1        | 57.9        | 62.8         | 67.7         | 72.6         | 77.6         | 87.7         |
| 800                | 28.4  | 29.6        | 30.7        | 33.2        | 35.7        | 38.1        | 40.6        | 43.1        | 48.2        | 53.3        | 58.5        | 63.9        | 69.2         | 74.6         | 80.0         | 85.4         | 96.4         |
| 870                | 30.2  | 31.5        | 32.7        | 35.3        | 38.0        | 40.6        | 43.2        | 45.9        | 51.3        | 56.7        | 62.2        | 67.9        | 73.5         | 79.2         | 85.0         | 90.6         | 102.3        |
| 1000               | 33.5  | 34.9        | 36.3        | 39.3        | 42.3        | 45.3        | 48.3        | 51.2        | 57.1        | 62.8        | 68.8        | 75.0        | 81.2         | 87.4         | 94.0         | 99.9         | 112.6        |
| 1160               | 37.7  | 39.4        | 41.1        | 44.6        | 48.0        | 51.4        | 54.8        | 58.1        | 64.7        | 71.2        | 77.6        | 84.0        | 90.2         | 96.9         | 103.7        | 110.6        | 124.3        |
| 1200               | 38.7  | 40.6        | 42.3        | 45.9        | 49.4        | 52.9        | 56.4        | 59.8        | 66.6        | 73.3        | 79.9        | 86.4        | 92.8         | 99.2         | 106.1        | 113.1        | 127.1        |
| 1400               | 44.1  | 46.2        | 48.2        | 52.3        | 56.3        | 60.3        | 64.2        | 68.1        | 75.8        | 83.4        | 90.8        | 98.1        | 105.3        | 112.3        | 119.2        | 126.0        | 139.9        |
| 1600               | 49.3  | 51.6        | 53.9        | 58.4        | 62.9        | 67.3        | 71.7        | 76.1        | 84.7        | 93.1        | 101.3       | 109.4       | 117.2        | 125.0        | 132.5        | 139.8        | 154.0        |
| 1750               | 53.1  | 55.5        | 58.0        | 62.9        | 67.7        | 72.5        | 77.2        | 81.9        | 91.1        | 100.1       | 108.9       | 117.4       | 125.8        | 134.0        | 141.9        | 149.6        | 164.3        |
| 2000               | 59.2  | 61.9        | 64.7        | 70.1        | 75.5        | 80.8        | 86.1        | 91.3        | 101.4       | 111.3       | 120.9       | 130.2       | 139.3        | 148.0        | 156.5        |              |              |
| 2400               | 68.5  | 71.7        | 74.9        | 81.2        | 87.3        | 93.4        | 99.4        | 105.3       | 116.8       | 127.9       | 138.6       | 148.8       |              |              |              |              |              |
| 2800               | 77.3  | 80.9        | 84.4        | 91.5        | 98.4        | 105.2       | 111.8       | 118.3       | 130.9       | 142.9       |             |             |              |              |              |              |              |
| 3200               | 85.5  | 89.5        | 93.4        | 101.1       | 108.6       | 116.0       | 123.2       | 130.1       | 143.5       |             |             |             |              |              |              |              |              |
| 3600               | 93.2  | 97.5        | 101.7       | 110.0       | 118.1       | 125.9       | 133.5       |             |             |             |             |             |              |              |              |              |              |
| 4000               | 100.4   | 105.0       | 109.5       | 118.2       | 126.7       | 134.8       |             |             |             |             |             |             |              |              |              |              |              |

| RPM                | Rated Horsepower for Small Sprocket<br>(Number of Teeth and Pitch Diameter, Inches) |             |             |             |             |             |             |             |             |             |             |             |              |              |              |              |              |
|--------------------|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
|                    | 28  | 29          | 30          | 32          | 34          | 36          | 38          | 40          | 44          | 48          | 52          | 56          | 60           | 64           | 68           | 72           | 80           |
| <b>Small Shaft</b> | <b>4.91</b>   | <b>5.09</b> | <b>5.26</b> | <b>5.61</b> | <b>5.97</b> | <b>6.32</b> | <b>6.67</b> | <b>7.02</b> | <b>7.72</b> | <b>8.42</b> | <b>9.12</b> | <b>9.83</b> | <b>10.53</b> | <b>11.23</b> | <b>11.93</b> | <b>12.63</b> | <b>14.04</b> |
| 10                 | 0.8   | 0.9         | 0.9         | 1.0         | 1.0         | 1.1         | 1.2         | 1.3         | 1.4         | 1.5         | 1.7         | 1.8         | 1.9          | 2.1          | 2.2          | 2.3          | 2.6          |
| 20                 | 1.6   | 1.6         | 1.7         | 1.8         | 2.0         | 2.1         | 2.2         | 2.4         | 2.6         | 2.9         | 3.1         | 3.4         | 3.6          | 3.9          | 4.1          | 4.4          | 4.9          |
| 40                 | 3.1   | 3.2         | 3.3         | 3.6         | 3.8         | 4.0         | 4.2         | 4.5         | 4.9         | 5.4         | 5.9         | 6.4         | 6.8          | 7.3          | 7.8          | 8.2          | 9.2          |
| 60                 | 4.7   | 4.8         | 5.0         | 5.3         | 5.7         | 6.0         | 6.4         | 6.7         | 7.4         | 8.0         | 8.7         | 9.4         | 10.0         | 10.7         | 11.4         | 12.0         | 13.4         |
| 100                | 7.8   | 8.1         | 8.3         | 8.9         | 9.5         | 10.0        | 10.6        | 11.1        | 12.3        | 13.4        | 14.5        | 15.6        | 16.7         | 17.8         | 18.9         | 20.0         | 22.3         |
| 200                | 14.5  | 15.1        | 15.7        | 17.0        | 18.2        | 19.5        | 20.8        | 22.1        | 24.5        | 26.7        | 28.9        | 31.2        | 33.4         | 35.6         | 37.8         | 40.1         | 44.5         |
| 300                | 19.6  | 20.5        | 21.3        | 23.0        | 24.7        | 26.4        | 28.2        | 29.9        | 33.5        | 37.1        | 40.7        | 44.5        | 48.2         | 52.0         | 55.9         | 59.7         | 66.7         |
| 400                | 24.3  | 25.4        | 26.4        | 28.4        | 30.6        | 32.8        | 34.9        | 37.1        | 41.5        | 46.0        | 50.5        | 55.4        | 59.8         | 64.5         | 69.2         | 74.0         | 83.8         |
| 500                | 28.8  | 30.0        | 31.2        | 33.7        | 36.2        | 38.7        | 41.3        | 43.8        | 49.0        | 54.3        | 59.6        | 65.1        | 70.6         | 76.1         | 81.7         | 87.3         | 98.9         |
| 600                | 33.0  | 34.4        | 35.8        | 38.6        | 41.5        | 44.4        | 47.3        | 50.2        | 56.2        | 62.2        | 68.3        | 74.5        | 80.8         | 87.1         | 93.5         | 99.9         | 113.0        |
| 700                | 37.0  | 38.6        | 40.1        | 43.3        | 46.5        | 49.8        | 53.0        | 56.3        | 62.9        | 69.7        | 76.5        | 83.5        | 90.5         | 97.5         | 104.6        | 111.8        | 126.4        |
| 800                | 41.2  | 43.1        | 45.0        | 48.7        | 52.4        | 56.1        | 59.8        | 63.5        | 70.7        | 77.8        | 84.8        | 92.1        | 99.7         | 107.5        | 115.2        | 123.1        | 139.0        |
| 870                | 44.2  | 46.3        | 48.3        | 52.4        | 56.4        | 60.3        | 64.3        | 68.2        | 76.0        | 83.6        | 91.2        | 98.7        | 106.0        | 114.2        | 122.4        | 130.7        | 147.5        |
| 1000               | 49.8  | 52.1        | 54.4        | 59.0        | 63.5        | 68.0        | 72.4        | 76.9        | 85.6        | 94.2        | 102.7       | 111.1       | 119.4        | 127.6        | 135.6        | 144.1        | 162.5        |
| 1160               | 56.5  | 59.1        | 61.7        | 66.9        | 72.0        | 77.1        | 82.2        | 87.2        | 97.1        | 106.9       | 116.5       | 125.9       | 135.3        | 144.5        | 153.5        | 162.4        | 179.8        |
| 1200               | 58.1  | 60.8        | 63.5        | 68.8        | 74.1        | 79.4        | 84.6        | 89.7        | 99.9        | 110.0       | 119.8       | 129.6       | 139.1        | 148.6        | 157.8        | 167.0        | 184.8        |
| 1400               | 66.1  | 69.2        | 72.3        | 78.4        | 84.4        | 90.4        | 96.3        | 102.2       | 113.7       | 125.1       | 136.2       | 147.2       | 158.0        | 168.5        | 178.9        | 189.0        | 208.7        |
| 1600               | 73.9  | 77.4        | 80.8        | 87.6        | 94.3        | 101.0       | 107.6       | 114.2       | 127.0       | 139.6       | 152.0       | 164.0       | 175.9        | 187.4        | 198.7        | 209.7        | 231.0        |
| 1750               | 79.6  | 83.3        | 87.0        | 94.3        | 101.6       | 108.8       | 115.9       | 122.9       | 136.7       | 150.1       | 163.3       | 176.2       | 188.7        | 200.9        | 212.8        | 224.4        | 246.5        |
| 2000               | 88.7  | 92.9        | 97.0        | 105.2       | 113.3       | 121.3       | 129.1       | 136.9       | 152.1       | 166.9       | 181.3       | 195.3       | 208.9        |              |              |              |              |
| 2400               | 102.7   | 107.5       | 112.3       | 121.7       | 131.0       | 140.2       | 149.1       | 158.0       | 175.2       | 191.9       | 207.9       | 223.3       |              |              |              |              |              |
| 2800               | 115.9   | 121.3       | 126.7       | 137.2       | 147.6       | 157.7       | 167.7       | 177.5       | 196.3       | 214.3       |             |             |              |              |              |              |              |
| 3200               | 128.3   | 134.2       | 140.1       | 151.7       | 163.0       | 174.0       | 184.7       | 195.2       | 215.3       |             |             |             |              |              |              |              |              |
| 3600               | 139.8   | 146.3       | 152.6       | 165.0       | 177.1       | 188.8       | 200.2       |             |             |             |             |             |              |              |              |              |              |
| 4000               | 150.6   | 157.5       | 164.2       | 177.3       | 190.0       | 202.2       |             |             |             |             |             |             |              |              |              |              |              |

Operation in shaded area will result in a reduction of belt life

|                                  |                               |                                       |  |
|----------------------------------|-------------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SPECIFICATIONS<br>PAGE PT11-4 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|-------------------------------|---------------------------------------|--|

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets

# SELECTION



## HT200 Basic Horsepower Rating

| 14M-85 | Rated Horsepower for Small Sprocket<br>(Number of Teeth and Pitch Diameter, Inches) |            |            |            |            |            |            |            |            |            |            |            |            |             |             |             |             |
|--------|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|
|        | RPM<br>Small Shaft  | 28<br>4.91 | 29<br>5.09 | 30<br>5.26 | 32<br>5.61 | 34<br>5.97 | 36<br>6.32 | 38<br>6.67 | 40<br>7.02 | 44<br>7.72 | 48<br>8.42 | 52<br>9.12 | 56<br>9.82 | 60<br>10.53 | 64<br>11.23 | 68<br>11.93 | 72<br>12.63 |
| 10     | 1.4   | 1.5        | 1.5        | 1.6        | 1.7        | 1.9        | 2.0        | 2.1        | 2.3        | 2.5        | 2.8        | 3.0        | 3.2        | 3.4         | 3.6         | 3.9         | 4.3         |
| 20     | 2.6   | 2.7        | 2.8        | 3.1        | 3.3        | 3.5        | 3.7        | 3.9        | 4.4        | 4.8        | 5.2        | 5.6        | 6.1        | 6.5         | 6.9         | 7.3         | 8.1         |
| 40     | 4.9   | 5.1        | 5.3        | 5.7        | 6.1        | 6.6        | 7.0        | 7.4        | 8.2        | 9.0        | 9.8        | 10.6       | 11.4       | 12.2        | 13.0        | 13.7        | 15.3        |
| 60     | 7.0   | 7.3        | 7.6        | 8.3        | 8.9        | 9.5        | 10.0       | 10.6       | 11.8       | 13.0       | 14.1       | 15.3       | 16.4       | 17.6        | 18.7        | 19.8        | 22.1        |
| 100    | 11.1  | 11.6       | 12.1       | 13.0       | 14.0       | 15.0       | 15.9       | 16.8       | 18.7       | 20.6       | 22.4       | 24.3       | 26.1       | 27.9        | 29.7        | 31.5        | 35.0        |
| 200    | 20.5  | 21.5       | 22.4       | 24.2       | 26.0       | 27.8       | 29.5       | 31.3       | 34.8       | 38.3       | 41.7       | 45.2       | 48.6       | 51.9        | 55.3        | 58.6        | 65.2        |
| 300    | 29.3  | 30.7       | 32.0       | 34.6       | 37.2       | 39.7       | 42.3       | 44.8       | 49.9       | 54.9       | 59.9       | 64.8       | 69.7       | 74.5        | 79.3        | 84.1        | 93.6        |
| 400    | 37.7  | 39.4       | 41.1       | 44.5       | 47.8       | 51.2       | 54.5       | 57.8       | 64.3       | 70.8       | 77.2       | 83.6       | 89.9       | 96.1        | 102.3       | 108.5       | 120.7       |
| 500    | 45.8  | 47.9       | 49.9       | 54.1       | 58.2       | 62.2       | 66.3       | 70.3       | 78.3       | 86.1       | 93.9       | 101.7      | 109.3      | 116.9       | 124.5       | 131.9       | 146.7       |
| 600    | 53.6  | 56.1       | 58.5       | 63.3       | 68.2       | 72.9       | 77.7       | 82.4       | 91.8       | 101.0      | 110.2      | 119.2      | 128.2      | 137.1       | 145.9       | 154.7       | 171.9       |
| 800    | 68.6  | 71.8       | 74.9       | 81.2       | 87.4       | 93.6       | 99.7       | 105.8      | 117.8      | 129.6      | 141.4      | 153.0      | 164.5      | 175.8       | 187.1       | 198.2       | 220.1       |
| 870    | 73.7  | 77.2       | 80.5       | 87.3       | 93.9       | 100.6      | 107.1      | 113.7      | 126.6      | 139.4      | 152.0      | 164.4      | 176.7      | 188.9       | 200.9       | 212.8       | 236.2       |
| 1000   | 83.0  | 86.9       | 90.7       | 98.3       | 105.8      | 113.3      | 120.7      | 128.1      | 142.7      | 157.0      | 171.2      | 185.2      | 199.0      | 212.6       | 226.1       | 239.3       | 265.4       |
| 1160   | 94.1  | 98.5       | 102.9      | 111.5      | 120.1      | 128.6      | 137.0      | 145.3      | 161.9      | 178.1      | 194.1      | 209.9      | 225.4      | 240.8       | 255.8       | 270.7       | 299.7       |
| 1200   | 96.9  | 101.4      | 105.8      | 114.7      | 123.6      | 132.3      | 141.0      | 149.6      | 166.6      | 183.3      | 199.7      | 215.9      | 231.9      | 247.6       | 263.1       | 278.3       | 308.0       |
| 1400   | 110.2   | 115.4      | 120.5      | 130.6      | 140.7      | 150.6      | 160.5      | 170.3      | 189.6      | 208.5      | 227.1      | 245.3      | 263.3      | 280.9       | 298.1       | 315.1       | 347.9       |
| 1600   | 123.2   | 129.0      | 134.7      | 146.0      | 157.2      | 168.4      | 179.4      | 190.3      | 211.7      | 232.7      | 253.3      | 273.4      | 293.1      | 312.4       | 331.2       | 349.6       | 385.0       |
| 1750   | 132.6   | 138.8      | 145.0      | 157.2      | 169.3      | 181.3      | 193.1      | 204.8      | 227.8      | 250.2      | 272.2      | 293.6      | 314.5      | 334.9       | 354.7       | 374.0       | 410.8       |
| 2000   | 147.9   | 154.9      | 161.7      | 175.3      | 188.8      | 202.1      | 215.2      | 228.1      | 253.5      | 278.2      | 302.2      | 325.6      | 348.2      | 370.1       | 391.2       |             |             |
| 2400   | 171.2   | 179.2      | 187.2      | 202.9      | 218.4      | 233.6      | 248.6      | 263.3      | 292.1      | 319.8      | 346.5      | 372.1      |            |             |             |             |             |
| 2800   | 193.2   | 202.2      | 211.1      | 228.7      | 246.0      | 262.9      | 279.5      | 295.8      | 327.2      | 357.2      |            |            |            |             |             |             |             |
| 3200   | 213.8   | 223.7      | 233.5      | 252.8      | 271.6      | 290.0      | 307.9      | 325.4      | 358.8      |            |            |            |            |             |             |             |             |
| 3600   | 233.1   | 243.8      | 254.4      | 275.1      | 295.2      | 314.7      | 333.7      |            |            |            |            |            |            |             |             |             |             |
| 4000   | 251.0   | 262.4      | 273.6      | 295.5      | 316.7      | 337.1      |            |            |            |            |            |            |            |             |             |             |             |

| 14M-115 | Rated Horsepower for Small Sprocket<br>(Number of Teeth and Pitch Diameter, Inches) |            |            |            |            |            |            |            |            |            |            |            |            |             |             |             |             |
|---------|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|
|         | RPM<br>Small Shaft  | 28<br>4.91 | 29<br>5.09 | 30<br>5.26 | 32<br>5.61 | 34<br>5.97 | 36<br>6.32 | 38<br>6.67 | 40<br>7.02 | 44<br>7.72 | 48<br>8.42 | 52<br>9.12 | 56<br>9.82 | 60<br>10.53 | 64<br>11.23 | 68<br>11.93 | 72<br>12.63 |
| 10      | 1.9   | 2.0        | 2.1        | 2.3        | 2.4        | 2.6        | 2.8        | 2.9        | 3.2        | 3.6        | 3.9        | 4.2        | 4.5        | 4.8         | 5.1         | 5.4         | 6.0         |
| 20      | 3.7   | 3.8        | 4.0        | 4.3        | 4.6        | 4.9        | 5.2        | 5.5        | 6.1        | 6.7        | 7.3        | 7.9        | 8.5        | 9.1         | 9.6         | 10.2        | 11.4        |
| 40      | 6.8   | 7.1        | 7.4        | 8.0        | 8.6        | 9.2        | 9.8        | 10.3       | 11.5       | 12.6       | 13.7       | 14.8       | 15.9       | 17.0        | 18.1        | 19.2        | 21.4        |
| 60      | 9.9   | 10.3       | 10.7       | 11.5       | 12.4       | 13.2       | 14.1       | 14.9       | 16.5       | 18.2       | 19.8       | 21.4       | 23.0       | 24.6        | 26.2        | 27.8        | 30.9        |
| 100     | 15.5  | 16.2       | 16.9       | 18.3       | 19.6       | 20.9       | 22.3       | 23.6       | 26.2       | 28.8       | 31.4       | 34.0       | 36.5       | 39.1        | 41.6        | 44.1        | 49.0        |
| 200     | 28.8  | 30.0       | 31.3       | 33.8       | 36.4       | 38.9       | 41.3       | 43.8       | 48.7       | 53.6       | 58.4       | 63.2       | 68.0       | 72.7        | 77.4        | 82.1        | 91.3        |
| 300     | 41.1  | 42.9       | 44.7       | 48.4       | 52.0       | 55.6       | 59.2       | 62.8       | 69.9       | 76.9       | 83.8       | 90.7       | 97.5       | 104.3       | 111.1       | 117.8       | 131.0       |
| 400     | 52.8  | 55.2       | 57.6       | 62.3       | 67.0       | 71.7       | 76.3       | 80.9       | 90.1       | 99.1       | 108.1      | 117.0      | 125.8      | 134.6       | 143.2       | 151.8       | 168.9       |
| 500     | 64.1  | 67.0       | 69.9       | 75.7       | 81.4       | 87.1       | 92.8       | 98.4       | 109.6      | 120.6      | 131.5      | 142.3      | 153.1      | 163.7       | 174.2       | 184.7       | 205.4       |
| 600     | 75.1  | 78.5       | 81.9       | 88.7       | 95.4       | 102.1      | 108.8      | 115.4      | 128.5      | 141.4      | 154.2      | 166.9      | 179.5      | 192.0       | 204.3       | 216.5       | 240.7       |
| 800     | 96.1  | 100.5      | 104.9      | 113.7      | 122.4      | 131.0      | 139.5      | 148.1      | 164.9      | 181.5      | 197.9      | 214.2      | 230.3      | 246.2       | 261.9       | 277.4       | 308.1       |
| 870     | 103.2   | 108.0      | 112.7      | 122.2      | 131.5      | 140.8      | 150.0      | 159.1      | 177.3      | 195.1      | 212.8      | 230.2      | 247.4      | 264.5       | 281.3       | 298.0       | 330.7       |
| 1000    | 116.2   | 121.6      | 127.0      | 137.6      | 148.2      | 158.6      | 169.0      | 179.3      | 199.7      | 219.8      | 239.7      | 259.2      | 278.6      | 297.7       | 316.5       | 335.1       | 371.6       |
| 1160    | 131.8   | 137.9      | 144.0      | 156.1      | 168.1      | 180.0      | 191.8      | 203.5      | 226.6      | 249.3      | 271.8      | 293.8      | 315.6      | 337.1       | 358.1       | 379.0       | 419.6       |
| 1200    | 135.6   | 141.9      | 148.2      | 160.6      | 173.0      | 185.2      | 197.4      | 209.4      | 233.2      | 256.6      | 279.6      | 302.3      | 324.7      | 346.7       | 368.3       | 389.6       | 431.2       |
| 1400    | 154.3   | 161.5      | 168.7      | 182.9      | 197.0      | 210.9      | 224.7      | 238.4      | 265.4      | 291.9      | 317.9      | 343.5      | 368.6      | 393.2       | 417.4       | 441.1       | 487.1       |
| 1600    | 172.5   | 180.5      | 188.5      | 204.4      | 220.1      | 235.7      | 251.1      | 266.4      | 296.4      | 325.8      | 354.6      | 382.8      | 410.4      | 437.4       | 463.7       | 489.4       | 538.9       |
| 1750    | 185.7   | 194.4      | 203.0      | 220.1      | 237.0      | 253.8      | 270.3      | 286.7      | 318.9      | 350.3      | 381.0      | 411.0      | 440.3      | 468.8       | 496.6       | 523.5       | 575.1       |
| 2000    | 207.1   | 216.8      | 226.4      | 245.5      | 264.3      | 282.9      | 301.3      | 319.4      | 354.9      | 389.5      | 423.1      | 455.8      | 487.4      | 518.1       | 547.7       |             |             |
| 2400    | 239.7   | 250.9      | 262.0      | 284.0      | 305.7      | 327.0      | 348.0      | 368.7      | 408.9      | 447.7      | 485.1      | 521.0      |            |             |             |             |             |
| 2800    | 270.4   | 283.1      | 295.5      | 320.2      | 344.4      | 368.1      | 391.3      | 414.1      | 458.1      | 500.1      |            |            |            |             |             |             |             |
| 3200    | 299.3   | 313.2      | 326.9      | 353.9      | 380.2      | 406.0      | 431.1      | 455.5      | 502.4      |            |            |            |            |             |             |             |             |
| 3600    | 326.3   | 341.3      | 356.1      | 385.1      | 413.3      | 440.6      | 467.1      |            |            |            |            |            |            |             |             |             |             |
| 4000    | 351.4   | 367.4      | 383.1      | 413.7      | 443.3      | 471.9      |            |            |            |            |            |            |            |             |             |             |             |

Operation in shaded area will result in a reduction of belt life.

|                                  |                               |                                       |  |
|----------------------------------|-------------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SPECIFICATIONS<br>PAGE PT11-4 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|-------------------------------|---------------------------------------|--|



# SELECTION

## HT200 Basic Horsepower Rating

NOTE: Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

| 14M-170 | Rated Horsepower for Small Sprocket<br>(Number of Teeth and Pitch Diameter, Inches) |            |            |            |            |            |            |            |            |            |            |            |            |             |             |             |             |
|---------|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|
|         | RPM<br>Small Shaft  | 28<br>4.91 | 29<br>5.09 | 30<br>5.26 | 32<br>5.61 | 34<br>5.97 | 36<br>6.32 | 38<br>6.67 | 40<br>7.02 | 44<br>7.72 | 48<br>8.42 | 52<br>9.12 | 56<br>9.82 | 60<br>10.53 | 64<br>11.23 | 68<br>11.93 | 72<br>12.63 |
| 10      | 3.0   | 3.1        | 3.2        | 3.5        | 3.7        | 3.9        | 4.2        | 4.4        | 4.9        | 5.4        | 5.9        | 6.4        | 6.8        | 7.3         | 7.8         | 8.2         | 9.2         |
| 20      | 5.6   | 5.8        | 6.0        | 6.5        | 7.0        | 7.4        | 7.9        | 8.4        | 9.3        | 10.2       | 11.1       | 12.0       | 12.9       | 13.8        | 14.6        | 15.5        | 17.3        |
| 40      | 10.4  | 10.8       | 11.3       | 12.2       | 13.1       | 13.9       | 14.8       | 15.7       | 17.4       | 19.1       | 20.8       | 22.5       | 24.2       | 25.9        | 27.6        | 29.2        | 32.5        |
| 60      | 15.0  | 15.6       | 16.3       | 17.6       | 18.8       | 20.1       | 21.4       | 22.6       | 25.1       | 27.6       | 30.1       | 32.6       | 35.0       | 37.4        | 39.8        | 42.2        | 47.0        |
| 100     | 23.6  | 24.7       | 25.7       | 27.8       | 29.8       | 31.8       | 33.8       | 35.9       | 39.8       | 43.8       | 47.7       | 51.6       | 55.5       | 59.4        | 63.2        | 67.0        | 74.5        |
| 200     | 43.7  | 45.6       | 47.6       | 51.4       | 55.3       | 59.1       | 62.8       | 66.6       | 74.1       | 81.5       | 88.8       | 96.1       | 103.4      | 110.5       | 117.7       | 124.8       | 138.8       |
| 300     | 62.4  | 65.2       | 68.0       | 73.6       | 79.1       | 84.6       | 90.0       | 95.4       | 106.2      | 116.8      | 127.4      | 137.9      | 148.3      | 158.6       | 168.8       | 179.0       | 199.1       |
| 400     | 80.3  | 83.9       | 87.5       | 94.7       | 101.8      | 108.9      | 116.0      | 123.0      | 136.9      | 150.6      | 164.3      | 177.8      | 191.2      | 204.5       | 217.7       | 230.8       | 256.8       |
| 500     | 97.4  | 101.9      | 106.3      | 115.0      | 123.8      | 132.4      | 141.0      | 149.6      | 166.5      | 183.3      | 199.9      | 216.3      | 232.7      | 248.8       | 264.8       | 280.8       | 312.2       |
| 600     | 114.1   | 119.3      | 124.5      | 134.8      | 145.0      | 155.2      | 165.3      | 175.4      | 195.3      | 214.9      | 234.4      | 253.7      | 272.8      | 291.8       | 310.5       | 329.1       | 365.9       |
| 800     | 146.1   | 152.8      | 159.5      | 172.8      | 186.0      | 199.1      | 212.1      | 225.0      | 250.6      | 275.9      | 300.9      | 325.6      | 350.0      | 374.2       | 398.0       | 421.7       | 468.3       |
| 870     | 156.9   | 164.2      | 171.4      | 185.7      | 199.9      | 214.0      | 228.0      | 241.9      | 269.4      | 296.6      | 323.4      | 349.9      | 376.1      | 402.0       | 427.6       | 452.9       | 502.7       |
| 1000    | 176.7   | 184.9      | 193.0      | 209.2      | 225.2      | 241.1      | 256.9      | 272.6      | 303.6      | 334.1      | 364.3      | 394.1      | 423.4      | 452.4       | 481.0       | 509.3       | 564.8       |
| 1160    | 200.3   | 209.7      | 218.9      | 237.3      | 255.5      | 273.6      | 291.5      | 309.3      | 344.4      | 379.0      | 413.1      | 446.7      | 479.7      | 512.3       | 544.4       | 576.0       | 637.8       |
| 1200    | 206.1   | 215.7      | 225.2      | 244.2      | 262.9      | 281.6      | 300.0      | 318.3      | 354.4      | 390.0      | 425.0      | 459.5      | 493.5      | 526.9       | 559.8       | 592.2       | 655.5       |
| 1400    | 234.6   | 245.5      | 256.4      | 278.0      | 299.4      | 320.6      | 341.6      | 362.4      | 403.4      | 443.6      | 483.2      | 522.1      | 560.2      | 597.7       | 634.4       | 670.4       | 740.4       |
| 1600    | 262.1   | 274.4      | 286.6      | 310.7      | 334.6      | 358.3      | 381.7      | 404.9      | 450.5      | 495.2      | 539.0      | 581.8      | 623.8      | 664.8       | 704.8       | 743.9       | 819.2       |
| 1750    | 282.2   | 295.5      | 308.6      | 334.6      | 360.3      | 385.8      | 410.9      | 435.8      | 484.7      | 532.5      | 579.2      | 624.8      | 669.3      | 712.6       | 754.8       | 795.8       | 874.2       |
| 2000    | 314.7   | 329.5      | 344.1      | 373.1      | 401.8      | 430.0      | 457.9      | 485.5      | 539.5      | 592.0      | 643.1      | 692.8      | 740.9      | 787.5       | 832.4       |             |             |
| 2400    | 364.3   | 381.4      | 398.3      | 431.7      | 464.7      | 497.1      | 529.0      | 560.3      | 621.5      | 680.5      | 737.3      | 791.9      |            |             |             |             |             |
| 2800    | 411.0   | 430.3      | 449.2      | 486.7      | 523.4      | 559.5      | 594.8      | 629.4      | 696.3      | 760.1      |            |            |            |             |             |             |             |
| 3200    | 454.9   | 476.1      | 496.9      | 537.9      | 578.0      | 617.1      | 655.2      | 692.4      | 763.6      |            |            |            |            |             |             |             |             |
| 3600    | 496.0   | 518.8      | 541.3      | 585.3      | 628.2      | 669.7      | 710.0      |            |            |            |            |            |            |             |             |             |             |
| 4000    | 534.2   | 558.5      | 582.3      | 628.9      | 673.9      | 717.3      |            |            |            |            |            |            |            |             |             |             |             |

Operation in shaded area will result in a reduction of belt life.

# SELECTION



## HT100 Basic Horsepower Rating

NOTE: Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

| 5M-15 | Rated Horsepower for Small Sprocket<br>(Number of Grooves and Pitch Diameter, Inches) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|       | RPM   | 32   | 34   | 36   | 38   | 40   | 44   | 45   | 48   | 50   | 52   | 56   | 60   | 64   | 68   |
|       | Small Shaft   | 2.0  | 2.1  | 2.3  | 2.38 | 2.5  | 2.8  | 2.8  | 3.0  | 3.1  | 3.3  | 3.5  | 3.8  | 4.0  | 4.2  |
| 10    | 0.03  | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  |
| 20    | 0.1   | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  |
| 40    | 0.1   | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.3  |
| 60    | 0.2   | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.4  | 0.4  |
| 100   | 0.2   | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.4  | 0.4  | 0.4  | 0.4  | 0.4  | 0.5  | 0.5  | 0.6  | 0.6  |
| 200   | 0.4   | 0.5  | 0.5  | 0.6  | 0.6  | 0.7  | 0.7  | 0.7  | 0.8  | 0.8  | 0.8  | 0.6  | 1.0  | 1.0  | 1.1  |
| 300   | 0.6   | 0.7  | 0.8  | 0.8  | 0.9  | 1.0  | 1.0  | 1.1  | 1.1  | 1.2  | 1.3  | 1.4  | 1.5  | 1.6  | 1.6  |
| 400   | 0.8   | 0.9  | 1.0  | 1.0  | 1.1  | 1.3  | 1.3  | 1.4  | 1.5  | 1.5  | 1.7  | 1.8  | 1.9  | 2.1  | 2.1  |
| 500   | 1.0   | 1.1  | 1.2  | 1.3  | 1.4  | 1.5  | 1.6  | 1.7  | 1.8  | 1.9  | 2.0  | 2.2  | 2.2  | 2.4  | 2.5  |
| 600   | 1.2   | 1.3  | 1.4  | 1.5  | 1.6  | 1.8  | 1.8  | 2.0  | 2.1  | 2.2  | 2.4  | 2.6  | 2.8  | 3.0  | 3.0  |
| 800   | 1.5   | 1.6  | 1.8  | 1.9  | 2.1  | 2.3  | 2.4  | 2.6  | 2.7  | 2.8  | 3.1  | 3.4  | 3.6  | 3.9  | 3.9  |
| 1000  | 1.8   | 2.0  | 2.2  | 2.3  | 2.5  | 2.8  | 2.9  | 3.1  | 3.3  | 3.5  | 3.8  | 4.1  | 4.4  | 4.7  | 4.7  |
| 1200  | 2.1   | 2.3  | 2.5  | 2.7  | 2.9  | 3.3  | 3.4  | 3.7  | 3.9  | 4.1  | 4.4  | 4.8  | 5.2  | 5.6  | 5.6  |
| 1400  | 2.4   | 2.7  | 2.9  | 3.1  | 3.3  | 3.8  | 3.9  | 4.2  | 4.4  | 4.7  | 5.1  | 5.5  | 5.9  | 6.3  | 6.3  |
| 1600  | 2.7   | 3.0  | 3.3  | 3.5  | 3.8  | 4.3  | 4.4  | 4.7  | 5.0  | 5.2  | 5.7  | 6.2  | 6.7  | 7.1  | 7.1  |
| 1800  | 3.0   | 3.3  | 3.6  | 3.9  | 4.2  | 4.7  | 4.8  | 5.3  | 5.5  | 5.8  | 6.3  | 6.9  | 7.4  | 7.9  | 7.9  |
| 2000  | 3.3   | 3.6  | 3.9  | 4.2  | 4.6  | 5.2  | 5.3  | 5.8  | 6.1  | 6.3  | 6.9  | 7.5  | 8.1  | 8.6  | 8.6  |
| 2400  | 3.9   | 4.2  | 4.6  | 5.0  | 5.3  | 6.0  | 6.2  | 6.7  | 7.1  | 7.4  | 8.1  | 8.8  | 9.4  | 10.1 | 10.1 |
| 2800  | 4.4   | 4.8  | 5.2  | 5.6  | 6.0  | 6.9  | 7.1  | 7.6  | 8.0  | 8.4  | 9.2  | 10.0 | 10.7 | 11.4 | 11.4 |
| 3200  | 4.9   | 5.4  | 5.8  | 6.3  | 6.6  | 7.7  | 7.9  | 8.5  | 9.0  | 9.4  | 10.2 | 11.1 | 11.9 | 12.7 | 12.7 |
| 3600  | 5.4   | 5.9  | 6.4  | 6.9  | 7.4  | 8.4  | 8.7  | 9.4  | 10.0 | 10.3 | 11.3 | 12.2 | 13.0 | 13.9 | 13.9 |
| 4000  | 5.9   | 6.4  | 7.0  | 7.5  | 8.1  | 9.2  | 9.4  | 10.2 | 10.7 | 11.2 | 12.2 | 13.2 | 14.1 | 15.0 | 15.0 |
| 5000  | 7.0   | 7.7  | 8.3  | 9.0  | 9.6  | 10.9 | 11.2 | 12.1 | 12.6 | 13.2 | 14.3 | 15.4 | 16.4 | 17.4 | 17.4 |
| 6000  | 8.0   | 8.8  | 9.5  | 10.2 | 11.0 | 12.3 | 12.7 | 13.7 | 14.3 | 14.9 | 16.1 | 17.1 | 18.1 |      |      |
| 8000  | 9.7   | 10.6 | 11.5 | 12.3 | 13.1 | 14.6 | 14.9 | 15.9 | 16.6 |      |      |      |      |      |      |
| 10000 | 10.9  | 11.8 | 12.7 | 13.6 | 14.4 |      |      |      |      |      |      |      |      |      |      |
| 12000 | 11.5  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 14000 |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

| 5M-25 | Rated Horsepower for Small Sprocket<br>(Number of Grooves and Pitch Diameter, Inches) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|       | RPM   | 32   | 34   | 36   | 38   | 40   | 44   | 45   | 48   | 50   | 52   | 56   | 60   | 64   | 68   |
|       | Small Shaft   | 2.0  | 2.1  | 2.3  | 2.38 | 2.5  | 2.8  | 2.8  | 3.0  | 3.1  | 3.3  | 3.5  | 3.8  | 4.0  | 4.2  |
| 10    | 0.1   | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  |
| 20    | 0.1   | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.22 |
| 40    | 0.2   | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.3  | 0.3  | 0.3  | 0.3  | 0.4  | 0.4  | 0.4  | 0.4  | 0.42 |
| 60    | 0.3   | 0.3  | 0.3  | 0.3  | 0.3  | 0.4  | 0.4  | 0.4  | 0.4  | 0.5  | 0.5  | 0.5  | 0.6  | 0.6  | 0.62 |
| 100   | 0.4   | 0.4  | 0.5  | 0.5  | 0.5  | 0.6  | 0.6  | 0.7  | 0.7  | 0.7  | 0.8  | 0.9  | 0.9  | 0.9  | 0.98 |
| 200   | 0.7   | 0.8  | 0.9  | 0.9  | 1.0  | 1.1  | 1.2  | 1.2  | 1.3  | 1.4  | 1.5  | 1.6  | 1.7  | 1.85 | 1.85 |
| 300   | 1.1   | 1.2  | 1.2  | 1.3  | 1.4  | 1.6  | 1.7  | 1.8  | 1.9  | 2.0  | 2.2  | 2.3  | 2.5  | 2.67 | 2.67 |
| 400   | 1.4   | 1.5  | 1.6  | 1.7  | 1.8  | 2.1  | 2.1  | 2.3  | 2.4  | 2.6  | 2.8  | 3.0  | 3.2  | 3.47 | 3.47 |
| 500   | 1.7   | 1.8  | 2.0  | 2.1  | 2.3  | 2.5  | 2.6  | 2.8  | 3.0  | 3.1  | 3.4  | 3.7  | 4.0  | 4.24 | 4.24 |
| 600   | 2.0   | 2.1  | 2.3  | 2.5  | 2.6  | 3.0  | 3.1  | 3.3  | 3.5  | 3.7  | 4.0  | 4.3  | 4.7  | 4.99 | 4.99 |
| 800   | 2.5   | 2.7  | 3.0  | 3.2  | 3.4  | 3.9  | 4.0  | 4.3  | 4.5  | 4.7  | 5.2  | 5.6  | 6.0  | 6.46 | 6.46 |
| 1000  | 3.0   | 3.3  | 3.6  | 3.9  | 4.2  | 4.7  | 4.8  | 5.2  | 5.5  | 5.8  | 6.3  | 6.8  | 7.35 | 7.87 | 7.87 |
| 1200  | 3.6   | 3.9  | 4.2  | 4.6  | 4.9  | 5.5  | 5.7  | 6.2  | 6.5  | 6.8  | 7.4  | 8.0  | 8.64 | 9.25 | 9.25 |
| 1400  | 4.1   | 4.5  | 4.8  | 5.2  | 5.6  | 6.3  | 6.5  | 7.0  | 7.4  | 7.8  | 8.48 | 9.2  | 9.89 | 10.6 | 10.6 |
| 1600  | 4.6   | 5.0  | 5.4  | 5.8  | 6.3  | 7.9  | 7.3  | 7.9  | 8.3  | 8.7  | 9.5  | 10.3 | 11.1 | 11.9 | 11.9 |
| 1800  | 5.1   | 5.5  | 6.0  | 6.5  | 6.9  | 7.8  | 8.1  | 8.8  | 9.2  | 10.0 | 10.5 | 11.4 | 12.3 | 13.2 | 13.2 |
| 2000  | 5.5   | 6.0  | 6.6  | 7.1  | 7.6  | 8.6  | 8.8  | 9.6  | 10.0 | 10.6 | 11.5 | 12.5 | 13.5 | 14.4 | 14.4 |
| 2400  | 6.4   | 7.0  | 7.7  | 8.3  | 8.9  | 10.0 | 10.3 | 11.2 | 11.8 | 12.3 | 13.5 | 14.6 | 15.7 | 16.8 | 16.8 |
| 2800  | 7.3   | 8.0  | 8.7  | 9.4  | 10.1 | 11.4 | 11.8 | 12.7 | 13.4 | 14.0 | 15.3 | 16.6 | 17.8 | 19.0 | 19.0 |
| 3200  | 8.2   | 9.0  | 9.7  | 10.5 | 11.3 | 12.8 | 13.1 | 14.2 | 14.9 | 15.7 | 17.1 | 18.5 | 19.8 | 21.2 | 21.2 |
| 3600  | 9.0   | 10.0 | 10.7 | 11.6 | 12.4 | 14.0 | 14.4 | 15.6 | 16.4 | 17.2 | 18.8 | 20.3 | 21.7 | 23.1 | 23.1 |
| 4000  | 10.0  | 10.7 | 11.7 | 12.6 | 13.5 | 15.3 | 15.7 | 17.0 | 17.9 | 18.7 | 20.3 | 21.9 | 23.5 | 25.0 | 25.0 |
| 5000  | 11.6  | 12.8 | 13.9 | 15.0 | 16.0 | 18.1 | 18.6 | 20.1 | 21.1 | 22.0 | 23.9 | 25.7 | 27.3 | 28.9 | 28.9 |
| 6000  | 13.3  | 14.6 | 15.9 | 17.1 | 18.3 | 20.6 | 21.1 | 22.8 | 23.8 | 24.8 | 26.8 | 28.6 | 30.2 |      |      |
| 8000  | 16.1  | 17.6 | 19.1 | 20.5 | 21.8 | 24.3 | 24.9 | 26.6 | 27.6 |      |      |      |      |      |      |
| 10000 | 18.2  | 19.7 | 21.2 | 22.6 | 23.9 |      |      |      |      |      |      |      |      |      |      |
| 12000 | 19.2  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 14000 |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

Shaded area indicates sprocket and RPM which can be used only if a reduction in belt life is allowable.

|                                  |                               |                                       |  |
|----------------------------------|-------------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SPECIFICATIONS<br>PAGE PT11-4 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|-------------------------------|---------------------------------------|--|





# SELECTION

## HT100 Basic Horsepower Rating

NOTE: Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

| 8M-20       |  | HT100 Horsepower Rating—20MM Wide Belt (.79 in.) |      |      |      |      |      |      |       |      |       |       |       |       |       |       |       |
|-------------|--|--|------|------|------|------|------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| RPM         |  | No. Teeth  |      |      |      |      |      |      |       |      |       |       |       |       |       |       |       |
| Small Shaft |  | 22   | 24   | 26   | 28   | 30   | 32   | 34   | 36    | 38   | 40    | 44    | 48    | 56    | 64    | 72    | 80    |
| 10          |  | 0.02   | 0.03 | 0.03 | 0.04 | 0.04 | 0.1  | 0.06 | 0.06  | 0.07 | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.2   |
| 20          |  | 0.04   | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1   | 0.1  | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.3   | 0.3   |
| 40          |  | 0.1  | 0.1  | 0.1  | 0.1  | 0.2  | 0.2  | 0.2  | 0.3   | 0.3  | 0.3   | 0.3   | 0.4   | 0.4   | 0.5   | 0.6   | 0.6   |
| 60          |  | 0.1  | 0.2  | 0.2  | 0.2  | 0.3  | 0.3  | 0.3  | 0.4   | 0.4  | 0.5   | 0.5   | 0.6   | 0.6   | 0.7   | 0.8   | 0.9   |
| 100         |  | 0.2  | 0.3  | 0.3  | 0.4  | 0.4  | 0.5  | 0.6  | 0.6   | 0.7  | 0.8   | 0.8   | 0.9   | 1.1   | 1.2   | 1.4   | 1.5   |
| 200         |  | 0.4  | 0.5  | 0.6  | 0.7  | 0.8  | 1.0  | 1.1  | 1.3   | 1.4  | 1.5   | 1.7   | 1.8   | 2.1   | 2.3   | 2.6   | 2.8   |
| 300         |  | 0.7  | 0.7  | 0.9  | 1.0  | 1.2  | 1.4  | 1.6  | 1.8   | 2.0  | 2.2   | 2.4   | 2.6   | 3.0   | 3.4   | 3.7   | 4.1   |
| 400         |  | 0.9  | 1.0  | 1.1  | 1.3  | 1.6  | 1.8  | 2.1  | 2.3   | 2.6  | 2.8   | 3.1   | 3.4   | 3.8   | 4.3   | 4.8   | 5.3   |
| 500         |  | 1.1  | 1.2  | 1.4  | 1.6  | 1.9  | 2.2  | 2.5  | 2.9   | 3.2  | 3.5   | 3.8   | 4.1   | 4.7   | 5.3   | 5.9   | 6.4   |
| 600         |  | 1.3  | 1.4  | 1.6  | 1.9  | 2.3  | 2.6  | 3.0  | 3.4   | 3.8  | 4.1   | 4.5   | 4.8   | 5.5   | 6.2   | 6.9   | 7.6   |
| 700         |  | 1.5  | 1.7  | 1.9  | 2.2  | 2.6  | 3.0  | 3.4  | 3.9   | 4.3  | 4.7   | 5.1   | 5.5   | 6.3   | 7.1   | 7.9   | 8.6   |
| 800         |  | 1.8  | 1.9  | 2.1  | 2.5  | 2.9  | 3.4  | 3.8  | 4.4   | 4.9  | 5.9   | 5.8   | 6.2   | 7.1   | 8.0   | 8.9   | 9.7   |
| 870         |  | 1.9  | 2.8  | 2.3  | 2.7  | 3.1  | 3.6  | 4.1  | 4.7   | 5.3  | 5.7   | 6.2   | 6.7   | 7.7   | 8.6   | 9.5   | 10.4  |
| 1000        |  | 2.2  | 2.4  | 2.6  | 3.0  | 3.5  | 4.1  | 4.7  | 5.3   | 6.0  | 6.4   | 7.0   | 7.6   | 8.6   | 9.7   | 10.7  | 11.7  |
| 1160        |  | 2.5  | 2.8  | 3.0  | 3.5  | 4.0  | 4.7  | 5.3  | 6.0   | 6.8  | 7.3   | 8.0   | 8.6   | 9.8   | 11.0  | 12.2  | 13.3  |
| 1200        |  | 2.6  | 2.9  | 3.1  | 3.6  | 4.2  | 4.8  | 5.5  | 6.2   | 7.0  | 7.6   | 8.2   | 8.9   | 10.1  | 11.3  | 12.5  | 13.6  |
| 1400        |  | 3.1  | 3.3  | 3.6  | 4.1  | 4.8  | 5.5  | 6.3  | 7.1   | 8.6  | 8.6   | 9.4   | 10.1  | 11.5  | 12.9  | 14.2  | 15.5  |
| 1600        |  | 3.5  | 3.8  | 4.1  | 4.6  | 5.4  | 6.2  | 7.1  | 8.0   | 9.0  | 9.7   | 10.5  | 11.3  | 12.9  | 14.4  | 15.8  | 17.2  |
| 1750        |  | 3.8  | 4.2  | 4.5  | 5.0  | 5.8  | 6.7  | 7.6  | 8.6   | 9.7  | 10.5  | 11.4  | 12.2  | 13.9  | 15.5  | 17.0  | 18.4  |
| 2000        |  | 4.3  | 4.7  | 5.1  | 5.6  | 6.5  | 7.5  | 8.6  | 9.7   | 10.9 | 11.7  | 12.7  | 13.6  | 15.5  | 17.2  | 18.8  | 20.2  |
| 2400        |  | 5.2  | 5.7  | 6.1  | 7.0  | 7.6  | 8.7  | 10.0 | 11.3  | 12.7 | 13.6  | 14.8  | 15.8  | 17.8  | 19.7  | 21.3  | 22.8  |
| 2800        |  | 6.0  | 6.6  | 7.1  | 7.8  | 8.6  | 9.9  | 11.3 | 12.8  | 14.4 | 15.5  | 16.7  | 17.8  | 19.9  | 21.8  | 23.4  | 24.8  |
| 3200        |  |  |      | 8.0  | 8.8  | 9.6  | 11.1 | 12.6 | 14.2  | 16.0 | 17.2  | 18.5  | 19.7  | 21.8  | 23.7  | 25.1  |       |
| 3500        |  |  |      |      | 10.4 | 11.9 | 13.5 | 15.3 | 17.1  | 18.4 | 19.7  | 20.9  | 23.1  | 24.8  |       |       |       |
| 4000        |  |  |      |      |      | 13.1 | 14.9 | 16.9 | 18.9  | 20.2 | 21.6  | 22.8  | 24.8  |       |       |       |       |
| 4500        |  |  |      |      |      |      | 16.2 | 18.3 | 20.4  | 21.9 | 23.2  | 24.3  |       |       |       |       |       |
| 5000        |  |  |      |      |      |      |      | 19.6 | 21.9  | 23.3 | 24.6  | 25.5  |       |       |       |       |       |
| 5500        |  |  |      |      |      |      |      |      | 23.05 | 24.6 | 25.6  |       |       |       |       |       |       |
| PD: MM      |  | 56.0   | 61.1 | 66.2 | 71.3 | 76.4 | 81.5 | 86.6 | 91.7  | 96.8 | 101.9 | 112.0 | 122.2 | 142.6 | 163.0 | 183.3 | 203.7 |
| Inches      |  | 2.21   | 2.41 | 2.61 | 2.81 | 3.01 | 3.21 | 3.41 | 3.61  | 3.81 | 4.01  | 4.41  | 4.81  | 5.61  | 6.42  | 7.22  | 8.02  |

| 8M-30              |  | HT100 Horsepower Rating—30MM Wide Belt (1.18 in.) |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |
|--------------------|--|---|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| RPM Small Sprocket |  | No. Teeth   |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |
|                    |  | 22  | 24   | 26   | 28   | 30   | 32   | 34   | 36   | 38   | 40    | 44    | 48    | 56    | 64    | 72    | 80    |
| 10                 |  | 0.03  | 0.04 | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1   | 0.1   | 0.1   | 0.1   | 0.2   | 0.2   | 0.2   |
| 20                 |  | 0.1   | 0.1  | 0.1  | 0.1  | 0.1  | 0.2  | 0.2  | 0.2  | 0.2  | 0.3   | 0.3   | 0.3   | 0.3   | 0.4   | 0.4   | 0.5   |
| 40                 |  | 0.1   | 0.12 | 0.2  | 0.2  | 0.3  | 0.3  | 0.4  | 0.4  | 0.5  | 0.5   | 0.6   | 0.6   | 0.7   | 0.8   | 0.9   | 1.0   |
| 60                 |  | 0.2   | 0.2  | 0.3  | 0.3  | 0.4  | 0.5  | 0.5  | 0.6  | 0.7  | 0.7   | 0.8   | 0.9   | 1.0   | 1.2   | 1.3   | 1.4   |
| 100                |  | 0.3   | 0.4  | 0.5  | 0.6  | 0.7  | 0.8  | 0.9  | 1.0  | 1.1  | 1.2   | 1.3   | 1.4   | 1.7   | 2.0   | 2.2   | 2.4   |
| 200                |  | 0.7   | 0.8  | 0.9  | 1.1  | 1.3  | 1.5  | 1.7  | 2.0  | 2.2  | 2.4   | 2.6   | 2.8   | 3.3   | 3.7   | 4.1   | 4.5   |
| 300                |  | 1.0   | 1.1  | 1.4  | 1.6  | 1.9  | 2.2  | 2.5  | 2.9  | 3.2  | 3.5   | 3.8   | 4.1   | 4.7   | 5.3   | 5.9   | 6.5   |
| 400                |  | 1.4   | 1.5  | 1.8  | 2.1  | 2.5  | 2.8  | 3.3  | 3.7  | 4.2  | 4.5   | 4.9   | 5.3   | 6.1   | 6.8   | 7.6   | 8.3   |
| 500                |  | 1.7   | 1.9  | 2.3  | 2.6  | 3.0  | 3.5  | 4.0  | 4.5  | 5.1  | 5.5   | 6.0   | 6.5   | 7.4   | 8.3   | 9.3   | 10.2  |
| 600                |  | 2.1   | 2.3  | 2.6  | 3.0  | 3.5  | 4.1  | 4.7  | 5.3  | 6.0  | 6.5   | 7.0   | 7.6   | 8.7   | 9.8   | 10.9  | 11.9  |
| 700                |  | 2.4   | 2.6  | 2.9  | 3.5  | 4.1  | 4.7  | 5.4  | 6.1  | 6.8  | 7.4   | 8.1   | 8.7   | 10.0  | 11.2  | 12.4  | 13.6  |
| 800                |  | 2.8   | 3.0  | 3.3  | 3.9  | 4.6  | 5.3  | 6.1  | 6.9  | 7.7  | 8.3   | 9.1   | 9.78  | 11.2  | 12.6  | 14.0  | 15.3  |
| 870                |  | 3.0   | 3.3  | 3.6  | 4.2  | 4.9  | 5.7  | 6.5  | 7.4  | 8.3  | 9.0   | 9.8   | 10.5  | 12.1  | 13.6  | 15.0  | 16.4  |
| 1000               |  | 3.4   | 3.8  | 4.1  | 4.8  | 5.6  | 6.5  | 7.4  | 8.4  | 9.4  | 10.2  | 11.0  | 11.9  | 13.6  | 15.3  | 16.9  | 18.5  |
| 1160               |  | 4.0   | 4.4  | 4.7  | 5.5  | 6.4  | 7.4  | 8.4  | 9.5  | 10.7 | 11.6  | 12.6  | 13.6  | 15.5  | 17.4  | 19.2  | 21.0  |
| 1200               |  | 4.1   | 4.5  | 4.9  | 5.6  | 6.6  | 7.6  | 8.7  | 9.8  | 11.0 | 11.9  | 12.9  | 14.0  | 16.0  | 17.9  | 19.7  | 21.6  |
| 1400               |  | 4.8   | 5.3  | 5.7  | 6.4  | 7.5  | 8.7  | 9.9  | 11.2 | 12.6 | 13.6  | 14.8  | 16.0  | 18.2  | 20.4  | 22.4  | 24.4  |
| 1600               |  | 5.5   | 6.0  | 6.5  | 7.2  | 8.5  | 9.8  | 11.1 | 12.6 | 14.2 | 15.3  | 16.6  | 18.0  | 20.4  | 22.7  | 25.0  | 27.1  |
| 1750               |  | 6.0   | 6.5  | 7.1  | 7.8  | 9.1  | 10.5 | 12.0 | 13.6 | 15.3 | 16.5  | 17.9  | 19.3  | 21.9  | 24.4  | 26.8  | 29.1  |
| 2000               |  | 6.9   | 7.5  | 8.1  | 8.9  | 10.3 | 11.8 | 13.5 | 15.3 | 17.2 | 18.5  | 20.0  | 21.6  | 24.4  | 27.1  | 29.7  | 32.0  |
| 2400               |  | 8.2   | 8.9  | 9.6  | 10.6 | 12.0 | 13.8 | 15.8 | 17.8 | 20.0 | 21.6  | 23.3  | 25.0  | 28.2  | 31.1  | 33.8  | 36.2  |
| 2800               |  | 9.5   | 10.4 | 11.2 | 12.2 | 13.6 | 15.7 | 17.9 | 20.2 | 22.7 | 24.4  | 26.3  | 28.12 | 31.6  | 34.6  | 37.2  | 39.4  |
| 3200               |  |   |      | 12.7 | 13.9 | 15.2 | 17.5 | 19.9 | 22.5 | 25.2 | 27.1  | 29.2  | 31.1  | 34.6  | 37.6  | 39.9  |       |
| 3500               |  |   |      |      | 16.4 | 18.8 | 21.4 | 24.1 | 27.0 | 29.1 | 31.2  | 33.1  | 36.6  | 39.4  |       |       |       |
| 4000               |  |   |      |      |      | 20.8 | 23.6 | 26.7 | 29.9 | 32.0 | 34.2  | 36.2  | 39.4  |       |       |       |       |
| 4500               |  |   |      |      |      |      | 25.7 | 29.0 | 32.4 | 34.7 | 36.8  | 38.7  |       |       |       |       |       |
| 5000               |  |   |      |      |      |      |      | 31.1 | 34.7 | 37.0 | 39.1  | 40.7  |       |       |       |       |       |
| 5500               |  |   |      |      |      |      |      |      | 36.6 | 39.1 | 40.8  |       |       |       |       |       |       |
| PD: MM             |  | 56.0  | 61.1 | 66.2 | 71.3 | 76.4 | 81.5 | 86.6 | 91.7 | 96.8 | 101.9 | 112.0 | 122.2 | 142.6 | 163.0 | 183.3 | 203.7 |
| Inches             |  | 2.21  | 2.41 | 2.61 | 2.81 | 3.01 | 3.21 | 3.41 | 3.61 | 3.81 | 4.01  | 4.41  | 4.81  | 5.61  | 6.42  | 7.22  | 8.02  |

Operation in shaded area will result in a reduction of belt life.

|                                  |                               |                                       |  |
|----------------------------------|-------------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SPECIFICATIONS<br>PAGE PT11-4 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|-------------------------------|---------------------------------------|--|

# SELECTION



## HT100 Basic Horsepower Rating

NOTE: Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

| 8M-50<br>RPM Small<br>Sprocket | HT100 Horsepower Rating—50MM Wide Belt (1.97 in.)<br>No. Teeth |      |      |      |      |      |       |      |       |       |      |       |       |
|--------------------------------|--|------|------|------|------|------|-------|------|-------|-------|------|-------|-------|
|                                | 28   | 30   | 32   | 34   | 36   | 38   | 40    | 44   | 48    | 56    | 64   | 72    | 80    |
| 10                             | 0.1  | 0.1  | 0.1  | 0.16 | 0.2  | 0.2  | 0.2   | 0.2  | 0.3   | 0.3   | 0.3  | 0.4   | 0.4   |
| 20                             | 0.2  | 0.2  | 0.3  | 0.3  | 0.3  | 0.4  | 0.4   | 0.5  | 0.5   | 0.6   | 0.7  | 0.7   | 0.8   |
| 40                             | 0.4  | 0.5  | 0.5  | 0.6  | 0.7  | 0.8  | 0.8   | 0.9  | 1.0   | 1.2   | 1.3  | 1.5   | 1.7   |
| 60                             | 0.6  | 0.7  | 0.8  | 0.9  | 1.0  | 1.2  | 1.2   | 1.4  | 1.5   | 1.7   | 2.0  | 2.2   | 2.5   |
| 100                            | 1.0  | 1.2  | 1.3  | 1.5  | 1.7  | 2.0  | 2.1   | 2.3  | 2.5   | 2.9   | 3.3  | 3.7   | 4.1   |
| 200                            | 1.9  | 2.3  | 2.6  | 3.0  | 3.4  | 3.8  | 4.1   | 4.5  | 4.9   | 5.6   | 6.4  | 7.1   | 7.8   |
| 300                            | 2.8  | 3.3  | 3.8  | 4.4  | 4.9  | 5.5  | 6.0   | 6.5  | 7.1   | 8.1   | 9.2  | 10.2  | 11.2  |
| 400                            | 3.6  | 4.3  | 4.9  | 5.6  | 6.4  | 7.2  | 7.8   | 8.5  | 9.2   | 10.5  | 11.8 | 13.1  | 14.4  |
| 500                            | 4.5  | 5.2  | 6.0  | 6.9  | 7.8  | 8.8  | 9.5   | 10.3 | 11.2  | 12.8  | 14.4 | 16.0  | 17.6  |
| 600                            | 5.3  | 7.1  | 7.1  | 8.1  | 9.2  | 10.3 | 11.2  | 12.2 | 13.1  | 15.1  | 17.0 | 18.8  | 20.6  |
| 700                            | 6.0  | 7.0  | 8.1  | 9.3  | 10.5 | 11.9 | 12.8  | 14.0 | 15.1  | 17.3  | 19.4 | 21.5  | 23.6  |
| 800                            | 6.8  | 7.9  | 9.2  | 10.5 | 11.9 | 13.4 | 14.4  | 15.7 | 17.0  | 19.4  | 21.8 | 24.2  | 26.5  |
| 870                            | 7.3  | 8.6  | 10.0 | 11.3 | 12.8 | 14.4 | 15.5  | 16.9 | 18.3  | 20.9  | 23.5 | 26.0  | 28.5  |
| 1000                           | 8.3  | 9.7  | 11.2 | 12.8 | 14.5 | 16.3 | 17.6  | 19.1 | 20.6  | 23.6  | 26.5 | 29.3  | 32.1  |
| 1160                           | 9.4  | 11.0 | 12.8 | 14.6 | 16.5 | 18.5 | 20.0  | 21.8 | 23.5  | 26.8  | 30.1 | 33.3  | 36.3  |
| 1200                           | 9.7  | 11.4 | 13.1 | 15.0 | 17.0 | 19.1 | 20.6  | 22.4 | 24.2  | 27.6  | 31.0 | 34.2  | 37.4  |
| 1400                           | 11.1   | 13.0 | 15.0 | 17.2 | 19.5 | 21.9 | 23.6  | 25.6 | 27.6  | 31.5  | 35.3 | 38.9  | 42.4  |
| 1600                           | 12.5   | 14.6 | 16.9 | 19.3 | 21.9 | 24.5 | 26.5  | 28.8 | 31.0  | 35.3  | 39.4 | 43.3  | 47.1  |
| 1750                           | 13.5   | 15.8 | 18.3 | 20.9 | 23.6 | 26.5 | 28.6  | 31.0 | 33.4  | 38.0  | 42.4 | 46.5  | 50.4  |
| 2000                           | 15.3   | 17.8 | 20.5 | 23.4 | 26.5 | 29.7 | 32.7  | 34.7 | 37.4  | 42.4  | 47.1 | 51.5  | 55.6  |
| 2400                           | 18.3   | 20.7 | 23.9 | 27.3 | 30.9 | 34.6 | 37.4  | 40.4 | 43.3  | 48.9  | 54.0 | 58.7  | 62.9  |
| 2800                           | 21.2   | 23.6 | 27.2 | 31.0 | 35.1 | 39.3 | 42.4  | 45.7 | 48.9  | 54.8  | 60.1 | 64.8  | 68.7  |
| 3200                           | 24.1   | 26.3 | 30.3 | 34.5 | 39.0 | 43.8 | 47.1  | 50.7 | 54.0  | 60.2  | 65.4 | 69.7  |       |
| 3500                           |  | 28.4 | 32.5 | 37.1 | 41.9 | 46.9 | 50.4  | 54.1 | 57.6  | 63.7  | 68.6 |       |       |
| 4000                           |  |      | 36.0 | 41.0 | 46.3 | 51.8 | 55.6  | 59.4 | 62.9  | 68.7  |      |       |       |
| 4500                           |  |      |      | 44.7 | 50.4 | 56.3 | 60.3  | 64.1 | 67.4  |       |      |       |       |
| 5000                           |  |      |      |      | 54.0 | 60.3 | 64.5  | 68.0 | 71.0  |       |      |       |       |
| 5500                           |  |      |      |      |      | 63.8 | 68.0  | 71.3 |       |       |      |       |       |
| PD: MM                         | 71.3   | 76.4 | 81.5 | 86.6 | 91.7 | 96.8 | 101.9 | 112  | 122.2 | 142.6 | 163  | 183.3 | 203.7 |
| Inches                         | 2.81   | 3.01 | 3.21 | 3.41 | 3.61 | 3.81 | 4.01  | 4.41 | 4.81  | 5.61  | 6.42 | 7.22  | 8.02  |

| 8M-85<br>RPM Small<br>Sprocket | HT100 Horsepower Rating—85MM Wide Belt (3.35 in.)<br>No. Teeth |      |       |       |       |       |       |       |       |       |
|--------------------------------|--|------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                | 34   | 36   | 38    | 40    | 44    | 48    | 56    | 64    | 72    | 80    |
| 10                             | 0.3  | 0.3  | 0.3   | 0.4   | 0.4   | 0.4   | 0.5   | 0.6   | 0.7   | 0.7   |
| 20                             | 0.5  | 0.6  | 0.7   | 0.7   | 0.8   | 0.9   | 1.0   | 1.2   | 1.3   | 1.4   |
| 40                             | 1.1  | 1.2  | 1.4   | 1.4   | 1.6   | 1.7   | 2.0   | 2.3   | 2.6   | 2.9   |
| 60                             | 1.6  | 1.8  | 2.1   | 2.2   | 2.4   | 2.6   | 3.0   | 3.5   | 3.9   | 4.3   |
| 100                            | 2.6  | 3.0  | 3.4   | 3.6   | 4.0   | 4.3   | 5.4   | 5.8   | 6.5   | 7.2   |
| 200                            | 5.2  | 5.9  | 6.7   | 7.2   | 7.9   | 8.5   | 9.8   | 11.1  | 12.3  | 13.5  |
| 300                            | 7.6  | 8.6  | 9.6   | 10.4  | 11.4  | 12.3  | 14.1  | 15.9  | 17.7  | 19.4  |
| 400                            | 9.8  | 11.1 | 12.5  | 13.5  | 14.7  | 15.9  | 18.3  | 20.6  | 22.9  | 25.1  |
| 500                            | 12.0   | 13.6 | 15.3  | 16.5  | 18.0  | 19.4  | 22.3  | 25.1  | 27.9  | 30.6  |
| 600                            | 14.1   | 16.0 | 18.0  | 19.4  | 21.2  | 22.9  | 26.2  | 29.5  | 32.7  | 35.9  |
| 700                            | 16.12  | 18.3 | 20.6  | 22.3  | 24.3  | 26.2  | 30.0  | 33.8  | 37.5  | 41.0  |
| 800                            | 18.2   | 20.7 | 23.2  | 25.1  | 27.3  | 29.5  | 33.8  | 38.0  | 42.1  | 46.1  |
| 870                            | 19.7   | 22.3 | 25.0  | 27.0  | 29.4  | 31.8  | 36.4  | 40.9  | 45.3  | 49.5  |
| 1000                           | 22.2   | 25.2 | 28.3  | 30.6  | 33.3  | 35.9  | 41.1  | 46.1  | 51.0  | 55.8  |
| 1160                           | 25.3   | 28.7 | 32.3  | 34.8  | 37.9  | 40.9  | 46.7  | 52.4  | 57.9  | 63.2  |
| 1200                           | 26.1   | 29.6 | 33.2  | 35.9  | 39.0  | 42.1  | 48.1  | 53.9  | 59.5  | 65.0  |
| 1400                           | 29.9   | 33.8 | 38.0  | 41.1  | 44.6  | 48.1  | 54.8  | 61.4  | 67.7  | 73.7  |
| 1600                           | 33.6   | 38.0 | 42.7  | 46.1  | 50.0  | 53.9  | 61.4  | 68.6  | 75.4  | 82.0  |
| 1750                           | 36.3   | 41.1 | 46.1  | 49.8  | 54.0  | 58.1  | 66.1  | 73.7  | 81.0  | 87.8  |
| 2000                           | 40.7   | 46.1 | 51.7  | 55.8  | 60.5  | 65.0  | 73.7  | 82.0  | 89.7  | 96.9  |
| 2400                           | 47.5   | 53.7 | 60.3  | 65.0  | 70.3  | 75.4  | 85.1  | 94.1  | 102.3 | 109.7 |
| 2800                           | 54.0   | 61.0 | 68.5  | 73.7  | 79.6  | 85.1  | 95.5  | 104.8 | 113.0 | 120.0 |
| 3200                           | 60.1   | 68.0 | 76.2  | 82.0  | 88.2  | 94.1  | 104.8 | 114.1 | 121.6 |       |
| 3500                           | 64.6   | 72.9 | 81.7  | 87.8  | 94.3  | 100.3 | 111.1 | 119.9 |       |       |
| 4000                           | 71.5   | 80.7 | 90.3  | 96.9  | 103.6 | 109.7 | 119.9 |       |       |       |
| 4500                           | 77.8   | 87.8 | 98.1  | 105.2 | 111.8 | 117.6 |       |       |       |       |
| 5000                           |  | 94.2 | 105.2 | 112.5 | 118.8 | 124.0 |       |       |       |       |
| 5500                           |  |      | 111.3 | 118.8 | 124.5 |       |       |       |       |       |
| PD: MM                         | 86.6   | 91.7 | 96.8  | 101.9 | 112.0 | 122.2 | 142.6 | 163.0 | 183.3 | 203.7 |
| Inches                         | 3.41   | 3.61 | 3.81  | 4.01  | 4.41  | 4.81  | 5.61  | 6.42  | 7.22  | 8.02  |

Operation in shaded area will result in a reduction of belt life.

|                                  |                               |                                       |  |
|----------------------------------|-------------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SPECIFICATIONS<br>PAGE PT11-4 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|-------------------------------|---------------------------------------|--|



# SELECTION

## HT100 Basic Horsepower Rating

NOTE: Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

| 14M-40             |  | HT100 Horsepower Rating—40MM Wide Belt (1.57 in.) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|--------------------|--|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| RPM Small Sprocket |  | No. Teeth   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|                    |  | 28  | 29    | 30    | 32    | 34    | 36    | 38    | 40    | 44    | 48    | 52    | 56    | 60    | 64    | 68    | 72    | 80    |
| 10                 |  | 0.2   | 0.3   | 0.3   | 0.3   | 0.3   | 0.4   | 0.4   | 0.5   | 0.6   | 0.6   | 0.7   | 0.7   | 0.8   | 0.9   | 0.9   | 1.0   |       |
| 20                 |  | 0.5   | 0.5   | 0.5   | 0.6   | 0.6   | 0.7   | 0.9   | 1.0   | 1.1   | 1.2   | 1.3   | 1.4   | 1.5   | 1.6   | 1.7   | 1.8   | 2.1   |
| 40                 |  | 1.0   | 1.0   | 1.0   | 1.2   |       | 1.4   | 1.7   | 2.0   | 2.2   | 2.4   | 2.6   | 2.8   | 3.0   | 3.2   | 3.4   | 3.6   | 4.2   |
| 60                 |  | 1.5   | 1.5   | 1.6   | 1.7   | 1.8   | 2.2   | 2.5   | 3.0   | 3.3   | 3.6   | 3.9   | 4.2   | 4.5   | 4.8   | 5.1   | 5.4   | 6.3   |
| 100                |  | 2.4   | 2.5   | 2.6   | 2.8   | 3.1   | 3.6   | 4.2   | 5.0   | 5.5   | 6.0   | 6.5   | 7.0   | 7.5   | 8.0   | 8.5   | 9.0   | 10.4  |
| 200                |  | 4.9   | 5.0   | 5.2   | 5.2   | 6.1   | 7.2   | 8.4   | 9.8   | 10.8  | 12.0  | 13.0  | 14.0  | 15.0  | 16.0  | 17.0  | 18.0  | 20.9  |
| 300                |  | 6.7   | 7.0   | 7.4   | 7.3   | 9.2   | 10.8  | 12.2  | 13.2  | 14.4  | 17.1  | 19.5  | 21.0  | 22.5  | 24.0  | 25.5  | 27.0  | 30.5  |
| 400                |  | 8.2   | 8.7   | 9.2   | 9.3   | 11.4  | 14.4  | 14.0  | 16.1  | 17.5  | 20.6  | 25.9  | 25.8  | 28.6  | 29.7  | 31.3  | 32.9  | 36.1  |
| 500                |  | 9.6   | 10.2  | 10.9  | 11.1  | 13.5  | 16.9  | 17.5  | 18.8  | 20.4  | 23.7  | 29.4  | 29.5  | 32.5  | 33.7  | 35.3  | 37.1  | 40.7  |
| 600                |  | 10.9  | 11.7  | 12.5  | 12.9  | 15.5  | 19.2  | 19.8  | 21.3  | 23.0  | 26.4  | 32.5  | 32.8  | 35.8  | 37.0  | 38.8  | 40.8  | 44.6  |
| 700                |  | 12.1  | 13.1  | 14.0  | 14.5  | 17.4  | 21.2  | 21.9  | 23.5  | 25.3  | 28.9  | 35.2  | 35.6  | 38.7  | 39.9  | 41.8  | 43.8  | 47.8  |
| 800                |  | 13.3  | 14.2  | 15.4  | 16.1  | 19.1  | 23.2  | 23.98 | 25.6  | 27.5  | 31.2  | 37.6  | 38.2  | 41.2  | 42.4  | 44.4  | 46.4  | 50.5  |
| 870                |  | 14.1  | 15.2  | 16.4  | 17.2  | 20.3  | 24.4  | 25.3  | 27.0  | 29.0  | 32.7  | 39.1  | 39.8  | 42.7  | 43.9  | 45.9  | 48.0  | 52.1  |
| 1000               |  | 15.5  | 16.8  | 18.1  | 19.1  | 22.2  | 26.6  | 27.6  | 29.4  | 31.4  | 35.1  | 41.5  | 42.4  | 45.2  | 46.3  | 48.3  | 50.3  | 54.3  |
| 1160               |  | 17.1  | 18.6  | 20.0  | 21.4  | 24.7  | 29.1  | 30.2  | 32.1  | 34.2  | 37.8  | 44.0  | 45.0  | 47.6  | 48.6  | 50.4  | 52.3  | 56.0  |
| 1200               |  | 17.5  | 19.0  | 20.5  | 21.9  | 25.3  | 29.7  | 31.0  | 32.7  | 34.8  | 38.4  | 44.5  | 45.6  | 48.1  | 49.0  | 50.8  | 52.7  | 56.3  |
| 1400               |  | 19.4  | 21.1  | 22.7  | 24.5  | 27.9  | 32.5  | 33.6  | 35.6  | 47.7  | 41.1  | 46.8  | 47.9  | 50.0  | 50.5  | 52.0  | 53.7  | 56.4  |
| 1600               |  | 21.2  | 23.0  | 24.8  | 26.8  | 30.3  | 34.6  | 36.0  | 38.0  | 40.0  | 43.2  | 48.3  | 49.4  | 50.8  | 51.0  | 52.0  | 53.2  | 54.7  |
| 1750               |  | 22.5  | 24.4  | 26.2  | 28.5  | 31.9  | 36.2  | 37.6  | 39.6  | 41.5  | 44.4  | 48.9  | 49.9  | 50.9  | 50.6  | 51.2  | 51.9  |       |
| 2000               |  | 24.5  | 26.5  | 28.4  | 30.9  | 34.3  | 38.3  | 39.8  | 41.8  | 43.4  | 45.8  | 49.2  | 49.8  | 49.8  | 48.6  | 48.3  |       |       |
| 2400               |  | 27.8  | 29.5  | 31.4  | 34.2  | 37.2  | 40.9  | 42.3  | 44.0  | 45.0  | 46.2  | 47.6  | 46.9  |       |       |       |       |       |
| 2800               |  |   | 32.2  | 33.8  | 36.6  | 39.2  | 42.0  | 43.3  | 44.7  | 44.8  |       |       |       |       |       |       |       |       |
| *3200              |  |   |       | 38.0  | 40.0  | 42.0  | 43.0  | 43.9  |       |       |       |       |       |       |       |       |       |       |
| *3500              |  |   |       |       | 40.0  | 41.3  | 41.9  |       |       |       |       |       |       |       |       |       |       |       |
| PD: MM             |  | 124.8   | 129.2 | 133.7 | 142.6 | 151.5 | 160.4 | 169.3 | 178.3 | 196.1 | 213.9 | 231.7 | 249.6 | 267.4 | 285.2 | 303.0 | 320.9 | 356.5 |
| Inches             |  | 4.91  | 5.09  | 5.26  | 5.61  | 5.97  | 6.32  | 6.67  | 7.02  | 7.72  | 8.42  | 9.12  | 9.82  | 10.53 | 11.23 | 11.93 | 12.63 | 14.04 |

| 14M-55             |  | HT100 Horsepower Rating—55MM Wide Belt (2.17 in.) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|--------------------|--|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| RPM Small Sprocket |  | No. Teeth   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|                    |  | 28  | 29    | 30    | 32    | 34    | 36    | 38    | 40    | 44    | 48    | 52    | 56    | 60    | 64    | 68    | 72    | 80    |
| 10                 |  | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.5   | 0.6   | 0.7   | 0.8   | 0.9   | 0.9   | 1.0   | 1.1   | 1.2   | 1.2   | 1.3   | 1.5   |
| 20                 |  | 0.7   | 0.7   | 0.8   | 0.8   | 0.9   | 1.0   | 1.2   | 1.4   | 1.6   | 1.7   | 1.9   | 2.0   | 2.2   | 2.3   | 2.5   | 2.6   | 3.0   |
| 40                 |  | 1.4   | 1.5   | 1.5   | 1.6   | 1.8   | 2.1   | 2.4   | 2.9   | 3.2   | 3.5   | 3.8   | 4.0   | 4.3   | 4.6   | 4.9   | 5.2   | 6.0   |
| 60                 |  | 2.1   | 2.2   | 2.3   | 2.4   | 2.6   | 3.1   | 3.6   | 4.3   | 4.8   | 5.2   | 5.6   | 6.1   | 6.5   | 6.9   | 7.4   | 7.8   | 9.0   |
| 100                |  | 3.5   | 3.6   | 3.8   | 4.0   | 4.4   | 5.2   | 6.1   | 7.2   | 7.9   | 8.7   | 9.4   | 10.1  | 10.8  | 11.5  | 12.3  | 13.0  | 15.0  |
| 200                |  | 7.0   | 7.3   | 7.5   | 7.5   | 8.8   | 10.4  | 12.1  | 14.1  | 15.5  | 17.3  | 18.7  | 20.2  | 21.6  | 23.0  | 24.5  | 25.9  | 30.0  |
| 300                |  | 9.6   | 10.1  | 10.6  | 10.5  | 13.2  | 15.6  | 17.5  | 18.9  | 20.7  | 24.6  | 28.1  | 30.2  | 32.4  | 34.5  | 36.7  | 38.8  | 44.0  |
| 400                |  | 11.8  | 12.5  | 13.3  | 13.3  | 16.5  | 20.7  | 21.5  | 23.2  | 25.2  | 29.6  | 37.3  | 37.2  | 41.2  | 42.8  | 45.0  | 47.3  | 51.9  |
| 500                |  | 13.8  | 14.7  | 15.7  | 16.0  | 19.5  | 24.3  | 25.2  | 27.1  | 29.3  | 34.1  | 42.4  | 42.5  | 46.8  | 48.5  | 50.9  | 53.4  | 58.6  |
| 600                |  | 15.7  | 16.8  | 18.0  | 18.5  | 22.3  | 27.6  | 28.5  | 30.6  | 33.0  | 38.0  | 46.8  | 47.2  | 51.5  | 53.3  | 55.9  | 58.6  | 64.1  |
| 700                |  | 17.5  | 18.8  | 20.1  | 20.9  | 25.0  | 30.5  | 31.6  | 33.9  | 36.5  | 41.6  | 50.6  | 51.3  | 55.7  | 57.5  | 60.2  | 63.1  | 68.8  |
| 800                |  | 19.1  | 20.7  | 22.2  | 23.2  | 27.5  | 33.3  | 34.5  | 36.9  | 39.6  | 44.9  | 54.1  | 54.9  | 59.3  | 61.0  | 63.8  | 66.8  | 72.7  |
| 870                |  | 20.2  | 21.9  | 23.6  | 24.8  | 29.2  | 35.1  | 36.4  | 38.9  | 41.7  | 47.0  | 56.2  | 57.2  | 61.5  | 63.2  | 66.0  | 69.0  | 74.9  |
| 1000               |  | 22.3  | 24.1  | 26.0  | 27.5  | 32.2  | 38.3  | 39.7  | 42.3  | 45.2  | 50.6  | 59.7  | 61.0  | 65.1  | 66.7  | 69.5  | 72.4  | 78.2  |
| 1160               |  | 24.6  | 26.7  | 28.8  | 30.8  | 35.6  | 41.8  | 43.5  | 46.2  | 49.2  | 54.4  | 63.3  | 64.8  | 68.5  | 69.9  | 72.5  | 75.4  | 80.7  |
| 1200               |  | 25.2  | 27.4  | 29.5  | 31.5  | 36.4  | 42.7  | 44.3  | 47.1  | 50.1  | 55.3  | 64.1  | 65.6  | 69.2  | 70.5  | 73.1  | 75.9  | 81.0  |
| 1400               |  | 27.9  | 30.3  | 32.7  | 35.2  | 40.2  | 46.5  | 48.3  | 51.2  | 54.2  | 59.1  | 67.3  | 69.0  | 71.9  | 72.7  | 74.9  | 77.2  | 81.2  |
| 1600               |  | 30.5  | 33.1  | 35.7  | 38.6  | 43.6  | 49.9  | 51.8  | 54.7  | 57.6  | 62.1  | 69.5  | 71.0  | 73.2  | 73.3  | 74.9  | 76.5  | 78.8  |
| 1750               |  | 32.3  | 35.1  | 37.8  | 41.0  | 45.9  | 52.0  | 54.1  | 57.0  | 59.7  | 63.9  | 70.4  | 71.8  | 73.2  | 72.8  | 73.7  | 74.6  |       |
| 2000               |  | 35.3  | 38.1  | 40.9  | 44.5  | 49.3  | 55.1  | 57.3  | 60.2  | 62.5  | 65.9  | 70.8  | 71.6  | 71.6  | 70.0  | 69.6  |       |       |
| 2400               |  | 34.0  | 42.4  | 45.2  | 49.2  | 53.6  | 58.7  | 60.8  | 63.4  | 64.8  | 66.5  | 68.4  | 67.5  |       |       |       |       |       |
| 2800               |  |   | 46.3  | 48.6  | 52.6  | 56.3  | 60.4  | 62.4  | 64.4  | 64.4  | 63.9  |       |       |       |       |       |       |       |
| *3200              |  |   |       | 54.7  | 57.6  | 60.5  | 61.9  | 63.1  |       |       |       |       |       |       |       |       |       |       |
| *3500              |  |   |       |       | 57.5  | 59.4  | 60.3  |       |       |       |       |       |       |       |       |       |       |       |
| PD: MM             |  | 124.8   | 129.2 | 133.7 | 142.6 | 151.5 | 160.4 | 169.3 | 178.3 | 196.1 | 213.9 | 231.7 | 249.6 | 267.4 | 285.2 | 303.0 | 320.9 | 356.5 |
| Inches             |  | 4.91  | 5.09  | 5.26  | 5.61  | 5.97  | 6.32  | 6.67  | 7.02  | 7.72  | 8.42  | 9.12  | 9.82  | 10.53 | 11.23 | 11.93 | 12.63 | 14.04 |

Operation in shaded area will result in a reduction of belt life.

\* Operation in this speed range may require sound dampening guard.

|                                  |                               |                                       |  |
|----------------------------------|-------------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SPECIFICATIONS<br>PAGE PT11-4 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|-------------------------------|---------------------------------------|--|

# SELECTION



## HT100 Basic Horsepower Rating

NOTE: Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

| 14M-85             |           | HT100 Horsepower Rating—85MM Wide Belt (3.35 in.) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|--------------------|-----------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| RPM Small Sprocket | No. Teeth |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|                    | 28        | 29  | 30    | 32    | 34    | 36    | 38    | 40    | 44    | 48    | 52    | 56    | 60    | 64    | 68    | 72    | 80    |
| 10                 | 0.6       | 0.6   | 0.6   | 0.7   | 0.7   | 0.9   | 1.0   | 1.2   | 1.3   | 1.4   | 1.5   | 1.7   | 1.8   | 1.9   | 2.0   | 2.1   | 2.5   |
| 20                 | 1.2       | 1.2   | 1.2   | 1.3   | 1.5   | 1.7   | 2.0   | 2.4   | 2.6   | 2.8   | 3.1   | 3.3   | 3.6   | 3.8   | 4.0   | 4.3   | 5.0   |
| 40                 | 2.3       | 2.4   | 2.5   | 2.6   | 2.9   | 3.4   | 4.0   | 4.7   | 5.2   | 5.7   | 6.2   | 6.6   | 7.1   | 7.6   | 8.1   | 8.5   | 9.9   |
| 60                 | 3.5       | 3.6   | 3.7   | 4.0   | 4.3   | 5.1   | 6.0   | 7.1   | 7.8   | 8.5   | 9.2   | 10.0  | 10.7  | 11.4  | 12.1  | 12.8  | 14.8  |
| 100                | 5.8       | 6.0   | 6.2   | 6.6   | 7.2   | 8.5   | 10.0  | 11.9  | 13.0  | 14.2  | 15.4  | 16.6  | 17.8  | 19.0  | 20.1  | 21.3  | 24.7  |
| 200                | 11.5      | 11.9  | 12.3  | 12.3  | 14.5  | 17.1  | 19.9  | 23.2  | 25.4  | 28.4  | 30.8  | 33.2  | 35.5  | 37.9  | 40.2  | 42.6  | 49.4  |
| 300                | 15.8      | 16.6  | 17.5  | 17.3  | 21.7  | 25.6  | 28.8  | 31.2  | 34.0  | 40.4  | 46.2  | 49.7  | 53.2  | 56.8  | 60.3  | 63.8  | 72.3  |
| 400                | 19.4      | 20.6  | 21.8  | 21.9  | 27.1  | 34.1  | 35.4  | 38.2  | 41.5  | 48.7  | 61.3  | 61.1  | 67.8  | 70.4  | 74.0  | 77.8  | 85.4  |
| 500                | 22.7      | 24.2  | 25.8  | 26.3  | 32.1  | 40.0  | 41.4  | 44.5  | 48.2  | 56.0  | 69.7  | 69.9  | 76.9  | 79.7  | 83.7  | 87.9  | 96.3  |
| 600                | 25.8      | 27.7  | 29.6  | 30.4  | 36.7  | 45.3  | 46.9  | 50.3  | 54.3  | 62.6  | 76.9  | 77.6  | 84.8  | 87.7  | 91.9  | 96.5  | 105.5 |
| 700                | 28.7      | 30.9  | 33.1  | 34.4  | 41.1  | 50.2  | 52.0  | 55.7  | 60.0  | 68.5  | 83.3  | 84.3  | 91.6  | 94.5  | 99.0  | 103.7 | 113.2 |
| 800                | 31.4      | 34.0  | 36.5  | 38.1  | 45.3  | 54.8  | 56.8  | 60.7  | 65.1  | 73.8  | 88.9  | 90.3  | 97.5  | 100.4 | 105.0 | 109.9 | 119.5 |
| 870                | 33.3      | 36.0  | 38.8  | 40.7  | 48.0  | 57.8  | 59.9  | 64.0  | 68.5  | 77.3  | 92.4  | 94.1  | 101.2 | 104.0 | 108.6 | 113.6 | 123.2 |
| 1000               | 36.6      | 39.7  | 42.8  | 45.3  | 52.9  | 63.0  | 65.3  | 70.0  | 74.4  | 83.2  | 98.2  | 100.  | 107.0 | 109.7 | 114.2 | 119.1 | 128.6 |
| 1160               | 40.5      | 44.0  | 47.4  | 50.6  | 58.5  | 68.8  | 71.5  | 76.0  | 80.8  | 89.5  | 104.1 | 107.0 | 112.7 | 114.9 | 119.3 | 123.9 | 132.6 |
| 1200               | 41.4      | 45.0  | 48.5  | 51.9  | 59.9  | 70.2  | 72.9  | 77.5  | 82.3  | 90.9  | 105.4 | 108.0 | 113.9 | 116.0 | 120.2 | 124.8 | 133.2 |
| 1400               | 45.9      | 49.9  | 53.8  | 57.9  | 66.1  | 76.5  | 79.5  | 84.2  | 89.1  | 97.2  | 110.7 | 113.  | 118.2 | 119.6 | 123.2 | 127.0 | 133.5 |
| 1600               | 50.1      | 54.4  | 58.7  | 63.5  | 71.7  | 82.0  | 85.2  | 90.0  | 94.7  | 102.  | 114.2 | 117.0 | 120.3 | 120.6 | 123.2 | 125.8 | 129.5 |
| 1750               | 53.2      | 57.7  | 62.1  | 67.4  | 75.6  | 85.6  | 89.0  | 93.8  | 98.3  | 105.1 | 115.8 | 118.  | 120.4 | 119.7 | 121.2 | 122.8 |       |
| *2000              | 58.1      | 62.6  | 67.3  | 73.2  | 81.2  | 90.7  | 94.2  | 98.9  | 103.0 | 108.3 | 116.5 | 118.0 | 117.8 | 115.1 | 114.4 |       |       |
| *2400              | 65.7      | 69.7  | 74.3  | 81.0  | 88.1  | 96.5  | 100.0 | 104.2 | 107.0 | 109.3 | 112.5 | 111.0 |       |       |       |       |       |
| *2800              |           | 76.1  | 79.9  | 86.6  | 92.7  | 99.4  | 103.0 | 105.9 | 106.0 | 105.1 |       |       |       |       |       |       |       |
| *3200              |           |   |       | 90.0  | 94.7  | 99.4  | 101.8 | 103.9 |       |       |       |       |       |       |       |       |       |
| *3500              |           |   |       |       | 94.6  | 97.7  | 99.2  |       |       |       |       |       |       |       |       |       |       |
| PD: MM             | 124.8     | 129.2   | 133.7 | 142.6 | 151.5 | 160.4 | 169.3 | 178.3 | 196.1 | 213.9 | 231.7 | 249.6 | 267.4 | 285.2 | 303.0 | 320.9 | 356.5 |
| Inches             | 4.91      | 5.09  | 5.26  | 5.61  | 5.97  | 6.32  | 6.67  | 7.02  | 7.72  | 8.42  | 9.12  | 9.82  | 10.53 | 11.23 | 11.93 | 12.63 | 14.04 |

| 14M-115            |           | HT100 Horsepower Rating—115MM Wide Belt (4.53 in.) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|--------------------|-----------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| RPM Small Sprocket | No. Teeth |  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|                    | 28        | 29   | 30    | 32    | 34    | 36    | 38    | 40    | 44    | 48    | 52    | 56    | 60    | 64    | 68    | 72    | 80    |
| 10                 | 0.8       | 0.8  | 0.9   | 0.9   | 1.0   | 1.2   | 1.4   | 1.7   | 1.8   | 2.0   | 2.2   | 2.4   | 2.5   | 2.7   | 2.9   | 3.0   | 3.5   |
| 20                 | 1.6       | 1.7  | 1.7   | 1.9   | 2.0   | 2.4   | 2.8   | 3.4   | 3.7   | 4.0   | 4.4   | 4.7   | 5.0   | 5.4   | 5.7   | 6.0   | 7.0   |
| 40                 | 3.3       | 3.4  | 3.5   | 3.7   | 4.1   | 4.8   | 5.6   | 6.7   | 7.4   | 8.0   | 8.7   | 9.4   | 10.1  | 10.7  | 11.4  | 12.1  | 14.0  |
| 60                 | 4.9       | 5.1  | 5.2   | 5.6   | 6.1   | 7.2   | 8.4   | 10.1  | 11.1  | 12.1  | 13.1  | 14.1  | 15.1  | 16.1  | 17.1  | 18.1  | 21.0  |
| 100                | 8.1       | 8.4  | 8.7   | 9.3   | 10.2  | 12.1  | 14.1  | 16.7  | 18.4  | 20.1  | 21.8  | 23.4  | 25.1  | 26.8  | 28.5  | 30.1  | 34.9  |
| 200                | 16.3      | 16.9   | 17.4  | 17.4  | 20.4  | 24.1  | 28.1  | 32.8  | 35.9  | 40.2  | 43.5  | 46.9  | 50.2  | 53.5  | 56.9  | 60.2  | 69.8  |
| 300                | 22.3      | 23.5   | 24.7  | 24.4  | 30.6  | 36.2  | 40.7  | 44.0  | 48.0  | 57.1  | 65.2  | 70.2  | 75.2  | 80.2  | 85.1  | 90.1  | 102.1 |
| 400                | 27.4      | 29.1   | 30.8  | 31.0  | 38.3  | 48.2  | 50.0  | 53.9  | 58.6  | 68.8  | 86.7  | 86.4  | 95.8  | 99.5  | 104.5 | 110.0 | 120.6 |
| 500                | 32.1      | 34.2   | 36.5  | 37.1  | 45.3  | 56.6  | 58.5  | 62.9  | 68.1  | 79.2  | 98.4  | 98.7  | 108.6 | 112.6 | 118.2 | 124.2 | 136.1 |
| 600                | 36.4      | 39.1   | 41.8  | 43.0  | 51.9  | 64.0  | 66.3  | 71.1  | 76.8  | 88.4  | 108.7 | 109.6 | 119.7 | 123.8 | 129.8 | 136.3 | 149.0 |
| 700                | 40.5      | 43.6   | 46.8  | 48.5  | 58.1  | 70.9  | 73.5  | 78.7  | 84.7  | 96.7  | 117.6 | 119.1 | 129.4 | 133.5 | 139.8 | 146.5 | 159.9 |
| 800                | 44.4      | 48.0   | 51.5  | 53.9  | 64.0  | 77.4  | 80.2  | 85.8  | 92.0  | 104.3 | 125.6 | 127.6 | 137.7 | 141.8 | 148.3 | 155.2 | 168.8 |
| 870                | 47.0      | 50.9   | 54.7  | 57.5  | 67.9  | 81.6  | 84.6  | 90.4  | 96.8  | 109.2 | 130.6 | 133.0 | 142.9 | 146.9 | 153.4 | 160.4 | 174.1 |
| 1000               | 51.7      | 56.1   | 60.4  | 64.0  | 74.8  | 89.0  | 92.3  | 98.4  | 105.1 | 117.5 | 138.8 | 141.7 | 151.2 | 154.9 | 161.4 | 168.3 | 181.7 |
| 1160               | 57.12     | 62.1   | 67.0  | 71.5  | 82.7  | 97.2  | 101.0 | 107.3 | 114.2 | 126.4 | 147.1 | 150.6 | 159.2 | 162.4 | 168.5 | 175.1 | 187.4 |
| 1200               | 58.5      | 63.6   | 68.6  | 73.3  | 84.6  | 99.1  | 103.0 | 109.4 | 116.3 | 128.4 | 148.9 | 152.5 | 160.8 | 163.9 | 169.8 | 176.3 | 188.2 |
| *1400              | 64.8      | 70.5   | 76.1  | 81.8  | 93.4  | 108.1 | 112.3 | 119.0 | 125.8 | 137.3 | 156.4 | 160.2 | 167.0 | 168.9 | 174.0 | 179.4 | 188.7 |
| *1600              | 70.8      | 76.9   | 82.9  | 89.7  | 101.4 | 115.8 | 120.4 | 127.2 | 133.8 | 144.4 | 161.4 | 165.1 | 170.0 | 170.4 | 174.0 | 177.8 | 183.0 |
| *1750              | 75.2      | 81.4   | 87.7  | 95.2  | 106.7 | 120.9 | 125.7 | 132.5 | 138.8 | 148.4 | 163.7 | 166.9 | 170.1 | 169.1 | 171.3 | 173.4 |       |
| *2000              | 82.1      | 88.5   | 95.0  | 104.0 | 114.6 | 128.1 | 133.1 | 139.8 | 145.2 | 153.0 | 164.6 | 166.4 | 166.4 | 162.6 | 161.6 |       |       |
| *2400              | 92.9      | 98.5   | 105.0 | 114.4 | 124.5 | 136.3 | 141.3 | 147.3 | 150.6 | 154.4 | 159.0 | 150.7 |       |       |       |       |       |
| *2800              |           | 107.6  | 113.0 | 122.3 | 130.9 | 140.4 | 144.9 | 149.6 | 149.7 | 148.5 |       |       |       |       |       |       |       |
| *3200              |           |  |       | 127.1 | 133.7 | 140.5 | 143.9 | 146.7 |       |       |       |       |       |       |       |       |       |
| *3500              |           |  |       |       | 133.6 | 138.0 | 140.1 |       |       |       |       |       |       |       |       |       |       |
| PD: MM             | 124.8     | 129.2  | 133.7 | 142.6 | 151.5 | 160.4 | 169.3 | 178.3 | 196.1 | 213.9 | 231.7 | 249.6 | 267.4 | 285.2 | 303.0 | 320.9 | 356.5 |
| Inches             | 4.91      | 5.09   | 5.26  | 5.61  | 5.97  | 6.32  | 6.67  | 7.02  | 7.72  | 8.42  | 9.12  | 9.82  | 10.53 | 11.23 | 11.93 | 12.63 | 14.04 |

Operation in shaded area will result in a reduction of belt life.  
 \* Operation in this speed range may require sound dampening guard.

|                                  |                               |                                       |  |
|----------------------------------|-------------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SPECIFICATIONS<br>PAGE PT11-4 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|-------------------------------|---------------------------------------|--|



# SELECTION

## HT100 Basic Horsepower Rating

NOTE: Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

| HT100 Horsepower Rating—170MM Wide Belt (6.69 in.) |             |             |             |             |             |             |             |              |              |              |              |              |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| RPM Small Sprocket                                 | No. Teeth   |             |             |             |             |             |             |              |              |              |              |              |
|  | 36          | 38          | 40          | 44          | 48          | 52          | 56          | 60           | 64           | 68           | 72           | 80           |
| 10   | 1.9         | 2.2         | 2.6         | 2.9         | 3.1         | 3.4         | 3.7         | 3.9          | 4.2          | 4.5          | 4.7          | 5.5          |
| 20   | 3.8         | 4.4         | 5.2         | 5.8         | 6.3         | 6.8         | 7.3         | 7.9          | 8.4          | 8.9          | 9.4          | 11.0         |
| 40   | 7.5         | 8.8         | 10.5        | 11.5        | 12.6        | 13.6        | 14.7        | 15.7         | 16.8         | 17.8         | 18.9         | 21.8         |
| 60   | 11.3        | 13.2        | 15.7        | 17.3        | 18.9        | 20.4        | 22.0        | 23.6         | 25.1         | 26.7         | 28.3         | 32.8         |
| 100  | 18.9        | 22.0        | 26.2        | 28.8        | 31.4        | 34.0        | 36.6        | 39.3         | 41.9         | 44.5         | 47.1         | 54.6         |
| 200  | 37.7        | 43.9        | 51.2        | 56.2        | 62.8        | 68.0        | 73.2        | 78.5         | 83.7         | 88.9         | 94.1         | 109.1        |
| 300  | 56.5        | 63.6        | 68.8        | 75.1        | 89.3        | 101.9       | 109.7       | 117.5        | 125.3        | 133.1        | 140.9        | 159.6        |
| 400  | 75.3        | 78.2        | 84.3        | 91.6        | 107.6       | 135.5       | 135.0       | 149.7        | 155.5        | 163.4        | 171.8        | 188.6        |
| 500  | 88.4        | 91.4        | 98.3        | 106.5       | 123.7       | 153.9       | 154.3       | 169.8        | 176.0        | 184.8        | 194.1        | 212.7        |
| 600  | 100.1       | 103.6       | 111.2       | 120.0       | 138.2       | 169.9       | 171.3       | 187.2        | 193.6        | 203.0        | 213.0        | 232.9        |
| 700  | 110.9       | 114.9       | 123.0       | 132.4       | 151.2       | 183.9       | 186.2       | 202.2        | 208.7        | 218.5        | 229.1        | 249.9        |
| 800  | 120.9       | 125.3       | 134.0       | 143.8       | 163.1       | 196.3       | 199.5       | 215.3        | 221.7        | 231.8        | 242.6        | 263.9        |
| 870  | 127.6       | 132.3       | 141.3       | 151.4       | 170.7       | 204.1       | 207.9       | 223.4        | 229.7        | 239.9        | 250.8        | 272.1        |
| 1000   | 139.1       | 144.3       | 153.8       | 164.3       | 183.7       | 216.9       | 221.5       | 236.4        | 242.2        | 252.3        | 263.1        | 284.0        |
| 1160   | 152.0       | 157.8       | 167.8       | 178.5       | 197.6       | 229.9       | 235.4       | 248.9        | 253.9        | 263.4        | 273.7        | 292.9        |
| =1200  | 155.0       | 161.0       | 171.0       | 181.8       | 200.8       | 232.8       | 238.4       | 251.4        | 256.1        | 265.5        | 275.6        | 294.2        |
| =1400  | 168.9       | 175.5       | 186.0       | 196.7       | 214.7       | 244.4       | 250.4       | 261.1        | 264.1        | 272.0        | 280.4        | 294.9        |
| =1600  | 181.1       | 188.2       | 198.8       | 209.2       | 225.7       | 252.3       | 258.0       | 265.7        | 266.4        | 272.0        | 277.9        | 286.1        |
| =1750  | 189.0       | 196.5       | 207.1       | 217.0       | 232.1       | 255.8       | 260.9       | 265.9        | 264.4        | 267.8        | 271.1        |              |
| =2000  | 200.3       | 208.1       | 218.5       | 227.0       | 239.2       | 257.3       | 260.2       | 260.1        | 254.2        | 252.7        |              |              |
| =2400  | 213.1       | 220.8       | 230.2       | 235.4       | 241.4       | 248.5       | 245.0       |              |              |              |              |              |
| =2800  | 219.5       | 226.5       | 233.9       | 234.0       | 232.1       |             |             |              |              |              |              |              |
| =3200  | 219.6       | 224.9       | 229.4       |             |             |             |             |              |              |              |              |              |
| =3500  | 215.8       | 219.0       |             |             |             |             |             |              |              |              |              |              |
| PD: MM   | 160.4       | 169.3       | 178.3       | 196.1       | 213.9       | 231.7       | 249.6       | 267.4        | 285.2        | 303.0        | 320.9        | 356.5        |
| Inches   | <b>6.32</b> | <b>6.67</b> | <b>7.02</b> | <b>7.72</b> | <b>8.42</b> | <b>9.12</b> | <b>9.82</b> | <b>10.53</b> | <b>11.23</b> | <b>11.93</b> | <b>12.63</b> | <b>14.04</b> |

| HT100 Horsepower Rating—115MM Wide Belt (4.53 in.) |              |              |              |               |               |               |               |               |               |               |               |               |               |               |
|--|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| RPM Small Sprocket                                 | No. Teeth    |              |              |               |               |               |               |               |               |               |               |               |               |               |
|  | 34           | 36           | 38           | 40            | 44            | 48            | 52            | 56            | 60            | 64            | 68            | 72            | 80            | 90            |
| *10  | 2.7          | 2.9          | 3.1          | 3.3           | 3.6           | 4.0           | 4.3           | 4.6           | 4.9           | 5.1           | 5.4           | 5.6           | 6.1           | 6.7           |
| *20  | 5.4          | 5.8          | 6.1          | 6.5           | 7.3           | 7.9           | 8.6           | 9.2           | 9.8           | 10.3          | 10.8          | 11.3          | 12.3          | 13.4          |
| *30  | 8.1          | 8.7          | 9.2          | 9.8           | 10.9          | 11.9          | 12.9          | 13.8          | 14.7          | 15.4          | 16.2          | 16.9          | 18.4          | 20.2          |
| *40  | 10.7         | 11.5         | 12.3         | 13.1          | 14.5          | 15.8          | 17.1          | 18.5          | 19.5          | 20.6          | 21.6          | 22.6          | 24.6          | 26.9          |
| *50  | 13.4         | 14.4         | 15.3         | 16.3          | 18.1          | 19.8          | 21.4          | 23.1          | 24.4          | 25.7          | 27.0          | 28.2          | 30.7          | 33.6          |
| *60  | 16.1         | 17.3         | 18.4         | 19.6          | 21.8          | 23.7          | 25.7          | 27.7          | 29.3          | 30.8          | 32.4          | 33.9          | 36.8          | 40.3          |
| *80  | 21.5         | 23.1         | 24.5         | 26.1          | 29.0          | 31.6          | 34.3          | 36.9          | 39.1          | 41.1          | 43.1          | 45.1          | 49.0          | 53.7          |
| *100   | 26.8         | 28.8         | 30.7         | 32.6          | 36.3          | 39.6          | 42.8          | 46.1          | 48.8          | 51.4          | 53.9          | 56.4          | 61.3          | 67.1          |
| *150   | 40.3         | 43.2         | 46.0         | 48.9          | 54.4          | 59.3          | 64.2          | 69.2          | 73.2          | 77.0          | 80.8          | 84.5          | 91.8          | 100.5         |
| *200   | 53.7         | 57.6         | 61.3         | 65.2          | 72.4          | 79.0          | 85.6          | 92.1          | 97.4          | 102.5         | 107.5         | 112.5         | 122.1         | 133.6         |
| *300   | 77.7         | 83.5         | 88.7         | 94.3          | 105.8         | 117.7         | 125.4         | 132.9         | 140.3         | 147.5         | 154.5         | 161.4         | 174.8         | 190.8         |
| *400   | 97.9         | 105.0        | 111.5        | 118.5         | 132.7         | 147.5         | 156.8         | 165.9         | 174.8         | 183.4         | 191.8         | 200.0         | 215.8         | 234.3         |
| *500   | 116.7        | 125.0        | 132.7        | 140.9         | 157.6         | 174.8         | 185.5         | 195.9         | 206.0         | 215.8         | 225.2         | 234.3         | 251.6         | 271.5         |
| *600   | 134.3        | 143.8        | 152.5        | 161.8         | 180.6         | 200.0         | 211.9         | 223.3         | 234.3         | 244.8         | 254.9         | 264.5         | 282.5         | 302.5         |
| 730  | 155.7        | 166.5        | 176.4        | 186.9         | 208.2         | 230.0         | 242.9         | 255.2         | 266.2         | 277.9         | 288.2         | 297.9         | 315.3         | 333.2         |
| 800  | 166.6        | 178.1        | 188.5        | 199.5         | 221.9         | 244.8         | 258.2         | 270.7         | 282.5         | 293.5         | 303.7         | 313.1         | 329.4         | 345.0         |
| 870  | 177.0        | 189.1        | 200.0        | 211.6         | 235.0         | 258.8         | 272.4         | 285.0         | 296.6         | 307.5         | 317.4         | 326.2         | 340.9         | 353.4         |
| 970  | 191.2        | 204.0        | 215.5        | 227.8         | 252.4         | 277.3         | 272.4         | 285.0         | 296.6         | 307.5         | 317.4         | 326.2         | 340.9         | 353.4         |
| 1170   | 217.0        | 231.0        | 243.4        | 256.6         | 282.8         | 309.0         | 321.8         | 332.8         | 342.0         | 349.3         | 354.7         | 358.0         | 358.5         |               |
| =1200  | 220.6        | 234.7        | 247.3        | 260.5         | 286.9         | 313.1         | 325.6         | 336.3         | 345.0         | 351.7         | 356.4         | 358.9         | 357.2         |               |
| =1460  | 248.6        | 263.5        | 276.4        | 289.9         | 316.3         | 341.8         | 350.6         | 356.5         | 356.2         | 358.6         | 354.5         |               |               |               |
| =1600  | 261.3        | 276.3        | 289.0        | 302.3         | 327.8         | 351.7         | 357.5         | 359.3         | 357.2         |               |               |               |               |               |
| =1750  | 273.0        | 287.8        | 300.0        | 312.7         | 336.5         | 357.9         | 359.2         | 355.7         |               |               |               |               |               |               |
| =2000  | 288.1        | 301.8        | 312.5        | 323.4         | 342.3         | 357.2         |               |               |               |               |               |               |               |               |
| PD: MM   | 216.45       | 229.18       | 241.92       | 254.65        | 280.11        | 305.58        | 331.04        | 356.51        | 381.97        | 407.44        | 432.90        | 458.37        | 509.30        | 572.96        |
| Inches   | <b>8.522</b> | <b>9.023</b> | <b>9.524</b> | <b>10.026</b> | <b>11.028</b> | <b>12.031</b> | <b>13.033</b> | <b>14.036</b> | <b>15.038</b> | <b>16.041</b> | <b>17.043</b> | <b>18.046</b> | <b>20.051</b> | <b>22.557</b> |

Operation in shaded area will result in a reduction of belt life.

\* Refer to page PT11-20 for additional Service Factors for speeds of 600 RPM or less.

= Drives within this speed range may generate an objectionable noise level. This can be reduced by using commercially available acoustical damping material in the belt guard.

|                                  |                               |                                       |  |
|----------------------------------|-------------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SPECIFICATIONS<br>PAGE PT11-4 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|-------------------------------|---------------------------------------|--|



# SELECTION



## HT100 Basic Horsepower Rating

NOTE: Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

| 20M-170<br>RPM Small Sprocket | HT100 Horsepower Rating-170MM Wide Belt (6.69 in.) |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-------------------------------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                               | No. Teeth  |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                               | 34   | 36     | 38     | 40     | 44     | 48     | 52     | 56     | 60     | 64     | 68     | 72     | 80     | 90     |
| *10                           | 4.2  | 4.5    | 4.8    | 5.1    | 5.6    | 6.1    | 6.7    | 7.2    | 7.6    | 8.0    | 8.4    | 8.8    | 9.5    | 10.4   |
| *20                           | 8.3  | 9.0    | 9.5    | 10.1   | 11.3   | 12.3   | 13.3   | 14.3   | 15.2   | 16.0   | 16.8   | 17.5   | 19.0   | 20.9   |
| *30                           | 12.5   | 13.4   | 14.3   | 15.2   | 16.9   | 18.4   | 20.0   | 21.5   | 22.8   | 23.9   | 25.1   | 26.3   | 28.6   | 31.3   |
| *40                           | 16.7   | 17.9   | 19.1   | 20.3   | 22.5   | 24.6   | 26.6   | 28.7   | 30.3   | 31.9   | 33.5   | 35.1   | 38.1   | 41.8   |
| *50                           | 20.8   | 22.4   | 23.8   | 25.3   | 28.2   | 30.7   | 33.3   | 35.8   | 37.9   | 39.9   | 41.9   | 43.8   | 47.6   | 52.2   |
| *60                           | 25.0   | 26.9   | 28.6   | 30.4   | 33.8   | 36.9   | 39.9   | 43.0   | 45.5   | 47.9   | 50.3   | 52.6   | 57.1   | 62.6   |
| *80                           | 33.4   | 35.8   | 38.1   | 40.5   | 45.1   | 49.1   | 53.2   | 57.3   | 60.7   | 63.8   | 67.0   | 70.1   | 76.1   | 83.5   |
| *100                          | 41.7   | 44.8   | 47.6   | 50.7   | 56.3   | 61.4   | 66.5   | 71.7   | 75.8   | 79.8   | 83.7   | 87.6   | 95.1   | 104.3  |
| *150                          | 62.5   | 67.2   | 71.4   | 76.0   | 84.4   | 92.1   | 99.7   | 107.4  | 113.6  | 119.6  | 125.4  | 131.2  | 142.5  | 156.1  |
| *200                          | 83.3   | 89.5   | 95.2   | 101.2  | 112.5  | 122.7  | 132.9  | 143.1  | 151.3  | 159.2  | 167.0  | 174.7  | 189.6  | 207.6  |
| *300                          | 120.7  | 129.6  | 137.8  | 146.5  | 164.4  | 182.4  | 194.8  | 206.5  | 217.9  | 229.1  | 240.0  | 250.7  | 271.5  | 296.5  |
| *400                          | 152.1  | 163.1  | 173.2  | 184.0  | 206.2  | 229.1  | 243.6  | 257.8  | 271.5  | 285.0  | 298.1  | 310.8  | 335.4  | 364.3  |
| *500                          | 181.2  | 194.3  | 206.2  | 218.8  | 244.8  | 271.5  | 288.3  | 304.5  | 320.2  | 335.4  | 350.1  | 364.3  | 391.4  | 422.6  |
| *600                          | 208.7  | 223.4  | 236.9  | 251.3  | 280.7  | 310.8  | 329.4  | 347.2  | 364.3  | 380.8  | 396.6  | 411.7  | 439.9  | 471.4  |
| 730                           | 242.0  | 258.8  | 274.1  | 290.5  | 323.6  | 357.6  | 377.8  | 397.1  | 415.4  | 432.7  | 449.0  | 464.2  | 491.8  | 520.5  |
| 800                           | 258.9  | 276.8  | 293.0  | 310.2  | 345.2  | 380.8  | 401.7  | 421.4  | 439.9  | 457.2  | 473.4  | 488.3  | 514.4  | 539.9  |
| 870                           | 275.1  | 293.9  | 310.9  | 329.0  | 365.5  | 402.7  | 424.0  | 443.9  | 462.4  | 479.5  | 495.1  | 509.3  | 533.1  | 554.1  |
| 970                           | 297.3  | 317.2  | 335.2  | 354.3  | 392.8  | 431.7  | 453.2  | 473.0  | 490.9  | 507.1  | 521.4  | 533.8  | 552.8  |        |
| 1170                          | 337.7  | 359.5  | 379.0  | 399.6  | 440.7  | 481.7  | 502.1  | 519.9  | 534.9  | 547.0  | 556.3  | 562.6  | 565.8  |        |
| =1200                         | 343.3  | 365.4  | 385.0  | 405.8  | 447.1  | 488.3  | 508.3  | 525.6  | 539.9  | 551.2  | 559.4  | 564.4  | 564.5  |        |
| =1460                         | 387.3  | 410.7  | 431.0  | 452.4  | 494.2  | 534.5  | 549.3  | 559.6  | 565.2  | 565.8  | 561.3  |        |        |        |
| =1600                         | 407.5  | 431.1  | 451.2  | 472.3  | 512.9  | 551.2  | 561.5  | 566.0  | 564.5  |        |        |        |        |        |
| =1750                         | 426.3  | 449.7  | 469.1  | 489.4  | 527.6  | 562.3  | 566.2  | 562.8  |        |        |        |        |        |        |
| =2000                         | 450.8  | 472.8  | 490.1  | 507.8  | 539.1  | 564.5  |        |        |        |        |        |        |        |        |
| PD: MM                        | 216.45   | 229.18 | 241.92 | 254.65 | 280.11 | 305.58 | 331.04 | 356.51 | 381.97 | 407.44 | 432.90 | 458.37 | 509.30 | 572.96 |
| Inches                        | 8.522  | 9.023  | 9.524  | 10.026 | 11.028 | 12.031 | 13.033 | 14.036 | 15.038 | 16.041 | 17.043 | 18.046 | 20.051 | 22.557 |

| 20M-230<br>RPM Small Sprocket | HT100 Horsepower Rating-230MM Wide Belt (9.06 in.) |        |        |        |        |        |        |        |        |        |        |        |
|-------------------------------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                               | No. Teeth  |        |        |        |        |        |        |        |        |        |        |        |
|                               | 38   | 40     | 44     | 48     | 52     | 56     | 60     | 64     | 68     | 72     | 80     | 90     |
| *10                           | 6.6  | 7.0    | 7.8    | 8.5    | 9.2    | 10.0   | 10.5   | 11.1   | 11.6   | 12.2   | 13.2   | 14.5   |
| *20                           | 13.2   | 14.1   | 15.6   | 17.1   | 18.5   | 19.9   | 21.1   | 22.2   | 23.3   | 24.3   | 26.4   | 29.0   |
| *30                           | 19.8   | 21.1   | 23.5   | 25.6   | 27.7   | 29.9   | 31.6   | 33.3   | 34.9   | 36.5   | 39.7   | 43.5   |
| *40                           | 26.5   | 28.1   | 31.3   | 34.1   | 37.0   | 39.8   | 42.1   | 44.3   | 46.5   | 48.7   | 52.9   | 58.0   |
| *50                           | 33.1   | 35.2   | 39.1   | 42.7   | 46.2   | 49.8   | 52.6   | 55.4   | 58.1   | 60.8   | 66.1   | 72.5   |
| *60                           | 39.7   | 42.2   | 46.9   | 51.2   | 55.4   | 59.7   | 63.2   | 66.5   | 69.8   | 73.0   | 79.3   | 87.0   |
| *80                           | 52.9   | 56.3   | 62.6   | 68.2   | 73.9   | 79.6   | 84.2   | 88.6   | 93.0   | 97.3   | 105.7  | 115.9  |
| *100                          | 66.1   | 70.3   | 78.2   | 85.3   | 92.4   | 99.5   | 105.2  | 110.8  | 116.2  | 121.6  | 132.1  | 144.8  |
| *150                          | 99.2   | 105.5  | 117.2  | 127.9  | 138.5  | 149.1  | 157.7  | 166.0  | 174.2  | 182.2  | 197.9  | 216.8  |
| *200                          | 132.1  | 140.6  | 156.2  | 170.4  | 184.5  | 198.7  | 210.1  | 221.1  | 231.9  | 242.5  | 263.3  | 288.3  |
| *300                          | 191.3  | 203.4  | 228.2  | 253.9  | 270.5  | 286.7  | 302.6  | 318.1  | 333.3  | 348.2  | 377.1  | 411.8  |
| *400                          | 240.5  | 255.5  | 286.3  | 318.1  | 338.3  | 358.0  | 377.1  | 395.8  | 414.0  | 431.8  | 465.9  | 506.2  |
| *500                          | 286.3  | 303.9  | 340.0  | 377.1  | 400.4  | 422.9  | 444.8  | 465.9  | 486.4  | 506.2  | 543.9  | 587.4  |
| *600                          | 329.1  | 349.1  | 389.8  | 431.8  | 457.4  | 482.4  | 506.2  | 529.1  | 551.1  | 572.2  | 611.6  | 655.7  |
| 730                           | 380.8  | 403.5  | 449.6  | 496.8  | 525.0  | 551.9  | 577.4  | 601.5  | 624.3  | 645.7  | 684.4  | 724.9  |
| 800                           | 406.9  | 430.9  | 479.5  | 529.1  | 558.3  | 585.8  | 611.6  | 635.9  | 658.5  | 679.4  | 716.2  | 752.5  |
| 870                           | 432.0  | 457.1  | 508.0  | 559.7  | 589.4  | 617.2  | 643.1  | 667.1  | 689.0  | 709.0  | 742.8  | 773.0  |
| =970                          | 465.8  | 492.4  | 546.0  | 600.2  | 630.3  | 657.9  | 683.2  | 705.9  | 726.1  | 743.8  | 771.1  |        |
| =1170                         | 526.9  | 555.6  | 612.9  | 670.2  | 698.9  | 724.0  | 745.3  | 762.8  | 776.3  | 785.7  | 791.9  |        |
| =1200                         | 535.3  | 564.2  | 621.9  | 679.4  | 707.7  | 732.1  | 752.5  | 768.8  | 780.9  | 788.7  | 790.6  |        |
| =1460                         | 599.8  | 629.7  | 688.1  | 744.8  | 766.1  | 781.2  | 789.9  | 791.9  | 787.0  |        |        |        |
| =1600                         | 628.2  | 657.8  | 714.8  | 768.8  | 784.0  | 791.4  | 790.6  |        |        |        |        |        |
| =1750                         | 653.6  | 682.2  | 736.0  | 785.4  | 791.9  | 788.7  |        |        |        |        |        |        |
| =2000                         | 683.8  | 709.0  | 753.7  | 790.6  |        |        |        |        |        |        |        |        |
| PD: MM                        | 241.92   | 254.65 | 280.11 | 305.58 | 331.04 | 356.51 | 381.97 | 407.44 | 432.90 | 458.37 | 509.30 | 572.96 |
| Inches                        | 9.524  | 10.026 | 11.028 | 12.031 | 13.033 | 14.036 | 15.038 | 16.041 | 17.043 | 18.046 | 20.051 | 22.557 |

Operation in shaded area will result in a reduction of belt life.

\* Refer to page PT11-20 for additional Service Factors for speeds of 600 RPM or less.

= Drives within this speed range may generate an objectionable noise level. This can be reduced by using commercially available acoustical damping material in the belt guard.

|                                  |                               |                                       |  |
|----------------------------------|-------------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SPECIFICATIONS<br>PAGE PT11-4 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|-------------------------------|---------------------------------------|--|





# SELECTION

## HT100 Basic Horsepower Rating

NOTE: Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

| 20M-290<br>RPM Small Sprocket | HT100 Horsepower Rating—290MM Wide Belt (11.42 in.)<br>No. Teeth |        |        |        |        |        |        |        |
|-------------------------------|--|--------|--------|--------|--------|--------|--------|--------|
|                               | 52   | 56     | 60     | 64     | 68     | 72     | 80     | 90     |
| *10                           | 11.8   | 12.7   | 13.5   | 14.2   | 14.9   | 15.6   | 16.9   | 18.6   |
| *20                           | 23.7   | 25.5   | 27.0   | 28.4   | 29.8   | 31.1   | 33.8   | 37.1   |
| *30                           | 35.5   | 38.2   | 40.4   | 42.6   | 44.7   | 46.7   | 50.8   | 55.7   |
| *40                           | 47.3   | 50.9   | 53.9   | 56.7   | 59.5   | 62.3   | 67.7   | 74.2   |
| *50                           | 59.1   | 63.7   | 67.4   | 70.9   | 74.4   | 77.9   | 84.6   | 92.7   |
| *60                           | 71.0   | 76.4   | 80.8   | 85.1   | 89.3   | 93.4   | 101.5  | 111.1  |
| *80                           | 94.6   | 101.9  | 107.8  | 113.4  | 119.0  | 124.5  | 135.3  | 148.3  |
| *100                          | 118.2  | 127.3  | 134.7  | 141.8  | 148.7  | 155.6  | 169.0  | 185.3  |
| *150                          | 177.2  | 190.8  | 201.9  | 212.4  | 222.9  | 233.2  | 253.2  | 277.4  |
| *200                          | 236.1  | 254.2  | 268.9  | 282.9  | 296.8  | 310.4  | 336.9  | 368.9  |
| *300                          | 346.2  | 366.9  | 387.2  | 407.1  | 426.6  | 445.6  | 482.7  | 527.1  |
| *400                          | 433.0  | 458.2  | 482.7  | 506.6  | 529.9  | 552.7  | 596.4  | 648.1  |
| *500                          | 512.5  | 541.4  | 569.4  | 596.4  | 622.7  | 648.1  | 696.4  | 752.3  |
| *600                          | 585.7  | 617.5  | 648.1  | 677.5  | 705.7  | 732.8  | 783.4  | 840.1  |
| 730                           | 672.2  | 706.6  | 739.3  | 770.3  | 799.6  | 827.1  | 877.0  | 929.2  |
| 800                           | 714.9  | 750.1  | 783.4  | 814.5  | 843.6  | 870.6  | 918.1  | 965.1  |
| 870                           | 754.8  | 790.6  | 823.8  | 854.6  | 882.9  | 908.7  | 952.4  | 992.0  |
| =970                          | 807.3  | 842.9  | 875.4  | 904.7  | 930.9  | 953.8  | 989.4  |        |
| =1170                         | 895.7  | 928.1  | 955.7  | 978.5  | 996.3  | 1008.9 | 1018.0 |        |
| =1200                         | 907.0  | 938.5  | 965.1  | 986.4  | 1002.4 | 1012.9 | 1016.7 |        |
| =1460                         | 982.9  | 1002.9 | 1014.7 | 1018.0 |        |        |        |        |
| =1600                         | 1006.5   | 1016.8 | 1016.7 |        |        |        |        |        |
| =1750                         | 1017.7   | 1014.6 |        |        |        |        |        |        |
| =2000                         |  |        |        |        |        |        |        |        |
| PD: MM                        | 331.04   | 356.51 | 381.97 | 407.44 | 432.90 | 458.37 | 509.30 | 572.96 |
| Inches                        | 13.033   | 14.036 | 15.038 | 16.041 | 17.043 | 18.046 | 20.051 | 22.557 |

| 20M-340<br>RPM Small Sprocket | HT100 Horsepower Rating—340MM Wide Belt (13.39 in.)<br>No. Teeth |        |        |        |        |        |        |        |
|-------------------------------|--|--------|--------|--------|--------|--------|--------|--------|
|                               | 52   | 56     | 60     | 64     | 68     | 72     | 80     | 90     |
| *10                           | 14.0   | 15.1   | 15.9   | 16.8   | 17.6   | 18.4   | 20.0   | 21.9   |
| *20                           | 28.0   | 30.1   | 31.9   | 33.5   | 35.2   | 36.8   | 40.0   | 43.9   |
| *30                           | 41.9   | 45.2   | 47.8   | 50.3   | 52.8   | 55.2   | 60.0   | 65.8   |
| *40                           | 55.9   | 60.2   | 63.7   | 67.1   | 70.4   | 73.6   | 80.0   | 87.7   |
| *50                           | 69.9   | 75.3   | 79.6   | 83.8   | 88.0   | 92.0   | 100.0  | 109.6  |
| *60                           | 83.9   | 90.3   | 95.6   | 100.6  | 105.6  | 110.4  | 120.0  | 131.5  |
| *80                           | 111.8  | 120.4  | 127.4  | 134.1  | 140.7  | 147.2  | 159.9  | 175.3  |
| *100                          | 139.8  | 150.5  | 159.2  | 167.6  | 175.8  | 184.0  | 199.8  | 219.0  |
| *150                          | 209.5  | 225.6  | 238.7  | 251.2  | 263.5  | 275.6  | 299.3  | 328.0  |
| *200                          | 279.2  | 300.5  | 317.9  | 334.5  | 350.8  | 366.9  | 398.3  | 436.2  |
| *300                          | 409.3  | 433.8  | 457.8  | 481.3  | 504.3  | 526.9  | 570.7  | 623.1  |
| *400                          | 511.9  | 541.7  | 570.7  | 599.0  | 626.5  | 653.4  | 705.2  | 766.3  |
| *500                          | 605.9  | 640.1  | 673.2  | 705.2  | 736.3  | 766.3  | 823.5  | 889.7  |
| *=600                         | 692.5  | 730.1  | 766.3  | 801.1  | 834.5  | 866.5  | 926.5  | 993.7  |
| =730                          | 794.8  | 835.6  | 874.3  | 911.0  | 945.7  | 978.3  | 1037.4 | 1099.5 |
| =800                          | 845.3  | 887.1  | 926.5  | 963.4  | 997.8  | 1029.8 | 1086.3 | 1142.2 |
| =870                          | 892.7  | 935.0  | 974.4  | 1010.9 | 1044.5 | 1075.1 | 1127.2 | 1174.4 |
| =970                          | 954.8  | 997.0  | 1035.6 | 1070.4 | 1101.5 | 1128.7 | 1171.4 |        |
| =1170                         | 1059.7   | 1098.2 | 1131.1 | 1158.3 | 1179.6 | 1194.8 | 1206.4 |        |
| =1200                         | 1073.1   | 1110.6 | 1142.2 | 1167.7 | 1187.0 | 1199.8 | 1205.2 |        |
| =1460                         | 1163.5   | 1187.5 | 1202.0 | 1206.5 | 1200.6 |        |        |        |
| =1600                         | 1192.0   | 1204.6 | 1205.2 |        |        |        |        |        |
| =1750                         | 1205.8   | 1202.8 |        |        |        |        |        |        |
| =2000                         |  |        |        |        |        |        |        |        |
| PD: MM                        | 331.04   | 356.51 | 381.97 | 407.44 | 432.90 | 458.37 | 509.30 | 572.96 |
| Inches                        | 13.033   | 14.036 | 15.038 | 16.041 | 17.043 | 18.046 | 20.051 | 22.557 |

Operation in shaded area will result in a reduction of belt life.

\* Refer to page PT11-20 for additional Service Factors for speeds of 600 RPM or less.

= Drives within this speed range may generate an objectionable noise level. This can be reduced by using commercially available acoustical damping material in the belt guard.

|                                  |                               |                                       |  |
|----------------------------------|-------------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SPECIFICATIONS<br>PAGE PT11-4 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|-------------------------------|---------------------------------------|--|

# SELECTION



## 5MM Pitch HT200 Belt Drive Selection Table

| Speed Ratio | Sprocket Combinations |                |              |                | Center Distance, Inches |        |        |        |        |        |        |        |        |        |        |        |        |        |        |         |         |         |         |         |         |         |
|-------------|-----------------------|----------------|--------------|----------------|-------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
|             | Driver                |                | Driven       |                | 300-5M                  | 355-5M | 375-5M | 400-5M | 425-5M | 450-5M | 550-5M | 535-5M | 565-5M | 600-5M | 650-5M | 700-5M | 750-5M | 800-5M | 900-5M | 1000-5M | 1150-5M | 1300-5M | 1450-5M | 1600-5M | 1720-5M | 2100-5M |
|             | No. of Teeth          | Pitch Dia. In. | No. of Teeth | Pitch Dia. In. |                         |        |        |        |        |        |        |        |        |        |        |        |        |        |        |         |         |         |         |         |         |         |
|             | Length Factor*        |                |              |                | 0.77                    | 0.81   | 0.83   | 0.84   | 0.86   | 0.88   | 0.90   | 0.92   | 0.94   | 0.95   | 0.98   | 1.00   | 1.01   | 1.03   | 1.06   | 1.09    | 1.13    | 1.16    | 1.19    | 1.22    | 1.24    | 1.29    |
| 1.00        | 32                    | 2.005          | 32           | 2.005          | 2.76                    | 3.84   | 4.23   | 4.73   | 5.22   | 5.71   | 6.69   | 7.38   | 7.97   | 8.66   | 9.65   | 10.63  | 11.62  | 12.60  | 14.57  | 16.54   | 19.49   | 22.44   | 25.40   | 28.35   | 30.71   | 38.19   |
| 1.00        | 34                    | 2.130          | 34           | 2.130          | 2.56                    | 3.64   | 4.03   | 4.53   | 5.02   | 5.51   | 6.49   | 7.18   | 7.77   | 8.46   | 9.45   | 10.43  | 11.42  | 12.40  | 14.37  | 16.34   | 19.29   | 22.24   | 25.20   | 28.15   | 30.51   | 37.99   |
| 1.00        | 36                    | 2.256          | 36           | 2.256          | ...                     | 3.45   | 3.84   | 4.33   | 4.82   | 5.32   | 6.30   | 6.99   | 7.58   | 8.27   | 9.25   | 10.24  | 11.22  | 12.21  | 14.17  | 16.14   | 19.10   | 22.05   | 25.00   | 27.95   | 30.32   | 37.80   |
| 1.00        | 38                    | 2.381          | 38           | 2.381          | ...                     | 3.25   | 3.64   | 4.13   | 4.62   | 5.12   | 6.10   | 6.79   | 7.38   | 8.07   | 9.05   | 10.04  | 11.02  | 12.01  | 13.97  | 15.94   | 18.90   | 21.85   | 24.80   | 27.75   | 30.12   | 37.60   |
| 1.00        | 40                    | 2.506          | 40           | 2.506          | ...                     | 3.05   | 3.44   | 3.94   | 4.43   | 4.92   | 5.90   | 6.59   | 7.18   | 7.87   | 8.86   | 9.84   | 10.83  | 11.81  | 13.78  | 15.75   | 18.70   | 21.65   | 24.61   | 27.56   | 29.92   | 37.40   |
| 1.00        | 44                    | 2.757          | 44           | 2.757          | ...                     | ...    | ...    | 3.54   | 4.03   | 4.53   | 5.51   | 6.20   | 6.79   | 7.48   | 8.46   | 9.45   | 10.43  | 11.42  | 13.38  | 15.35   | 18.31   | 21.26   | 24.21   | 27.16   | 29.53   | 37.01   |
| 1.00        | 48                    | 3.008          | 48           | 3.008          | ...                     | ...    | ...    | ...    | 3.64   | 4.14   | 5.12   | 5.81   | 6.40   | 7.09   | 8.07   | 9.06   | 10.04  | 11.03  | 12.99  | 14.96   | 17.92   | 20.87   | 23.82   | 26.77   | 29.14   | 36.62   |
| 1.00        | 52                    | 3.258          | 52           | 3.258          | ...                     | ...    | ...    | ...    | ...    | 3.74   | 4.72   | 5.41   | 6.00   | 6.69   | 7.68   | 8.66   | 9.65   | 10.63  | 12.60  | 14.57   | 17.52   | 20.47   | 23.43   | 26.38   | 28.74   | 36.22   |
| 1.00        | 56                    | 3.509          | 56           | 3.509          | ...                     | ...    | ...    | ...    | ...    | ...    | 4.33   | 5.02   | 5.61   | 6.30   | 7.28   | 8.27   | 9.25   | 10.24  | 12.20  | 14.17   | 17.13   | 20.08   | 23.03   | 25.98   | 28.35   | 35.83   |
| 1.00        | 60                    | 3.760          | 60           | 3.760          | ...                     | ...    | ...    | ...    | ...    | ...    | 4.62   | 5.21   | 5.90   | 6.59   | 7.58   | 8.57   | 9.56   | 10.54  | 12.51  | 14.48   | 17.43   | 20.38   | 23.33   | 25.69   | 27.95   | 35.43   |
| 1.00        | 64                    | 4.010          | 64           | 4.010          | ...                     | ...    | ...    | ...    | ...    | ...    | ...    | 4.82   | 5.51   | 6.20   | 7.18   | 8.17   | 9.16   | 10.14  | 12.11  | 14.08   | 17.03   | 19.98   | 22.93   | 25.29   | 27.56   | 35.04   |
| 1.00        | 68                    | 4.261          | 68           | 4.261          | ...                     | ...    | ...    | ...    | ...    | ...    | ...    | ...    | 5.12   | 6.10   | 7.09   | 8.07   | 9.06   | 10.04  | 12.01  | 13.98   | 16.93   | 19.88   | 22.83   | 25.19   | 27.46   | 34.94   |
| 1.04        | 50                    | 3.133          | 52           | 3.258          | ...                     | ...    | ...    | ...    | ...    | 3.84   | 4.82   | 5.51   | 6.10   | 6.79   | 7.78   | 8.76   | 9.75   | 10.73  | 12.70  | 14.67   | 17.62   | 20.57   | 23.53   | 26.48   | 28.84   | 36.32   |
| 1.05        | 38                    | 2.381          | 40           | 2.506          | ...                     | 3.15   | 3.54   | 4.04   | 4.53   | 5.02   | 6.00   | 6.69   | 7.28   | 7.97   | 8.96   | 9.94   | 10.93  | 11.91  | 13.88  | 15.85   | 18.80   | 21.75   | 24.71   | 27.66   | 30.02   | 37.50   |
| 1.06        | 36                    | 2.256          | 38           | 2.381          | ...                     | 3.35   | 3.74   | 4.23   | 4.72   | 5.22   | 6.20   | 6.89   | 7.48   | 8.17   | 9.15   | 10.14  | 11.12  | 12.11  | 14.07  | 16.04   | 19.00   | 21.95   | 24.90   | 27.85   | 30.22   | 37.70   |
| 1.06        | 34                    | 2.130          | 36           | 2.256          | ...                     | 3.54   | 3.93   | 4.43   | 4.92   | 5.41   | 6.39   | 7.08   | 7.67   | 8.37   | 9.35   | 10.34  | 11.32  | 12.31  | 14.27  | 16.24   | 19.20   | 22.15   | 25.10   | 28.05   | 30.42   | 37.90   |
| 1.06        | 68                    | 4.261          | 72           | 4.511          | ...                     | ...    | ...    | ...    | ...    | ...    | ...    | ...    | ...    | 4.92   | 5.90   | 6.89   | 7.87   | 8.86   | 10.82  | 12.79   | 15.75   | 18.70   | 21.66   | 24.61   | 26.97   | 34.45   |
| 1.06        | 32                    | 2.005          | 34           | 2.130          | 2.66                    | 3.74   | 4.13   | 4.63   | 5.12   | 5.61   | 6.59   | 7.28   | 7.87   | 8.56   | 9.55   | 10.53  | 11.52  | 12.50  | 14.47  | 16.44   | 19.39   | 22.34   | 25.30   | 28.25   | 30.61   | 38.09   |
| 1.06        | 64                    | 4.010          | 68           | 4.261          | ...                     | ...    | ...    | ...    | ...    | ...    | ...    | ...    | 4.62   | 5.31   | 6.30   | 7.28   | 8.27   | 9.25   | 11.22  | 13.19   | 16.14   | 19.09   | 22.05   | 25.00   | 27.36   | 34.84   |
| 1.07        | 60                    | 3.760          | 64           | 4.010          | ...                     | ...    | ...    | ...    | ...    | ...    | ...    | 4.43   | 5.02   | 5.71   | 6.69   | 7.68   | 8.66   | 9.65   | 11.61  | 13.58   | 16.54   | 19.49   | 22.44   | 25.39   | 27.76   | 35.24   |
| 1.07        | 56                    | 3.509          | 60           | 3.760          | ...                     | ...    | ...    | ...    | ...    | ...    | 4.13   | 4.82   | 5.41   | 6.10   | 7.08   | 8.07   | 9.06   | 10.04  | 12.01  | 13.98   | 16.93   | 19.88   | 22.84   | 25.79   | 28.15   | 35.63   |
| 1.08        | 52                    | 3.258          | 56           | 3.509          | ...                     | ...    | ...    | ...    | ...    | ...    | 4.52   | 5.21   | 5.80   | 6.49   | 7.48   | 8.46   | 9.45   | 10.43  | 12.40  | 14.37   | 17.32   | 20.27   | 23.23   | 26.18   | 28.54   | 36.02   |
| 1.08        | 48                    | 3.008          | 52           | 3.258          | ...                     | ...    | ...    | ...    | ...    | 3.94   | 4.92   | 5.61   | 6.20   | 6.89   | 7.87   | 8.86   | 9.84   | 10.83  | 12.79  | 14.76   | 17.72   | 20.67   | 23.62   | 26.57   | 28.94   | 36.42   |
| 1.09        | 44                    | 2.757          | 48           | 3.008          | ...                     | ...    | ...    | 3.34   | 3.84   | 4.33   | 5.31   | 6.00   | 6.59   | 7.28   | 8.27   | 9.25   | 10.24  | 11.22  | 13.19  | 15.16   | 18.11   | 21.06   | 24.02   | 26.97   | 29.33   | 36.81   |
| 1.10        | 40                    | 2.506          | 44           | 2.757          | ...                     | ...    | 3.24   | 3.74   | 4.23   | 4.72   | 5.71   | 6.40   | 6.99   | 7.68   | 8.66   | 9.65   | 10.63  | 11.62  | 13.58  | 15.55   | 18.51   | 21.46   | 24.41   | 27.36   | 29.73   | 37.21   |
| 1.11        | 36                    | 2.256          | 40           | 2.506          | ...                     | 3.25   | 3.64   | 4.13   | 4.62   | 5.12   | 6.10   | 6.79   | 7.38   | 8.07   | 9.05   | 10.04  | 11.02  | 12.01  | 13.97  | 15.94   | 18.90   | 21.85   | 24.80   | 27.75   | 30.12   | 37.60   |
| 1.12        | 34                    | 2.130          | 38           | 2.381          | ...                     | 3.44   | 3.84   | 4.33   | 4.82   | 5.32   | 6.30   | 6.99   | 7.58   | 8.27   | 9.25   | 10.24  | 11.22  | 12.21  | 14.17  | 16.14   | 19.10   | 22.05   | 25.00   | 27.95   | 30.32   | 37.80   |
| 1.13        | 32                    | 2.005          | 36           | 2.256          | 2.56                    | 3.64   | 4.03   | 4.53   | 5.02   | 5.51   | 6.49   | 7.18   | 7.77   | 8.46   | 9.45   | 10.43  | 11.42  | 12.40  | 14.37  | 16.34   | 19.29   | 22.24   | 25.20   | 28.15   | 30.51   | 37.99   |
| 1.13        | 64                    | 4.010          | 72           | 4.511          | ...                     | ...    | ...    | ...    | ...    | ...    | ...    | ...    | 4.42   | 5.11   | 6.10   | 7.08   | 8.07   | 9.05   | 11.02  | 12.99   | 15.95   | 18.90   | 21.85   | 24.80   | 27.17   | 34.65   |
| 1.13        | 60                    | 3.760          | 68           | 4.261          | ...                     | ...    | ...    | ...    | ...    | ...    | ...    | ...    | 4.81   | 5.50   | 6.49   | 7.48   | 8.46   | 9.45   | 11.41  | 13.38   | 16.34   | 19.29   | 22.24   | 25.19   | 27.56   | 35.04   |
| 1.14        | 56                    | 3.509          | 64           | 4.010          | ...                     | ...    | ...    | ...    | ...    | ...    | ...    | 4.62   | 5.21   | 5.90   | 6.89   | 7.87   | 8.86   | 9.84   | 11.81  | 13.78   | 16.73   | 19.68   | 22.64   | 25.59   | 27.95   | 35.43   |
| 1.15        | 52                    | 3.258          | 60           | 3.760          | ...                     | ...    | ...    | ...    | ...    | ...    | 4.32   | 5.01   | 5.60   | 6.29   | 7.28   | 8.26   | 9.25   | 10.23  | 12.20  | 14.17   | 17.13   | 20.08   | 23.03   | 25.98   | 28.35   | 35.83   |
| 1.16        | 38                    | 2.381          | 44           | 2.757          | ...                     | 2.95   | 3.34   | 3.84   | 4.33   | 4.82   | 5.80   | 6.49   | 7.08   | 7.77   | 8.76   | 9.74   | 10.73  | 11.71  | 13.68  | 15.65   | 18.60   | 21.55   | 24.51   | 27.46   | 29.82   | 37.30   |
| 1.17        | 48                    | 3.008          | 56           | 3.509          | ...                     | ...    | ...    | ...    | ...    | 3.73   | 4.71   | 5.41   | 6.00   | 6.69   | 7.67   | 8.66   | 9.64   | 10.63  | 12.59  | 14.56   | 17.52   | 20.47   | 23.43   | 26.38   | 28.74   | 36.22   |
| 1.18        | 34                    | 2.130          | 40           | 2.506          | ...                     | 3.34   | 3.73   | 4.23   | 4.72   | 5.22   | 6.20   | 6.89   | 7.48   | 8.17   | 9.15   | 10.14  | 11.12  | 12.11  | 14.07  | 16.04   | 19.00   | 21.95   | 24.90   | 27.85   | 30.22   | 37.70   |
| 1.18        | 68                    | 4.261          | 80           | 5.013          | ...                     | ...    | ...    | ...    | ...    | ...    | ...    | ...    | ...    | ...    | 5.50   | 6.49   | 7.47   | 8.46   | 10.42  | 12.40   | 15.35   | 18.30   | 21.26   | 24.21   | 26.57   | 34.05   |
| 1.18        | 44                    | 2.757          | 52           | 3.258          | ...                     | ...    | ...    | ...    | 3.63   | 4.13   | 5.11   | 5.80   | 6.39   | 7.08   | 8.07   | 9.05   | 10.04  | 11.02  | 12.99  | 14.96   | 17.91   | 20.86   | 23.82   | 26.77   | 29.13   | 36.61   |
| 1.19        | 32                    | 2.005          | 38           | 2.381          | ...                     | 3.54   | 3.93   | 4.43   | 4.92   | 5.41   | 6.39   | 7.08   | 7.67   | 8.36   | 9.35   | 10.33  | 11.32  | 12.30  | 14.27  | 16.24   | 19.19   | 22.14   | 25.10   | 28.05   | 30.41   | 37.89   |
| 1.20        | 40                    | 2.506          | 48           | 3.008          | ...                     | ...    | ...    | 3.54   | 4.03   | 4.52   | 5.50   | 6.19   | 6.78   | 7.48   | 8.46   | 9.45   | 10.43  | 11.42  | 13.38  | 15.35   | 18.31   | 21.26   | 24.21   | 27.16   | 29.53   | 37.01   |
| 1.20        | 60                    | 3.760          | 72           | 4.511          | ...                     | ...    | ...    | ...    | ...    | ...    | ...    | ...    | 4.61   | 5.30   | 6.29   | 7.27   | 8.26   | 9.25   | 11.21  | 13.18   | 16.14   | 19.09   | 22.05   | 25.00   | 27.36   | 34.84   |
| 1.21        | 56                    | 3.509          | 68           | 4.261          | ...                     | ...    | ...    | ...    | ...    | ...    | ...    | 4.41   | 5.00   | 5.70   | 6.68   | 7.67   | 8.65   | 9.64   | 11.61  | 13.58   | 16.53   | 19.48   | 22.44   | 25.39   | 27.75   | 35.24   |
| 1.22        | 36                    | 2.256          | 44           | 2.757          | ...                     | 3.04   | 3.43   | 3.93   | 4.42   | 4.92   | 5.90   | 6.59   | 7.18   | 7.87   | 8.85   | 9.84   | 10.82  | 11.81  | 13.78  | 15.75   | 18.70   | 21.65   | 24.61   | 27.56   | 29.92   | 37.40   |
| 1.23        | 52                    | 3.258          | 64           | 4.010          | ...                     | ...    | ...    | ...    | ...    | ...    | 4.11   | 4.81   | 5.40   | 6.09   | 7.08   | 8.06   | 9.05   | 10.03  | 12.00  | 13.97   | 16.93   | 19.88   | 22.83   | 25.78   | 28.15   | 35.63   |
| 1.25        | 32                    | 2.005          | 40           | 2.506          | ...                     | 3.44   | 3.83   | 4.32   | 4.82   | 5.31   | 6.29   | 6.98   | 7.57   | 8.26   | 9.25   | 10.23  | 11.22  | 12.20  | 14.17  | 16.14   | 19.10   | 22.05   | 25.00   | 27.95   | 30.32   | 37.80   |
| 1.25        | 48                    | 3.008          | 60           | 3.760          | ...                     | ...    | ...    | ...    | ...    | ...    | 4.51   | 5.20   | 5.79   | 6.48   | 7.47   | 8.46   | 9.44   | 10.43  | 12.39  | 14.36   | 17.32   | 20.27   | 23.23   | 26.18   | 28.54   | 36.02   |
| 1.25        | 64                    | 4.010          | 80           | 5.013          | ...                     | ...    | ...    | ...    | ...    | ...    | ...    | ...    | ...    | 4.70   | 5.69   | 6.67   | 7.66   | 8.65   | 10.62  | 12.59   | 15.55   | 18.50   | 21.45   | 24.40   | 26.77   | 34.25   |
| 1.26        | 38                    | 2.381          | 48           | 3.008          | ...                     | ...    | 3.13   | 3.63   | 4.12   | 4.62   | 5.60   | 6.29   | 6.88   | 7.57   | 8.56   | 9.54   | 10.53  | 11.51  | 13.48  | 15.45   | 18.40   | 21.36   | 24.31   | 27.26   | 29.63   | 37.11   |
| 1.27        | 44                    | 2.757          | 56           | 3.509          | ...                     | ...    | ...    | ...    | ...    | 3.92   | 4.90   | 5.60   | 6.19   |        |        |        |        |        |        |         |         |         |         |         |         |         |



# SELECTION

## 5MM Pitch HT200 Belt Drive Selection Table

| Speed Ratio           | Sprocket Combinations |                |              |                | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|----------------|--------------|----------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                | Driven       |                | 300-5M                  | 355-5M      | 375-5M      | 400-5M      | 425-5M      | 450-5M      | 550-5M      | 535-5M      | 565-5M      | 600-5M      | 650-5M      | 700-5M      | 750-5M      | 800-5M      | 900-5M      | 1000-5M     | 1150-5M     | 1300-5M     | 1450-5M     | 1600-5M     | 1720-5M     | 2100-5M     |
|                       | No. of Teeth          | Pitch Dia. In. | No. of Teeth | Pitch Dia. In. |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                |              |                | <b>0.77</b>             | <b>0.81</b> | <b>0.83</b> | <b>0.84</b> | <b>0.86</b> | <b>0.88</b> | <b>0.90</b> | <b>0.92</b> | <b>0.94</b> | <b>0.95</b> | <b>0.98</b> | <b>1.00</b> | <b>1.01</b> | <b>1.03</b> | <b>1.06</b> | <b>1.09</b> | <b>1.13</b> | <b>1.16</b> | <b>1.19</b> | <b>1.22</b> | <b>1.24</b> | <b>1.29</b> |
| 1.39                  | 52                    | 3.258          | 72           | 4.511          | ...                     | ...         | ...         | ...         | ...         | ...         | 4.38        | 4.98        | 5.67        | 6.66        | 7.65        | 8.64        | 9.63        | 11.60       | 13.57       | 16.53       | 19.48       | 22.43       | 25.39       | 27.75       | 35.23       |             |
| 1.40                  | 40                    | 2.506          | 56           | 3.509          | ...                     | ...         | ...         | ...         | 3.61        | 4.11        | 5.09        | 5.78        | 6.38        | 7.07        | 8.06        | 9.04        | 10.03       | 11.01       | 12.98       | 14.95       | 17.91       | 20.86       | 23.82       | 26.77       | 29.13       | 36.61       |
| 1.41                  | 64                    | 4.010          | 90           | 5.639          | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 5.15        | 6.15        | 7.14        | 8.13        | 10.10       | 12.08       | 15.04       | 17.99       | 20.95       | 23.90       | 26.27       | 33.75       |
| 1.41                  | 34                    | 2.130          | 48           | 3.008          | ...                     | 2.92        | 3.32        | 3.81        | 4.31        | 4.80        | 5.79        | 6.48        | 7.07        | 7.76        | 8.75        | 9.73        | 10.72       | 11.71       | 13.67       | 15.64       | 18.60       | 21.55       | 24.51       | 27.46       | 29.82       | 37.30       |
| 1.42                  | 48                    | 3.008          | 68           | 4.261          | ...                     | ...         | ...         | ...         | ...         | ...         | 4.08        | 4.78        | 5.37        | 6.07        | 7.06        | 8.05        | 9.03        | 10.02       | 11.99       | 13.96       | 16.92       | 19.87       | 22.83       | 25.78       | 28.14       | 35.63       |
| 1.43                  | 56                    | 3.509          | 80           | 5.013          | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 5.06        | 6.06        | 7.05        | 8.04        | 9.03        | 11.00       | 12.97       | 15.93       | 18.88       | 21.84       | 24.79       | 27.16       | 34.64       |
| 1.44                  | 36                    | 2.256          | 52           | 3.258          | ...                     | ...         | ...         | 3.51        | 4.00        | 4.50        | 5.49        | 6.18        | 6.77        | 7.46        | 8.45        | 9.44        | 10.42       | 11.41       | 13.37       | 15.35       | 18.30       | 21.25       | 24.21       | 27.16       | 29.53       | 37.01       |
| 1.46                  | 44                    | 2.757          | 64           | 4.010          | ...                     | ...         | ...         | ...         | ...         | ...         | 4.48        | 5.18        | 5.77        | 6.46        | 7.45        | 8.44        | 9.43        | 10.42       | 12.38       | 14.36       | 17.31       | 20.27       | 23.22       | 26.17       | 28.54       | 36.02       |
| 1.47                  | 38                    | 2.381          | 56           | 3.509          | ...                     | ...         | ...         | ...         | 3.70        | 4.20        | 5.18        | 5.88        | 6.47        | 7.16        | 8.15        | 9.14        | 10.12       | 11.11       | 13.08       | 15.05       | 18.01       | 20.96       | 23.91       | 26.86       | 29.23       | 36.71       |
| 1.50                  | 32                    | 2.005          | 48           | 3.008          | ...                     | 3.01        | 3.41        | 3.91        | 4.40        | 4.90        | 5.88        | 6.57        | 7.17        | 7.86        | 8.84        | 9.83        | 10.82       | 11.80       | 13.77       | 15.75       | 18.70       | 21.65       | 24.60       | 27.55       | 29.92       | 37.40       |
| 1.50                  | 40                    | 2.506          | 60           | 3.760          | ...                     | ...         | ...         | ...         | ...         | 3.89        | 4.88        | 5.57        | 6.17        | 6.86        | 7.85        | 8.84        | 9.82        | 10.81       | 12.78       | 14.75       | 17.71       | 20.66       | 23.62       | 26.57       | 28.93       | 36.41       |
| 1.50                  | 48                    | 3.008          | 72           | 4.511          | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | 4.56        | 5.16        | 5.86        | 6.85        | 7.84        | 8.83        | 9.82        | 11.79       | 13.76       | 16.72       | 19.67       | 22.63       | 25.58       | 27.94       | 35.43       |
| 1.50                  | 60                    | 3.760          | 90           | 5.639          | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 5.33        | 6.33        | 7.32        | 8.31        | 10.29       | 12.27       | 15.23       | 18.18       | 21.14       | 24.09       | 26.46       | 33.95       |
| 1.53                  | 34                    | 2.130          | 52           | 3.258          | ...                     | ...         | 3.10        | 3.60        | 4.09        | 4.59        | 5.58        | 6.27        | 6.87        | 7.56        | 8.54        | 9.53        | 10.52       | 11.50       | 13.47       | 15.44       | 18.40       | 21.35       | 24.31       | 27.26       | 29.62       | 37.10       |
| 1.54                  | 52                    | 3.258          | 80           | 5.013          | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | 4.54        | 5.24        | 6.24        | 7.23        | 8.22        | 9.21        | 11.18       | 13.16       | 16.12       | 19.07       | 22.03       | 24.98       | 27.35       | 34.83       |             |
| 1.55                  | 44                    | 2.757          | 68           | 4.261          | ...                     | ...         | ...         | ...         | ...         | ...         | 4.26        | 4.96        | 5.56        | 6.25        | 7.24        | 8.23        | 9.22        | 10.21       | 12.18       | 14.15       | 17.11       | 20.06       | 23.02       | 25.97       | 28.34       | 35.82       |
| 1.56                  | 36                    | 2.256          | 56           | 3.509          | ...                     | ...         | ...         | 3.29        | 3.79        | 4.29        | 5.27        | 5.97        | 6.56        | 7.26        | 8.24        | 9.23        | 10.22       | 11.20       | 13.17       | 15.14       | 18.10       | 21.05       | 24.01       | 26.96       | 29.33       | 36.81       |
| 1.58                  | 38                    | 2.381          | 60           | 3.760          | ...                     | ...         | ...         | ...         | 3.47        | 3.98        | 4.97        | 5.66        | 6.26        | 6.95        | 7.94        | 8.93        | 9.92        | 10.91       | 12.87       | 14.85       | 17.80       | 20.76       | 23.71       | 26.66       | 29.03       | 36.51       |
| 1.60                  | 40                    | 2.506          | 64           | 4.010          | ...                     | ...         | ...         | ...         | ...         | 3.66        | 4.66        | 5.36        | 5.95        | 6.65        | 7.64        | 8.63        | 9.62        | 10.61       | 12.57       | 14.55       | 17.51       | 20.46       | 23.42       | 26.37       | 28.73       | 36.21       |
| 1.61                  | 56                    | 3.509          | 90           | 5.639          | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 5.51        | 6.51        | 7.50        | 8.50        | 10.48       | 12.45       | 15.42       | 18.37       | 21.33       | 24.29       | 26.65       | 34.14       |
| 1.63                  | 32                    | 2.005          | 52           | 3.258          | ...                     | ...         | 3.18        | 3.69        | 4.18        | 4.68        | 5.67        | 6.37        | 6.96        | 7.65        | 8.64        | 9.63        | 10.61       | 11.60       | 13.57       | 15.54       | 18.50       | 21.45       | 24.40       | 27.35       | 29.72       | 37.20       |
| 1.64                  | 44                    | 2.757          | 72           | 4.511          | ...                     | ...         | ...         | ...         | ...         | ...         | 4.04        | 4.74        | 5.34        | 6.04        | 7.03        | 8.02        | 9.01        | 10.00       | 11.97       | 13.95       | 16.91       | 19.86       | 22.82       | 25.77       | 28.14       | 35.62       |
| 1.65                  | 34                    | 2.130          | 56           | 3.509          | ...                     | ...         | ...         | 3.38        | 3.87        | 4.38        | 5.37        | 6.06        | 6.66        | 7.35        | 8.34        | 9.33        | 10.31       | 11.30       | 13.27       | 15.24       | 18.20       | 21.15       | 24.11       | 27.06       | 29.42       | 36.90       |
| 1.65                  | 68                    | 4.261          | 112          | 7.018          | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 6.75        | 7.75        | 8.75        | 10.74       | 13.71       | 16.67       | 19.64       | 22.59       | 24.96       | 32.45       |
| 1.67                  | 36                    | 2.256          | 60           | 3.760          | ...                     | ...         | ...         | ...         | 3.56        | 4.07        | 5.06        | 5.76        | 6.35        | 7.04        | 8.03        | 9.02        | 10.01       | 11.00       | 12.97       | 14.94       | 17.90       | 20.85       | 23.81       | 26.76       | 29.13       | 36.61       |
| 1.67                  | 48                    | 3.008          | 80           | 5.013          | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | 4.71        | 5.42        | 6.42        | 7.41        | 8.41        | 9.40        | 11.37       | 13.35       | 16.31       | 19.26       | 22.22       | 25.18       | 27.54       | 35.03       |             |
| 1.68                  | 38                    | 2.381          | 64           | 4.010          | ...                     | ...         | ...         | ...         | 3.75        | 4.75        | 5.45        | 6.05        | 6.74        | 7.73        | 8.72        | 9.71        | 10.70       | 12.67       | 14.64       | 17.60       | 20.55       | 23.51       | 26.46       | 28.83       | 36.31       |             |
| 1.70                  | 40                    | 2.506          | 68           | 4.261          | ...                     | ...         | ...         | ...         | ...         | ...         | 4.44        | 5.14        | 5.74        | 6.44        | 7.43        | 8.42        | 9.41        | 10.40       | 12.37       | 14.34       | 17.30       | 20.26       | 23.21       | 26.17       | 28.53       | 36.01       |
| 1.73                  | 52                    | 3.258          | 90           | 5.639          | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 4.67        | 5.68        | 6.69        | 7.68        | 8.68        | 10.66       | 12.64       | 15.61       | 18.56       | 21.52       | 24.48       | 26.85       | 34.33       |
| 1.75                  | 32                    | 2.005          | 56           | 3.509          | ...                     | ...         | ...         | 3.46        | 3.96        | 4.47        | 5.46        | 6.15        | 6.75        | 7.44        | 8.43        | 9.42        | 10.41       | 11.39       | 13.36       | 15.34       | 18.29       | 21.25       | 24.20       | 27.15       | 29.52       | 37.00       |
| 1.75                  | 64                    | 4.010          | 112          | 7.018          | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 5.91        | 6.92        | 7.93        | 9.92        | 12.90       | 15.86       | 18.83       | 21.78       | 24.15       | 31.64       |
| 1.77                  | 34                    | 2.130          | 60           | 3.760          | ...                     | ...         | ...         | ...         | 3.65        | 4.15        | 5.15        | 5.85        | 6.44        | 7.14        | 8.13        | 9.12        | 10.11       | 11.09       | 13.06       | 15.04       | 18.00       | 20.95       | 23.91       | 26.86       | 29.22       | 36.70       |
| 1.78                  | 36                    | 2.256          | 64           | 4.010          | ...                     | ...         | ...         | ...         | ...         | 3.84        | 4.84        | 5.54        | 6.14        | 6.83        | 7.82        | 8.82        | 9.80        | 10.79       | 12.76       | 14.74       | 17.70       | 20.65       | 23.61       | 26.56       | 28.93       | 36.41       |
| 1.79                  | 38                    | 2.381          | 68           | 4.261          | ...                     | ...         | ...         | ...         | ...         | ...         | 4.53        | 5.23        | 5.83        | 6.53        | 7.52        | 8.51        | 9.50        | 10.49       | 12.46       | 14.44       | 17.40       | 20.35       | 23.31       | 26.26       | 28.63       | 36.11       |
| 1.80                  | 40                    | 2.506          | 72           | 4.511          | ...                     | ...         | ...         | ...         | ...         | ...         | 4.21        | 4.92        | 5.52        | 6.22        | 7.21        | 8.21        | 9.20        | 10.19       | 12.16       | 14.14       | 17.10       | 20.05       | 23.01       | 25.96       | 28.33       | 35.81       |
| 1.80                  | 50                    | 3.133          | 90           | 5.639          | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 4.75        | 5.77        | 6.77        | 7.77        | 8.77        | 10.75       | 12.73       | 15.70       | 18.66       | 21.62       | 24.57       | 26.94       | 34.43       |
| 1.82                  | 44                    | 2.757          | 80           | 5.013          | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | 4.28        | 4.89        | 5.59        | 6.60        | 7.59        | 8.59        | 9.58        | 11.56       | 13.54       | 16.50       | 19.45       | 22.41       | 25.37       | 27.73       | 35.22       |
| 1.87                  | 60                    | 3.760          | 112          | 7.018          | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 6.08        | 7.10        | 9.10        | 11.10       | 14.08       | 17.05       | 20.01       | 22.97       | 25.34       | 32.83       |
| 1.88                  | 32                    | 2.005          | 60           | 3.760          | ...                     | ...         | ...         | 3.23        | 3.73        | 4.24        | 5.24        | 5.94        | 6.53        | 7.23        | 8.22        | 9.21        | 10.20       | 11.19       | 13.16       | 15.13       | 18.09       | 21.04       | 24.00       | 26.95       | 29.32       | 36.80       |
| 1.88                  | 48                    | 3.008          | 90           | 5.639          | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 4.84        | 5.86        | 6.86        | 7.86        | 8.86        | 10.84       | 12.83       | 15.79       | 18.75       | 21.71       | 24.67       | 27.04       | 34.52       |
| 1.88                  | 34                    | 2.130          | 64           | 4.010          | ...                     | ...         | ...         | ...         | 3.41        | 3.92        | 4.93        | 5.63        | 6.23        | 6.92        | 7.92        | 8.91        | 9.90        | 10.89       | 12.86       | 14.83       | 17.79       | 20.75       | 23.70       | 26.66       | 29.02       | 36.51       |
| 1.89                  | 36                    | 2.256          | 68           | 4.261          | ...                     | ...         | ...         | ...         | ...         | 3.60        | 4.61        | 5.32        | 5.92        | 6.62        | 7.61        | 8.60        | 9.59        | 10.58       | 12.56       | 14.53       | 17.49       | 20.45       | 23.41       | 26.36       | 28.72       | 36.21       |
| 1.90                  | 38                    | 2.381          | 72           | 4.511          | ...                     | ...         | ...         | ...         | ...         | ...         | 4.29        | 5.00        | 5.61        | 6.31        | 7.30        | 8.30        | 9.29        | 10.28       | 12.26       | 14.23       | 17.19       | 20.15       | 23.11       | 26.06       | 28.43       | 35.91       |
| 2.00                  | 32                    | 2.005          | 64           | 4.010          | ...                     | ...         | ...         | ...         | 3.50        | 4.01        | 5.02        | 5.72        | 6.32        | 7.01        | 8.01        | 9.00        | 9.99        | 10.98       | 12.95       | 14.93       | 17.89       | 20.84       | 23.80       | 26.75       | 29.12       | 36.60       |
| 2.00                  | 34                    | 2.130          | 68           | 4.261          | ...                     | ...         | ...         | ...         | ...         | 3.69        | 4.70        | 5.41        | 6.01        | 6.71        | 7.71        | 8.70        | 9.69        | 10.68       | 12.65       | 14.63       | 17.59       | 20.54       | 23.50       | 26.45       | 28.82       | 36.30       |
| 2.00                  | 36                    | 2.256          | 72           | 4.511          | ...                     | ...         | ...         | ...         | ...         | ...         | 4.38        | 5.09        | 5.69        | 6.40        | 7.39        | 8.39        | 9.38        | 10.37       | 12.35       | 14.33       | 17.29       | 20.24       | 23.20       | 26.16       | 28.52       | 36.01       |
| 2.00                  | 40                    | 2.506          | 80           | 5.013          | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | 4.45        | 5.06        | 5.77        | 6.77        | 7.77        | 8.77        | 9.76        | 11.74       | 13.72       | 16.69       | 19.64       | 22.60       | 25.56       | 27.93       | 35.41       |
| 2.00                  | 56                    | 3.509          | 112          | 7.018          | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 6.25        | 7.27        | 9.28        | 11.28       | 14.26       | 17.23       | 20.20       | 23.16       | 25.53       | 33.03       |
| 2.05                  | 44                    | 2.757          | 90           | 5.639          | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 5.01        | 6.03        | 7.04        | 8.04        | 9.04        | 11.03       | 13.01       | 15.98       | 18.94       | 21.90       | 24.86       | 27.23       |

# SELECTION



## 5MM Pitch HT200 Belt Drive Selection Table

| Speed Ratio | Sprocket Combinations |                |              |                | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-------------|-----------------------|----------------|--------------|----------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|             | Driver                |                | Driven       |                | 300-5M                  | 355-5M      | 375-5M      | 400-5M      | 425-5M      | 450-5M      | 550-5M      | 535-5M      | 565-5M      | 600-5M      | 650-5M      | 700-5M      | 750-5M      | 800-5M      | 900-5M      | 1000-5M     | 1150-5M     | 1300-5M     | 1450-5M     | 1600-5M     | 1720-5M     | 2100-5M     |
|             | No. of Teeth          | Pitch Dia. In. | No. of Teeth | Pitch Dia. In. |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|             | <b>Length Factor*</b> |                |              |                | <b>0.77</b>             | <b>0.81</b> | <b>0.83</b> | <b>0.84</b> | <b>0.86</b> | <b>0.88</b> | <b>0.90</b> | <b>0.92</b> | <b>0.94</b> | <b>0.95</b> | <b>0.98</b> | <b>1.00</b> | <b>1.01</b> | <b>1.03</b> | <b>1.06</b> | <b>1.09</b> | <b>1.13</b> | <b>1.16</b> | <b>1.19</b> | <b>1.22</b> | <b>1.24</b> | <b>1.29</b> |
| 2.50        | 32                    | 2.005          | 80           | 5.013          | ...                     | ...         | ...         | ...         | ...         | ...         | 4.05        | 4.78        | 5.40        | 6.11        | 7.12        | 8.13        | 9.13        | 10.13       | 12.11       | 14.09       | 17.06       | 20.02       | 22.98       | 25.94       | 28.31       | 35.80       |
| 2.50        | 36                    | 2.256          | 90           | 5.639          | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 4.60        | 5.34        | 6.37        | 7.38        | 8.39        | 9.40        | 11.39       | 13.38       | 16.35       | 19.32       | 22.28       | 25.24       | 27.61       | 35.10       |
| 2.55        | 44                    | 2.757          | 112          | 7.018          | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 5.70        | 6.75        | 7.78        | 9.81        | 11.82       | 14.81       | 17.78       | 20.76       | 23.72       | 26.10       | 33.60       |             |
| 2.65        | 34                    | 2.130          | 90           | 5.639          | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 4.69        | 5.42        | 6.45        | 7.47        | 8.48        | 9.49        | 11.48       | 13.47       | 16.44       | 19.41       | 22.37       | 25.33       | 27.70       | 35.19       |
| 2.80        | 40                    | 2.506          | 112          | 7.018          | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 5.86        | 6.91        | 7.95        | 9.98        | 11.99       | 14.99       | 17.97       | 20.94       | 23.91       | 26.28       | 33.78       |             |
| 2.81        | 32                    | 2.005          | 90           | 5.639          | ...                     | ...         | ...         | ...         | ...         | ...         | 4.12        | 4.77        | 5.50        | 6.54        | 7.56        | 8.57        | 9.57        | 11.57       | 13.56       | 16.54       | 19.50       | 22.47       | 25.43       | 27.80       | 35.29       |             |
| 2.95        | 38                    | 2.381          | 112          | 7.018          | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 5.94        | 7.00        | 8.03        | 10.06       | 12.08       | 15.08       | 18.06       | 21.04       | 24.00       | 26.38       | 33.88       |             |
| 3.11        | 36                    | 2.256          | 112          | 7.018          | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 4.92        | 6.02        | 7.08        | 8.11        | 10.15       | 12.17       | 15.17       | 18.15       | 21.13       | 24.09       | 26.47       | 33.97       |
| 3.29        | 34                    | 2.130          | 112          | 7.018          | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 5.00        | 6.10        | 7.16        | 8.20        | 10.24       | 12.26       | 15.26       | 18.24       | 21.22       | 24.19       | 26.56       | 34.07       |
| 3.50        | 32                    | 2.005          | 112          | 7.018          | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 5.08        | 6.18        | 7.24        | 8.28        | 10.32       | 12.34       | 15.35       | 18.33       | 21.31       | 24.28       | 26.66       | 34.16       |
|             | <b>Length Factor*</b> |                |              |                | <b>0.77</b>             | <b>0.81</b> | <b>0.83</b> | <b>0.84</b> | <b>0.86</b> | <b>0.88</b> | <b>0.90</b> | <b>0.92</b> | <b>0.94</b> | <b>0.95</b> | <b>0.98</b> | <b>1.00</b> | <b>1.01</b> | <b>1.03</b> | <b>1.06</b> | <b>1.09</b> | <b>1.13</b> | <b>1.16</b> | <b>1.19</b> | <b>1.22</b> | <b>1.24</b> | <b>1.29</b> |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged.  
Large Sprocket should be ordered with flanges as a special.

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets

|                                  |                               |                                       |  |
|----------------------------------|-------------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SPECIFICATIONS<br>PAGE PT11-4 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|-------------------------------|---------------------------------------|--|



# SELECTION

## 8MM Pitch HT200 Belt Drive Selection Table

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 384-8M                  | 480-8M      | 560-8M      | 600-8M      | 640-8M      | 720-8M      | 800-8M      | 840-8M      | 880-8M      | 920-8M      | 960-8M      | 1040-8M     | 1064-8M     | 1120-8M     | 1160-8M     | 1200-8M     |             |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.70</b>             | <b>0.80</b> | <b>0.80</b> | <b>0.80</b> | <b>0.90</b> | <b>0.90</b> | <b>0.90</b> | <b>0.90</b> | <b>0.90</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> |
| 1.00                  | 22                    | 2.206             | 22           | 2.206             | 4.09                    | 5.98        | 7.56        | 8.34        | 9.13        | 10.71       | 12.28       | 13.07       | 13.86       | 14.64       | 15.43       | 17.00       | 17.48       | 18.58       | 19.37       | 20.15       |             |
| 1.00                  | 24                    | 2.406             | 24           | 2.406             | 3.78                    | 5.67        | 7.25        | 8.03        | 8.82        | 10.40       | 11.97       | 12.76       | 13.55       | 14.33       | 15.12       | 16.69       | 17.17       | 18.27       | 19.06       | 19.84       |             |
| 1.00                  | 26                    | 2.607             | 26           | 2.607             | 3.46                    | 5.35        | 6.93        | 7.71        | 8.50        | 10.08       | 11.65       | 12.44       | 13.23       | 14.01       | 14.80       | 16.37       | 16.85       | 17.95       | 18.74       | 19.52       |             |
| 1.00                  | 28                    | 2.807             | 28           | 2.807             | ...                     | 5.04        | 6.62        | 7.40        | 8.19        | 9.77        | 11.34       | 12.13       | 12.92       | 13.70       | 14.49       | 16.06       | 16.54       | 17.64       | 18.43       | 19.21       |             |
| 1.00                  | 30                    | 3.008             | 30           | 3.008             | ...                     | 4.73        | 6.30        | 7.09        | 7.88        | 9.45        | 11.03       | 11.81       | 12.60       | 13.39       | 14.18       | 15.75       | 16.22       | 17.32       | 18.11       | 18.90       |             |
| 1.00                  | 32                    | 3.208             | 32           | 3.208             | ...                     | 4.41        | 5.99        | 6.77        | 7.56        | 9.14        | 10.71       | 11.50       | 12.29       | 13.07       | 13.86       | 15.43       | 15.91       | 17.01       | 17.80       | 18.58       |             |
| 1.00                  | 34                    | 3.409             | 34           | 3.409             | ...                     | 4.10        | 5.67        | 6.46        | 7.25        | 8.82        | 10.40       | 11.18       | 11.97       | 12.76       | 13.55       | 15.12       | 15.59       | 16.69       | 17.48       | 18.27       |             |
| 1.00                  | 36                    | 3.609             | 36           | 3.609             | ...                     | ...         | 5.36        | 6.14        | 6.93        | 8.51        | 10.08       | 10.87       | 11.66       | 12.44       | 13.23       | 14.80       | 15.28       | 16.38       | 17.17       | 17.95       |             |
| 1.00                  | 38                    | 3.810             | 38           | 3.810             | ...                     | ...         | 5.04        | 5.83        | 6.62        | 8.19        | 9.77        | 10.55       | 11.34       | 12.13       | 12.92       | 14.49       | 14.96       | 16.06       | 16.85       | 17.64       |             |
| 1.00                  | 40                    | 4.010             | 40           | 4.010             | ...                     | ...         | 4.73        | 5.51        | 6.30        | 7.88        | 9.45        | 10.24       | 11.03       | 11.81       | 12.60       | 14.17       | 14.65       | 15.75       | 16.54       | 17.32       |             |
| 1.00                  | 44                    | 4.411             | 44           | 4.411             | ...                     | ...         | ...         | ...         | 5.67        | 7.25        | 8.82        | 9.61        | 10.40       | 11.18       | 11.97       | 13.54       | 14.02       | 15.12       | 15.91       | 16.69       |             |
| 1.00                  | 48                    | 4.812             | 48           | 4.812             | ...                     | ...         | ...         | ...         | ...         | 6.62        | 8.19        | 8.98        | 9.77        | 10.55       | 11.34       | 12.91       | 13.39       | 14.49       | 15.28       | 16.06       |             |
| 1.00                  | 56                    | 5.614             | 56           | 5.614             | ...                     | ...         | ...         | ...         | ...         | 6.93        | 7.72        | 8.51        | 9.29        | 10.08       | 11.65       | 12.13       | 13.23       | 14.02       | 14.80       | 15.58       |             |
| 1.00                  | 64                    | 6.416             | 64           | 6.416             | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 7.25        | 8.03        | 8.82        | 10.39       | 10.87       | 11.97       | 12.76       | 13.54       |             |
| 1.00                  | 72                    | 7.218             | 72           | 7.218             | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 9.13        | 9.61        | 10.71       | 11.50       | 12.28       |             |
| 1.00                  | 80                    | 8.020             | 80           | 8.020             | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 9.45        | 10.24       | 11.02       |             |
| 1.05                  | 38                    | 3.810             | 40           | 4.010             | ...                     | ...         | 4.88        | 5.67        | 6.46        | 8.03        | 9.61        | 10.39       | 11.18       | 11.97       | 12.76       | 14.33       | 14.80       | 15.90       | 16.69       | 17.48       |             |
| 1.06                  | 36                    | 3.609             | 38           | 3.810             | ...                     | ...         | 5.20        | 5.98        | 6.77        | 8.35        | 9.92        | 10.71       | 11.50       | 12.28       | 13.07       | 14.64       | 15.12       | 16.22       | 17.01       | 17.79       |             |
| 1.06                  | 34                    | 3.409             | 36           | 3.609             | ...                     | ...         | 5.51        | 6.30        | 7.09        | 8.66        | 10.24       | 11.02       | 11.81       | 12.60       | 13.39       | 14.96       | 15.43       | 16.53       | 17.32       | 18.11       |             |
| 1.06                  | 32                    | 3.208             | 34           | 3.409             | ...                     | 4.25        | 5.83        | 6.61        | 7.40        | 8.98        | 10.55       | 11.34       | 12.13       | 12.91       | 13.70       | 15.27       | 15.75       | 16.85       | 17.64       | 18.42       |             |
| 1.07                  | 30                    | 3.008             | 32           | 3.208             | ...                     | 4.57        | 6.14        | 6.93        | 7.72        | 9.29        | 10.87       | 11.65       | 12.44       | 13.23       | 14.02       | 15.59       | 16.06       | 17.16       | 17.95       | 18.74       |             |
| 1.07                  | 28                    | 2.807             | 30           | 3.008             | ...                     | 4.88        | 6.46        | 7.24        | 8.03        | 9.61        | 11.18       | 11.97       | 12.76       | 13.54       | 14.33       | 15.90       | 16.38       | 17.48       | 18.27       | 19.05       |             |
| 1.08                  | 26                    | 2.607             | 28           | 2.807             | 3.31                    | 5.20        | 6.77        | 7.56        | 8.35        | 9.92        | 11.50       | 12.28       | 13.07       | 13.86       | 14.65       | 16.22       | 16.69       | 17.79       | 18.58       | 19.37       |             |
| 1.08                  | 24                    | 2.406             | 26           | 2.607             | 3.62                    | 5.51        | 7.09        | 7.87        | 8.66        | 10.24       | 11.81       | 12.60       | 13.39       | 14.17       | 14.96       | 16.53       | 17.01       | 18.11       | 18.90       | 19.68       |             |
| 1.09                  | 22                    | 2.206             | 24           | 2.406             | 3.94                    | 5.83        | 7.40        | 8.19        | 8.98        | 10.55       | 12.13       | 12.91       | 13.70       | 14.49       | 15.28       | 16.85       | 17.32       | 18.42       | 19.21       | 20.00       |             |
| 1.09                  | 44                    | 4.411             | 48           | 4.812             | ...                     | ...         | ...         | ...         | 5.35        | 6.93        | 8.50        | 9.29        | 10.08       | 10.86       | 11.65       | 13.22       | 13.70       | 14.80       | 15.59       | 16.38       |             |
| 1.10                  | 40                    | 4.010             | 44           | 4.411             | ...                     | ...         | ...         | 5.19        | 5.98        | 7.56        | 9.13        | 9.92        | 10.71       | 11.49       | 12.28       | 13.85       | 14.33       | 15.43       | 16.22       | 17.00       |             |
| 1.11                  | 36                    | 3.609             | 40           | 4.010             | ...                     | ...         | 5.04        | 5.82        | 6.61        | 8.19        | 9.76        | 10.55       | 11.34       | 12.12       | 12.91       | 14.48       | 14.96       | 16.06       | 16.85       | 17.63       |             |
| 1.11                  | 72                    | 7.218             | 80           | 8.020             | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 8.49        | 8.97        | 10.07       | 10.86       | 11.65       |             |
| 1.12                  | 34                    | 3.409             | 38           | 3.810             | ...                     | ...         | 5.35        | 6.14        | 6.93        | 8.50        | 10.08       | 10.86       | 11.65       | 12.44       | 13.23       | 14.80       | 15.27       | 16.37       | 17.16       | 17.95       |             |
| 1.13                  | 32                    | 3.208             | 36           | 3.609             | ...                     | 4.09        | 5.67        | 6.45        | 7.24        | 8.82        | 10.39       | 11.18       | 11.97       | 12.75       | 13.54       | 15.11       | 15.59       | 16.69       | 17.48       | 18.26       |             |
| 1.13                  | 64                    | 6.416             | 72           | 7.218             | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 7.39        | 8.18        | 9.75        | 10.23       | 11.33       | 12.12       | 12.91       |             |
| 1.13                  | 80                    | 8.020             | 90           | 9.023             | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 9.44        | 10.22       |             |
| 1.13                  | 30                    | 3.008             | 34           | 3.409             | ...                     | 4.41        | 5.98        | 6.77        | 7.56        | 9.13        | 10.71       | 11.49       | 12.28       | 13.07       | 13.86       | 15.43       | 15.90       | 17.00       | 17.79       | 18.58       |             |
| 1.14                  | 28                    | 2.807             | 32           | 3.208             | ...                     | 4.72        | 6.30        | 7.08        | 7.87        | 9.45        | 11.02       | 11.81       | 12.60       | 13.38       | 14.17       | 15.74       | 16.22       | 17.32       | 18.11       | 18.89       |             |
| 1.14                  | 56                    | 5.614             | 64           | 6.416             | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | 7.08        | 7.87        | 8.65        | 9.44        | 11.01       | 11.49       | 12.59       | 13.38       | 14.17       |             |
| 1.15                  | 26                    | 2.607             | 30           | 3.008             | ...                     | 5.04        | 6.61        | 7.40        | 8.19        | 9.76        | 11.34       | 12.12       | 12.91       | 13.70       | 14.49       | 16.06       | 16.53       | 17.63       | 18.42       | 19.21       |             |
| 1.16                  | 38                    | 3.810             | 44           | 4.411             | ...                     | ...         | ...         | 5.34        | 6.14        | 7.71        | 9.29        | 10.07       | 10.86       | 11.65       | 12.44       | 14.01       | 14.49       | 15.59       | 16.38       | 17.16       |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.70</b>             | <b>0.80</b> | <b>0.80</b> | <b>0.80</b> | <b>0.90</b> | <b>0.90</b> | <b>0.90</b> | <b>0.90</b> | <b>0.90</b> | <b>0.90</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged.  
Large Sprocket should be ordered with flanges as a special.

\* This length correction factor must be used to determine the proper belt width.

# SELECTION



## 8MM Pitch HT200 Belt Drive Selection Table

| Speed Ratio | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|             | Driver                |                   | Driven       |                   | 1224-8M                 | 1280-8M     | 1440-8M     | 1512-8M     | 1584-8M     | 1600-8M     | 1760-8M     | 1800-8M     | 2000-8M     | 2200-8M     | 2400-8M     | 2600-8M     | 2800-8M     | 3048-8M     | 3280-8M     | 3600-8M     | 4400-8M     |             |
|             | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|             | <b>Length Factor*</b> |                   |              |                   | <b>1.00</b>             | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> |
| 1.00        | 22                    | 2.206             | 22           | 2.206             | 20.63                   | 21.73       | 24.88       | 26.30       | 27.71       | 28.03       | 31.18       | 31.97       | 35.90       | 39.84       | 43.78       | 47.71       | 51.65       | 56.53       | 61.10       | 67.40       | 83.15       |             |
| 1.00        | 24                    | 2.406             | 24           | 2.406             | 20.32                   | 21.42       | 24.57       | 25.99       | 27.40       | 27.72       | 30.87       | 31.66       | 35.59       | 39.53       | 43.47       | 47.40       | 51.34       | 56.22       | 60.79       | 67.09       | 82.84       |             |
| 1.00        | 26                    | 2.607             | 26           | 2.607             | 20.00                   | 21.10       | 24.25       | 25.67       | 27.08       | 27.40       | 30.55       | 31.34       | 35.27       | 39.21       | 43.15       | 47.08       | 51.02       | 55.90       | 60.47       | 66.77       | 82.52       |             |
| 1.00        | 28                    | 2.807             | 28           | 2.807             | 19.69                   | 20.79       | 23.94       | 25.36       | 26.77       | 27.09       | 30.24       | 31.03       | 34.96       | 38.90       | 42.84       | 46.77       | 50.71       | 55.59       | 60.16       | 66.46       | 82.21       |             |
| 1.00        | 30                    | 3.008             | 30           | 3.008             | 19.37                   | 20.47       | 23.62       | 25.04       | 26.46       | 26.77       | 29.92       | 30.71       | 34.65       | 38.58       | 42.52       | 46.46       | 50.40       | 55.28       | 59.84       | 66.14       | 81.89       |             |
| 1.00        | 32                    | 3.208             | 32           | 3.208             | 19.06                   | 20.16       | 23.31       | 24.73       | 26.14       | 26.46       | 29.61       | 30.40       | 34.33       | 38.27       | 42.21       | 46.14       | 50.08       | 54.96       | 59.53       | 65.83       | 81.58       |             |
| 1.00        | 34                    | 3.409             | 34           | 3.409             | 18.74                   | 19.84       | 22.99       | 24.41       | 25.83       | 26.14       | 29.29       | 30.08       | 34.02       | 37.95       | 41.89       | 45.83       | 49.77       | 54.65       | 59.21       | 65.51       | 81.26       |             |
| 1.00        | 36                    | 3.609             | 36           | 3.609             | 18.43                   | 19.53       | 22.68       | 24.10       | 25.51       | 25.83       | 28.98       | 29.77       | 33.70       | 37.64       | 41.58       | 45.51       | 49.45       | 54.33       | 58.90       | 65.20       | 80.95       |             |
| 1.00        | 38                    | 3.810             | 38           | 3.810             | 18.11                   | 19.21       | 22.36       | 23.78       | 25.20       | 25.51       | 28.66       | 29.45       | 33.39       | 37.32       | 41.26       | 45.20       | 49.14       | 54.02       | 58.58       | 64.88       | 80.63       |             |
| 1.00        | 40                    | 4.010             | 40           | 4.010             | 17.80                   | 18.90       | 22.05       | 23.47       | 24.88       | 25.20       | 28.35       | 29.14       | 33.07       | 37.01       | 40.95       | 44.88       | 48.82       | 53.70       | 58.27       | 64.57       | 80.32       |             |
| 1.00        | 44                    | 4.411             | 44           | 4.411             | 17.17                   | 18.27       | 21.42       | 22.84       | 24.25       | 24.57       | 27.72       | 28.51       | 32.44       | 36.38       | 40.32       | 44.25       | 48.19       | 53.07       | 57.64       | 63.94       | 79.69       |             |
| 1.00        | 48                    | 4.812             | 48           | 4.812             | 16.54                   | 17.64       | 20.79       | 22.21       | 23.62       | 23.94       | 27.09       | 27.88       | 31.81       | 35.75       | 39.69       | 43.62       | 47.56       | 52.44       | 57.01       | 63.31       | 79.06       |             |
| 1.00        | 56                    | 5.614             | 56           | 5.614             | 15.28                   | 16.38       | 19.53       | 20.95       | 22.36       | 22.68       | 25.83       | 26.62       | 30.55       | 34.49       | 38.43       | 42.36       | 46.30       | 51.18       | 55.75       | 62.05       | 77.80       |             |
| 1.00        | 64                    | 6.416             | 64           | 6.416             | 14.02                   | 15.12       | 18.27       | 19.69       | 21.10       | 21.42       | 24.57       | 25.36       | 29.29       | 33.23       | 37.17       | 41.10       | 45.04       | 49.92       | 54.49       | 60.79       | 76.54       |             |
| 1.00        | 72                    | 7.218             | 72           | 7.218             | 12.76                   | 13.86       | 17.01       | 18.43       | 19.84       | 20.16       | 23.31       | 24.10       | 28.03       | 31.97       | 35.91       | 39.84       | 43.78       | 48.66       | 53.23       | 59.53       | 75.28       |             |
| 1.00        | 80                    | 8.020             | 80           | 8.020             | 11.50                   | 12.60       | 15.75       | 17.17       | 18.58       | 18.90       | 22.05       | 22.84       | 26.77       | 30.71       | 34.65       | 38.58       | 42.52       | 47.40       | 51.97       | 58.27       | 74.02       |             |
| 1.05        | 38                    | 3.810             | 40           | 4.010             | 17.95                   | 19.05       | 22.20       | 23.62       | 25.04       | 25.35       | 28.50       | 29.29       | 33.23       | 37.16       | 41.10       | 45.04       | 48.98       | 53.86       | 58.42       | 64.72       | 80.47       |             |
| 1.06        | 36                    | 3.609             | 38           | 3.810             | 18.27                   | 19.37       | 22.52       | 23.94       | 25.35       | 25.67       | 28.82       | 29.61       | 33.54       | 37.48       | 41.42       | 45.35       | 49.29       | 54.17       | 58.74       | 65.04       | 80.79       |             |
| 1.06        | 34                    | 3.409             | 36           | 3.609             | 18.58                   | 19.68       | 22.83       | 24.25       | 25.67       | 25.98       | 29.13       | 29.92       | 33.86       | 37.79       | 41.73       | 45.67       | 49.61       | 54.49       | 59.05       | 65.35       | 81.10       |             |
| 1.06        | 32                    | 3.208             | 34           | 3.409             | 18.90                   | 20.00       | 23.15       | 24.57       | 25.98       | 26.30       | 29.45       | 30.24       | 34.17       | 38.11       | 42.05       | 45.98       | 49.92       | 54.80       | 59.37       | 65.67       | 81.42       |             |
| 1.07        | 30                    | 3.008             | 32           | 3.208             | 19.21                   | 20.31       | 23.46       | 24.88       | 26.30       | 26.61       | 29.76       | 30.55       | 34.49       | 38.42       | 42.36       | 46.30       | 50.24       | 55.12       | 59.68       | 65.98       | 81.73       |             |
| 1.07        | 28                    | 2.807             | 30           | 3.008             | 19.53                   | 20.63       | 23.78       | 25.20       | 26.61       | 26.93       | 30.08       | 30.87       | 34.80       | 38.74       | 42.68       | 46.61       | 50.55       | 55.43       | 60.00       | 66.30       | 82.05       |             |
| 1.08        | 26                    | 2.607             | 28           | 2.807             | 19.84                   | 20.94       | 24.09       | 25.51       | 26.93       | 27.24       | 30.39       | 31.18       | 35.12       | 39.05       | 42.99       | 46.93       | 50.87       | 55.75       | 60.31       | 66.61       | 82.36       |             |
| 1.08        | 24                    | 2.406             | 26           | 2.607             | 20.16                   | 21.26       | 24.41       | 25.83       | 27.24       | 27.56       | 30.71       | 31.50       | 35.43       | 39.37       | 43.31       | 47.24       | 51.18       | 56.06       | 60.63       | 66.93       | 82.68       |             |
| 1.09        | 22                    | 2.206             | 24           | 2.406             | 20.47                   | 21.57       | 24.72       | 26.14       | 27.56       | 27.87       | 31.02       | 31.81       | 35.75       | 39.68       | 43.62       | 47.56       | 51.50       | 56.38       | 60.94       | 67.24       | 82.99       |             |
| 1.09        | 44                    | 4.411             | 48           | 4.812             | 16.85                   | 17.95       | 21.10       | 22.52       | 23.94       | 24.25       | 27.40       | 28.19       | 32.13       | 36.06       | 40.00       | 43.94       | 47.88       | 52.76       | 57.32       | 63.62       | 79.37       |             |
| 1.10        | 40                    | 4.010             | 44           | 4.411             | 17.48                   | 18.58       | 21.73       | 23.15       | 24.57       | 24.88       | 28.03       | 28.82       | 32.76       | 36.69       | 40.63       | 44.57       | 48.51       | 53.39       | 57.95       | 64.25       | 80.00       |             |
| 1.11        | 36                    | 3.609             | 40           | 4.010             | 18.11                   | 19.21       | 22.36       | 23.78       | 25.20       | 25.51       | 28.66       | 29.45       | 33.39       | 37.32       | 41.26       | 45.20       | 49.14       | 54.02       | 58.58       | 64.88       | 80.63       |             |
| 1.11        | 72                    | 7.218             | 80           | 8.020             | 12.12                   | 13.22       | 16.37       | 17.79       | 19.21       | 19.52       | 22.67       | 23.46       | 27.40       | 31.33       | 35.27       | 39.21       | 43.15       | 48.03       | 52.60       | 58.90       | 74.65       |             |
| 1.12        | 34                    | 3.409             | 38           | 3.810             | 18.42                   | 19.52       | 22.67       | 24.09       | 25.51       | 25.82       | 28.97       | 29.76       | 33.70       | 37.63       | 41.57       | 45.51       | 49.45       | 54.33       | 58.89       | 65.19       | 80.94       |             |
| 1.13        | 32                    | 3.208             | 36           | 3.609             | 18.74                   | 19.84       | 22.99       | 24.41       | 25.83       | 26.14       | 29.29       | 30.08       | 34.02       | 37.95       | 41.89       | 45.83       | 49.77       | 54.65       | 59.21       | 65.51       | 81.26       |             |
| 1.13        | 64                    | 6.416             | 72           | 7.218             | 13.38                   | 14.48       | 17.63       | 19.05       | 20.47       | 20.78       | 23.93       | 24.72       | 28.66       | 32.59       | 36.53       | 40.47       | 44.41       | 49.29       | 53.86       | 60.16       | 75.91       |             |
| 1.13        | 80                    | 8.020             | 90           | 9.023             | 10.70                   | 11.80       | 14.95       | 16.37       | 17.79       | 18.10       | 21.25       | 22.04       | 25.98       | 29.92       | 33.86       | 37.79       | 41.73       | 46.61       | 51.18       | 57.48       | 73.23       |             |
| 1.13        | 30                    | 3.008             | 34           | 3.409             | 19.05                   | 20.15       | 23.30       | 24.72       | 26.14       | 26.45       | 29.60       | 30.39       | 34.33       | 38.26       | 42.20       | 46.14       | 50.08       | 54.96       | 59.52       | 65.82       | 81.57       |             |
| 1.14        | 28                    | 2.807             | 32           | 3.208             | 19.37                   | 20.47       | 23.62       | 25.04       | 26.46       | 26.77       | 29.92       | 30.71       | 34.65       | 38.58       | 42.52       | 46.46       | 50.40       | 55.28       | 59.84       | 66.14       | 81.89       |             |
| 1.14        | 56                    | 5.614             | 64           | 6.416             | 14.64                   | 15.74       | 18.89       | 20.31       | 21.73       | 22.04       | 25.19       | 25.98       | 29.92       | 33.85       | 37.79       | 41.73       | 45.67       | 50.55       | 55.12       | 61.42       | 77.17       |             |
| 1.15        | 26                    | 2.607             | 30           | 3.008             | 19.68                   | 20.78       | 23.93       | 25.35       | 26.77       | 27.08       | 30.23       | 31.02       | 34.96       | 38.89       | 42.83       | 46.77       | 50.71       | 55.59       | 60.15       | 66.45       | 82.20       |             |
| 1.16        | 38                    | 3.810             | 44           | 4.411             | 17.64                   | 18.74       | 21.89       | 23.31       | 24.72       | 25.04       | 28.19       | 28.98       | 32.91       | 36.85       | 40.79       | 44.72       | 48.66       | 53.54       | 58.11       | 64.41       | 80.16       |             |
|             | <b>Length Factor*</b> |                   |              |                   | <b>1.00</b>             | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

\* This length correction factor must be used to determine the proper belt width.

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets

|                                  |                               |                                       |  |
|----------------------------------|-------------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SPECIFICATIONS<br>PAGE PT11-4 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|-------------------------------|---------------------------------------|--|





# SELECTION

## 8MM Pitch HT200 Belt Drive Selection Table

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 384-8M                  | 480-8M      | 560-8M      | 600-8M      | 640-8M      | 720-8M      | 800-8M      | 840-8M      | 880-8M      | 920-8M      | 960-8M      | 1040-8M     | 1064-8M     | 1120-8M     | 1160-8M     | 1200-8M     |             |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.70</b>             | <b>0.80</b> | <b>0.80</b> | <b>0.80</b> | <b>0.90</b> | <b>0.90</b> | <b>0.90</b> | <b>0.90</b> | <b>0.90</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> |
| 1.17                  | 24                    | 2.406             | 28           | 2.807             | 3.46                    | 5.35        | 6.93        | 7.71        | 8.50        | 10.08       | 11.65       | 12.44       | 13.23       | 14.01       | 14.80       | 16.37       | 16.85       | 17.95       | 18.74       | 19.52       |             |
| 1.17                  | 48                    | 4.812             | 56           | 5.614             | ...                     | ...         | ...         | ...         | ...         | 5.97        | 7.55        | 8.34        | 9.13        | 9.91        | 10.70       | 12.27       | 12.75       | 13.85       | 14.64       | 15.43       |             |
| 1.18                  | 34                    | 3.409             | 40           | 4.010             | ...                     | ...         | 5.19        | 5.98        | 6.77        | 8.34        | 9.92        | 10.70       | 11.49       | 12.28       | 13.07       | 14.64       | 15.12       | 16.22       | 17.01       | 17.79       |             |
| 1.18                  | 22                    | 2.206             | 26           | 2.607             | 3.77                    | 5.67        | 7.24        | 8.03        | 8.82        | 10.39       | 11.97       | 12.75       | 13.54       | 14.33       | 15.12       | 16.69       | 17.16       | 18.26       | 19.05       | 19.84       |             |
| 1.19                  | 32                    | 3.208             | 38           | 3.810             | ...                     | ...         | 5.50        | 6.29        | 7.08        | 8.66        | 10.23       | 11.02       | 11.81       | 12.59       | 13.38       | 14.96       | 15.43       | 16.53       | 17.32       | 18.11       |             |
| 1.20                  | 30                    | 3.008             | 36           | 3.609             | ...                     | 4.24        | 5.82        | 6.61        | 7.40        | 8.97        | 10.55       | 11.33       | 12.12       | 12.91       | 13.70       | 15.27       | 15.75       | 16.85       | 17.64       | 18.42       |             |
| 1.20                  | 40                    | 4.010             | 48           | 4.812             | ...                     | ...         | ...         | ...         | 5.66        | 7.24        | 8.81        | 9.60        | 10.39       | 11.17       | 11.96       | 13.54       | 14.01       | 15.11       | 15.90       | 16.69       |             |
| 1.21                  | 28                    | 2.807             | 34           | 3.409             | ...                     | 4.56        | 6.14        | 6.92        | 7.71        | 9.29        | 10.86       | 11.65       | 12.44       | 13.22       | 14.01       | 15.59       | 16.06       | 17.16       | 17.95       | 18.74       |             |
| 1.22                  | 36                    | 3.609             | 44           | 4.411             | ...                     | ...         | 4.71        | 5.50        | 6.29        | 7.87        | 9.44        | 10.23       | 11.02       | 11.80       | 12.59       | 14.17       | 14.64       | 15.74       | 16.53       | 17.32       |             |
| 1.23                  | 26                    | 2.607             | 32           | 3.208             | ...                     | 4.87        | 6.45        | 7.24        | 8.03        | 9.60        | 11.18       | 11.96       | 12.75       | 13.54       | 14.33       | 15.90       | 16.38       | 17.48       | 18.27       | 19.05       |             |
| 1.25                  | 24                    | 2.406             | 30           | 3.008             | 3.29                    | 5.19        | 6.77        | 7.55        | 8.34        | 9.92        | 11.49       | 12.28       | 13.07       | 13.85       | 14.64       | 16.22       | 16.69       | 17.79       | 18.58       | 19.37       |             |
| 1.25                  | 32                    | 3.208             | 40           | 4.010             | ...                     | ...         | 5.34        | 6.13        | 6.92        | 8.50        | 10.07       | 10.86       | 11.65       | 12.43       | 13.22       | 14.80       | 15.27       | 16.37       | 17.16       | 17.95       |             |
| 1.25                  | 64                    | 6.416             | 80           | 8.020             | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 9.10        | 9.57        | 10.68       | 11.47       | 12.26       | ...         |             |
| 1.25                  | 72                    | 7.218             | 90           | 9.023             | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 9.25        | 10.04       | 10.83       | ...         |
| 1.26                  | 38                    | 3.810             | 48           | 4.812             | ...                     | ...         | ...         | 5.01        | 5.81        | 7.39        | 8.96        | 9.75        | 10.54       | 11.33       | 12.12       | 13.69       | 14.16       | 15.27       | 16.06       | 16.84       |             |
| 1.27                  | 30                    | 3.008             | 38           | 3.810             | ...                     | 4.08        | 5.66        | 6.44        | 7.23        | 8.81        | 10.39       | 11.17       | 11.96       | 12.75       | 13.54       | 15.11       | 15.58       | 16.69       | 17.48       | 18.26       |             |
| 1.27                  | 22                    | 2.206             | 28           | 2.807             | 3.61                    | 5.50        | 7.08        | 7.87        | 8.66        | 10.23       | 11.81       | 12.59       | 13.38       | 14.17       | 14.96       | 16.53       | 17.01       | 18.11       | 18.90       | 19.68       |             |
| 1.27                  | 44                    | 4.411             | 56           | 5.614             | ...                     | ...         | ...         | ...         | ...         | 6.27        | 7.85        | 8.64        | 9.43        | 10.22       | 11.01       | 12.58       | 13.06       | 14.16       | 14.95       | 15.73       |             |
| 1.29                  | 28                    | 2.807             | 36           | 3.609             | ...                     | 4.39        | 5.97        | 6.76        | 7.55        | 9.13        | 10.70       | 11.49       | 12.28       | 13.06       | 13.86       | 15.43       | 15.90       | 17.00       | 17.79       | 18.58       |             |
| 1.29                  | 56                    | 5.614             | 72           | 7.218             | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 7.20        | 7.99        | 8.79        | 10.36       | 10.84       | 11.94       | 12.73       | 13.52       |             |
| 1.29                  | 34                    | 3.409             | 44           | 4.411             | ...                     | ...         | 4.86        | 5.65        | 6.44        | 8.02        | 9.60        | 10.38       | 11.17       | 11.96       | 12.75       | 14.32       | 14.79       | 15.90       | 16.69       | 17.47       |             |
| 1.31                  | 26                    | 2.607             | 34           | 3.409             | ...                     | 4.71        | 6.29        | 7.07        | 7.86        | 9.44        | 11.02       | 11.80       | 12.59       | 13.38       | 14.17       | 15.74       | 16.22       | 17.32       | 18.11       | 18.89       |             |
| 1.33                  | 24                    | 2.406             | 32           | 3.208             | ...                     | 5.02        | 6.60        | 7.39        | 8.18        | 9.76        | 11.33       | 12.12       | 12.91       | 13.69       | 14.49       | 16.06       | 16.53       | 17.63       | 18.42       | 19.21       |             |
| 1.33                  | 30                    | 3.008             | 40           | 4.010             | ...                     | ...         | 5.49        | 6.28        | 7.07        | 8.65        | 10.23       | 11.01       | 11.80       | 12.59       | 13.38       | 14.95       | 15.42       | 16.53       | 17.32       | 18.10       |             |
| 1.33                  | 36                    | 3.609             | 48           | 4.812             | ...                     | ...         | ...         | 5.16        | 5.96        | 7.54        | 9.12        | 9.90        | 10.69       | 11.48       | 12.27       | 13.84       | 14.32       | 15.42       | 16.21       | 17.00       |             |
| 1.33                  | 48                    | 4.812             | 64           | 6.416             | ...                     | ...         | ...         | ...         | ...         | 6.88        | 8.46        | 9.24        | 10.03       | 10.82       | 11.61       | 13.18       | 13.66       | 14.76       | 15.55       | 16.34       |             |
| 1.36                  | 28                    | 2.807             | 38           | 3.810             | ...                     | 4.22        | 5.81        | 6.59        | 7.39        | 8.96        | 10.54       | 11.33       | 12.12       | 12.90       | 13.69       | 15.26       | 15.74       | 16.84       | 17.63       | 18.42       |             |
| 1.36                  | 22                    | 2.206             | 30           | 3.008             | 3.44                    | 5.34        | 6.92        | 7.70        | 8.50        | 10.07       | 11.65       | 12.43       | 13.22       | 14.01       | 14.80       | 16.37       | 16.85       | 17.95       | 18.74       | 19.52       |             |
| 1.38                  | 32                    | 3.208             | 44           | 4.411             | ...                     | ...         | 5.00        | 5.79        | 6.59        | 8.17        | 9.75        | 10.53       | 11.33       | 12.11       | 12.90       | 14.47       | 14.95       | 16.05       | 16.84       | 17.63       |             |
| 1.39                  | 26                    | 2.607             | 36           | 3.609             | ...                     | 4.54        | 6.12        | 6.91        | 7.70        | 9.28        | 10.86       | 11.64       | 12.43       | 13.22       | 14.01       | 15.58       | 16.06       | 17.16       | 17.95       | 18.73       |             |
| 1.40                  | 40                    | 4.010             | 56           | 5.614             | ...                     | ...         | ...         | ...         | ...         | 6.57        | 8.15        | 8.94        | 9.73        | 10.52       | 11.31       | 12.89       | 13.36       | 14.46       | 15.26       | 16.04       |             |
| 1.40                  | 80                    | 8.020             | 112          | 11.229            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |             |
| 1.41                  | 64                    | 6.416             | 90           | 9.023             | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 8.24        | 8.72        | 9.83        | 10.63       | 11.42       | ...         |             |
| 1.41                  | 34                    | 3.409             | 48           | 4.812             | ...                     | ...         | ...         | 5.31        | 6.10        | 7.69        | 9.27        | 10.05       | 10.85       | 11.63       | 12.42       | 14.00       | 14.47       | 15.57       | 16.36       | 17.15       |             |
| 1.42                  | 24                    | 2.406             | 34           | 3.409             | ...                     | 4.86        | 6.44        | 7.23        | 8.02        | 9.59        | 11.17       | 11.96       | 12.75       | 13.53       | 14.32       | 15.89       | 16.37       | 17.47       | 18.26       | 19.05       |             |
| 1.43                  | 28                    | 2.807             | 40           | 4.010             | ...                     | 4.05        | 5.64        | 6.43        | 7.22        | 8.80        | 10.38       | 11.16       | 11.96       | 12.74       | 13.53       | 15.10       | 15.58       | 16.68       | 17.47       | 18.26       |             |
| 1.43                  | 56                    | 5.614             | 80           | 8.020             | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 8.10        | 9.69        | 10.17       | 11.27       | 12.07       | 12.86       |             |
| 1.46                  | 22                    | 2.206             | 32           | 3.208             | 3.27                    | 5.17        | 6.75        | 7.54        | 8.33        | 9.91        | 11.49       | 12.27       | 13.06       | 13.85       | 14.64       | 16.21       | 16.69       | 17.79       | 18.58       | 19.36       |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.70</b>             | <b>0.80</b> | <b>0.80</b> | <b>0.80</b> | <b>0.90</b> | <b>0.90</b> | <b>0.90</b> | <b>0.90</b> | <b>0.90</b> | <b>0.90</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged.  
Large Sprocket should be ordered with flanges as a special.

\* This length correction factor must be used to determine the proper belt width.

|                                  |                               |                                       |  |
|----------------------------------|-------------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SPECIFICATIONS<br>PAGE PT11-4 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|-------------------------------|---------------------------------------|--|



## 8MM Pitch HT200 Belt Drive Selection Table

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |             |             |              |              |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|
|                       | Driver                |                   | Driven       |                   | 1224-8M                 | 1280-8M     | 1440-8M     | 1512-8M     | 1584-8M     | 1600-8M     | 1760-8M     | 1800-8M     | 2000-8M     | 2200-8M     | 2400-8M     | 2600-8M     | 2800-8M     | 3048-8M     | 3280-8M     | 3600-8M      | 4400-8M      |             |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |             |              |              |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>1.00</b>             | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b>  | <b>1.20</b>  | <b>1.20</b> |
| 1.17                  | 24                    | 2.406             | 28           | 2.807             | 20.00                   | 21.10       | 24.25       | 25.67       | 27.08       | 27.40       | 30.55       | 31.34       | 35.28       | 39.21       | 43.15       | 47.09       | 51.03       | 55.91       | 60.47       | 66.77        | 82.52        |             |
| 1.17                  | 48                    | 4.812             | 56           | 5.614             | 15.90                   | 17.00       | 20.15       | 21.57       | 22.99       | 23.30       | 26.45       | 27.24       | 31.18       | 35.11       | 39.05       | 42.99       | 46.93       | 51.81       | 56.38       | 62.68        | 78.43        |             |
| 1.18                  | 34                    | 3.409             | 40           | 4.010             | 18.27                   | 19.37       | 22.52       | 23.94       | 25.35       | 25.67       | 28.82       | 29.61       | 33.54       | 37.48       | 41.42       | 45.35       | 49.29       | 54.17       | 58.74       | 65.04        | 80.79        |             |
| 1.18                  | 22                    | 2.206             | 26           | 2.607             | 20.31                   | 21.41       | 24.56       | 25.98       | 27.40       | 27.71       | 30.86       | 31.65       | 35.59       | 39.52       | 43.46       | 47.40       | 51.34       | 56.22       | 60.78       | 67.08        | 82.83        |             |
| 1.19                  | 32                    | 3.208             | 38           | 3.810             | 18.58                   | 19.68       | 22.83       | 24.25       | 25.67       | 25.98       | 29.13       | 29.92       | 33.86       | 37.79       | 41.73       | 45.67       | 49.61       | 54.49       | 59.05       | 65.35        | 81.10        |             |
| 1.20                  | 30                    | 3.008             | 36           | 3.609             | 18.90                   | 20.00       | 23.15       | 24.57       | 25.98       | 26.30       | 29.45       | 30.24       | 34.17       | 38.11       | 42.05       | 45.98       | 49.92       | 54.80       | 59.37       | 65.67        | 81.42        |             |
| 1.20                  | 40                    | 4.010             | 48           | 4.812             | 17.16                   | 18.26       | 21.41       | 22.83       | 24.25       | 24.56       | 27.71       | 28.50       | 32.44       | 36.37       | 40.31       | 44.25       | 48.19       | 53.07       | 57.63       | 63.93        | 79.69        |             |
| 1.21                  | 28                    | 2.807             | 34           | 3.409             | 19.21                   | 20.31       | 23.46       | 24.88       | 26.30       | 26.61       | 29.76       | 30.55       | 34.49       | 38.42       | 42.36       | 46.30       | x50.24      | 55.12       | 59.68       | 65.98        | 81.73        |             |
| 1.22                  | 36                    | 3.609             | 44           | 4.411             | 17.79                   | 18.89       | 22.04       | 23.46       | 24.88       | 25.19       | 28.34       | 29.13       | 33.07       | 37.00       | 40.94       | 44.88       | 48.82       | 53.70       | 58.26       | 64.56        | 80.32        |             |
| 1.23                  | 26                    | 2.607             | 32           | 3.208             | 19.53                   | 20.63       | 23.78       | 25.20       | 26.61       | 26.93       | 30.08       | 30.87       | 34.80       | 38.74       | 42.68       | 46.61       | 50.55       | 55.43       | 60.00       | 66.30        | 82.05        |             |
| 1.25                  | 24                    | 2.406             | 30           | 3.008             | 19.84                   | 20.94       | 24.09       | 25.51       | 26.93       | 27.24       | 30.39       | 31.18       | 35.12       | 39.05       | 42.99       | 46.93       | 50.87       | 55.75       | 60.31       | 66.61        | 82.36        |             |
| 1.25                  | 32                    | 3.208             | 40           | 4.010             | 18.42                   | 19.52       | 22.67       | 24.09       | 25.51       | 25.82       | 28.97       | 29.76       | 33.70       | 37.63       | 41.57       | 45.51       | 49.45       | 54.33       | 58.89       | 65.19        | 80.95        |             |
| 1.25                  | 64                    | 6.416             | 80           | 8.020             | 12.73                   | 13.83       | 16.99       | 18.41       | 19.83       | 20.14       | 23.29       | 24.08       | 28.02       | 31.96       | 35.90       | 39.83       | 43.77       | 48.66       | 53.22       | 59.52        | 75.27        |             |
| 1.25                  | 72                    | 7.218             | 90           | 9.023             | 11.30                   | 12.41       | 15.56       | 16.99       | 18.40       | 18.72       | 21.87       | 22.66       | 26.60       | 30.54       | 34.48       | 38.41       | 42.35       | 47.24       | 51.80       | <b>58.10</b> | <b>73.85</b> |             |
| 1.26                  | 38                    | 3.810             | 48           | 4.812             | 17.32                   | 18.42       | 21.57       | 22.99       | 24.40       | 24.72       | 27.87       | 28.66       | 32.59       | 36.53       | 40.47       | 44.41       | 48.35       | 53.23       | 57.79       | 64.09        | 79.84        |             |
| 1.27                  | 30                    | 3.008             | 38           | 3.810             | 18.74                   | 19.84       | 22.99       | 24.41       | 25.82       | 26.14       | 29.29       | 30.08       | 34.01       | 37.95       | 41.89       | 45.82       | 49.76       | 54.64       | 59.21       | 65.51        | 81.26        |             |
| 1.27                  | 22                    | 2.206             | 28           | 2.807             | 20.16                   | 21.26       | 24.41       | 25.83       | 27.24       | 27.56       | 30.71       | 31.50       | 35.43       | 39.37       | 43.31       | 47.24       | 51.18       | 56.06       | 60.63       | 66.93        | 82.68        |             |
| 1.27                  | 44                    | 4.411             | 56           | 5.614             | 16.21                   | 17.31       | 20.46       | 21.88       | 23.30       | 23.61       | 26.76       | 27.55       | 31.49       | 35.43       | 39.37       | 43.30       | 47.24       | 52.12       | 56.69       | 62.99        | 78.74        |             |
| 1.29                  | 28                    | 2.807             | 36           | 3.609             | 19.05                   | 20.15       | 23.30       | 24.72       | 26.14       | 26.45       | 29.60       | 30.39       | 34.33       | 38.26       | 42.20       | 46.14       | 50.08       | 54.96       | 59.52       | 65.82        | 81.57        |             |
| 1.29                  | 56                    | 5.614             | 72           | 7.218             | 13.99                   | 15.10       | 18.25       | 19.67       | 21.09       | 21.40       | 24.55       | 25.34       | 29.28       | 33.22       | 37.16       | 41.09       | 45.03       | 49.92       | 54.48       | 60.78        | 76.53        |             |
| 1.29                  | 34                    | 3.409             | 44           | 4.411             | 17.95                   | 19.05       | 22.20       | 23.62       | 25.03       | 25.35       | 28.50       | 29.29       | 33.22       | 37.16       | 41.10       | 45.04       | 48.98       | 53.86       | 58.42       | 64.72        | 80.47        |             |
| 1.31                  | 26                    | 2.607             | 34           | 3.409             | 19.37                   | 20.47       | 23.62       | 25.04       | 26.45       | 26.77       | 29.92       | 30.71       | 34.64       | 38.58       | 42.52       | 46.45       | 50.39       | 55.27       | 59.84       | 66.14        | 81.89        |             |
| 1.33                  | 24                    | 2.406             | 32           | 3.208             | 19.68                   | 20.78       | 23.93       | 25.35       | 26.77       | 27.08       | 30.23       | 31.02       | 34.96       | 38.89       | 42.83       | 46.77       | 50.71       | 55.59       | 60.15       | 66.45        | 82.20        |             |
| 1.33                  | 30                    | 3.008             | 40           | 4.010             | 18.58                   | 19.68       | 22.83       | 24.25       | 25.66       | 25.98       | 29.13       | 29.92       | 33.85       | 37.79       | 41.73       | 45.67       | 49.61       | 54.49       | 59.05       | 65.35        | 81.10        |             |
| 1.33                  | 36                    | 3.609             | 48           | 4.812             | 17.47                   | 18.57       | 21.72       | 23.14       | 24.56       | 24.87       | 28.02       | 28.81       | 32.75       | 36.69       | 40.63       | 44.56       | 48.50       | 53.38       | 57.95       | 64.25        | 80.00        |             |
| 1.33                  | 48                    | 4.812             | 64           | 6.416             | 15.26                   | 16.36       | 19.51       | 20.93       | 22.35       | 22.66       | 25.81       | 26.60       | 30.54       | 34.48       | 38.42       | 42.35       | 46.29       | 51.18       | 55.74       | 62.04        | 77.79        |             |
| 1.36                  | 28                    | 2.807             | 38           | 3.810             | 18.89                   | 19.99       | 23.14       | 24.56       | 25.98       | 26.29       | 29.44       | 30.23       | 34.17       | 38.10       | 42.05       | 45.98       | 49.92       | 54.80       | 59.37       | 65.67        | 81.42        |             |
| 1.36                  | 22                    | 2.206             | 30           | 3.008             | 20.00                   | 21.10       | 24.25       | 25.67       | 27.08       | 27.40       | 30.55       | 31.34       | 35.27       | 39.21       | 43.15       | 47.08       | 51.02       | 55.90       | 60.47       | 66.77        | 82.52        |             |
| 1.38                  | 32                    | 3.208             | 44           | 4.411             | 18.10                   | 19.20       | 22.35       | 23.77       | 25.19       | 25.50       | 28.65       | 29.44       | 33.38       | 37.32       | 41.26       | 45.19       | 49.13       | 54.01       | 58.58       | 64.88        | 80.63        |             |
| 1.39                  | 26                    | 2.607             | 36           | 3.609             | 19.21                   | 20.31       | 23.46       | 24.88       | 26.29       | 26.61       | 29.76       | 30.55       | 34.48       | 38.42       | 42.36       | 46.30       | 50.24       | 55.12       | 59.68       | 65.98        | 81.73        |             |
| 1.40                  | 40                    | 4.010             | 56           | 5.614             | 16.52                   | 17.62       | 20.77       | 22.19       | 23.61       | 23.92       | 27.07       | 27.86       | 31.80       | 35.74       | 39.68       | 43.61       | 47.55       | 52.44       | 57.00       | 63.30        | 79.05        |             |
| 1.40                  | 80                    | 8.020             | 112          | 11.229            | ...                     | 9.95        | 13.13       | 14.56       | 15.98       | 16.30       | 19.46       | 20.25       | 24.20       | 28.14       | 32.09       | 36.03       | 39.97       | 44.85       | 49.42       | 55.72        | 71.48        |             |
| 1.41                  | 64                    | 6.416             | 90           | 9.023             | 11.90                   | 13.00       | 16.17       | 17.59       | 19.01       | 19.33       | 22.48       | 23.27       | 27.21       | 31.15       | 35.10       | 39.03       | 42.97       | 47.86       | 52.42       | 58.72        | 74.48        |             |
| 1.41                  | 34                    | 3.409             | 48           | 4.812             | 17.62                   | 18.73       | 21.88       | 23.30       | 24.71       | 25.03       | 28.18       | 28.97       | 32.91       | 36.84       | 40.78       | 44.72       | 48.66       | 53.54       | 58.10       | 64.40        | 80.16        |             |
| 1.42                  | 24                    | 2.406             | 34           | 3.409             | 19.52                   | 20.62       | 23.77       | 25.19       | 26.61       | 26.92       | 30.07       | 30.86       | 34.80       | 38.73       | 42.67       | 46.61       | 50.55       | 55.43       | 60.00       | 66.30        | 82.05        |             |
| 1.43                  | 28                    | 2.807             | 40           | 4.010             | 18.73                   | 19.83       | 22.98       | 24.40       | 25.82       | 26.13       | 29.28       | 30.07       | 34.01       | 37.95       | 41.89       | 45.82       | 49.76       | 54.64       | 59.21       | 65.51        | 81.26        |             |
| 1.43                  | 56                    | 5.614             | 80           | 8.020             | 13.33                   | 14.44       | 17.60       | 19.02       | 20.44       | 20.75       | 23.91       | 24.70       | 28.64       | 32.57       | 36.52       | 40.45       | 44.40       | 49.28       | 53.84       | 60.14        | 75.90        |             |
| 1.46                  | 22                    | 2.206             | 32           | 3.208             | 19.84                   | 20.94       | 24.09       | 25.51       | 26.92       | 27.24       | 30.39       | 31.18       | 35.11       | 39.05       | 42.99       | 46.93       | 50.87       | 55.75       | 60.31       | 66.61        | 82.36        |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>1.00</b>             | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b>  | <b>1.20</b>  | <b>1.20</b> |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged.  
 Large Sprocket should be ordered with flanges as a special.

\* This length correction factor must be used to determine the proper belt width.



# SELECTION

## 8MM Pitch HT200 Belt Drive Selection Table

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 480-8M                  | 560-8M      | 600-8M      | 640-8M      | 720-8M      | 800-8M      | 840-8M      | 880-8M      | 920-8M      | 960-8M      | 1040-8M     | 1064-8M     | 1120-8M     | 1160-8M     | 1200-8M     |             |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.80</b>             | <b>0.80</b> | <b>0.80</b> | <b>0.90</b> | <b>0.90</b> | <b>0.90</b> | <b>0.90</b> | <b>0.90</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> |
| 1.46                  | 44                    | 4.411             | 64           | 6.416             | ...                     | ...         | ...         | ...         | ...         | 7.18        | 7.97        | 8.76        | 9.55        | 10.35       | 11.92       | 12.40       | 13.50       | 14.30       | 15.08       |             |
| 1.46                  | 26                    | 2.607             | 38           | 3.810             | 4.37                    | 5.95        | 6.74        | 7.54        | 9.12        | 10.69       | 11.48       | 12.27       | 13.06       | 13.85       | 15.42       | 15.89       | 16.99       | 17.78       | 18.57       |             |
| 1.47                  | 30                    | 3.008             | 44           | 4.411             | ...                     | 5.15        | 5.94        | 6.74        | 8.32        | 9.90        | 10.69       | 11.48       | 12.26       | 13.05       | 14.63       | 15.10       | 16.20       | 16.99       | 17.78       |             |
| 1.47                  | 38                    | 3.810             | 56           | 5.614             | ...                     | ...         | ...         | ...         | 6.71        | 8.30        | 9.09        | 9.88        | 10.67       | 11.46       | 13.04       | 13.51       | 14.62       | 15.41       | 16.19       |             |
| 1.50                  | 24                    | 2.406             | 36           | 3.609             | 4.69                    | 6.27        | 7.06        | 7.85        | 9.43        | 11.01       | 11.80       | 12.59       | 13.37       | 14.16       | 15.73       | 16.21       | 17.31       | 18.10       | 18.89       |             |
| 1.50                  | 32                    | 3.208             | 48           | 4.812             | ...                     | 4.66        | 5.45        | 6.25        | 7.84        | 9.42        | 10.20       | 11.00       | 11.78       | 12.58       | 14.15       | 14.62       | 15.73       | 16.52       | 17.30       |             |
| 1.50                  | 48                    | 4.812             | 72           | 7.218             | ...                     | ...         | ...         | ...         | ...         | ...         | 6.98        | 7.78        | 8.58        | 9.37        | 10.96       | 11.43       | 12.54       | 13.33       | 14.12       |             |
| 1.54                  | 26                    | 2.607             | 40           | 4.010             | 4.19                    | 5.79        | 6.58        | 7.37        | 8.95        | 10.53       | 11.32       | 12.11       | 12.89       | 13.69       | 15.26       | 15.73       | 16.83       | 17.62       | 18.41       |             |
| 1.55                  | 22                    | 2.206             | 34           | 3.409             | 5.00                    | 6.59        | 7.38        | 8.17        | 9.75        | 11.32       | 12.11       | 12.90       | 13.69       | 14.48       | 16.05       | 16.52       | 17.62       | 18.42       | 19.20       |             |
| 1.56                  | 36                    | 3.609             | 56           | 5.614             | ...                     | ...         | ...         | 5.26        | 6.86        | 8.45        | 9.24        | 10.03       | 10.82       | 11.61       | 13.19       | 13.66       | 14.77       | 15.56       | 16.35       |             |
| 1.56                  | 72                    | 7.218             | 112          | 11.229            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |             |
| 1.57                  | 28                    | 2.807             | 44           | 4.411             | ...                     | 5.30        | 6.09        | 6.88        | 8.47        | 10.05       | 10.84       | 11.63       | 12.42       | 13.21       | 14.78       | 15.25       | 16.36       | 17.15       | 17.93       |             |
| 1.58                  | 24                    | 2.406             | 38           | 3.810             | 4.51                    | 6.10        | 6.89        | 7.69        | 9.27        | 10.85       | 11.63       | 12.42       | 13.21       | 14.00       | 15.57       | 16.05       | 17.15       | 17.94       | 18.72       |             |
| 1.60                  | 30                    | 3.008             | 48           | 4.812             | ...                     | 4.80        | 5.60        | 6.39        | 7.98        | 9.57        | 10.35       | 11.15       | 11.93       | 12.73       | 14.30       | 14.78       | 15.88       | 16.67       | 17.45       |             |
| 1.60                  | 40                    | 4.010             | 64           | 6.416             | ...                     | ...         | ...         | ...         | 5.86        | 7.46        | 8.26        | 9.06        | 9.85        | 10.64       | 12.22       | 12.70       | 13.80       | 14.60       | 15.38       |             |
| 1.61                  | 56                    | 5.614             | 90           | 9.023             | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 8.81        | 9.29        | 10.41       | 11.21       | 12.00       |             |
| 1.64                  | 22                    | 2.206             | 36           | 3.609             | 4.83                    | 6.42        | 7.21        | 8.00        | 9.58        | 11.16       | 11.95       | 12.74       | 13.52       | 14.32       | 15.89       | 16.36       | 17.46       | 18.25       | 19.04       |             |
| 1.64                  | 44                    | 4.411             | 72           | 7.218             | ...                     | ...         | ...         | ...         | ...         | 6.46        | 7.27        | 8.07        | 8.87        | 9.66        | 11.25       | 11.73       | 12.83       | 13.63       | 14.42       |             |
| 1.65                  | 34                    | 3.409             | 56           | 5.614             | ...                     | ...         | ...         | 5.40        | 7.00        | 8.59        | 9.38        | 10.18       | 10.97       | 11.76       | 13.34       | 13.81       | 14.92       | 15.71       | 16.50       |             |
| 1.67                  | 24                    | 2.406             | 40           | 4.010             | 4.34                    | 5.93        | 6.72        | 7.52        | 9.10        | 10.68       | 11.47       | 12.26       | 13.05       | 13.84       | 15.41       | 15.89       | 16.99       | 17.78       | 18.56       |             |
| 1.67                  | 48                    | 4.812             | 80           | 8.020             | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | 7.06        | 7.87        | 8.67        | 10.27       | 10.75       | 11.86       | 12.65       | 13.45       |             |
| 1.68                  | 38                    | 3.810             | 64           | 6.416             | ...                     | ...         | ...         | ...         | 6.00        | 7.61        | 8.40        | 9.20        | 9.99        | 10.79       | 12.37       | 12.85       | 13.95       | 14.75       | 15.53       |             |
| 1.69                  | 26                    | 2.607             | 44           | 4.411             | ...                     | 5.44        | 6.23        | 7.03        | 8.62        | 10.20       | 10.99       | 11.78       | 12.57       | 13.36       | 14.93       | 15.41       | 16.51       | 17.30       | 18.09       |             |
| 1.71                  | 28                    | 2.807             | 48           | 4.812             | ...                     | 4.94        | 5.74        | 6.54        | 8.13        | 9.71        | 10.50       | 11.30       | 12.08       | 12.88       | 14.45       | 14.93       | 16.03       | 16.82       | 17.61       |             |
| 1.73                  | 22                    | 2.206             | 38           | 3.810             | 4.66                    | 6.25        | 7.04        | 7.83        | 9.42        | 11.00       | 11.78       | 12.57       | 13.36       | 14.15       | 15.72       | 16.20       | 17.30       | 18.09       | 18.88       |             |
| 1.75                  | 32                    | 3.208             | 56           | 5.614             | ...                     | ...         | ...         | 5.54        | 7.14        | 8.74        | 9.53        | 10.33       | 11.12       | 11.91       | 13.49       | 13.96       | 15.07       | 15.86       | 16.65       |             |
| 1.75                  | 64                    | 6.416             | 112          | 11.229            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 9.45        |             |
| 1.78                  | 36                    | 3.609             | 64           | 6.416             | ...                     | ...         | ...         | ...         | 6.14        | 7.75        | 8.55        | 9.35        | 10.14       | 10.94       | 12.52       | 13.00       | 14.10       | 14.90       | 15.68       |             |
| 1.80                  | 40                    | 4.010             | 72           | 7.218             | ...                     | ...         | ...         | ...         | ...         | 6.74        | 7.55        | 8.35        | 9.15        | 9.95        | 11.54       | 12.02       | 13.13       | 13.92       | 14.71       |             |
| 1.80                  | 80                    | 8.020             | 144          | 14.437            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |             |
| 1.82                  | 22                    | 2.206             | 40           | 4.010             | 4.48                    | 6.08        | 6.87        | 7.66        | 9.25        | 10.83       | 11.62       | 12.41       | 13.20       | 13.99       | 15.56       | 16.04       | 17.14       | 17.93       | 18.72       |             |
| 1.82                  | 44                    | 4.411             | 80           | 8.020             | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | 7.34        | 8.15        | 8.95        | 10.55       | 11.03       | 12.15       | 12.95       | 13.74       |             |
| 1.83                  | 24                    | 2.406             | 44           | 4.411             | 3.97                    | 5.58        | 6.38        | 7.18        | 8.76        | 10.35       | 11.14       | 11.93       | 12.72       | 13.51       | 15.08       | 15.56       | 16.66       | 17.45       | 18.24       |             |
| 1.85                  | 26                    | 2.607             | 48           | 4.812             | ...                     | 5.08        | 5.88        | 6.68        | 8.27        | 9.86        | 10.65       | 11.44       | 12.23       | 13.03       | 14.60       | 15.08       | 16.18       | 16.97       | 17.76       |             |
| 1.87                  | 30                    | 3.008             | 56           | 5.614             | ...                     | ...         | 4.86        | 5.68        | 7.29        | 8.88        | 9.68        | 10.47       | 11.26       | 12.06       | 13.64       | 14.11       | 15.22       | 16.01       | 16.80       |             |
| 1.88                  | 48                    | 4.812             | 90           | 9.023             | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 7.75        | 9.37        | 9.85        | 10.98       | 11.78       | 12.58       |             |
| 1.88                  | 34                    | 3.409             | 64           | 6.416             | ...                     | ...         | ...         | ...         | 6.28        | 7.89        | 8.69        | 9.49        | 10.28       | 11.08       | 12.66       | 13.14       | 14.25       | 15.04       | 15.83       |             |
| 1.90                  | 38                    | 3.810             | 72           | 7.218             | ...                     | ...         | ...         | ...         | ...         | 6.88        | 7.68        | 8.49        | 9.29        | 10.09       | 11.68       | 12.16       | 13.27       | 14.07       | 14.86       |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.80</b>             | <b>0.80</b> | <b>0.80</b> | <b>0.90</b> | <b>0.90</b> | <b>0.90</b> | <b>0.90</b> | <b>0.90</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged.  
Large Sprocket should be ordered with flanges as a special.

\* This length correction factor must be used to determine the proper belt width.

|                                  |                               |                                       |  |
|----------------------------------|-------------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SPECIFICATIONS<br>PAGE PT11-4 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|-------------------------------|---------------------------------------|--|



## 8MM Pitch HT200 Belt Drive Selection Table

| Speed Ratio | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|             | Driver                |                   | Driven       |                   | 1224-8M                 | 1280-8M     | 1440-8M     | 1512-8M     | 1584-8M     | 1600-8M     | 1760-8M     | 1800-8M     | 2000-8M     | 2200-8M     | 2400-8M     | 2600-8M     | 2800-8M     | 3048-8M     | 3280-8M     | 3600-8M     | 4400-8M     |             |
|             | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|             | <b>Length Factor*</b> |                   |              |                   | <b>1.00</b>             | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> |
| 1.46        | 44                    | 4.411             | 64           | 6.416             | 15.56                   | 16.66       | 19.82       | 21.24       | 22.65       | 22.97       | 26.12       | 26.91       | 30.85       | 34.79       | 38.73       | 42.66       | 46.61       | 51.49       | 56.05       | 62.35       | 78.11       |             |
| 1.46        | 26                    | 2.607             | 38           | 3.810             | 19.05                   | 20.15       | 23.30       | 24.72       | 26.13       | 26.45       | 29.60       | 30.39       | 34.32       | 38.26       | 42.20       | 46.14       | 50.08       | 54.96       | 59.52       | 65.82       | 81.57       |             |
| 1.47        | 30                    | 3.008             | 44           | 4.411             | 18.25                   | 19.36       | 22.51       | 23.93       | 25.34       | 25.66       | 28.81       | 29.60       | 33.54       | 37.47       | 41.41       | 45.35       | 49.29       | 54.17       | 58.73       | 65.03       | 80.79       |             |
| 1.47        | 38                    | 3.810             | 56           | 5.614             | 16.67                   | 17.77       | 20.92       | 22.35       | 23.76       | 24.08       | 27.23       | 28.02       | 31.96       | 35.89       | 39.83       | 43.77       | 47.71       | 52.59       | 57.16       | 63.46       | 79.21       |             |
| 1.50        | 24                    | 2.406             | 36           | 3.609             | 19.36                   | 20.46       | 23.61       | 25.03       | 26.45       | 26.76       | 29.91       | 30.70       | 34.64       | 38.58       | 42.52       | 46.45       | 50.39       | 55.27       | 59.84       | 66.14       | 81.89       |             |
| 1.50        | 32                    | 3.208             | 48           | 4.812             | 17.78                   | 18.88       | 22.03       | 23.45       | 24.87       | 25.18       | 28.33       | 29.13       | 33.06       | 37.00       | 40.94       | 44.87       | 48.81       | 53.70       | 58.26       | 64.56       | 80.31       |             |
| 1.50        | 48                    | 4.812             | 72           | 7.218             | 14.60                   | 15.70       | 18.86       | 20.28       | 21.70       | 22.01       | 25.17       | 25.96       | 29.90       | 33.84       | 37.78       | 41.71       | 45.66       | 50.54       | 55.10       | 61.40       | 77.16       |             |
| 1.54        | 26                    | 2.607             | 40           | 4.010             | 18.88                   | 19.99       | 23.14       | 24.56       | 25.97       | 26.29       | 29.44       | 30.23       | 34.17       | 38.10       | 42.04       | 45.98       | 49.92       | 54.80       | 59.36       | 65.66       | 81.41       |             |
| 1.55        | 22                    | 2.206             | 34           | 3.409             | 19.68                   | 20.78       | 23.93       | 25.35       | 26.76       | 27.08       | 30.23       | 31.02       | 34.95       | 38.89       | 42.83       | 46.77       | 50.71       | 55.59       | 60.15       | 66.45       | 82.20       |             |
| 1.56        | 36                    | 3.609             | 56           | 5.614             | 16.82                   | 17.92       | 21.08       | 22.50       | 23.92       | 24.23       | 27.38       | 28.17       | 32.11       | 36.05       | 39.99       | 43.92       | 47.87       | 52.75       | 57.31       | 63.61       | 79.36       |             |
| 1.56        | 72                    | 7.218             | 112          | 11.229            | ...                     | 10.51       | 13.71       | 15.14       | 16.57       | 16.89       | 20.06       | 20.85       | 24.80       | 28.75       | 32.70       | 36.64       | 40.58       | 45.47       | 50.04       | 56.34       | 72.10       |             |
| 1.57        | 28                    | 2.807             | 44           | 4.411             | 18.41                   | 19.51       | 22.66       | 24.08       | 25.50       | 25.81       | 28.96       | 29.76       | 33.69       | 37.63       | 41.57       | 45.50       | 49.44       | 54.33       | 58.89       | 65.19       | 80.94       |             |
| 1.58        | 24                    | 2.406             | 38           | 3.810             | 19.20                   | 20.30       | 23.45       | 24.87       | 26.29       | 26.60       | 29.75       | 30.54       | 34.48       | 38.42       | 42.36       | 46.29       | 50.23       | 55.11       | 59.68       | 65.98       | 81.73       |             |
| 1.60        | 30                    | 3.008             | 48           | 4.812             | 17.93                   | 19.03       | 22.18       | 23.61       | 25.02       | 25.34       | 28.49       | 29.28       | 33.22       | 37.15       | 41.09       | 45.03       | 48.97       | 53.85       | 58.42       | 64.72       | 80.47       |             |
| 1.60        | 40                    | 4.010             | 64           | 6.416             | 15.86                   | 16.96       | 20.12       | 21.54       | 22.96       | 23.28       | 26.43       | 27.22       | 31.16       | 35.10       | 39.04       | 42.97       | 46.92       | 51.80       | 56.36       | 62.66       | 78.42       |             |
| 1.61        | 56                    | 5.614             | 90           | 9.023             | 12.48                   | 13.59       | 16.76       | 18.19       | 19.61       | 19.93       | 23.09       | 23.88       | 27.82       | 31.76       | 35.71       | 39.65       | 43.59       | 48.47       | 53.04       | 59.34       | 75.10       |             |
| 1.64        | 22                    | 2.206             | 36           | 3.609             | 19.52                   | 20.62       | 23.77       | 25.19       | 26.60       | 26.92       | 30.07       | 30.86       | 34.80       | 38.73       | 42.67       | 46.61       | 50.55       | 55.43       | 59.99       | 66.29       | 82.04       |             |
| 1.64        | 44                    | 4.411             | 72           | 7.218             | 14.90                   | 16.00       | 19.16       | 20.58       | 22.00       | 22.32       | 25.47       | 26.26       | 30.20       | 34.14       | 38.09       | 42.02       | 45.97       | 50.85       | 55.41       | 61.72       | 77.47       |             |
| 1.65        | 34                    | 3.409             | 56           | 5.614             | 16.97                   | 18.07       | 21.23       | 22.65       | 24.07       | 24.38       | 27.54       | 28.33       | 32.26       | 36.20       | 40.14       | 44.08       | 48.02       | 52.90       | 57.47       | 63.77       | 79.52       |             |
| 1.67        | 24                    | 2.406             | 40           | 4.010             | 19.04                   | 20.14       | 23.29       | 24.71       | 26.13       | 26.44       | 29.60       | 30.39       | 34.32       | 38.26       | 42.20       | 46.13       | 50.07       | 54.96       | 59.52       | 65.82       | 81.57       |             |
| 1.67        | 48                    | 4.812             | 80           | 8.020             | 13.92                   | 15.03       | 18.20       | 19.62       | 21.04       | 21.36       | 24.51       | 25.31       | 29.25       | 33.19       | 37.13       | 41.07       | 45.01       | 49.90       | 54.46       | 60.77       | 76.52       |             |
| 1.68        | 38                    | 3.810             | 64           | 6.416             | 16.01                   | 17.11       | 20.27       | 21.69       | 23.11       | 23.43       | 26.58       | 27.37       | 31.31       | 35.25       | 39.19       | 43.13       | 47.07       | 51.95       | 56.52       | 62.82       | 78.57       |             |
| 1.69        | 26                    | 2.607             | 44           | 4.411             | 18.56                   | 19.66       | 22.82       | 24.24       | 25.65       | 25.97       | 29.12       | 29.91       | 33.85       | 37.78       | 41.72       | 45.66       | 49.60       | 54.48       | 59.05       | 65.35       | 81.10       |             |
| 1.71        | 28                    | 2.807             | 48           | 4.812             | 18.08                   | 19.18       | 22.34       | 23.76       | 25.18       | 25.49       | 28.64       | 29.43       | 33.37       | 37.31       | 41.25       | 45.18       | 49.13       | 54.01       | 58.57       | 64.87       | 80.62       |             |
| 1.73        | 22                    | 2.206             | 38           | 3.810             | 19.35                   | 20.45       | 23.61       | 25.03       | 26.44       | 26.76       | 29.91       | 30.70       | 34.64       | 38.57       | 42.51       | 46.45       | 50.39       | 55.27       | 59.83       | 66.14       | 81.89       |             |
| 1.75        | 32                    | 3.208             | 56           | 5.614             | 17.12                   | 18.23       | 21.38       | 22.80       | 24.22       | 24.54       | 27.69       | 28.48       | 32.42       | 36.36       | 40.30       | 44.23       | 48.18       | 53.06       | 57.62       | 63.92       | 79.68       |             |
| 1.75        | 64                    | 6.416             | 112          | 11.229            | 9.94                    | 11.07       | 14.28       | 15.72       | 17.15       | 17.47       | 20.65       | 21.44       | 25.40       | 29.35       | 33.30       | 37.24       | 41.19       | 46.08       | 50.65       | 56.96       | 72.72       |             |
| 1.78        | 36                    | 3.609             | 64           | 6.416             | 16.16                   | 17.26       | 20.42       | 21.85       | 23.26       | 23.58       | 26.73       | 27.53       | 31.47       | 35.40       | 39.35       | 43.28       | 47.23       | 52.11       | 56.67       | 62.98       | 78.73       |             |
| 1.80        | 40                    | 4.010             | 72           | 7.218             | 15.19                   | 16.30       | 19.46       | 20.88       | 22.30       | 22.62       | 25.78       | 26.57       | 30.51       | 34.45       | 38.39       | 42.33       | 46.27       | 51.16       | 55.72       | 62.03       | 77.78       |             |
| 1.80        | 80                    | 8.020             | 144          | 14.437            | ...                     | ...         | ...         | 11.68       | 13.15       | 13.47       | 16.70       | 17.50       | 21.49       | 25.46       | 29.43       | 33.39       | 37.34       | 42.24       | 46.82       | 53.13       | 68.90       |             |
| 1.82        | 22                    | 2.206             | 40           | 4.010             | 19.19                   | 20.29       | 23.45       | 24.87       | 26.28       | 26.60       | 29.75       | 30.54       | 34.48       | 38.41       | 42.35       | 46.29       | 50.23       | 55.11       | 59.68       | 65.98       | 81.73       |             |
| 1.82        | 44                    | 4.411             | 80           | 8.020             | 14.22                   | 15.33       | 18.49       | 19.92       | 21.34       | 21.66       | 24.82       | 25.61       | 29.55       | 33.49       | 37.44       | 41.38       | 45.32       | 50.20       | 54.77       | 61.08       | 76.83       |             |
| 1.83        | 24                    | 2.406             | 44           | 4.411             | 18.71                   | 19.82       | 22.97       | 24.39       | 25.81       | 26.12       | 29.27       | 30.06       | 34.00       | 37.94       | 41.88       | 45.81       | 49.76       | 54.64       | 59.20       | 65.50       | 81.25       |             |
| 1.85        | 26                    | 2.607             | 48           | 4.812             | 18.23                   | 19.34       | 22.49       | 23.91       | 25.33       | 25.64       | 28.80       | 29.59       | 33.53       | 37.46       | 41.40       | 45.34       | 49.28       | 54.16       | 58.73       | 65.03       | 80.78       |             |
| 1.87        | 30                    | 3.008             | 56           | 5.614             | 17.27                   | 18.38       | 21.53       | 22.96       | 24.37       | 24.69       | 27.84       | 28.63       | 32.57       | 36.51       | 40.45       | 44.39       | 48.33       | 53.21       | 57.78       | 64.08       | 79.83       |             |
| 1.88        | 48                    | 4.812             | 90           | 9.023             | 13.06                   | 14.17       | 17.35       | 18.78       | 20.20       | 20.52       | 23.69       | 24.48       | 28.43       | 32.37       | 36.32       | 40.26       | 44.20       | 49.09       | 53.66       | 59.96       | 75.72       |             |
| 1.88        | 34                    | 3.409             | 64           | 6.416             | 16.31                   | 17.41       | 20.57       | 22.00       | 23.42       | 23.73       | 26.89       | 27.68       | 31.62       | 35.56       | 39.50       | 43.44       | 47.38       | 52.26       | 56.83       | 63.13       | 78.88       |             |
| 1.90        | 38                    | 3.810             | 72           | 7.218             | 15.34                   | 16.45       | 19.61       | 21.03       | 22.45       | 22.77       | 25.93       | 26.72       | 30.66       | 34.60       | 38.55       | 42.48       | 46.43       | 51.31       | 55.88       | 62.18       | 77.94       |             |
|             | <b>Length Factor*</b> |                   |              |                   | <b>1.00</b>             | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged.  
Large Sprocket should be ordered with flanges as a special.

\* This length correction factor must be used to determine the proper belt width.



# SELECTION

## 8MM Pitch HT200 Belt Drive Selection Table

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 560-8M                  | 600-8M      | 640-8M      | 720-8M      | 800-8M      | 840-8M      | 880-8M      | 920-8M      | 960-8M      | 1040-8M     | 1064-8M     | 1120-8M     | 1160-8M     | 1200-8M     |             |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.80</b>             | <b>0.80</b> | <b>0.90</b> | <b>0.90</b> | <b>0.90</b> | <b>0.90</b> | <b>0.90</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> |
| 2.00                  | 22                    | 2.206             | 44           | 4.411             | 5.72                    | 6.52        | 7.32        | 8.91        | 10.50       | 11.28       | 12.08       | 12.87       | 13.66       | 15.23       | 15.71       | 16.81       | 17.60       | 18.39       |             |
| 2.00                  | 24                    | 2.406             | 48           | 4.812             | 5.22                    | 6.02        | 6.82        | 8.42        | 10.01       | 10.80       | 11.59       | 12.38       | 13.18       | 14.75       | 15.23       | 16.33       | 17.12       | 17.91       |             |
| 2.00                  | 28                    | 2.807             | 56           | 5.614             | ...                     | 5.00        | 5.82        | 7.43        | 9.03        | 9.82        | 10.62       | 11.41       | 12.21       | 13.78       | 14.26       | 15.37       | 16.16       | 16.95       |             |
| 2.00                  | 32                    | 3.208             | 64           | 6.416             | ...                     | ...         | ...         | 6.41        | 8.03        | 8.83        | 9.63        | 10.43       | 11.23       | 12.81       | 13.29       | 14.40       | 15.19       | 15.98       |             |
| 2.00                  | 36                    | 3.609             | 72           | 7.218             | ...                     | ...         | ...         | ...         | 7.01        | 7.82        | 8.63        | 9.43        | 10.24       | 11.83       | 12.31       | 13.42       | 14.22       | 15.01       |             |
| 2.00                  | 40                    | 4.010             | 80           | 8.020             | ...                     | ...         | ...         | ...         | ...         | 6.79        | 7.61        | 8.42        | 9.23        | 10.84       | 11.32       | 12.43       | 13.23       | 14.03       |             |
| 2.00                  | 56                    | 5.614             | 112          | 11.229            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 9.17        | 9.99        |             |
| 2.00                  | 72                    | 7.218             | 144          | 14.437            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |             |
| 2.05                  | 44                    | 4.411             | 90           | 9.023             | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | 7.19        | 8.01        | 9.64        | 10.13       | 11.26       | 12.06       | 12.86       |             |
| 2.11                  | 38                    | 3.810             | 80           | 8.020             | ...                     | ...         | ...         | ...         | ...         | 6.92        | 7.75        | 8.56        | 9.37        | 10.98       | 11.46       | 12.58       | 13.38       | 14.17       |             |
| 2.12                  | 34                    | 3.409             | 72           | 7.218             | ...                     | ...         | ...         | ...         | 7.15        | 7.96        | 8.77        | 9.57        | 10.38       | 11.97       | 12.45       | 13.56       | 14.36       | 15.15       |             |
| 2.13                  | 30                    | 3.008             | 64           | 6.416             | ...                     | ...         | ...         | 6.55        | 8.17        | 8.97        | 9.77        | 10.57       | 11.37       | 12.96       | 13.44       | 14.54       | 15.34       | 16.13       |             |
| 2.15                  | 26                    | 2.607             | 56           | 5.614             | ...                     | 5.13        | 5.95        | 7.57        | 9.17        | 9.96        | 10.76       | 11.56       | 12.35       | 13.93       | 14.41       | 15.52       | 16.31       | 17.10       |             |
| 2.18                  | 22                    | 2.206             | 48           | 4.812             | 5.35                    | 6.16        | 6.97        | 8.56        | 10.15       | 10.95       | 11.74       | 12.53       | 13.32       | 14.90       | 15.38       | 16.48       | 17.27       | 18.06       |             |
| 2.22                  | 36                    | 3.609             | 80           | 8.020             | ...                     | ...         | ...         | ...         | ...         | 7.05        | 7.88        | 8.70        | 9.51        | 11.12       | 11.60       | 12.72       | 13.52       | 14.32       |             |
| 2.25                  | 32                    | 3.208             | 72           | 7.218             | ...                     | ...         | ...         | ...         | 7.28        | 8.10        | 8.91        | 9.71        | 10.52       | 12.12       | 12.60       | 13.71       | 14.51       | 15.30       |             |
| 2.25                  | 40                    | 4.010             | 90           | 9.023             | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | 7.45        | 8.28        | 9.92        | 10.41       | 11.54       | 12.34       | 13.14       |             |
| 2.25                  | 64                    | 6.416             | 144          | 14.437            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |             |
| 2.29                  | 28                    | 2.807             | 64           | 6.416             | ...                     | ...         | ...         | 6.69        | 8.31        | 9.11        | 9.92        | 10.71       | 11.51       | 13.10       | 13.58       | 14.69       | 15.49       | 16.28       |             |
| 2.33                  | 24                    | 2.406             | 56           | 5.614             | .....                   | 5.26        | 6.09        | 7.71        | 9.31        | 10.11       | 10.91       | 11.70       | 12.50       | 14.08       | 14.56       | 15.66       | 16.46       | 17.25       |             |
| 2.33                  | 48                    | 4.812             | 112          | 11.229            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 8.86        | 9.70        | 10.53       |             |
| 2.35                  | 34                    | 3.409             | 80           | 8.020             | ...                     | ...         | ...         | ...         | 6.35        | 7.19        | 8.01        | 8.83        | 9.65        | 11.26       | 11.74       | 12.86       | 13.66       | 14.46       |             |
| 2.37                  | 38                    | 3.810             | 90           | 9.023             | ...                     | ...         | ...         | ...         | ...         | 6.74        | 7.58        | 8.41        | 9.23        | 10.84       | 11.32       | 12.43       | 13.23       | 14.03       |             |
| 2.40                  | 30                    | 3.008             | 72           | 7.218             | ...                     | ...         | ...         | 5.75        | 7.42        | 8.23        | 9.05        | 9.85        | 10.66       | 12.26       | 12.74       | 13.85       | 14.65       | 15.44       |             |
| 2.40                  | 80                    | 8.020             | 192          | 19.249            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |             |
| 2.46                  | 26                    | 2.607             | 64           | 6.416             | ...                     | ...         | 5.16        | 6.82        | 8.45        | 9.25        | 10.06       | 10.86       | 11.66       | 13.25       | 13.73       | 14.84       | 15.63       | 16.42       |             |
| 2.50                  | 32                    | 3.208             | 80           | 8.020             | ...                     | ...         | ...         | ...         | 6.48        | 7.32        | 8.15        | 8.97        | 9.78        | 11.40       | 11.88       | 13.00       | 13.81       | 14.60       |             |
| 2.50                  | 36                    | 3.609             | 90           | 9.023             | ...                     | ...         | ...         | ...         | ...         | ...         | 6.86        | 7.71        | 8.55        | 10.19       | 10.68       | 11.81       | 12.62       | 13.43       |             |
| 2.55                  | 22                    | 2.206             | 56           | 5.614             | 4.56                    | 5.40        | 6.22        | 7.85        | 9.45        | 10.25       | 11.05       | 11.85       | 12.64       | 14.23       | 14.70       | 15.81       | 16.61       | 17.39       |             |
| 2.55                  | 44                    | 4.411             | 112          | 11.229            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 9.12        | 9.96        | 10.79       |             |
| 2.57                  | 28                    | 2.807             | 72           | 7.218             | ...                     | ...         | ...         | 5.88        | 7.55        | 8.37        | 9.19        | 9.99        | 10.80       | 12.40       | 12.88       | 14.00       | 14.80       | 15.59       |             |
| 2.57                  | 56                    | 5.614             | 144          | 14.437            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |             |
| 2.65                  | 34                    | 3.409             | 90           | 9.023             | ...                     | ...         | ...         | ...         | ...         | ...         | 6.99        | 7.84        | 8.68        | 10.32       | 10.81       | 11.95       | 12.76       | 13.56       |             |
| 2.67                  | 24                    | 2.406             | 64           | 6.416             | ...                     | ...         | 5.29        | 6.96        | 8.59        | 9.39        | 10.20       | 11.00       | 11.80       | 13.39       | 13.87       | 14.98       | 15.78       | 16.57       |             |
| 2.67                  | 30                    | 3.008             | 80           | 8.020             | ...                     | ...         | ...         | ...         | 6.61        | 7.45        | 8.28        | 9.10        | 9.92        | 11.54       | 12.02       | 13.14       | 13.95       | 14.75       |             |
| 2.67                  | 72                    | 7.218             | 192          | 19.249            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |             |
| 2.77                  | 26                    | 2.607             | 72           | 7.218             | ...                     | ...         | ...         | 6.01        | 7.68        | 8.50        | 9.32        | 10.13       | 10.94       | 12.54       | 13.02       | 14.14       | 14.94       | 15.73       |             |
| 2.80                  | 40                    | 4.010             | 112          | 11.229            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 8.16        | 9.37        | 10.22       | 11.06       |             |
| 2.81                  | 32                    | 3.208             | 90           | 9.023             | ...                     | ...         | ...         | ...         | ...         | ...         | 7.12        | 7.97        | 8.81        | 10.46       | 10.95       | 12.09       | 12.90       | 13.70       |             |
| 2.86                  | 28                    | 2.807             | 80           | 8.020             | ...                     | ...         | ...         | ...         | 6.74        | 7.58        | 8.41        | 9.24        | 10.06       | 11.67       | 12.16       | 13.28       | 14.09       | 14.89       |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.80</b>             | <b>0.80</b> | <b>0.90</b> | <b>0.90</b> | <b>0.90</b> | <b>0.90</b> | <b>0.90</b> | <b>0.90</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

\* This length correction factor must be used to determine the proper belt width.

|                                  |                               |                                       |  |
|----------------------------------|-------------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SPECIFICATIONS<br>PAGE PT11-4 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|-------------------------------|---------------------------------------|--|

# SELECTION



## 8MM Pitch HT200 Belt Drive Selection Table

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 1224-8M                 | 1280-8M     | 1440-8M     | 1512-8M     | 1584-8M     | 1600-8M     | 1760-8M     | 1800-8M     | 2000-8M     | 2200-8M     | 2400-8M     | 2600-8M     | 2800-8M     | 3048-8M     | 3280-8M     | 3600-8M     | 4400-8M     |             |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>1.00</b>             | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> |
| 2.00                  | 22                    | 2.206             | 44           | 4.411             | 18.87                   | 19.97       | 23.12       | 24.54       | 25.96       | 26.27       | 29.43       | 30.22       | 34.16       | 38.09       | 42.03       | 45.97       | 49.91       | 54.79       | 59.36       | 65.66       | 81.41       |             |
| 2.00                  | 24                    | 2.406             | 48           | 4.812             | 18.39                   | 19.49       | 22.64       | 24.07       | 25.48       | 25.80       | 28.95       | 29.74       | 33.68       | 37.62       | 41.56       | 45.50       | 49.44       | 54.32       | 58.88       | 65.18       | 80.94       |             |
| 2.00                  | 28                    | 2.807             | 56           | 5.614             | 17.42                   | 18.53       | 21.69       | 23.11       | 24.53       | 24.84       | 28.00       | 28.79       | 32.73       | 36.66       | 40.61       | 44.54       | 48.49       | 53.37       | 57.93       | 64.24       | 79.99       |             |
| 2.00                  | 32                    | 3.208             | 64           | 6.416             | 16.46                   | 17.56       | 20.72       | 22.15       | 23.57       | 23.88       | 27.04       | 27.83       | 31.77       | 35.71       | 39.65       | 43.59       | 47.53       | 52.42       | 56.98       | 63.29       | 79.04       |             |
| 2.00                  | 36                    | 3.609             | 72           | 7.218             | 15.49                   | 16.59       | 19.76       | 21.18       | 22.60       | 22.92       | 26.08       | 26.87       | 30.81       | 34.75       | 38.70       | 42.64       | 46.58       | 51.46       | 56.03       | 62.34       | 78.09       |             |
| 2.00                  | 40                    | 4.010             | 80           | 8.020             | 14.51                   | 15.62       | 18.79       | 20.22       | 21.64       | 21.96       | 25.12       | 25.91       | 29.85       | 33.80       | 37.74       | 41.68       | 45.63       | 50.51       | 55.08       | 61.38       | 77.14       |             |
| 2.00                  | 56                    | 5.614             | 112          | 11.229            | 10.49                   | 11.63       | 14.85       | 16.29       | 17.73       | 18.05       | 21.23       | 22.03       | 25.99       | 29.94       | 33.90       | 37.85       | 41.80       | 46.69       | 51.26       | 57.57       | 73.33       |             |
| 2.00                  | 72                    | 7.218             | 144          | 14.437            | ...                     | ...         | ...         | 12.22       | 13.69       | 14.02       | 17.26       | 18.07       | 22.07       | 26.05       | 30.02       | 33.98       | 37.94       | 42.84       | 47.42       | 53.74       | 69.51       |             |
| 2.05                  | 44                    | 4.411             | 90           | 9.023             | 13.34                   | 14.46       | 17.64       | 19.07       | 20.50       | 20.82       | 23.98       | 24.78       | 28.73       | 32.67       | 36.62       | 40.56       | 44.51       | 49.40       | 53.96       | 60.27       | 76.03       |             |
| 2.11                  | 38                    | 3.810             | 80           | 8.020             | 14.65                   | 15.76       | 18.94       | 20.36       | 21.79       | 22.10       | 25.27       | 26.06       | 30.00       | 33.95       | 37.90       | 41.84       | 45.78       | 50.67       | 55.23       | 61.54       | 77.30       |             |
| 2.12                  | 34                    | 3.409             | 72           | 7.218             | 15.63                   | 16.74       | 19.91       | 21.33       | 22.75       | 23.07       | 26.23       | 27.02       | 30.97       | 34.91       | 38.85       | 42.79       | 46.73       | 51.62       | 56.19       | 62.49       | 78.25       |             |
| 2.13                  | 30                    | 3.008             | 64           | 6.416             | 16.61                   | 17.71       | 20.87       | 22.30       | 23.72       | 24.03       | 27.19       | 27.98       | 31.92       | 35.86       | 39.81       | 43.75       | 47.69       | 52.57       | 57.14       | 63.44       | 79.20       |             |
| 2.15                  | 26                    | 2.607             | 56           | 5.614             | 17.57                   | 18.68       | 21.84       | 23.26       | 24.68       | 24.99       | 28.15       | 28.94       | 32.88       | 36.82       | 40.76       | 44.70       | 48.64       | 53.52       | 58.09       | 64.39       | 80.14       |             |
| 2.18                  | 22                    | 2.206             | 48           | 4.812             | 18.54                   | 19.64       | 22.80       | 24.22       | 25.63       | 25.95       | 29.10       | 29.89       | 33.83       | 37.77       | 41.71       | 45.65       | 49.59       | 54.47       | 59.04       | 65.34       | 81.09       |             |
| 2.22                  | 36                    | 3.609             | 80           | 8.020             | 14.80                   | 15.91       | 19.08       | 20.51       | 21.94       | 22.25       | 25.42       | 26.21       | 30.16       | 34.10       | 38.05       | 41.99       | 45.93       | 50.82       | 55.39       | 61.69       | 77.45       |             |
| 2.25                  | 32                    | 3.208             | 72           | 7.218             | 15.78                   | 16.89       | 20.06       | 21.48       | 22.90       | 23.22       | 26.38       | 27.17       | 31.12       | 35.06       | 39.00       | 42.94       | 46.89       | 51.77       | 56.34       | 62.64       | 78.40       |             |
| 2.25                  | 40                    | 4.010             | 90           | 9.023             | 13.63                   | 14.75       | 17.93       | 19.37       | 20.79       | 21.11       | 24.28       | 25.07       | 29.03       | 32.97       | 36.92       | 40.87       | 44.81       | 49.70       | 54.27       | 60.58       | 76.34       |             |
| 2.25                  | 64                    | 6.416             | 144          | 14.437            | ...                     | ...         | 11.24       | 12.75       | 14.23       | 14.56       | 17.81       | 18.62       | 22.64       | 26.62       | 30.60       | 34.57       | 38.53       | 43.44       | 48.02       | 54.34       | 70.12       |             |
| 2.29                  | 28                    | 2.807             | 64           | 6.416             | 16.75                   | 17.86       | 21.02       | 22.45       | 23.87       | 24.18       | 27.34       | 28.13       | 32.08       | 36.02       | 39.96       | 43.90       | 47.84       | 52.73       | 57.29       | 63.60       | 79.35       |             |
| 2.33                  | 24                    | 2.406             | 56           | 5.614             | 17.72                   | 18.83       | 21.99       | 23.41       | 24.83       | 25.14       | 28.30       | 29.09       | 33.03       | 36.97       | 40.91       | 44.85       | 48.79       | 53.68       | 58.24       | 64.55       | 80.30       |             |
| 2.33                  | 48                    | 4.812             | 112          | 11.229            | 11.03                   | 12.17       | 15.41       | 16.86       | 18.30       | 18.62       | 21.81       | 22.61       | 26.58       | 30.54       | 34.50       | 38.45       | 42.40       | 47.29       | 51.87       | 58.18       | 73.95       |             |
| 2.35                  | 34                    | 3.409             | 80           | 8.020             | 14.94                   | 16.05       | 19.23       | 20.66       | 22.08       | 22.40       | 25.56       | 26.36       | 30.31       | 34.25       | 38.20       | 42.14       | 46.09       | 50.97       | 55.54       | 61.85       | 77.60       |             |
| 2.37                  | 38                    | 3.810             | 90           | 9.023             | 13.77                   | 14.89       | 18.08       | 19.51       | 20.94       | 21.26       | 24.43       | 25.22       | 29.17       | 33.12       | 37.07       | 41.02       | 44.97       | 49.85       | 54.42       | 60.73       | 76.49       |             |
| 2.40                  | 30                    | 3.008             | 72           | 7.218             | 15.92                   | 17.03       | 20.20       | 21.63       | 23.05       | 23.37       | 26.53       | 27.32       | 31.27       | 35.21       | 39.16       | 43.10       | 47.04       | 51.93       | 56.49       | 62.80       | 78.56       |             |
| 2.40                  | 80                    | 8.020             | 192          | 19.249            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 17.04       | 21.16       | 25.21       | 29.24       | 33.24       | 38.18       | 42.79       | 49.14       | 64.97       |             |
| 2.46                  | 26                    | 2.607             | 64           | 6.416             | 16.90                   | 18.01       | 21.17       | 22.60       | 24.02       | 24.33       | 27.49       | 28.28       | 32.23       | 36.17       | 40.11       | 44.05       | 48.00       | 52.88       | 57.45       | 63.75       | 79.51       |             |
| 2.50                  | 32                    | 3.208             | 80           | 8.020             | 15.08                   | 16.20       | 19.38       | 20.81       | 22.23       | 22.55       | 25.71       | 26.51       | 30.46       | 34.40       | 38.35       | 42.29       | 46.24       | 51.12       | 55.69       | 62.00       | 77.76       |             |
| 2.50                  | 36                    | 3.609             | 90           | 9.023             | 13.91                   | 15.03       | 18.22       | 19.66       | 21.08       | 21.40       | 24.57       | 25.37       | 29.32       | 33.27       | 37.23       | 41.17       | 45.12       | 50.01       | 54.58       | 60.88       | 76.65       |             |
| 2.55                  | 22                    | 2.206             | 56           | 5.614             | 17.87                   | 18.98       | 22.14       | 23.56       | 24.98       | 25.30       | 28.45       | 29.24       | 33.18       | 37.12       | 41.07       | 45.01       | 48.95       | 53.83       | 58.40       | 64.70       | 80.46       |             |
| 2.55                  | 44                    | 4.411             | 112          | 11.229            | 11.29                   | 12.44       | 15.69       | 17.14       | 18.58       | 18.90       | 22.10       | 22.90       | 26.87       | 30.83       | 34.79       | 38.75       | 42.70       | 47.59       | 52.17       | 58.48       | 74.25       |             |
| 2.57                  | 28                    | 2.807             | 72           | 7.218             | 16.07                   | 17.18       | 20.35       | 21.78       | 23.20       | 23.52       | 26.68       | 27.47       | 31.42       | 35.36       | 39.31       | 43.25       | 47.19       | 52.08       | 56.65       | 62.95       | 78.71       |             |
| 2.57                  | 56                    | 5.614             | 144          | 14.437            | ...                     | ...         | 11.76       | 13.28       | 14.77       | 15.10       | 18.36       | 19.18       | 23.20       | 27.20       | 31.18       | 35.15       | 39.12       | 44.03       | 48.62       | 54.94       | 70.73       |             |
| 2.65                  | 34                    | 3.409             | 90           | 9.023             | 14.05                   | 15.17       | 18.37       | 19.80       | 21.23       | 21.55       | 24.72       | 25.52       | 29.47       | 33.42       | 37.38       | 41.32       | 45.27       | 50.16       | 54.73       | 61.04       | 76.80       |             |
| 2.67                  | 24                    | 2.406             | 64           | 6.416             | 17.05                   | 18.16       | 21.32       | 22.75       | 24.17       | 24.48       | 27.64       | 28.44       | 32.38       | 36.32       | 40.27       | 44.21       | 48.15       | 53.03       | 57.60       | 63.90       | 79.66       |             |
| 2.67                  | 30                    | 3.008             | 80           | 8.020             | 15.23                   | 16.34       | 19.52       | 20.95       | 22.38       | 22.70       | 25.86       | 26.66       | 30.61       | 34.55       | 38.50       | 42.44       | 46.39       | 51.28       | 55.85       | 62.15       | 77.91       |             |
| 2.67                  | 72                    | 7.218             | 192          | 19.249            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 17.56       | 21.70       | 25.77       | 29.80       | 33.81       | 38.76       | 43.37       | 49.73       | 65.56       |             |
| 2.77                  | 26                    | 2.607             | 72           | 7.218             | 16.21                   | 17.32       | 20.50       | 21.93       | 23.35       | 23.67       | 26.83       | 27.62       | 31.57       | 35.51       | 39.46       | 43.40       | 47.35       | 52.23       | 56.80       | 63.11       | 78.86       |             |
| 2.80                  | 40                    | 4.010             | 112          | 11.229            | 11.56                   | 12.71       | 15.97       | 17.42       | 18.86       | 19.19       | 22.38       | 23.18       | 27.16       | 31.13       | 35.09       | 39.04       | 43.00       | 47.90       | 52.47       | 58.79       | 74.56       |             |
| 2.81                  | 32                    | 3.208             | 90           | 9.023             | 14.19                   | 15.31       | 18.51       | 19.95       | 21.38       | 21.69       | 24.87       | 25.66       | 29.62       | 33.57       | 37.53       | 41.47       | 45.42       | 50.31       | 54.88       | 61.19       | 76.95       |             |
| 2.86                  | 28                    | 2.807             | 80           | 8.020             | 15.37                   | 16.49       | 19.67       | 21.10       | 22.53       | 22.84       | 26.01       | 26.80       | 30.76       | 34.70       | 38.65       | 42.60       | 46.54       | 51.43       | 56.00       | 62.31       | 78.07       |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>1.00</b>             | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged.  
Large Sprocket should be ordered with flanges as a special.

\* This length correction factor must be used to determine the proper belt width.

|                                  |                               |                                       |  |
|----------------------------------|-------------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SPECIFICATIONS<br>PAGE PT11-4 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|-------------------------------|---------------------------------------|--|





# SELECTION

## 8MM Pitch HT200 Belt Drive Selection Table

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 720-8M                  | 800-8M      | 840-8M      | 880-8M      | 920-8M      | 960-8M      | 1040-8M     | 1064-8M     | 1120-8M     | 1160-8M     | 1200-8M     |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.90</b>             | <b>0.90</b> | <b>0.90</b> | <b>0.90</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> |
| 2.91                  | 22                    | 2.206             | 64           | 6.416             | 7.09                    | 8.72        | 9.53        | 10.34       | 11.14       | 11.94       | 13.53       | 14.01       | 15.13       | 15.92       | 16.72       |
| 2.95                  | 38                    | 3.810             | 112          | 11.229            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | 8.29        | 9.50        | 10.35       | 11.19       |
| 3.00                  | 24                    | 2.406             | 72           | 7.218             | 6.14                    | 7.82        | 8.64        | 9.46        | 10.27       | 11.08       | 12.68       | 13.17       | 14.28       | 15.08       | 15.88       |
| 3.00                  | 30                    | 3.008             | 90           | 9.023             | ...                     | ...         | 6.36        | 7.24        | 8.10        | 8.94        | 10.59       | 11.09       | 12.22       | 13.04       | 13.84       |
| 3.00                  | 48                    | 4.812             | 144          | 14.437            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 3.00                  | 64                    | 6.416             | 192          | 19.249            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 3.08                  | 26                    | 2.607             | 80           | 8.020             | ...                     | 6.86        | 7.71        | 8.55        | 9.37        | 10.19       | 11.81       | 12.30       | 13.42       | 14.23       | 15.03       |
| 3.11                  | 36                    | 3.609             | 112          | 11.229            | ...                     | ...         | ...         | ...         | ...         | ...         | 7.88        | 8.41        | 9.63        | 10.48       | 11.32       |
| 3.21                  | 28                    | 2.807             | 90           | 9.023             | ...                     | ...         | 6.48        | 7.37        | 8.22        | 9.07        | 10.73       | 11.22       | 12.36       | 13.18       | 13.98       |
| 3.27                  | 22                    | 2.206             | 72           | 7.218             | 6.27                    | 7.95        | 8.77        | 9.59        | 10.41       | 11.22       | 12.82       | 13.31       | 14.43       | 15.23       | 16.02       |
| 3.27                  | 44                    | 4.411             | 144          | 14.437            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 3.29                  | 34                    | 3.409             | 112          | 11.229            | ...                     | ...         | ...         | ...         | ...         | ...         | 8.00        | 8.54        | 9.75        | 10.61       | 11.45       |
| 3.33                  | 24                    | 2.406             | 80           | 8.020             | ...                     | 6.99        | 7.84        | 8.68        | 9.50        | 10.33       | 11.95       | 12.44       | 13.56       | 14.37       | 15.17       |
| 3.43                  | 56                    | 5.614             | 192          | 19.249            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 3.46                  | 26                    | 2.607             | 90           | 9.023             | ...                     | ...         | 6.61        | 7.49        | 8.35        | 9.20        | 10.86       | 11.35       | 12.50       | 13.31       | 14.12       |
| 3.50                  | 32                    | 3.208             | 112          | 11.229            | ...                     | ...         | ...         | ...         | ...         | ...         | 8.12        | 8.66        | 9.88        | 10.74       | 11.58       |
| 3.60                  | 40                    | 4.010             | 144          | 14.437            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 3.64                  | 22                    | 2.206             | 80           | 8.020             | ...                     | 7.12        | 7.97        | 8.81        | 9.64        | 10.46       | 12.09       | 12.58       | 13.70       | 14.51       | 15.31       |
| 3.73                  | 30                    | 3.008             | 112          | 11.229            | ...                     | ...         | ...         | ...         | ...         | ...         | 8.24        | 8.78        | 10.01       | 10.87       | 11.71       |
| 3.75                  | 24                    | 2.406             | 90           | 9.023             | ...                     | ...         | 6.73        | 7.62        | 8.48        | 9.33        | 10.99       | 11.49       | 12.63       | 13.45       | 14.26       |
| 3.79                  | 38                    | 3.810             | 144          | 14.437            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 4.00                  | 28                    | 2.807             | 112          | 11.229            | ...                     | ...         | ...         | ...         | ...         | ...         | 8.36        | 8.91        | 10.13       | 10.99       | 11.84       |
| 4.00                  | 36                    | 3.609             | 144          | 14.437            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 4.00                  | 48                    | 4.812             | 192          | 19.249            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 4.09                  | 22                    | 2.206             | 90           | 9.023             | ...                     | 5.92        | 6.85        | 7.74        | 8.61        | 9.46        | 11.12       | 11.62       | 12.77       | 13.59       | 14.40       |
| 4.24                  | 34                    | 3.409             | 144          | 14.437            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 4.31                  | 26                    | 2.607             | 112          | 11.229            | ...                     | ...         | ...         | ...         | ...         | ...         | 8.48        | 9.03        | 10.26       | 11.12       | 11.97       |
| 4.36                  | 44                    | 4.411             | 192          | 19.249            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 4.50                  | 32                    | 3.208             | 144          | 14.437            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 4.67                  | 24                    | 2.406             | 112          | 11.229            | ...                     | ...         | ...         | ...         | ...         | ...         | 8.60        | 9.15        | 10.38       | 11.25       | 12.10       |
| 4.80                  | 30                    | 3.008             | 144          | 14.437            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 4.80                  | 40                    | 4.010             | 192          | 19.249            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 5.05                  | 38                    | 3.810             | 192          | 19.249            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 5.09                  | 22                    | 2.206             | 112          | 11.229            | ...                     | ...         | ...         | ...         | ...         | ...         | 8.72        | 9.27        | 10.51       | 11.38       | 12.23       |
| 5.14                  | 28                    | 2.807             | 144          | 14.437            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 5.33                  | 36                    | 3.609             | 192          | 19.249            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 5.54                  | 26                    | 2.607             | 144          | 14.437            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 5.65                  | 34                    | 3.409             | 192          | 19.249            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 6.00                  | 24                    | 2.406             | 144          | 14.437            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 6.00                  | 32                    | 3.208             | 192          | 19.249            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 6.40                  | 30                    | 3.008             | 192          | 19.249            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 6.55                  | 22                    | 2.206             | 144          | 14.437            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 6.86                  | 28                    | 2.807             | 192          | 19.249            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.90</b>             | <b>0.90</b> | <b>0.90</b> | <b>0.90</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

\* This length correction factor must be used to determine the proper belt width.

|                                  |                               |                                       |  |
|----------------------------------|-------------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SPECIFICATIONS<br>PAGE PT11-4 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|-------------------------------|---------------------------------------|--|

# SELECTION



## 8MM Pitch HT200 Belt Drive Selection Table

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 1224-8M                 | 1280-8M     | 1440-8M     | 1512-8M     | 1584-8M     | 1600-8M     | 1760-8M     | 1800-8M     | 2000-8M     | 2200-8M     | 2400-8M     | 2600-8M     | 2800-8M     | 3048-8M     | 3280-8M     | 3600-8M     | 4400-8M     |             |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>1.00</b>             | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> |
| 2.91                  | 22                    | 2.206             | 64           | 6.416             | 17.19                   | 18.30       | 21.47       | 22.90       | 24.32       | 24.63       | 27.79       | 28.59       | 32.53       | 36.47       | 40.42       | 44.36       | 48.30       | 53.19       | 57.75       | 64.06       | 79.82       |             |
| 2.95                  | 38                    | 3.810             | 112          | 11.229            | 11.69                   | 12.84       | 16.10       | 17.56       | 19.01       | 19.33       | 22.53       | 23.33       | 27.31       | 31.27       | 35.24       | 39.19       | 43.15       | 48.05       | 52.62       | 58.94       | 74.71       |             |
| 3.00                  | 24                    | 2.406             | 72           | 7.218             | 16.36                   | 17.47       | 20.65       | 22.08       | 23.50       | 23.81       | 26.98       | 27.77       | 31.72       | 35.67       | 39.61       | 43.55       | 47.50       | 52.39       | 56.96       | 63.26       | 79.02       |             |
| 3.00                  | 30                    | 3.008             | 90           | 9.023             | 14.33                   | 15.45       | 18.65       | 20.09       | 21.52       | 21.84       | 25.01       | 25.81       | 29.77       | 33.72       | 37.68       | 41.62       | 45.57       | 50.46       | 55.03       | 61.34       | 77.11       |             |
| 3.00                  | 48                    | 4.812             | 144          | 14.437            | ...                     | ...         | 12.27       | 13.80       | 15.30       | 15.63       | 18.91       | 19.73       | 23.76       | 27.77       | 31.76       | 35.74       | 39.71       | 44.62       | 49.21       | 55.54       | 71.33       |             |
| 3.00                  | 64                    | 6.416             | 192          | 19.249            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 18.08       | 22.23       | 26.31       | 30.36       | 34.37       | 39.33       | 43.95       | 50.31       | 66.16       |             |
| 3.08                  | 26                    | 2.607             | 80           | 8.020             | 15.51                   | 16.63       | 19.81       | 21.25       | 22.67       | 22.99       | 26.16       | 26.95       | 30.90       | 34.85       | 38.80       | 42.75       | 46.70       | 51.58       | 56.15       | 62.46       | 78.22       |             |
| 3.11                  | 36                    | 3.609             | 112          | 11.229            | 11.82                   | 12.98       | 16.24       | 17.70       | 19.15       | 19.47       | 22.67       | 23.47       | 27.45       | 31.42       | 35.39       | 39.34       | 43.30       | 48.20       | 52.77       | 59.09       | 74.86       |             |
| 3.21                  | 28                    | 2.807             | 90           | 9.023             | 14.47                   | 15.59       | 18.80       | 20.23       | 21.67       | 21.98       | 25.16       | 25.96       | 29.92       | 33.87       | 37.83       | 41.77       | 45.72       | 50.61       | 55.19       | 61.50       | 77.26       |             |
| 3.27                  | 22                    | 2.206             | 72           | 7.218             | 16.50                   | 17.61       | 20.79       | 22.22       | 23.65       | 23.96       | 27.13       | 27.92       | 31.87       | 35.82       | 39.76       | 43.71       | 47.65       | 52.54       | 57.11       | 63.41       | 79.17       |             |
| 3.27                  | 44                    | 4.411             | 144          | 14.437            | ...                     | ...         | 12.52       | 14.06       | 15.56       | 15.89       | 19.18       | 20.00       | 24.04       | 28.05       | 32.05       | 36.03       | 40.00       | 44.92       | 49.51       | 55.84       | 71.64       |             |
| 3.29                  | 34                    | 3.409             | 112          | 11.229            | 11.95                   | 13.11       | 16.38       | 17.84       | 19.29       | 19.61       | 22.81       | 23.61       | 27.60       | 31.57       | 35.53       | 39.49       | 43.45       | 48.35       | 52.92       | 59.24       | 75.02       |             |
| 3.33                  | 24                    | 2.406             | 80           | 8.020             | 15.65                   | 16.77       | 19.96       | 21.39       | 22.82       | 23.14       | 26.31       | 27.10       | 31.05       | 35.00       | 38.96       | 42.90       | 46.85       | 51.74       | 56.31       | 62.61       | 78.38       |             |
| 3.43                  | 56                    | 5.614             | 192          | 19.249            | ...                     | ...         | ...         | ...         | ...         | ...         | 13.39       | 14.29       | 18.60       | 22.77       | 26.86       | 30.91       | 34.94       | 39.90       | 44.53       | 50.89       | 66.75       |             |
| 3.46                  | 26                    | 2.607             | 90           | 9.023             | 14.61                   | 15.73       | 18.94       | 20.38       | 21.81       | 22.13       | 25.31       | 26.10       | 30.06       | 34.02       | 37.98       | 41.92       | 45.87       | 50.76       | 55.34       | 61.65       | 77.41       |             |
| 3.50                  | 32                    | 3.208             | 112          | 11.229            | 12.08                   | 13.24       | 16.52       | 17.98       | 19.43       | 19.75       | 22.95       | 23.76       | 27.74       | 31.71       | 35.68       | 39.64       | 43.60       | 48.50       | 53.07       | 59.39       | 75.17       |             |
| 3.60                  | 40                    | 4.010             | 144          | 14.437            | ...                     | ...         | 12.78       | 14.32       | 15.82       | 16.16       | 19.45       | 20.27       | 24.32       | 28.34       | 32.34       | 36.32       | 40.29       | 45.21       | 49.80       | 56.13       | 71.94       |             |
| 3.64                  | 22                    | 2.206             | 80           | 8.020             | 15.80                   | 16.91       | 20.10       | 21.54       | 22.96       | 23.28       | 26.45       | 27.25       | 31.20       | 35.15       | 39.11       | 43.05       | 47.00       | 51.89       | 56.46       | 62.77       | 78.53       |             |
| 3.73                  | 30                    | 3.008             | 112          | 11.229            | 12.21                   | 13.38       | 16.65       | 18.11       | 19.56       | 19.89       | 23.10       | 23.90       | 27.88       | 31.86       | 35.83       | 39.79       | 43.75       | 48.64       | 53.22       | 59.54       | 75.32       |             |
| 3.75                  | 24                    | 2.406             | 90           | 9.023             | 14.75                   | 15.87       | 19.08       | 20.52       | 21.95       | 22.27       | 25.45       | 26.25       | 30.21       | 34.17       | 38.13       | 42.07       | 46.02       | 50.92       | 55.49       | 61.80       | 77.57       |             |
| 3.79                  | 38                    | 3.810             | 144          | 14.437            | ...                     | ...         | 12.90       | 14.45       | 15.96       | 16.29       | 19.59       | 20.41       | 24.46       | 28.48       | 32.48       | 36.46       | 40.44       | 45.36       | 49.95       | 56.28       | 72.09       |             |
| 4.00                  | 28                    | 2.807             | 112          | 11.229            | 12.35                   | 13.51       | 16.79       | 18.25       | 19.70       | 20.03       | 23.24       | 24.04       | 28.03       | 32.00       | 35.97       | 39.93       | 43.89       | 48.79       | 53.37       | 59.69       | 75.47       |             |
| 4.00                  | 36                    | 3.609             | 144          | 14.437            | ...                     | 9.42        | 13.03       | 14.57       | 16.09       | 16.42       | 19.72       | 20.54       | 24.60       | 28.62       | 32.62       | 36.61       | 40.59       | 45.50       | 50.10       | 56.43       | 72.24       |             |
| 4.00                  | 48                    | 4.812             | 192          | 19.249            | ...                     | ...         | ...         | ...         | ...         | ...         | 13.88       | 14.78       | 19.12       | 23.30       | 27.41       | 31.47       | 35.50       | 40.47       | 45.10       | 51.47       | 67.34       |             |
| 4.09                  | 22                    | 2.206             | 90           | 9.023             | 14.88                   | 16.01       | 19.22       | 20.66       | 22.10       | 22.42       | 25.60       | 26.40       | 30.36       | 34.32       | 38.27       | 42.22       | 46.17       | 51.07       | 55.64       | 61.95       | 77.72       |             |
| 4.24                  | 34                    | 3.409             | 144          | 14.437            | ...                     | 9.53        | 13.16       | 14.70       | 16.22       | 16.55       | 19.86       | 20.68       | 24.74       | 28.76       | 32.76       | 36.75       | 40.73       | 45.65       | 50.25       | 56.58       | 72.39       |             |
| 4.31                  | 26                    | 2.607             | 112          | 11.229            | 12.48                   | 13.64       | 16.93       | 18.39       | 19.84       | 20.17       | 23.38       | 24.18       | 28.17       | 32.15       | 36.12       | 40.08       | 44.04       | 48.94       | 53.52       | 59.84       | 75.63       |             |
| 4.36                  | 44                    | 4.411             | 192          | 19.249            | ...                     | ...         | ...         | ...         | ...         | ...         | 4.12        | 15.03       | 19.38       | 25.57       | 27.68       | 31.74       | 35.78       | 40.75       | 45.39       | 51.76       | 67.63       |             |
| 4.50                  | 32                    | 3.208             | 144          | 14.437            | ...                     | 9.65        | 13.28       | 14.83       | 16.35       | 16.68       | 19.99       | 20.81       | 24.88       | 28.90       | 32.91       | 36.89       | 40.88       | 45.80       | 50.39       | 56.73       | 72.54       |             |
| 4.67                  | 24                    | 2.406             | 112          | 11.229            | 12.61                   | 13.77       | 17.06       | 18.53       | 19.98       | 20.30       | 23.52       | 24.32       | 28.32       | 32.29       | 36.27       | 40.23       | 44.19       | 49.09       | 53.67       | 59.99       | 75.78       |             |
| 4.80                  | 30                    | 3.008             | 144          | 14.437            | ...                     | 9.77        | 13.41       | 14.96       | 16.48       | 16.81       | 20.13       | 20.95       | 25.01       | 29.04       | 33.05       | 37.04       | 41.02       | 45.94       | 50.54       | 56.88       | 72.69       |             |
| 4.80                  | 40                    | 4.010             | 192          | 19.249            | ...                     | ...         | ...         | ...         | ...         | ...         | 14.37       | 15.27       | 19.63       | 23.83       | 27.95       | 32.02       | 36.05       | 41.03       | 45.67       | 52.05       | 67.93       |             |
| 5.05                  | 38                    | 3.810             | 192          | 19.249            | ...                     | ...         | ...         | ...         | ...         | ...         | 14.49       | 15.40       | 19.76       | 23.96       | 28.08       | 32.15       | 36.19       | 41.18       | 45.82       | 52.19       | 68.08       |             |
| 5.09                  | 22                    | 2.206             | 112          | 11.229            | 12.74                   | 13.90       | 17.20       | 18.67       | 20.12       | 20.44       | 23.66       | 24.47       | 28.46       | 32.44       | 36.41       | 40.38       | 44.34       | 49.24       | 53.82       | 60.14       | 75.93       |             |
| 5.14                  | 28                    | 2.807             | 144          | 14.437            | ...                     | 9.89        | 13.53       | 15.09       | 16.61       | 16.94       | 20.26       | 21.08       | 25.15       | 29.18       | 33.19       | 37.18       | 41.17       | 46.09       | 50.69       | 57.02       | 72.84       |             |
| 5.33                  | 36                    | 3.609             | 192          | 19.249            | ...                     | ...         | ...         | ...         | ...         | ...         | 14.61       | 15.52       | 19.89       | 24.09       | 28.22       | 32.29       | 36.33       | 41.32       | 45.96       | 52.34       | 68.22       |             |
| 5.54                  | 26                    | 2.607             | 144          | 14.437            | ...                     | 10.00       | 13.66       | 15.21       | 16.74       | 17.07       | 20.39       | 21.22       | 25.29       | 29.32       | 33.33       | 37.32       | 41.31       | 46.23       | 50.83       | 57.17       | 72.99       |             |
| 5.65                  | 34                    | 3.409             | 192          | 19.249            | ...                     | ...         | ...         | ...         | ...         | ...         | 14.73       | 15.64       | 20.02       | 24.23       | 28.35       | 32.43       | 36.47       | 41.46       | 46.10       | 52.48       | 68.37       |             |
| 6.00                  | 24                    | 2.406             | 144          | 14.437            | ...                     | 10.12       | 13.78       | 15.34       | 16.87       | 17.20       | 20.53       | 21.35       | 25.43       | 29.46       | 33.47       | 37.47       | 41.45       | 46.38       | 50.98       | 57.32       | 73.14       |             |
| 6.00                  | 32                    | 3.208             | 192          | 19.249            | ...                     | ...         | ...         | ...         | ...         | ...         | 14.85       | 15.76       | 20.14       | 24.36       | 28.49       | 32.56       | 36.61       | 41.60       | 46.24       | 52.63       | 68.52       |             |
| 6.40                  | 30                    | 3.008             | 192          | 19.249            | ...                     | ...         | ...         | ...         | ...         | ...         | 14.97       | 15.89       | 20.27       | 24.49       | 28.62       | 32.70       | 36.75       | 41.74       | 46.38       | 52.77       | 68.66       |             |
| 6.55                  | 22                    | 2.206             | 144          | 14.437            | 8.80                    | 10.24       | 13.91       | 15.47       | 17.00       | 17.33       | 20.66       | 21.49       | 25.56       | 29.60       | 33.62       | 37.61       | 41.60       | 46.53       | 51.13       | 57.47       | 73.29       |             |
| 6.86                  | 28                    | 2.807             | 192          | 19.249            | ...                     | ...         | ...         | ...         | ...         | ...         | 15.09       | 16.01       | 20.40       | 24.62       | 28.75       | 32.84       | 36.89       | 41.88       | 46.53       | 52.91       | 68.81       |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>1.00</b>             | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> | <b>1.20</b> |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged.  
Large Sprocket should be ordered with flanges as a special.

\* This length correction factor must be used to determine the proper belt width.

|                                  |                               |                                       |  |
|----------------------------------|-------------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SPECIFICATIONS<br>PAGE PT11-4 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|-------------------------------|---------------------------------------|--|



# SELECTION

## 14MM Pitch HT200 Belt Drive Selection Table

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 966-14M                 | 1190-14M    | 1400-14M    | 1610-14M    | 1778-14M    | 1890-14M    | 2100-14M    | 2310-14M    | 2450-14M    | 2590-14M    | 2800-14M    |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.80</b>             | <b>0.80</b> | <b>0.90</b> | <b>0.90</b> | <b>0.95</b> | <b>0.95</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.05</b> | <b>1.05</b> |
| 1.00                  | 28                    | 4.912             | 28           | 4.912             | 11.30                   | 15.71       | 19.84       | 23.98       | 27.28       | 29.49       | 33.62       | 37.75       | 40.51       | 43.27       | 47.40       |
| 1.00                  | 29                    | 5.088             | 29           | 5.088             | 11.02                   | 15.43       | 19.57       | 23.70       | 27.01       | 29.21       | 33.35       | 37.48       | 40.24       | 42.99       | 47.13       |
| 1.00                  | 30                    | 5.263             | 30           | 5.263             | 10.75                   | 15.16       | 19.29       | 23.43       | 26.73       | 28.94       | 33.07       | 37.20       | 39.96       | 42.72       | 46.85       |
| 1.00                  | 32                    | 5.614             | 32           | 5.614             | 10.20                   | 14.61       | 18.74       | 22.88       | 26.18       | 28.39       | 32.52       | 36.65       | 39.41       | 42.17       | 46.30       |
| 1.00                  | 34                    | 5.965             | 34           | 5.965             | 9.65                    | 14.06       | 18.19       | 22.33       | 25.63       | 27.84       | 31.97       | 36.10       | 38.86       | 41.62       | 45.75       |
| 1.00                  | 36                    | 6.316             | 36           | 6.316             | 9.09                    | 13.50       | 17.64       | 21.77       | 25.08       | 27.28       | 31.42       | 35.55       | 38.31       | 41.06       | 45.20       |
| 1.00                  | 38                    | 6.667             | 38           | 6.667             | 8.54                    | 12.95       | 17.09       | 21.22       | 24.53       | 26.73       | 30.87       | 35.00       | 37.76       | 40.51       | 44.65       |
| 1.00                  | 40                    | 7.018             | 40           | 7.018             | 7.99                    | 12.40       | 16.54       | 20.67       | 23.98       | 26.18       | 30.32       | 34.45       | 37.21       | 39.96       | 44.10       |
| 1.00                  | 44                    | 7.720             | 44           | 7.720             | ...                     | 11.30       | 15.43       | 19.57       | 22.87       | 25.08       | 29.21       | 33.34       | 36.10       | 38.86       | 42.99       |
| 1.00                  | 48                    | 8.421             | 48           | 8.421             | ...                     | 10.20       | 14.33       | 18.47       | 21.77       | 23.98       | 28.11       | 32.24       | 35.00       | 37.76       | 41.89       |
| 1.00                  | 52                    | 9.123             | 52           | 9.123             | ...                     | ...         | 13.23       | 17.36       | 20.67       | 22.87       | 27.01       | 31.14       | 33.90       | 36.65       | 40.79       |
| 1.00                  | 56                    | 9.825             | 56           | 9.825             | ...                     | ...         | 12.13       | 16.26       | 19.57       | 21.77       | 25.91       | 30.04       | 32.80       | 35.55       | 39.69       |
| 1.00                  | 60                    | 10.527            | 60           | 10.527            | ...                     | ...         | ...         | 15.16       | 18.46       | 20.67       | 24.80       | 28.93       | 31.69       | 34.45       | 38.58       |
| 1.00                  | 64                    | 11.229            | 64           | 11.229            | ...                     | ...         | ...         | 14.06       | 17.36       | 19.57       | 23.70       | 27.83       | 30.59       | 33.35       | 37.48       |
| 1.00                  | 68                    | 11.930            | 68           | 11.930            | ...                     | ...         | ...         | 12.96       | 16.26       | 18.47       | 22.60       | 26.73       | 29.49       | 32.25       | 36.38       |
| 1.00                  | 72                    | 12.632            | 72           | 12.632            | ...                     | ...         | ...         | ...         | 15.16       | 17.36       | 21.50       | 25.63       | 28.39       | 31.14       | 35.28       |
| 1.00                  | 80                    | 14.036            | 80           | 14.036            | ...                     | ...         | ...         | ...         | ...         | 15.16       | 19.29       | 23.42       | 26.18       | 28.94       | 33.07       |
| 1.03                  | 29                    | 5.088             | 30           | 5.263             | 10.88                   | 15.30       | 19.43       | 23.57       | 26.87       | 29.08       | 33.21       | 37.34       | 40.10       | 42.86       | 46.99       |
| 1.04                  | 28                    | 4.912             | 29           | 5.088             | 11.16                   | 15.57       | 19.71       | 23.84       | 27.15       | 29.35       | 33.49       | 37.62       | 40.38       | 43.13       | 47.27       |
| 1.05                  | 38                    | 6.667             | 40           | 7.018             | 8.26                    | 12.68       | 16.81       | 20.95       | 24.25       | 26.46       | 30.59       | 34.72       | 37.48       | 40.24       | 44.37       |
| 1.06                  | 36                    | 6.316             | 38           | 6.667             | 8.82                    | 13.23       | 17.36       | 21.50       | 24.80       | 27.01       | 31.14       | 35.27       | 38.03       | 40.79       | 44.92       |
| 1.06                  | 34                    | 5.965             | 36           | 6.316             | 9.37                    | 13.78       | 17.91       | 22.05       | 25.35       | 27.56       | 31.69       | 35.82       | 38.58       | 41.34       | 45.47       |
| 1.06                  | 68                    | 11.930            | 72           | 12.632            | ...                     | ...         | ...         | ...         | 15.71       | 17.91       | 22.05       | 26.18       | 28.94       | 31.69       | 35.83       |
| 1.06                  | 32                    | 5.614             | 34           | 5.965             | 9.92                    | 14.33       | 18.47       | 22.60       | 25.91       | 28.11       | 32.25       | 36.38       | 39.14       | 41.89       | 46.03       |
| 1.06                  | 64                    | 11.229            | 68           | 11.930            | ...                     | ...         | ...         | 13.50       | 16.81       | 19.01       | 23.15       | 27.28       | 30.04       | 32.79       | 36.93       |
| 1.07                  | 30                    | 5.263             | 32           | 5.614             | 10.47                   | 14.88       | 19.02       | 23.15       | 26.46       | 28.66       | 32.80       | 36.93       | 39.69       | 42.44       | 46.58       |
| 1.07                  | 60                    | 10.527            | 64           | 11.229            | ...                     | ...         | ...         | 14.60       | 17.91       | 20.11       | 24.25       | 28.38       | 31.14       | 33.90       | 38.03       |
| 1.07                  | 28                    | 4.912             | 30           | 5.263             | 11.02                   | 15.43       | 19.57       | 23.70       | 27.01       | 29.21       | 33.35       | 37.48       | 40.24       | 42.99       | 47.13       |
| 1.07                  | 56                    | 9.825             | 60           | 10.527            | ...                     | ...         | 11.57       | 15.71       | 19.01       | 21.22       | 25.35       | 29.48       | 32.24       | 35.00       | 39.13       |
| 1.08                  | 52                    | 9.123             | 56           | 9.825             | ...                     | ...         | 12.67       | 16.81       | 20.12       | 22.32       | 26.46       | 30.59       | 33.35       | 36.10       | 40.24       |
| 1.08                  | 48                    | 8.421             | 52           | 9.123             | ...                     | 9.64        | 13.78       | 17.91       | 21.22       | 23.42       | 27.56       | 31.69       | 34.45       | 37.20       | 41.34       |
| 1.09                  | 44                    | 7.720             | 48           | 8.421             | ...                     | 10.74       | 14.88       | 19.01       | 22.32       | 24.53       | 28.66       | 32.79       | 35.55       | 38.31       | 42.44       |
| 1.10                  | 40                    | 7.018             | 44           | 7.720             | ...                     | 11.84       | 15.98       | 20.12       | 23.42       | 25.63       | 29.76       | 33.89       | 36.65       | 39.41       | 43.54       |
| 1.10                  | 29                    | 5.088             | 32           | 5.614             | 10.61                   | 15.02       | 19.15       | 23.29       | 26.59       | 28.80       | 32.93       | 37.06       | 39.82       | 42.58       | 46.71       |
| 1.11                  | 36                    | 6.316             | 40           | 7.018             | 8.54                    | 12.95       | 17.08       | 21.22       | 24.52       | 26.73       | 30.87       | 35.00       | 37.76       | 40.51       | 44.65       |
| 1.11                  | 72                    | 12.632            | 80           | 14.036            | ...                     | ...         | ...         | ...         | 14.04       | 16.24       | 20.38       | 24.51       | 27.28       | 30.03       | 34.17       |
| 1.12                  | 34                    | 5.965             | 38           | 6.667             | 9.09                    | 13.50       | 17.64       | 21.77       | 25.08       | 27.28       | 31.42       | 35.55       | 38.31       | 41.06       | 45.20       |
| 1.13                  | 32                    | 5.614             | 36           | 6.316             | 9.64                    | 14.05       | 18.19       | 22.32       | 25.63       | 27.83       | 31.97       | 36.10       | 38.86       | 41.61       | 45.75       |
| 1.13                  | 64                    | 11.229            | 72           | 12.632            | ...                     | ...         | ...         | 12.94       | 16.24       | 18.45       | 22.59       | 26.72       | 29.48       | 32.24       | 36.37       |
| 1.13                  | 80                    | 14.036            | 90           | 15.790            | ...                     | ...         | ...         | ...         | ...         | ...         | 17.89       | 22.03       | 24.79       | 27.55       | 31.68       |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.80</b>             | <b>0.80</b> | <b>0.90</b> | <b>0.90</b> | <b>0.95</b> | <b>0.95</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.05</b> | <b>1.05</b> |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged.  
Large Sprocket should be ordered with flanges as a special.

\* This length correction factor must be used to determine the proper belt width.



## 14MM Pitch HT200 Belt Drive Selection Table

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 3150-14M                | 3360-14M    | 3500-14M    | 3850-14M    | 4326-14M    | 4578-14M    | 4956-14M    | 5320-14M    | 5740-14M    | 6160-14M    | 6860-14M    |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>1.05</b>             | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> |
| 1.00                  | 28                    | 4.912             | 28           | 4.912             | 54.29                   | 58.42       | 61.18       | 68.07       | 77.44       | 82.40       | 89.84       | 97.01       | 105.27      | 113.54      | 127.32      |
| 1.00                  | 29                    | 5.088             | 29           | 5.088             | 54.02                   | 58.15       | 60.91       | 67.79       | 77.16       | 82.13       | 89.57       | 96.73       | 105.00      | 113.27      | 127.05      |
| 1.00                  | 30                    | 5.263             | 30           | 5.263             | 53.74                   | 57.87       | 60.63       | 67.52       | 76.89       | 81.85       | 89.29       | 96.46       | 104.72      | 112.99      | 126.77      |
| 1.00                  | 32                    | 5.614             | 32           | 5.614             | 53.19                   | 57.32       | 60.08       | 66.97       | 76.34       | 81.30       | 88.74       | 95.91       | 104.17      | 112.44      | 126.22      |
| 1.00                  | 34                    | 5.965             | 34           | 5.965             | 52.64                   | 56.77       | 59.53       | 66.42       | 75.79       | 80.75       | 88.19       | 95.36       | 103.62      | 111.89      | 125.67      |
| 1.00                  | 36                    | 6.316             | 36           | 6.316             | 52.09                   | 56.22       | 58.98       | 65.86       | 75.23       | 80.20       | 87.64       | 94.80       | 103.07      | 111.34      | 125.12      |
| 1.00                  | 38                    | 6.667             | 38           | 6.667             | 51.54                   | 55.67       | 58.43       | 65.31       | 74.68       | 79.65       | 87.09       | 94.25       | 102.52      | 110.79      | 124.57      |
| 1.00                  | 40                    | 7.018             | 40           | 7.018             | 50.99                   | 55.12       | 57.88       | 64.76       | 74.13       | 79.10       | 86.54       | 93.70       | 101.97      | 110.24      | 124.02      |
| 1.00                  | 44                    | 7.720             | 44           | 7.720             | 49.88                   | 54.01       | 56.77       | 63.66       | 73.03       | 77.99       | 85.43       | 92.60       | 100.86      | 109.13      | 122.91      |
| 1.00                  | 48                    | 8.421             | 48           | 8.421             | 48.78                   | 52.91       | 55.67       | 62.56       | 71.93       | 76.89       | 84.33       | 91.50       | 99.76       | 108.03      | 121.81      |
| 1.00                  | 52                    | 9.123             | 52           | 9.123             | 47.68                   | 51.81       | 54.57       | 61.45       | 70.82       | 75.79       | 83.23       | 90.39       | 98.66       | 106.93      | 120.71      |
| 1.00                  | 56                    | 9.825             | 56           | 9.825             | 46.58                   | 50.71       | 53.47       | 60.35       | 69.72       | 74.69       | 82.13       | 89.29       | 97.56       | 105.83      | 119.61      |
| 1.00                  | 60                    | 10.527            | 60           | 10.527            | 45.47                   | 49.60       | 52.36       | 59.25       | 68.62       | 73.58       | 81.02       | 88.19       | 96.45       | 104.72      | 118.50      |
| 1.00                  | 64                    | 11.229            | 64           | 11.229            | 44.37                   | 48.50       | 51.26       | 58.15       | 67.52       | 72.48       | 79.92       | 87.09       | 95.35       | 103.62      | 117.40      |
| 1.00                  | 68                    | 11.930            | 68           | 11.930            | 43.27                   | 47.40       | 50.16       | 57.05       | 66.42       | 71.38       | 78.82       | 85.99       | 94.25       | 102.52      | 116.30      |
| 1.00                  | 72                    | 12.632            | 72           | 12.632            | 42.17                   | 46.30       | 49.06       | 55.94       | 65.31       | 70.28       | 77.72       | 84.88       | 93.15       | 101.42      | 115.20      |
| 1.00                  | 80                    | 14.036            | 80           | 14.036            | 39.96                   | 44.09       | 46.85       | 53.74       | 63.11       | 68.07       | 75.51       | 82.68       | 90.94       | 99.21       | 112.99      |
| 1.03                  | 29                    | 5.088             | 30           | 5.263             | 53.88                   | 58.01       | 60.77       | 67.66       | 77.03       | 81.99       | 89.43       | 96.60       | 104.86      | 113.13      | 126.91      |
| 1.04                  | 28                    | 4.912             | 29           | 5.088             | 54.16                   | 58.29       | 61.05       | 67.93       | 77.30       | 82.27       | 89.71       | 96.87       | 105.14      | 113.41      | 127.19      |
| 1.05                  | 38                    | 6.667             | 40           | 7.018             | 51.26                   | 55.39       | 58.15       | 65.04       | 74.41       | 79.37       | 86.81       | 93.98       | 102.24      | 110.51      | 124.29      |
| 1.06                  | 36                    | 6.316             | 38           | 6.667             | 51.81                   | 55.94       | 58.70       | 65.59       | 74.96       | 79.92       | 87.36       | 94.53       | 102.79      | 111.06      | 124.84      |
| 1.06                  | 34                    | 5.965             | 36           | 6.316             | 52.36                   | 56.49       | 59.25       | 66.14       | 75.51       | 80.47       | 87.91       | 95.08       | 103.34      | 111.61      | 125.39      |
| 1.06                  | 68                    | 11.930            | 72           | 12.632            | 42.72                   | 46.85       | 49.61       | 56.49       | 65.86       | 70.83       | 78.27       | 85.43       | 93.70       | 101.97      | 115.75      |
| 1.06                  | 32                    | 5.614             | 34           | 5.965             | 52.92                   | 57.05       | 59.81       | 66.69       | 76.06       | 81.03       | 88.47       | 95.63       | 103.90      | 112.17      | 125.95      |
| 1.06                  | 64                    | 11.229            | 68           | 11.930            | 43.82                   | 47.95       | 50.71       | 57.59       | 66.97       | 71.93       | 79.37       | 86.54       | 94.80       | 103.07      | 116.85      |
| 1.07                  | 30                    | 5.263             | 32           | 5.614             | 53.47                   | 57.60       | 60.36       | 67.24       | 76.61       | 81.58       | 89.02       | 96.18       | 104.45      | 112.72      | 126.50      |
| 1.07                  | 60                    | 10.527            | 64           | 11.229            | 44.92                   | 49.05       | 51.81       | 58.70       | 68.07       | 73.03       | 80.47       | 87.64       | 95.90       | 104.17      | 117.95      |
| 1.07                  | 28                    | 4.912             | 30           | 5.263             | 54.02                   | 58.15       | 60.91       | 67.79       | 77.16       | 82.13       | 89.57       | 96.73       | 105.00      | 113.27      | 127.05      |
| 1.07                  | 56                    | 9.825             | 60           | 10.527            | 46.02                   | 50.15       | 52.91       | 59.80       | 69.17       | 74.13       | 81.57       | 88.74       | 97.00       | 105.27      | 119.06      |
| 1.08                  | 52                    | 9.123             | 56           | 9.825             | 47.13                   | 51.26       | 54.02       | 60.90       | 70.27       | 75.24       | 82.68       | 89.84       | 98.11       | 106.38      | 120.16      |
| 1.08                  | 48                    | 8.421             | 52           | 9.123             | 48.23                   | 52.36       | 55.12       | 62.00       | 71.38       | 76.34       | 83.78       | 90.95       | 99.21       | 107.48      | 121.26      |
| 1.09                  | 44                    | 7.720             | 48           | 8.421             | 49.33                   | 53.46       | 56.22       | 63.11       | 72.48       | 77.44       | 84.88       | 92.05       | 100.31      | 108.58      | 122.36      |
| 1.10                  | 40                    | 7.018             | 44           | 7.720             | 50.43                   | 54.56       | 57.32       | 64.21       | 73.58       | 78.54       | 85.98       | 93.15       | 101.41      | 109.68      | 123.46      |
| 1.10                  | 29                    | 5.088             | 32           | 5.614             | 53.60                   | 57.73       | 60.49       | 67.38       | 76.75       | 81.71       | 89.15       | 96.32       | 104.58      | 112.85      | 126.63      |
| 1.11                  | 36                    | 6.316             | 40           | 7.018             | 51.54                   | 55.67       | 58.43       | 65.31       | 74.68       | 79.65       | 87.09       | 94.25       | 102.52      | 110.79      | 124.57      |
| 1.11                  | 72                    | 12.632            | 80           | 14.036            | 41.06                   | 45.19       | 47.95       | 54.84       | 64.21       | 69.17       | 76.61       | 83.78       | 92.04       | 100.31      | 114.09      |
| 1.12                  | 34                    | 5.965             | 38           | 6.667             | 52.09                   | 56.22       | 58.98       | 65.86       | 75.23       | 80.20       | 87.64       | 94.80       | 103.07      | 111.34      | 125.12      |
| 1.13                  | 32                    | 5.614             | 36           | 6.316             | 52.64                   | 56.77       | 59.53       | 66.41       | 75.78       | 80.75       | 88.19       | 95.35       | 103.62      | 111.89      | 125.67      |
| 1.13                  | 64                    | 11.229            | 72           | 12.632            | 43.26                   | 47.39       | 50.15       | 57.04       | 66.41       | 71.38       | 78.82       | 85.98       | 94.25       | 102.52      | 116.30      |
| 1.13                  | 80                    | 14.036            | 90           | 15.790            | 38.57                   | 42.71       | 45.47       | 52.35       | 61.72       | 66.69       | 74.13       | 81.29       | 89.56       | 97.83       | 111.61      |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>1.05</b>             | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

\* This length correction factor must be used to determine the proper belt width.



# SELECTION

## 14MM Pitch HT200 Belt Drive Selection Table

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 966-14M                 | 1190-14M    | 1400-14M    | 1610-14M    | 1778-14M    | 1890-14M    | 2100-14M    | 2310-14M    | 2450-14M    | 2590-14M    | 2800-14M    |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.80</b>             | <b>0.80</b> | <b>0.90</b> | <b>0.90</b> | <b>0.95</b> | <b>0.95</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.05</b> | <b>1.05</b> |
| 1.13                  | 30                    | 5.263             | 34           | 5.965             | 10.19                   | 14.60       | 18.74       | 22.87       | 26.18       | 28.38       | 32.52       | 36.65       | 39.41       | 42.17       | 46.30       |
| 1.13                  | 60                    | 10.527            | 68           | 11.930            | ...                     | ...         | ...         | 14.04       | 17.35       | 19.55       | 23.69       | 27.82       | 30.58       | 33.34       | 37.48       |
| 1.14                  | 28                    | 4.912             | 32           | 5.614             | 10.74                   | 15.15       | 19.29       | 23.43       | 26.73       | 28.94       | 33.07       | 37.20       | 39.96       | 42.72       | 46.85       |
| 1.14                  | 56                    | 9.825             | 64           | 11.229            | ...                     | ...         | ...         | 15.14       | 18.45       | 20.66       | 24.79       | 28.93       | 31.69       | 34.44       | 38.58       |
| 1.15                  | 52                    | 9.123             | 60           | 10.527            | ...                     | ...         | 12.11       | 16.25       | 19.55       | 21.76       | 25.90       | 30.03       | 32.79       | 35.54       | 39.68       |
| 1.16                  | 38                    | 6.667             | 44           | 7.720             | ...                     | 12.11       | 16.25       | 20.39       | 23.69       | 25.90       | 30.04       | 34.17       | 36.93       | 39.68       | 43.82       |
| 1.17                  | 48                    | 8.421             | 56           | 9.825             | ...                     | ...         | 13.21       | 17.35       | 20.66       | 22.86       | 27.00       | 31.13       | 33.89       | 36.65       | 40.78       |
| 1.17                  | 29                    | 5.088             | 34           | 5.965             | 10.32                   | 14.74       | 18.87       | 23.01       | 26.32       | 28.52       | 32.66       | 36.79       | 39.55       | 42.30       | 46.44       |
| 1.18                  | 34                    | 5.965             | 40           | 7.018             | 8.80                    | 13.22       | 17.36       | 21.49       | 24.80       | 27.00       | 31.14       | 35.27       | 38.03       | 40.78       | 44.92       |
| 1.18                  | 68                    | 11.930            | 80           | 14.036            | ...                     | ...         | ...         | ...         | 14.57       | 16.78       | 20.92       | 25.05       | 27.82       | 30.57       | 34.71       |
| 1.18                  | 44                    | 7.720             | 52           | 9.123             | ...                     | 10.17       | 14.31       | 18.45       | 21.76       | 23.97       | 28.10       | 32.23       | 34.99       | 37.75       | 41.89       |
| 1.19                  | 32                    | 5.614             | 38           | 6.667             | 9.35                    | 13.77       | 17.91       | 22.04       | 25.35       | 27.55       | 31.69       | 35.82       | 38.58       | 41.34       | 45.47       |
| 1.20                  | 30                    | 5.263             | 36           | 6.316             | 9.91                    | 14.32       | 18.46       | 22.59       | 25.90       | 28.11       | 32.24       | 36.37       | 39.13       | 41.89       | 46.02       |
| 1.20                  | 40                    | 7.018             | 48           | 8.421             | ...                     | 11.28       | 15.42       | 19.56       | 22.86       | 25.07       | 29.21       | 33.34       | 36.10       | 38.85       | 42.99       |
| 1.20                  | 60                    | 10.527            | 72           | 12.632            | ...                     | ...         | ...         | 13.46       | 16.78       | 18.99       | 23.13       | 27.26       | 30.02       | 32.78       | 36.92       |
| 1.21                  | 28                    | 4.912             | 34           | 5.965             | 10.46                   | 14.87       | 19.01       | 23.15       | 26.45       | 28.66       | 32.79       | 36.92       | 39.68       | 42.44       | 46.57       |
| 1.21                  | 56                    | 9.825             | 68           | 11.930            | ...                     | ...         | ...         | 14.57       | 17.88       | 20.09       | 24.23       | 28.36       | 31.13       | 33.88       | 38.02       |
| 1.22                  | 36                    | 6.316             | 44           | 7.720             | 7.96                    | 12.38       | 16.52       | 20.66       | 23.97       | 26.17       | 30.31       | 34.44       | 37.20       | 39.95       | 44.09       |
| 1.23                  | 52                    | 9.123             | 64           | 11.229            | ...                     | ...         | 11.53       | 15.68       | 18.99       | 21.19       | 25.33       | 29.47       | 32.23       | 34.98       | 39.12       |
| 1.24                  | 29                    | 5.088             | 36           | 6.316             | 10.04                   | 14.46       | 18.59       | 22.73       | 26.04       | 28.24       | 32.38       | 36.51       | 39.27       | 42.02       | 46.16       |
| 1.25                  | 32                    | 5.614             | 40           | 7.018             | 9.07                    | 13.49       | 17.62       | 21.76       | 25.07       | 27.27       | 31.41       | 35.54       | 38.30       | 41.06       | 45.19       |
| 1.25                  | 48                    | 8.421             | 60           | 10.527            | ...                     | ...         | 12.63       | 16.78       | 20.09       | 22.30       | 26.44       | 30.57       | 33.33       | 36.09       | 40.22       |
| 1.25                  | 64                    | 11.229            | 80           | 14.036            | ...                     | ...         | ...         | ...         | 15.09       | 17.30       | 21.45       | 25.59       | 28.35       | 31.11       | 35.25       |
| 1.25                  | 72                    | 12.632            | 90           | 15.790            | ...                     | ...         | ...         | ...         | ...         | 14.80       | 18.95       | 23.09       | 25.86       | 28.62       | 32.76       |
| 1.26                  | 38                    | 6.667             | 48           | 8.421             | ...                     | 11.54       | 15.69       | 19.83       | 23.13       | 25.34       | 29.48       | 33.61       | 36.37       | 39.13       | 43.26       |
| 1.27                  | 30                    | 5.263             | 38           | 6.667             | 9.62                    | 14.04       | 18.18       | 22.31       | 25.62       | 27.83       | 31.96       | 36.09       | 38.85       | 41.61       | 45.74       |
| 1.27                  | 44                    | 7.720             | 56           | 9.825             | ...                     | 9.59        | 13.74       | 17.88       | 21.19       | 23.40       | 27.54       | 31.67       | 34.43       | 37.19       | 41.33       |
| 1.29                  | 28                    | 4.912             | 36           | 6.316             | 10.17                   | 14.59       | 18.73       | 22.87       | 26.17       | 28.38       | 32.51       | 36.64       | 39.41       | 42.16       | 46.30       |
| 1.29                  | 56                    | 9.825             | 72           | 12.632            | ...                     | ...         | ...         | 13.99       | 17.31       | 19.52       | 23.66       | 27.80       | 30.56       | 33.32       | 37.46       |
| 1.29                  | 34                    | 5.965             | 44           | 7.720             | 8.22                    | 12.65       | 16.79       | 20.93       | 24.24       | 26.44       | 30.58       | 34.71       | 37.47       | 40.23       | 44.36       |
| 1.30                  | 40                    | 7.018             | 52           | 9.123             | ...                     | 10.70       | 14.85       | 18.99       | 22.30       | 24.51       | 28.64       | 32.78       | 35.54       | 38.29       | 42.43       |
| 1.31                  | 52                    | 9.123             | 68           | 11.930            | ...                     | ...         | ...         | 15.09       | 18.41       | 20.62       | 24.77       | 28.90       | 31.66       | 34.42       | 38.56       |
| 1.31                  | 29                    | 5.088             | 38           | 6.667             | 9.75                    | 14.17       | 18.31       | 22.45       | 25.76       | 27.96       | 32.10       | 36.23       | 38.99       | 41.75       | 45.88       |
| 1.32                  | 68                    | 11.930            | 90           | 15.790            | ...                     | ...         | ...         | ...         | ...         | 15.31       | 19.47       | 23.62       | 26.39       | 29.15       | 33.29       |
| 1.33                  | 30                    | 5.263             | 40           | 7.018             | 9.33                    | 13.75       | 17.89       | 22.03       | 25.34       | 27.55       | 31.68       | 35.81       | 38.57       | 41.33       | 45.47       |
| 1.33                  | 36                    | 6.316             | 48           | 8.421             | ...                     | 11.80       | 15.95       | 20.09       | 23.40       | 25.61       | 29.75       | 33.88       | 36.64       | 39.40       | 43.53       |
| 1.33                  | 48                    | 8.421             | 64           | 11.229            | ...                     | ...         | 12.05       | 16.20       | 19.52       | 21.73       | 25.87       | 30.00       | 32.77       | 35.52       | 39.66       |
| 1.33                  | 60                    | 10.527            | 80           | 14.036            | ...                     | ...         | ...         | ...         | 15.61       | 17.83       | 21.98       | 26.12       | 28.88       | 31.64       | 35.79       |
| 1.36                  | 28                    | 4.912             | 38           | 6.667             | 9.88                    | 14.30       | 18.45       | 22.58       | 25.89       | 28.10       | 32.23       | 36.37       | 39.13       | 41.88       | 46.02       |
| 1.36                  | 44                    | 7.720             | 60           | 10.527            | ...                     | ...         | 13.15       | 17.31       | 20.62       | 22.83       | 26.97       | 31.11       | 33.87       | 36.63       | 40.76       |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.80</b>             | <b>0.80</b> | <b>0.90</b> | <b>0.90</b> | <b>0.95</b> | <b>0.95</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.05</b> | <b>1.05</b> |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged.  
Large Sprocket should be ordered with flanges as a special.

\* This length correction factor must be used to determine the proper belt width.



# 14MM Pitch HT200 Belt Drive Selection Table

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 3150-14M                | 3360-14M    | 3500-14M    | 3850-14M    | 4326-14M    | 4578-14M    | 4956-14M    | 5320-14M    | 5740-14M    | 6160-14M    | 6860-14M    |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>1.05</b>             | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> |
| 1.13                  | 30                    | 5.263             | 34           | 5.965             | 53.19                   | 57.32       | 60.08       | 66.97       | 76.34       | 81.30       | 88.74       | 95.91       | 104.17      | 112.44      | 126.22      |
| 1.13                  | 60                    | 10.527            | 68           | 11.930            | 44.37                   | 48.50       | 51.26       | 58.14       | 67.51       | 72.48       | 79.92       | 87.08       | 95.35       | 103.62      | 117.40      |
| 1.14                  | 28                    | 4.912             | 32           | 5.614             | 53.74                   | 57.87       | 60.63       | 67.52       | 76.89       | 81.85       | 89.29       | 96.46       | 104.72      | 112.99      | 126.77      |
| 1.14                  | 56                    | 9.825             | 64           | 11.229            | 45.47                   | 49.60       | 52.36       | 59.25       | 68.62       | 73.58       | 81.02       | 88.19       | 96.45       | 104.72      | 118.50      |
| 1.15                  | 52                    | 9.123             | 60           | 10.527            | 46.57                   | 50.70       | 53.46       | 60.35       | 69.72       | 74.68       | 82.12       | 89.29       | 97.55       | 105.82      | 119.60      |
| 1.16                  | 38                    | 6.667             | 44           | 7.720             | 50.71                   | 54.84       | 57.60       | 64.48       | 73.85       | 78.82       | 86.26       | 93.42       | 101.69      | 109.96      | 123.74      |
| 1.17                  | 48                    | 8.421             | 56           | 9.825             | 47.67                   | 51.80       | 54.57       | 61.45       | 70.82       | 75.79       | 83.23       | 90.39       | 98.66       | 106.93      | 120.71      |
| 1.17                  | 29                    | 5.088             | 34           | 5.965             | 53.33                   | 57.46       | 60.22       | 67.10       | 76.47       | 81.44       | 88.88       | 96.04       | 104.31      | 112.58      | 126.36      |
| 1.18                  | 34                    | 5.965             | 40           | 7.018             | 51.81                   | 55.94       | 58.70       | 65.59       | 74.96       | 79.92       | 87.36       | 94.53       | 102.79      | 111.06      | 124.84      |
| 1.18                  | 68                    | 11.930            | 80           | 14.036            | 41.60                   | 45.73       | 48.49       | 55.38       | 64.75       | 69.72       | 77.16       | 84.32       | 92.59       | 100.86      | 114.64      |
| 1.18                  | 44                    | 7.720             | 52           | 9.123             | 48.78                   | 52.91       | 55.67       | 62.55       | 71.92       | 76.89       | 84.33       | 91.49       | 99.76       | 108.03      | 121.81      |
| 1.19                  | 32                    | 5.614             | 38           | 6.667             | 52.36                   | 56.49       | 59.25       | 66.14       | 75.51       | 80.47       | 87.91       | 95.08       | 103.34      | 111.61      | 125.39      |
| 1.20                  | 30                    | 5.263             | 36           | 6.316             | 52.91                   | 57.04       | 59.80       | 66.69       | 76.06       | 81.02       | 88.46       | 95.63       | 103.89      | 112.16      | 125.94      |
| 1.20                  | 40                    | 7.018             | 48           | 8.421             | 49.88                   | 54.01       | 56.77       | 63.66       | 73.03       | 77.99       | 85.43       | 92.60       | 100.86      | 109.13      | 122.91      |
| 1.20                  | 60                    | 10.527            | 72           | 12.632            | 43.81                   | 47.94       | 50.70       | 57.59       | 66.96       | 71.92       | 79.36       | 86.53       | 94.80       | 103.07      | 116.85      |
| 1.21                  | 28                    | 4.912             | 34           | 5.965             | 53.46                   | 57.59       | 60.35       | 67.24       | 76.61       | 81.58       | 89.02       | 96.18       | 104.45      | 112.72      | 126.50      |
| 1.21                  | 56                    | 9.825             | 68           | 11.930            | 44.91                   | 49.04       | 51.80       | 58.69       | 68.06       | 73.03       | 80.47       | 87.63       | 95.90       | 104.17      | 117.95      |
| 1.22                  | 36                    | 6.316             | 44           | 7.720             | 50.98                   | 55.11       | 57.87       | 64.76       | 74.13       | 79.09       | 86.53       | 93.70       | 101.96      | 110.23      | 124.01      |
| 1.23                  | 52                    | 9.123             | 64           | 11.229            | 46.01                   | 50.14       | 52.91       | 59.79       | 69.16       | 74.13       | 81.57       | 88.73       | 97.00       | 105.27      | 119.05      |
| 1.24                  | 29                    | 5.088             | 36           | 6.316             | 53.05                   | 57.18       | 59.94       | 66.83       | 76.20       | 81.16       | 88.60       | 95.77       | 104.03      | 112.30      | 126.08      |
| 1.25                  | 32                    | 5.614             | 40           | 7.018             | 52.08                   | 56.21       | 58.97       | 65.86       | 75.23       | 80.20       | 87.64       | 94.80       | 103.07      | 111.34      | 125.12      |
| 1.25                  | 48                    | 8.421             | 60           | 10.527            | 47.12                   | 51.25       | 54.01       | 60.89       | 70.27       | 75.23       | 82.67       | 89.84       | 98.10       | 106.37      | 120.15      |
| 1.25                  | 64                    | 11.229            | 80           | 14.036            | 42.14                   | 46.28       | 49.04       | 55.92       | 65.30       | 70.26       | 77.70       | 84.87       | 93.14       | 101.41      | 115.19      |
| 1.25                  | 72                    | 12.632            | 90           | 15.790            | 39.66                   | 43.79       | 46.55       | 53.44       | 62.81       | 67.78       | 75.22       | 82.39       | 90.65       | 98.92       | 112.71      |
| 1.26                  | 38                    | 6.667             | 48           | 8.421             | 50.15                   | 54.28       | 57.04       | 63.93       | 73.30       | 78.26       | 85.71       | 92.87       | 101.14      | 109.41      | 123.19      |
| 1.27                  | 30                    | 5.263             | 38           | 6.667             | 52.64                   | 56.77       | 59.53       | 66.41       | 75.78       | 80.75       | 88.19       | 95.35       | 103.62      | 111.89      | 125.67      |
| 1.27                  | 44                    | 7.720             | 56           | 9.825             | 48.22                   | 52.35       | 55.11       | 62.00       | 71.37       | 76.33       | 83.77       | 90.94       | 99.20       | 107.48      | 121.26      |
| 1.29                  | 28                    | 4.912             | 36           | 6.316             | 53.19                   | 57.32       | 60.08       | 66.96       | 76.33       | 81.30       | 88.74       | 95.90       | 104.17      | 112.44      | 126.22      |
| 1.29                  | 56                    | 9.825             | 72           | 12.632            | 44.35                   | 48.48       | 51.24       | 58.13       | 67.50       | 72.47       | 79.91       | 87.08       | 95.34       | 103.61      | 117.39      |
| 1.29                  | 34                    | 5.965             | 44           | 7.720             | 51.25                   | 55.38       | 58.15       | 65.03       | 74.40       | 79.37       | 86.81       | 93.97       | 102.24      | 110.51      | 124.29      |
| 1.30                  | 40                    | 7.018             | 52           | 9.123             | 49.32                   | 53.45       | 56.21       | 63.10       | 72.47       | 77.44       | 84.88       | 92.04       | 100.31      | 108.58      | 122.36      |
| 1.31                  | 52                    | 9.123             | 68           | 11.930            | 45.45                   | 49.59       | 52.35       | 59.23       | 68.61       | 73.57       | 81.01       | 88.18       | 96.44       | 104.72      | 118.50      |
| 1.31                  | 29                    | 5.088             | 38           | 6.667             | 52.77                   | 56.90       | 59.66       | 66.55       | 75.92       | 80.88       | 88.32       | 95.49       | 103.75      | 112.02      | 125.81      |
| 1.32                  | 68                    | 11.930            | 90           | 15.790            | 40.19                   | 44.33       | 47.09       | 53.98       | 63.35       | 68.32       | 75.76       | 82.93       | 91.20       | 99.47       | 113.25      |
| 1.33                  | 30                    | 5.263             | 40           | 7.018             | 52.36                   | 56.49       | 59.25       | 66.13       | 75.50       | 80.47       | 87.91       | 95.08       | 103.34      | 111.61      | 125.39      |
| 1.33                  | 36                    | 6.316             | 48           | 8.421             | 50.42                   | 54.56       | 57.32       | 64.20       | 73.57       | 78.54       | 85.98       | 93.14       | 101.41      | 109.68      | 123.46      |
| 1.33                  | 48                    | 8.421             | 64           | 11.229            | 46.56                   | 50.69       | 53.45       | 60.34       | 69.71       | 74.67       | 82.11       | 89.28       | 97.55       | 105.82      | 119.60      |
| 1.33                  | 60                    | 10.527            | 80           | 14.036            | 42.68                   | 46.82       | 49.58       | 56.47       | 65.84       | 70.81       | 78.25       | 85.42       | 93.68       | 101.95      | 115.73      |
| 1.36                  | 28                    | 4.912             | 38           | 6.667             | 52.91                   | 57.04       | 59.80       | 66.69       | 76.06       | 81.02       | 88.46       | 95.63       | 103.89      | 112.16      | 125.94      |
| 1.36                  | 44                    | 7.720             | 60           | 10.527            | 47.66                   | 51.79       | 54.55       | 61.44       | 70.81       | 75.78       | 83.22       | 90.38       | 98.65       | 106.92      | 120.70      |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>1.05</b>             | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

\* This length correction factor must be used to determine the proper belt width.





# SELECTION

## 14MM Pitch HT200 Belt Drive Selection Table

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 966-14M                 | 1190-14M    | 1400-14M    | 1610-14M    | 1778-14M    | 1890-14M    | 2100-14M    | 2310-14M    | 2450-14M    | 2590-14M    | 2800-14M    |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.80</b>             | <b>0.80</b> | <b>0.90</b> | <b>0.90</b> | <b>0.95</b> | <b>0.95</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.05</b> | <b>1.05</b> |
| 1.37                  | 38                    | 6.667             | 52           | 9.123             | ...                     | 10.95       | 15.11       | 19.25       | 22.57       | 24.77       | 28.91       | 33.05       | 35.81       | 38.56       | 42.70       |
| 1.38                  | 32                    | 5.614             | 44           | 7.720             | 8.48                    | 12.91       | 17.05       | 21.20       | 24.50       | 26.71       | 30.85       | 34.98       | 37.74       | 40.50       | 44.64       |
| 1.38                  | 29                    | 5.088             | 40           | 7.018             | 9.46                    | 13.88       | 18.03       | 22.17       | 25.47       | 27.68       | 31.82       | 35.95       | 38.71       | 41.47       | 45.60       |
| 1.39                  | 52                    | 9.123             | 72           | 12.632            | ...                     | ...         | ...         | 14.50       | 17.83       | 20.04       | 24.19       | 28.33       | 31.09       | 33.85       | 37.99       |
| 1.40                  | 40                    | 7.018             | 56           | 9.825             | ...                     | 10.10       | 14.26       | 18.41       | 21.73       | 23.94       | 28.08       | 32.21       | 34.97       | 37.73       | 41.87       |
| 1.40                  | 80                    | 14.036            | 112          | 19.650            | ...                     | ...         | ...         | ...         | ...         | ...         | 18.80       | 21.59       | 24.37       | 28.52       |             |
| 1.41                  | 64                    | 11.229            | 90           | 15.790            | ...                     | ...         | ...         | ...         | ...         | 15.82       | 19.99       | 24.14       | 26.91       | 29.68       | 33.82       |
| 1.41                  | 34                    | 5.965             | 48           | 8.421             | ...                     | 12.06       | 16.21       | 20.36       | 23.67       | 25.88       | 30.02       | 34.15       | 36.91       | 39.67       | 43.80       |
| 1.42                  | 48                    | 8.421             | 68           | 11.930            | ...                     | ...         | 11.44       | 15.61       | 18.94       | 21.15       | 25.30       | 29.43       | 32.20       | 34.96       | 39.10       |
| 1.43                  | 28                    | 4.912             | 40           | 7.018             | 9.59                    | 14.02       | 18.16       | 22.30       | 25.61       | 27.82       | 31.95       | 36.08       | 38.85       | 41.60       | 45.74       |
| 1.43                  | 56                    | 9.825             | 80           | 14.036            | ...                     | ...         | ...         | 12.78       | 16.12       | 18.34       | 22.50       | 26.65       | 29.41       | 32.18       | 36.32       |
| 1.44                  | 36                    | 6.316             | 52           | 9.123             | ...                     | 11.21       | 15.37       | 19.52       | 22.83       | 25.04       | 29.18       | 33.31       | 36.08       | 38.83       | 42.97       |
| 1.46                  | 44                    | 7.720             | 64           | 11.229            | ...                     | ...         | 12.55       | 16.72       | 20.04       | 22.25       | 26.40       | 30.54       | 33.30       | 36.06       | 40.20       |
| 1.47                  | 30                    | 5.263             | 44           | 7.720             | 8.73                    | 13.17       | 17.32       | 21.46       | 24.77       | 26.98       | 31.12       | 35.25       | 38.01       | 40.77       | 44.91       |
| 1.47                  | 38                    | 6.667             | 56           | 9.825             | ...                     | 10.35       | 14.52       | 18.68       | 21.99       | 24.20       | 28.34       | 32.48       | 35.24       | 38.00       | 42.14       |
| 1.50                  | 32                    | 5.614             | 48           | 8.421             | 7.87                    | 12.32       | 16.48       | 20.62       | 23.94       | 26.14       | 30.28       | 34.42       | 37.18       | 39.94       | 44.07       |
| 1.50                  | 40                    | 7.018             | 60           | 10.527            | ...                     | 9.48        | 13.67       | 17.83       | 21.15       | 23.36       | 27.50       | 31.64       | 34.41       | 37.16       | 41.30       |
| 1.50                  | 48                    | 8.421             | 72           | 12.632            | ...                     | ...         | ...         | 15.01       | 18.34       | 20.56       | 24.72       | 28.86       | 31.62       | 34.39       | 38.53       |
| 1.50                  | 60                    | 10.527            | 90           | 15.790            | ...                     | ...         | ...         | ...         | 14.08       | 16.32       | 20.50       | 24.66       | 27.43       | 30.20       | 34.35       |
| 1.52                  | 29                    | 5.088             | 44           | 7.720             | 8.86                    | 13.30       | 17.45       | 21.60       | 24.91       | 27.11       | 31.25       | 35.39       | 38.15       | 40.90       | 45.04       |
| 1.53                  | 34                    | 5.965             | 52           | 9.123             | ...                     | 11.47       | 15.63       | 19.78       | 23.10       | 25.31       | 29.45       | 33.58       | 36.35       | 39.10       | 43.24       |
| 1.54                  | 52                    | 9.123             | 80           | 14.036            | ...                     | ...         | ...         | 13.28       | 16.63       | 18.86       | 23.02       | 27.17       | 29.94       | 32.70       | 36.85       |
| 1.55                  | 44                    | 7.720             | 68           | 11.930            | ...                     | ...         | 11.94       | 16.12       | 19.45       | 21.67       | 25.82       | 29.96       | 32.73       | 35.49       | 39.63       |
| 1.56                  | 36                    | 6.316             | 56           | 9.825             | ...                     | 10.60       | 14.78       | 18.94       | 22.25       | 24.46       | 28.61       | 32.75       | 35.51       | 38.27       | 42.41       |
| 1.56                  | 72                    | 12.632            | 112          | 19.650            | ...                     | ...         | ...         | ...         | ...         | ...         | 19.80       | 22.60       | 25.39       | 29.56       |             |
| 1.57                  | 28                    | 4.912             | 44           | 7.720             | 8.98                    | 13.43       | 17.58       | 21.73       | 25.04       | 27.25       | 31.39       | 35.52       | 38.28       | 41.04       | 45.18       |
| 1.58                  | 38                    | 6.667             | 60           | 10.527            | ...                     | 9.73        | 13.92       | 18.09       | 21.41       | 23.62       | 27.77       | 31.91       | 34.67       | 37.43       | 41.57       |
| 1.60                  | 30                    | 5.263             | 48           | 8.421             | 8.11                    | 12.58       | 16.74       | 20.89       | 24.20       | 26.41       | 30.55       | 34.69       | 37.45       | 40.21       | 44.34       |
| 1.60                  | 40                    | 7.018             | 64           | 11.229            | ...                     | ...         | 13.06       | 17.24       | 20.56       | 22.78       | 26.93       | 31.07       | 33.83       | 36.59       | 40.73       |
| 1.61                  | 56                    | 9.825             | 90           | 15.790            | ...                     | ...         | ...         | ...         | 14.58       | 16.82       | 21.01       | 25.18       | 27.95       | 30.72       | 34.87       |
| 1.63                  | 32                    | 5.614             | 52           | 9.123             | ...                     | 11.72       | 15.89       | 20.04       | 23.36       | 25.57       | 29.71       | 33.85       | 36.61       | 39.37       | 43.51       |
| 1.64                  | 44                    | 7.720             | 72           | 12.632            | ...                     | ...         | 11.31       | 15.52       | 18.86       | 21.08       | 25.24       | 29.38       | 32.15       | 34.91       | 39.06       |
| 1.65                  | 34                    | 5.965             | 56           | 9.825             | ...                     | 10.85       | 15.03       | 19.20       | 22.52       | 24.73       | 28.87       | 33.01       | 35.78       | 38.54       | 42.67       |
| 1.65                  | 68                    | 11.930            | 112          | 19.650            | ...                     | ...         | ...         | ...         | ...         | ...         | 20.30       | 23.10       | 25.89       | 30.07       |             |
| 1.66                  | 29                    | 5.088             | 48           | 8.421             | 8.24                    | 12.71       | 16.87       | 21.02       | 24.33       | 26.54       | 30.68       | 34.82       | 37.58       | 40.34       | 44.48       |
| 1.67                  | 36                    | 6.316             | 60           | 10.527            | ...                     | 9.97        | 14.17       | 18.35       | 21.67       | 23.88       | 28.03       | 32.17       | 34.94       | 37.70       | 41.84       |
| 1.67                  | 48                    | 8.421             | 80           | 14.036            | ...                     | ...         | ...         | 13.77       | 17.13       | 19.36       | 23.53       | 27.69       | 30.46       | 33.23       | 37.38       |
| 1.68                  | 38                    | 6.667             | 64           | 11.229            | ...                     | ...         | 13.31       | 17.49       | 20.82       | 23.04       | 27.19       | 31.33       | 34.10       | 36.86       | 41.00       |
| 1.70                  | 40                    | 7.018             | 68           | 11.930            | ...                     | ...         | 12.43       | 16.63       | 19.97       | 22.19       | 26.34       | 30.49       | 33.26       | 36.02       | 40.16       |
| 1.71                  | 28                    | 4.912             | 48           | 8.421             | 8.36                    | 12.83       | 17.00       | 21.15       | 24.47       | 26.68       | 30.82       | 34.95       | 37.72       | 40.48       | 44.61       |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.80</b>             | <b>0.80</b> | <b>0.90</b> | <b>0.90</b> | <b>0.95</b> | <b>0.95</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.05</b> | <b>1.05</b> |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged.  
Large Sprocket should be ordered with flanges as a special.

\* This length correction factor must be used to determine the proper belt width.



# 14MM Pitch HT200 Belt Drive Selection Table

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 3150-14M                | 3360-14M    | 3500-14M    | 3850-14M    | 4326-14M    | 4578-14M    | 4956-14M    | 5320-14M    | 5740-14M    | 6160-14M    | 6860-14M    |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>1.05</b>             | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> |
| 1.37                  | 38                    | 6.667             | 52           | 9.123             | 49.59                   | 53.72       | 56.49       | 63.37       | 72.74       | 77.71       | 85.15       | 92.32       | 100.58      | 108.85      | 122.63      |
| 1.38                  | 32                    | 5.614             | 44           | 7.720             | 51.53                   | 55.66       | 58.42       | 65.30       | 74.68       | 79.64       | 87.08       | 94.25       | 102.51      | 110.78      | 124.56      |
| 1.38                  | 29                    | 5.088             | 40           | 7.018             | 52.49                   | 56.62       | 59.38       | 66.27       | 75.64       | 80.61       | 88.05       | 95.21       | 103.48      | 111.75      | 125.53      |
| 1.39                  | 52                    | 9.123             | 72           | 12.632            | 44.89                   | 49.02       | 51.78       | 58.67       | 68.05       | 73.01       | 80.45       | 87.62       | 95.89       | 104.16      | 117.94      |
| 1.40                  | 40                    | 7.018             | 56           | 9.825             | 48.76                   | 52.89       | 55.65       | 62.54       | 71.91       | 76.88       | 84.32       | 91.49       | 99.75       | 108.02      | 121.80      |
| 1.40                  | 80                    | 14.036            | 112          | 19.650            | 35.44                   | 39.58       | 42.35       | 49.25       | 58.63       | 63.60       | 71.05       | 78.22       | 86.49       | 94.76       | 108.55      |
| 1.41                  | 64                    | 11.229            | 90           | 15.790            | 40.73                   | 44.86       | 47.62       | 54.52       | 63.89       | 68.86       | 76.31       | 83.47       | 91.74       | 100.01      | 113.80      |
| 1.41                  | 34                    | 5.965             | 48           | 8.421             | 50.70                   | 54.83       | 57.59       | 64.47       | 73.85       | 78.81       | 86.25       | 93.42       | 101.68      | 109.95      | 123.74      |
| 1.42                  | 48                    | 8.421             | 68           | 11.930            | 45.99                   | 50.13       | 52.89       | 59.78       | 69.15       | 74.12       | 81.56       | 88.72       | 96.99       | 105.26      | 119.04      |
| 1.43                  | 28                    | 4.912             | 40           | 7.018             | 52.63                   | 56.76       | 59.52       | 66.41       | 75.78       | 80.74       | 88.18       | 95.35       | 103.61      | 111.89      | 125.67      |
| 1.43                  | 56                    | 9.825             | 80           | 14.036            | 43.22                   | 47.35       | 50.12       | 57.01       | 66.38       | 71.35       | 78.79       | 85.96       | 94.23       | 102.50      | 116.28      |
| 1.44                  | 36                    | 6.316             | 52           | 9.123             | 49.86                   | 54.00       | 56.76       | 63.64       | 73.02       | 77.98       | 85.42       | 92.59       | 100.85      | 109.13      | 122.91      |
| 1.46                  | 44                    | 7.720             | 64           | 11.229            | 47.09                   | 51.23       | 53.99       | 60.88       | 70.25       | 75.22       | 82.66       | 89.83       | 98.09       | 106.36      | 120.14      |
| 1.47                  | 30                    | 5.263             | 44           | 7.720             | 51.80                   | 55.93       | 58.69       | 65.58       | 74.95       | 79.91       | 87.35       | 94.52       | 102.79      | 111.06      | 124.84      |
| 1.47                  | 38                    | 6.667             | 56           | 9.825             | 49.03                   | 53.16       | 55.92       | 62.81       | 72.18       | 77.15       | 84.59       | 91.76       | 100.02      | 108.30      | 122.08      |
| 1.50                  | 32                    | 5.614             | 48           | 8.421             | 50.97                   | 55.10       | 57.86       | 64.75       | 74.12       | 79.08       | 86.53       | 93.69       | 101.96      | 110.23      | 124.01      |
| 1.50                  | 40                    | 7.018             | 60           | 10.527            | 48.20                   | 52.33       | 55.09       | 61.98       | 71.35       | 76.32       | 83.76       | 90.93       | 99.19       | 107.47      | 121.25      |
| 1.50                  | 48                    | 8.421             | 72           | 12.632            | 45.43                   | 49.56       | 52.32       | 59.21       | 68.59       | 73.55       | 81.00       | 88.16       | 96.43       | 104.70      | 118.49      |
| 1.50                  | 60                    | 10.527            | 90           | 15.790            | 41.26                   | 45.39       | 48.16       | 55.05       | 64.43       | 69.40       | 76.85       | 84.01       | 92.28       | 100.56      | 114.34      |
| 1.52                  | 29                    | 5.088             | 44           | 7.720             | 51.93                   | 56.07       | 58.83       | 65.71       | 75.08       | 80.05       | 87.49       | 94.66       | 102.92      | 111.19      | 124.97      |
| 1.53                  | 34                    | 5.965             | 52           | 9.123             | 50.14                   | 54.27       | 57.03       | 63.92       | 73.29       | 78.25       | 85.70       | 92.86       | 101.13      | 109.40      | 123.18      |
| 1.54                  | 52                    | 9.123             | 80           | 14.036            | 43.75                   | 47.89       | 50.65       | 57.54       | 66.92       | 71.89       | 79.33       | 86.50       | 94.77       | 103.04      | 116.83      |
| 1.55                  | 44                    | 7.720             | 68           | 11.930            | 46.53                   | 50.66       | 53.43       | 60.32       | 69.69       | 74.66       | 82.10       | 89.27       | 97.53       | 105.81      | 119.59      |
| 1.56                  | 36                    | 6.316             | 56           | 9.825             | 49.30                   | 53.43       | 56.20       | 63.08       | 72.46       | 77.42       | 84.86       | 92.03       | 100.30      | 108.57      | 122.35      |
| 1.56                  | 72                    | 12.632            | 112          | 19.650            | 36.49                   | 40.63       | 43.40       | 50.31       | 59.70       | 64.67       | 72.12       | 79.29       | 87.57       | 95.84       | 109.63      |
| 1.57                  | 28                    | 4.912             | 44           | 7.720             | 52.07                   | 56.20       | 58.96       | 65.85       | 75.22       | 80.19       | 87.63       | 94.79       | 103.06      | 111.33      | 125.11      |
| 1.58                  | 38                    | 6.667             | 60           | 10.527            | 48.47                   | 52.60       | 55.36       | 62.25       | 71.62       | 76.59       | 84.03       | 91.20       | 99.47       | 107.74      | 121.52      |
| 1.60                  | 30                    | 5.263             | 48           | 8.421             | 51.24                   | 55.37       | 58.13       | 65.02       | 74.39       | 79.36       | 86.80       | 93.96       | 102.23      | 110.50      | 124.28      |
| 1.60                  | 40                    | 7.018             | 64           | 11.229            | 47.63                   | 51.77       | 54.53       | 61.42       | 70.79       | 75.76       | 83.20       | 90.37       | 98.64       | 106.91      | 120.69      |
| 1.61                  | 56                    | 9.825             | 90           | 15.790            | 41.79                   | 45.93       | 48.69       | 55.59       | 64.97       | 69.94       | 77.38       | 84.55       | 92.82       | 101.10      | 114.88      |
| 1.63                  | 32                    | 5.614             | 52           | 9.123             | 50.41                   | 54.54       | 57.30       | 64.19       | 73.56       | 78.53       | 85.97       | 93.13       | 101.40      | 109.67      | 123.45      |
| 1.64                  | 44                    | 7.720             | 72           | 12.632            | 45.96                   | 50.10       | 52.86       | 59.75       | 69.13       | 74.09       | 81.54       | 88.71       | 96.97       | 105.25      | 119.03      |
| 1.65                  | 34                    | 5.965             | 56           | 9.825             | 49.57                   | 53.70       | 56.47       | 63.35       | 72.73       | 77.69       | 85.14       | 92.30       | 100.57      | 108.84      | 122.62      |
| 1.65                  | 68                    | 11.930            | 112          | 19.650            | 37.01                   | 41.16       | 43.93       | 50.84       | 60.23       | 65.20       | 72.65       | 79.83       | 88.10       | 96.38       | 110.17      |
| 1.66                  | 29                    | 5.088             | 48           | 8.421             | 51.37                   | 55.51       | 58.27       | 65.15       | 74.53       | 79.49       | 86.93       | 94.10       | 102.37      | 110.64      | 124.42      |
| 1.67                  | 36                    | 6.316             | 60           | 10.527            | 48.74                   | 52.87       | 55.63       | 62.52       | 71.90       | 76.86       | 84.31       | 91.47       | 99.74       | 108.01      | 121.79      |
| 1.67                  | 48                    | 8.421             | 80           | 14.036            | 44.28                   | 48.42       | 51.19       | 58.08       | 67.46       | 72.43       | 79.87       | 87.04       | 95.31       | 103.58      | 117.37      |
| 1.68                  | 38                    | 6.667             | 64           | 11.229            | 47.90                   | 52.03       | 54.80       | 61.69       | 71.06       | 76.03       | 83.47       | 90.64       | 98.91       | 107.18      | 120.96      |
| 1.70                  | 40                    | 7.018             | 68           | 11.930            | 47.06                   | 51.20       | 53.96       | 60.85       | 70.23       | 75.20       | 82.64       | 89.81       | 98.08       | 106.35      | 120.13      |
| 1.71                  | 28                    | 4.912             | 48           | 8.421             | 51.51                   | 55.64       | 58.40       | 65.29       | 74.66       | 79.63       | 87.07       | 94.24       | 102.50      | 110.77      | 124.56      |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>1.05</b>             | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

\* This length correction factor must be used to determine the proper belt width.

|                                  |                               |                                       |  |
|----------------------------------|-------------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SPECIFICATIONS<br>PAGE PT11-4 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|-------------------------------|---------------------------------------|--|



# SELECTION

## 14MM Pitch HT200 Belt Drive Selection Table

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 966-14M                 | 1190-14M    | 1400-14M    | 1610-14M    | 1778-14M    | 1890-14M    | 2100-14M    | 2310-14M    | 2450-14M    | 2590-14M    | 2800-14M    |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.80</b>             | <b>0.80</b> | <b>0.90</b> | <b>0.90</b> | <b>0.95</b> | <b>0.95</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.05</b> | <b>1.05</b> |
| 1.73                  | 52                    | 9.123             | 90           | 15.790            | ...                     | ...         | ...         | ...         | 15.06       | 17.32       | 21.51       | 25.69       | 28.47       | 31.24       | 35.40       |
| 1.73                  | 30                    | 5.263             | 52           | 9.123             | ...                     | 11.97       | 16.15       | 20.30       | 23.62       | 25.83       | 29.98       | 34.12       | 36.88       | 39.64       | 43.78       |
| 1.75                  | 32                    | 5.614             | 56           | 9.825             | ...                     | 11.10       | 15.29       | 19.46       | 22.78       | 24.99       | 29.14       | 33.28       | 36.04       | 38.80       | 42.94       |
| 1.75                  | 64                    | 11.229            | 112          | 19.650            | ...                     | ...         | ...         | ...         | ...         | ...         | 16.55       | 20.79       | 23.60       | 26.40       | 30.58       |
| 1.77                  | 34                    | 5.965             | 60           | 10.527            | ...                     | 10.22       | 14.43       | 18.60       | 21.93       | 24.14       | 28.30       | 32.44       | 35.20       | 37.96       | 42.11       |
| 1.78                  | 36                    | 6.316             | 64           | 11.229            | ...                     | ...         | 13.56       | 17.74       | 21.08       | 23.30       | 27.45       | 31.59       | 34.36       | 37.12       | 41.27       |
| 1.79                  | 38                    | 6.667             | 68           | 11.930            | ...                     | ...         | 12.68       | 16.88       | 20.22       | 22.44       | 26.60       | 30.75       | 33.52       | 36.28       | 40.43       |
| 1.79                  | 29                    | 5.088             | 52           | 9.123             | ...                     | 12.10       | 16.27       | 20.43       | 23.75       | 25.97       | 30.11       | 34.25       | 37.01       | 39.77       | 43.91       |
| 1.80                  | 40                    | 7.018             | 72           | 12.632            | ...                     | ...         | 11.79       | 16.02       | 19.36       | 21.59       | 25.75       | 29.91       | 32.68       | 35.44       | 39.59       |
| 1.80                  | 80                    | 14.036            | 144          | 25.264            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 23.58       |
| 1.82                  | 44                    | 7.720             | 80           | 14.036            | ...                     | ...         | ...         | 14.26       | 17.63       | 19.87       | 24.05       | 28.21       | 30.98       | 33.75       | 37.90       |
| 1.86                  | 28                    | 4.912             | 52           | 9.123             | 7.70                    | 12.22       | 16.40       | 20.56       | 23.88       | 26.10       | 30.24       | 34.38       | 37.15       | 39.91       | 44.05       |
| 1.87                  | 30                    | 5.263             | 56           | 9.825             | ...                     | 11.34       | 15.54       | 19.71       | 23.04       | 25.25       | 29.40       | 33.54       | 36.31       | 39.07       | 43.21       |
| 1.87                  | 60                    | 10.527            | 112          | 19.650            | ...                     | ...         | ...         | ...         | ...         | ...         | 17.02       | 21.28       | 24.10       | 26.90       | 31.08       |
| 1.88                  | 32                    | 5.614             | 60           | 10.527            | ...                     | 10.46       | 14.68       | 18.86       | 22.19       | 24.40       | 28.56       | 32.70       | 35.47       | 38.23       | 42.37       |
| 1.88                  | 48                    | 8.421             | 90           | 15.790            | ...                     | ...         | ...         | ...         | 15.55       | 17.81       | 22.02       | 26.20       | 28.98       | 31.76       | 35.92       |
| 1.88                  | 34                    | 5.965             | 64           | 11.229            | ...                     | 9.56        | 13.80       | 18.00       | 21.33       | 23.55       | 27.71       | 31.86       | 34.63       | 37.39       | 41.53       |
| 1.89                  | 36                    | 6.316             | 68           | 11.930            | ...                     | ...         | 12.92       | 17.13       | 20.48       | 22.70       | 26.86       | 31.01       | 33.78       | 36.55       | 40.69       |
| 1.90                  | 38                    | 6.667             | 72           | 12.632            | ...                     | ...         | 12.03       | 16.26       | 19.62       | 21.84       | 26.01       | 30.17       | 32.94       | 35.70       | 39.85       |
| 1.93                  | 29                    | 5.088             | 56           | 9.825             | ...                     | 11.47       | 15.67       | 19.84       | 23.17       | 25.38       | 29.53       | 33.67       | 36.44       | 39.20       | 43.34       |
| 2.00                  | 28                    | 4.912             | 56           | 9.825             | ...                     | 11.59       | 15.79       | 19.97       | 23.30       | 25.51       | 29.66       | 33.81       | 36.57       | 39.33       | 43.48       |
| 2.00                  | 30                    | 5.263             | 60           | 10.527            | ...                     | 10.70       | 14.93       | 19.11       | 22.44       | 24.66       | 28.82       | 32.96       | 35.73       | 38.49       | 42.64       |
| 2.00                  | 32                    | 5.614             | 64           | 11.229            | ...                     | 9.79        | 14.05       | 18.25       | 21.59       | 23.81       | 27.97       | 32.12       | 34.89       | 37.65       | 41.80       |
| 2.00                  | 34                    | 5.965             | 68           | 11.930            | ...                     | ...         | 13.17       | 17.38       | 20.73       | 22.96       | 27.12       | 31.27       | 34.04       | 36.81       | 40.96       |
| 2.00                  | 36                    | 6.316             | 72           | 12.632            | ...                     | ...         | 12.27       | 16.51       | 19.87       | 22.10       | 26.27       | 30.42       | 33.20       | 35.96       | 40.11       |
| 2.00                  | 40                    | 7.018             | 80           | 14.036            | ...                     | ...         | ...         | 14.74       | 18.12       | 20.37       | 24.55       | 28.72       | 31.50       | 34.27       | 38.42       |
| 2.00                  | 56                    | 9.825             | 112          | 19.650            | ...                     | ...         | ...         | ...         | ...         | ...         | 17.50       | 21.76       | 24.59       | 27.39       | 31.59       |
| 2.00                  | 72                    | 12.632            | 144          | 25.264            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 20.23       | 24.54       |
| 2.05                  | 44                    | 7.720             | 90           | 15.790            | ...                     | ...         | ...         | 12.58       | 16.02       | 18.29       | 22.51       | 26.70       | 29.49       | 32.27       | 36.43       |
| 2.07                  | 29                    | 5.088             | 60           | 10.527            | ...                     | 10.82       | 15.05       | 19.24       | 22.57       | 24.79       | 28.95       | 33.09       | 35.86       | 38.63       | 42.77       |
| 2.10                  | 80                    | 14.036            | 168          | 29.475            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 2.11                  | 38                    | 6.667             | 80           | 14.036            | ...                     | ...         | ...         | 14.98       | 18.37       | 20.61       | 24.81       | 28.98       | 31.76       | 34.53       | 38.68       |
| 2.12                  | 34                    | 5.965             | 72           | 12.632            | ...                     | ...         | 12.51       | 16.76       | 20.12       | 22.35       | 26.52       | 30.68       | 33.46       | 36.23       | 40.38       |
| 2.12                  | 68                    | 11.930            | 144          | 25.264            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 20.69       | 25.01       |
| 2.13                  | 32                    | 5.614             | 68           | 11.930            | ...                     | ...         | 13.41       | 17.63       | 20.98       | 23.21       | 27.38       | 31.53       | 34.31       | 37.07       | 41.22       |
| 2.13                  | 30                    | 5.263             | 64           | 11.229            | ...                     | 10.03       | 14.29       | 18.50       | 21.84       | 24.07       | 28.23       | 32.38       | 35.15       | 37.91       | 42.06       |
| 2.14                  | 28                    | 4.912             | 60           | 10.527            | ...                     | 10.94       | 15.17       | 19.37       | 22.70       | 24.92       | 29.08       | 33.23       | 35.99       | 38.76       | 42.90       |
| 2.15                  | 52                    | 9.123             | 112          | 19.650            | ...                     | ...         | ...         | ...         | ...         | ...         | 17.97       | 22.25       | 25.08       | 27.89       | 32.09       |
| 2.21                  | 29                    | 5.088             | 64           | 11.229            | ...                     | 10.14       | 14.42       | 18.63       | 21.97       | 24.19       | 28.36       | 32.51       | 35.28       | 38.05       | 42.19       |
| 2.22                  | 36                    | 6.316             | 80           | 14.036            | ...                     | ...         | 10.88       | 15.22       | 18.61       | 20.86       | 25.06       | 29.23       | 32.01       | 34.79       | 38.94       |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.80</b>             | <b>0.80</b> | <b>0.90</b> | <b>0.90</b> | <b>0.95</b> | <b>0.95</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.05</b> | <b>1.05</b> |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged.  
Large Sprocket should be ordered with flanges as a special.

\* This length correction factor must be used to determine the proper belt width.



# 14MM Pitch HT200 Belt Drive Selection Table

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 3150-14M                | 3360-14M    | 3500-14M    | 3850-14M    | 4326-14M    | 4578-14M    | 4956-14M    | 5320-14M    | 5740-14M    | 6160-14M    | 6860-14M    |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>1.05</b>             | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> |
| 1.73                  | 52                    | 9.123             | 90           | 15.790            | 42.31                   | 46.45       | 49.22       | 56.12       | 65.50       | 70.47       | 77.92       | 85.09       | 93.36       | 101.64      | 115.43      |
| 1.73                  | 30                    | 5.263             | 52           | 9.123             | 50.67                   | 54.81       | 57.57       | 64.46       | 73.83       | 78.80       | 86.24       | 93.41       | 101.67      | 109.94      | 123.73      |
| 1.75                  | 32                    | 5.614             | 56           | 9.825             | 49.84                   | 53.97       | 56.74       | 63.62       | 73.00       | 77.97       | 85.41       | 92.58       | 100.84      | 109.11      | 122.90      |
| 1.75                  | 64                    | 11.229            | 112          | 19.650            | 37.52                   | 41.67       | 44.45       | 51.36       | 60.76       | 65.73       | 73.19       | 80.36       | 88.64       | 96.92       | 110.71      |
| 1.77                  | 34                    | 5.965             | 60           | 10.527            | 49.00                   | 53.14       | 55.90       | 62.79       | 72.17       | 77.13       | 84.58       | 91.74       | 100.01      | 108.28      | 122.07      |
| 1.78                  | 36                    | 6.316             | 64           | 11.229            | 48.17                   | 52.30       | 55.07       | 61.96       | 71.33       | 76.30       | 83.74       | 90.91       | 99.18       | 107.45      | 121.24      |
| 1.79                  | 38                    | 6.667             | 68           | 11.930            | 47.33                   | 51.47       | 54.23       | 61.12       | 70.50       | 75.47       | 82.91       | 90.08       | 98.35       | 106.62      | 120.41      |
| 1.79                  | 29                    | 5.088             | 52           | 9.123             | 50.81                   | 54.94       | 57.70       | 64.59       | 73.97       | 78.93       | 86.38       | 93.54       | 101.81      | 110.08      | 123.86      |
| 1.80                  | 40                    | 7.018             | 72           | 12.632            | 46.49                   | 50.63       | 53.39       | 60.29       | 69.67       | 74.63       | 82.08       | 89.25       | 97.52       | 105.79      | 119.57      |
| 1.80                  | 80                    | 14.036            | 144          | 25.264            | 30.63                   | 34.82       | 37.61       | 44.56       | 54.00       | 58.99       | 66.46       | 73.64       | 81.93       | 90.22       | 104.02      |
| 1.82                  | 44                    | 7.720             | 80           | 14.036            | 44.81                   | 48.95       | 51.72       | 58.61       | 67.99       | 72.96       | 80.41       | 87.58       | 95.85       | 104.12      | 117.91      |
| 1.86                  | 28                    | 4.912             | 52           | 9.123             | 50.94                   | 55.08       | 57.84       | 64.73       | 74.10       | 79.07       | 86.51       | 93.68       | 101.95      | 110.22      | 124.00      |
| 1.87                  | 30                    | 5.263             | 56           | 9.825             | 50.11                   | 54.24       | 57.00       | 63.89       | 73.27       | 78.24       | 85.68       | 92.85       | 101.11      | 109.39      | 123.17      |
| 1.87                  | 60                    | 10.527            | 112          | 19.650            | 38.04                   | 42.19       | 44.97       | 51.88       | 61.28       | 66.26       | 73.72       | 80.90       | 89.17       | 97.45       | 111.25      |
| 1.88                  | 32                    | 5.614             | 60           | 10.527            | 49.27                   | 53.41       | 56.17       | 63.06       | 72.44       | 77.40       | 84.85       | 92.02       | 100.28      | 108.56      | 122.34      |
| 1.88                  | 48                    | 8.421             | 90           | 15.790            | 42.84                   | 46.98       | 49.75       | 56.65       | 66.04       | 71.01       | 78.46       | 85.63       | 93.90       | 102.18      | 115.97      |
| 1.88                  | 34                    | 5.965             | 64           | 11.229            | 48.43                   | 52.57       | 55.33       | 62.23       | 71.60       | 76.57       | 84.01       | 91.18       | 99.45       | 107.72      | 121.51      |
| 1.89                  | 36                    | 6.316             | 68           | 11.930            | 47.60                   | 51.73       | 54.50       | 61.39       | 70.77       | 75.74       | 83.18       | 90.35       | 98.62       | 106.89      | 120.68      |
| 1.90                  | 38                    | 6.667             | 72           | 12.632            | 46.76                   | 50.90       | 53.66       | 60.55       | 69.93       | 74.90       | 82.35       | 89.52       | 97.79       | 106.06      | 119.85      |
| 1.93                  | 29                    | 5.088             | 56           | 9.825             | 50.24                   | 54.38       | 57.14       | 64.03       | 73.40       | 78.37       | 85.81       | 92.98       | 101.25      | 109.52      | 123.30      |
| 2.00                  | 28                    | 4.912             | 56           | 9.825             | 50.38                   | 54.51       | 57.27       | 64.16       | 73.54       | 78.51       | 85.95       | 93.12       | 101.39      | 109.66      | 123.44      |
| 2.00                  | 30                    | 5.263             | 60           | 10.527            | 49.54                   | 53.67       | 56.44       | 63.33       | 72.71       | 77.67       | 85.12       | 92.29       | 100.55      | 108.83      | 122.61      |
| 2.00                  | 32                    | 5.614             | 64           | 11.229            | 48.70                   | 52.84       | 55.60       | 62.49       | 71.87       | 76.84       | 84.28       | 91.45       | 99.72       | 108.00      | 121.78      |
| 2.00                  | 34                    | 5.965             | 68           | 11.930            | 47.86                   | 52.00       | 54.76       | 61.66       | 71.04       | 76.01       | 83.45       | 90.62       | 98.89       | 107.16      | 120.95      |
| 2.00                  | 36                    | 6.316             | 72           | 12.632            | 47.02                   | 51.16       | 53.93       | 60.82       | 70.20       | 75.17       | 82.62       | 89.79       | 98.06       | 106.33      | 120.12      |
| 2.00                  | 40                    | 7.018             | 80           | 14.036            | 45.34                   | 49.48       | 52.25       | 59.15       | 68.53       | 73.50       | 80.95       | 88.12       | 96.39       | 104.67      | 118.45      |
| 2.00                  | 56                    | 9.825             | 112          | 19.650            | 38.55                   | 42.71       | 45.48       | 52.40       | 61.81       | 66.79       | 74.25       | 81.43       | 89.71       | 97.99       | 111.78      |
| 2.00                  | 72                    | 12.632            | 144          | 25.264            | 31.61                   | 35.82       | 38.62       | 45.58       | 55.03       | 60.02       | 67.50       | 74.69       | 82.99       | 91.28       | 105.09      |
| 2.05                  | 44                    | 7.720             | 90           | 15.790            | 43.36                   | 47.50       | 50.27       | 57.18       | 66.57       | 71.54       | 78.99       | 86.17       | 94.44       | 102.72      | 116.51      |
| 2.07                  | 29                    | 5.088             | 60           | 10.527            | 49.6C                   | 53.81       | 56.57       | 63.46       | 72.84       | 77.81       | 85.25       | 92.42       | 100.69      | 108.96      | 122.75      |
| 2.10                  | 80                    | 14.036            | 168          | 29.475            | 26.71                   | 31.00       | 33.84       | 40.88       | 50.39       | 55.41       | 62.91       | 70.13       | 78.44       | 86.74       | 100.57      |
| 2.11                  | 38                    | 6.667             | 80           | 14.036            | 45.60                   | 49.74       | 52.51       | 59.41       | 68.80       | 73.77       | 81.22       | 88.39       | 96.66       | 104.94      | 118.72      |
| 2.12                  | 34                    | 5.965             | 72           | 12.632            | 47.29                   | 51.43       | 54.19       | 61.09       | 70.47       | 75.44       | 82.89       | 90.06       | 98.33       | 106.60      | 120.39      |
| 2.12                  | 68                    | 11.930            | 144          | 25.264            | 32.10                   | 36.31       | 39.12       | 46.09       | 55.54       | 60.54       | 68.02       | 75.22       | 83.51       | 91.81       | 105.62      |
| 2.13                  | 32                    | 5.614             | 68           | 11.930            | 48.13                   | 52.27       | 55.03       | 61.93       | 71.31       | 76.28       | 83.72       | 90.89       | 99.16       | 107.43      | 121.22      |
| 2.13                  | 30                    | 5.263             | 64           | 11.229            | 48.97                   | 53.10       | 55.87       | 62.76       | 72.14       | 77.11       | 84.55       | 91.72       | 99.99       | 108.27      | 122.05      |
| 2.14                  | 28                    | 4.912             | 60           | 10.527            | 49.81                   | 53.94       | 56.70       | 63.60       | 72.98       | 77.94       | 85.39       | 92.56       | 100.83      | 109.10      | 122.88      |
| 2.15                  | 52                    | 9.123             | 112          | 19.650            | 39.06                   | 43.22       | 46.00       | 52.92       | 62.33       | 67.32       | 74.78       | 81.96       | 90.24       | 98.52       | 112.32      |
| 2.21                  | 29                    | 5.088             | 64           | 11.229            | 49.10                   | 53.24       | 56.00       | 62.89       | 72.27       | 77.24       | 84.69       | 91.86       | 100.13      | 108.40      | 122.19      |
| 2.22                  | 36                    | 6.316             | 80           | 14.036            | 45.86                   | 50.01       | 52.77       | 59.68       | 69.06       | 74.03       | 81.48       | 88.66       | 96.93       | 105.20      | 118.99      |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>1.05</b>             | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

\* This length correction factor must be used to determine the proper belt width.

V-Drives  
FHP Drives  
Drive Component Accessories  
DYNA-SYNC  
HT200/HTD Synchronous Drives  
HT500 Synchronous Drives  
Roller Chain Sprockets



# SELECTION

## 14MM Pitch HT200 Belt Drive Selection Table

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 966-14M                 | 1190-14M    | 1400-14M    | 1610-14M    | 1778-14M    | 1890-14M    | 2100-14M    | 2310-14M    | 2450-14M    | 2590-14M    | 2800-14M    |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.80</b>             | <b>0.80</b> | <b>0.90</b> | <b>0.90</b> | <b>0.95</b> | <b>0.95</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.05</b> | <b>1.05</b> |
| 2.25                  | 32                    | 5.614             | 72           | 12.632            | ...                     | ...         | 12.74       | 17.00       | 20.37       | 22.60       | 26.78       | 30.94       | 33.72       | 36.49       | 40.64       |
| 2.25                  | 40                    | 7.018             | 90           | 15.790            | ...                     | ...         | ...         | 13.04       | 16.50       | 18.78       | 23.01       | 27.20       | 30.00       | 32.78       | 36.95       |
| 2.25                  | 64                    | 11.229            | 144          | 25.264            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 21.15       | 25.49       |
| 2.27                  | 30                    | 5.263             | 68           | 11.930            | ...                     | 9.32        | 13.65       | 17.88       | 21.23       | 23.46       | 27.64       | 31.79       | 34.57       | 37.33       | 41.48       |
| 2.29                  | 28                    | 4.912             | 64           | 11.229            | ...                     | 10.26       | 14.54       | 18.75       | 22.10       | 24.32       | 28.49       | 32.64       | 35.41       | 38.18       | 42.32       |
| 2.33                  | 48                    | 8.421             | 112          | 19.650            | ...                     | ...         | ...         | ...         | ...         | ...         | 18.43       | 22.73       | 25.56       | 28.38       | 32.59       |
| 2.33                  | 72                    | 12.632            | 168          | 29.475            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 2.35                  | 29                    | 5.088             | 68           | 11.930            | ...                     | 9.43        | 13.77       | 18.00       | 21.36       | 23.59       | 27.76       | 31.92       | 34.70       | 37.46       | 41.61       |
| 2.35                  | 34                    | 5.965             | 80           | 14.036            | ...                     | ...         | 11.11       | 15.46       | 18.86       | 21.11       | 25.31       | 29.48       | 32.27       | 35.04       | 39.20       |
| 2.37                  | 38                    | 6.667             | 90           | 15.790            | ...                     | ...         | ...         | 13.27       | 16.74       | 19.02       | 23.25       | 27.45       | 30.25       | 33.03       | 37.20       |
| 2.40                  | 30                    | 5.263             | 72           | 12.632            | ...                     | ...         | 12.98       | 17.25       | 20.62       | 22.85       | 27.03       | 31.20       | 33.98       | 36.75       | 40.90       |
| 2.40                  | 60                    | 10.527            | 144          | 25.264            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 18.64       | 21.61       | 25.96       |
| 2.40                  | 80                    | 14.036            | 192          | 33.686            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 2.43                  | 28                    | 4.912             | 68           | 11.930            | ...                     | 9.54        | 13.89       | 18.13       | 21.49       | 23.72       | 27.89       | 32.05       | 34.83       | 37.59       | 41.74       |
| 2.47                  | 68                    | 11.930            | 168          | 29.475            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 2.48                  | 29                    | 5.088             | 72           | 12.632            | ...                     | ...         | 13.10       | 17.37       | 20.74       | 22.98       | 27.16       | 31.33       | 34.10       | 36.87       | 41.03       |
| 2.50                  | 32                    | 5.614             | 80           | 14.036            | ...                     | ...         | 11.34       | 15.69       | 19.10       | 21.36       | 25.56       | 29.74       | 32.52       | 35.30       | 39.46       |
| 2.50                  | 36                    | 6.316             | 90           | 15.790            | ...                     | ...         | ...         | 13.49       | 16.97       | 19.26       | 23.50       | 27.70       | 30.50       | 33.29       | 37.46       |
| 2.55                  | 44                    | 7.720             | 112          | 19.650            | ...                     | ...         | ...         | ...         | ...         | 14.46       | 18.89       | 23.20       | 26.05       | 28.87       | 33.08       |
| 2.57                  | 28                    | 4.912             | 72           | 12.632            | ...                     | ...         | 13.21       | 17.49       | 20.86       | 23.10       | 27.29       | 31.45       | 34.23       | 37.00       | 41.16       |
| 2.57                  | 56                    | 9.825             | 144          | 25.264            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 19.09       | 22.06       | 26.43       |
| 2.63                  | 64                    | 11.229            | 168          | 29.475            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 21.15       |
| 2.65                  | 34                    | 5.965             | 90           | 15.790            | ...                     | ...         | ...         | 13.72       | 17.21       | 19.50       | 23.74       | 27.95       | 30.75       | 33.54       | 37.71       |
| 2.67                  | 30                    | 5.263             | 80           | 14.036            | ...                     | ...         | 11.56       | 15.93       | 19.34       | 21.60       | 25.81       | 29.99       | 32.78       | 35.56       | 39.72       |
| 2.67                  | 72                    | 12.632            | 192          | 33.686            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 2.70                  | 80                    | 14.036            | 216          | 37.896            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 2.76                  | 29                    | 5.088             | 80           | 14.036            | ...                     | ...         | 11.67       | 16.05       | 19.46       | 21.72       | 25.93       | 30.12       | 32.91       | 35.68       | 39.85       |
| 2.77                  | 52                    | 9.123             | 144          | 25.264            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 19.53       | 22.51       | 26.89       |
| 2.80                  | 40                    | 7.018             | 112          | 19.650            | ...                     | ...         | ...         | ...         | ...         | 14.90       | 19.36       | 23.68       | 26.53       | 29.36       | 33.58       |
| 2.80                  | 60                    | 10.527            | 168          | 29.475            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 21.59       |
| 2.81                  | 32                    | 5.614             | 90           | 15.790            | ...                     | ...         | ...         | 13.95       | 17.44       | 19.73       | 23.99       | 28.20       | 31.00       | 33.79       | 37.97       |
| 2.82                  | 68                    | 11.930            | 192          | 33.686            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 2.86                  | 28                    | 4.912             | 80           | 14.036            | ...                     | ...         | 11.78       | 16.17       | 19.58       | 21.85       | 26.06       | 30.24       | 33.03       | 35.81       | 39.98       |
| 2.95                  | 38                    | 6.667             | 112          | 19.650            | ...                     | ...         | ...         | ...         | ...         | 15.12       | 19.58       | 23.91       | 26.77       | 29.60       | 33.83       |
| 3.00                  | 30                    | 5.263             | 90           | 15.790            | ...                     | ...         | ...         | 14.17       | 17.68       | 19.97       | 24.23       | 28.45       | 31.25       | 34.04       | 38.22       |
| 3.00                  | 48                    | 8.421             | 144          | 25.264            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 19.97       | 22.97       | 27.36       |
| 3.00                  | 56                    | 9.825             | 168          | 29.475            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 22.02       |
| 3.00                  | 64                    | 11.229            | 192          | 33.686            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 3.00                  | 72                    | 12.632            | 216          | 37.896            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 3.10                  | 29                    | 5.088             | 90           | 15.790            | ...                     | ...         | ...         | 14.28       | 17.79       | 20.09       | 24.35       | 28.57       | 31.38       | 34.17       | 38.35       |
| 3.11                  | 36                    | 6.316             | 112          | 19.650            | ...                     | ...         | ...         | ...         | ...         | 15.34       | 19.81       | 24.15       | 27.01       | 29.84       | 34.07       |
| 3.20                  | 60                    | 10.527            | 192          | 33.686            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.80</b>             | <b>0.80</b> | <b>0.90</b> | <b>0.90</b> | <b>0.95</b> | <b>0.95</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.05</b> | <b>1.05</b> |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged.  
Large Sprocket should be ordered with flanges as a special.

\* This length correction factor must be used to determine the proper belt width.



## 14MM Pitch HT200 Belt Drive Selection Table

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 3150-14M                | 3360-14M    | 3500-14M    | 3850-14M    | 4326-14M    | 4578-14M    | 4956-14M    | 5320-14M    | 5740-14M    | 6160-14M    | 6860-14M    |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>1.05</b>             | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> |
| 2.25                  | 32                    | 5.614             | 72           | 12.632            | 47.55                   | 51.69       | 54.46       | 61.35       | 70.74       | 75.71       | 83.16       | 90.33       | 98.60       | 106.87      | 120.66      |
| 2.25                  | 40                    | 7.018             | 90           | 15.790            | 43.88                   | 48.03       | 50.80       | 57.70       | 67.10       | 72.07       | 79.53       | 86.70       | 94.98       | 103.25      | 117.04      |
| 2.25                  | 64                    | 11.229            | 144          | 25.264            | 32.59                   | 36.81       | 39.62       | 46.59       | 56.05       | 61.05       | 68.54       | 75.74       | 84.04       | 92.33       | 106.15      |
| 2.27                  | 30                    | 5.263             | 68           | 11.930            | 48.39                   | 52.53       | 55.30       | 62.19       | 71.57       | 76.54       | 83.99       | 91.16       | 99.43       | 107.71      | 121.49      |
| 2.29                  | 28                    | 4.912             | 64           | 11.229            | 49.23                   | 53.37       | 56.13       | 63.03       | 72.41       | 77.38       | 84.82       | 91.99       | 100.26      | 108.54      | 122.32      |
| 2.33                  | 48                    | 8.421             | 112          | 19.650            | 39.56                   | 43.73       | 46.51       | 53.44       | 62.86       | 67.84       | 75.30       | 82.49       | 90.77       | 99.05       | 112.85      |
| 2.33                  | 72                    | 12.632            | 168          | 29.475            | 27.65                   | 31.95       | 34.81       | 41.86       | 51.39       | 56.42       | 63.93       | 71.16       | 79.47       | 87.78       | 101.62      |
| 2.35                  | 29                    | 5.088             | 68           | 11.930            | 48.52                   | 52.66       | 55.43       | 62.33       | 71.71       | 76.68       | 84.12       | 91.29       | 99.57       | 107.84      | 121.63      |
| 2.35                  | 34                    | 5.965             | 80           | 14.036            | 46.12                   | 50.27       | 53.04       | 59.94       | 69.33       | 74.30       | 81.75       | 88.92       | 97.20       | 105.47      | 119.26      |
| 2.37                  | 38                    | 6.667             | 90           | 15.790            | 44.14                   | 48.29       | 51.06       | 57.97       | 67.36       | 72.34       | 79.79       | 86.97       | 95.24       | 103.52      | 117.31      |
| 2.40                  | 30                    | 5.263             | 72           | 12.632            | 47.81                   | 51.95       | 54.72       | 61.62       | 71.00       | 75.98       | 83.42       | 90.60       | 98.87       | 107.14      | 120.93      |
| 2.40                  | 60                    | 10.527            | 144          | 25.264            | 33.08                   | 37.30       | 40.11       | 47.10       | 56.56       | 61.57       | 69.06       | 76.26       | 84.56       | 92.86       | 106.68      |
| 2.40                  | 80                    | 14.036            | 192          | 33.686            | ---                     | 26.89       | 29.82       | 37.02       | 46.66       | 51.72       | 59.28       | 66.54       | 74.89       | 83.22       | 97.08       |
| 2.43                  | 28                    | 4.912             | 68           | 11.930            | 48.66                   | 52.80       | 55.56       | 62.46       | 71.84       | 76.81       | 84.26       | 91.43       | 99.70       | 107.98      | 121.76      |
| 2.47                  | 68                    | 11.930            | 168          | 29.475            | 28.11                   | 32.43       | 35.28       | 42.35       | 51.89       | 56.92       | 64.44       | 71.67       | 79.99       | 88.30       | 102.14      |
| 2.48                  | 29                    | 5.088             | 72           | 12.632            | 47.94                   | 52.09       | 54.85       | 61.75       | 71.14       | 76.11       | 83.56       | 90.73       | 99.00       | 107.28      | 121.06      |
| 2.50                  | 32                    | 5.614             | 80           | 14.036            | 46.39                   | 50.53       | 53.30       | 60.20       | 69.59       | 74.57       | 82.02       | 89.19       | 97.47       | 105.74      | 119.53      |
| 2.50                  | 36                    | 6.316             | 90           | 15.790            | 44.40                   | 48.55       | 51.32       | 58.23       | 67.63       | 72.60       | 80.06       | 87.23       | 95.51       | 103.79      | 117.58      |
| 2.55                  | 44                    | 7.720             | 112          | 19.650            | 40.07                   | 44.24       | 47.02       | 53.96       | 63.38       | 68.36       | 75.83       | 83.01       | 91.30       | 99.58       | 113.39      |
| 2.57                  | 28                    | 4.912             | 72           | 12.632            | 48.08                   | 52.22       | 54.99       | 61.89       | 71.27       | 76.24       | 83.69       | 90.86       | 99.14       | 107.41      | 121.20      |
| 2.57                  | 56                    | 9.825             | 144          | 25.264            | 33.56                   | 37.79       | 40.61       | 47.60       | 57.07       | 62.08       | 69.57       | 76.78       | 85.08       | 93.38       | 107.20      |
| 2.63                  | 64                    | 11.229            | 168          | 29.475            | 28.57                   | 32.90       | 35.76       | 42.84       | 52.39       | 57.42       | 64.95       | 72.18       | 80.50       | 88.82       | 102.67      |
| 2.65                  | 34                    | 5.965             | 90           | 15.790            | 44.65                   | 48.81       | 51.58       | 58.49       | 67.89       | 72.87       | 80.32       | 87.50       | 95.78       | 104.06      | 117.85      |
| 2.67                  | 30                    | 5.263             | 80           | 14.036            | 46.65                   | 50.79       | 53.56       | 60.47       | 69.86       | 74.83       | 82.29       | 89.46       | 97.73       | 106.01      | 119.80      |
| 2.67                  | 72                    | 12.632            | 192          | 33.686            | ---                     | 27.79       | 30.74       | 37.97       | 47.63       | 52.71       | 60.28       | 67.54       | 75.90       | 84.24       | 98.12       |
| 2.70                  | 80                    | 14.036            | 216          | 37.896            | ---                     | 22.16       | 25.32       | 32.85       | 42.73       | 47.86       | 55.51       | 62.82       | 72.23       | 79.60       | 93.51       |
| 2.76                  | 29                    | 5.088             | 80           | 14.036            | 46.78                   | 50.92       | 53.69       | 60.60       | 69.99       | 74.97       | 82.42       | 89.59       | 97.87       | 106.15      | 119.94      |
| 2.77                  | 52                    | 9.123             | 144          | 25.264            | 34.04                   | 38.28       | 41.10       | 48.10       | 57.58       | 62.59       | 70.09       | 77.30       | 85.60       | 93.91       | 107.73      |
| 2.80                  | 40                    | 7.018             | 112          | 19.650            | 40.57                   | 44.75       | 47.53       | 54.47       | 63.90       | 68.89       | 76.35       | 83.54       | 91.83       | 100.12      | 113.92      |
| 2.80                  | 60                    | 10.527            | 168          | 29.475            | 29.03                   | 33.37       | 36.24       | 43.33       | 52.89       | 57.93       | 65.46       | 72.69       | 81.02       | 89.34       | 103.19      |
| 2.81                  | 32                    | 5.614             | 90           | 15.790            | 44.91                   | 49.07       | 51.84       | 58.75       | 68.15       | 73.13       | 80.59       | 87.77       | 96.04       | 104.33      | 118.12      |
| 2.82                  | 68                    | 11.930            | 192          | 33.686            | 23.63                   | 28.19       | 31.15       | 38.41       | 48.09       | 53.18       | 60.76       | 68.03       | 76.39       | 84.73       | 98.61       |
| 2.86                  | 28                    | 4.912             | 80           | 14.036            | 46.91                   | 51.05       | 53.82       | 60.73       | 70.12       | 75.10       | 82.55       | 89.73       | 98.00       | 106.28      | 120.07      |
| 2.95                  | 38                    | 6.667             | 112          | 19.650            | 40.82                   | 45.00       | 47.79       | 54.73       | 64.16       | 69.15       | 76.62       | 83.80       | 92.09       | 100.38      | 114.19      |
| 3.00                  | 30                    | 5.263             | 90           | 15.790            | 45.17                   | 49.32       | 52.10       | 59.02       | 68.42       | 73.40       | 80.85       | 88.03       | 96.31       | 104.59      | 118.39      |
| 3.00                  | 48                    | 8.421             | 144          | 25.264            | 34.52                   | 38.77       | 41.59       | 48.60       | 58.09       | 63.10       | 70.60       | 77.81       | 86.12       | 94.43       | 108.26      |
| 3.00                  | 56                    | 9.825             | 168          | 29.475            | 29.49                   | 33.84       | 36.71       | 43.81       | 53.38       | 58.43       | 65.96       | 73.20       | 81.53       | 89.86       | 103.71      |
| 3.00                  | 64                    | 11.229            | 192          | 33.686            | 24.14                   | 28.69       | 31.65       | 38.91       | 48.60       | 53.69       | 61.27       | 68.55       | 76.91       | 85.26       | 99.15       |
| 3.00                  | 72                    | 12.632            | 216          | 37.896            | ---                     | 23.01       | 26.19       | 33.76       | 43.67       | 48.82       | 56.48       | 63.81       | 72.22       | 80.61       | 94.53       |
| 3.10                  | 29                    | 5.088             | 90           | 15.790            | 45.30                   | 49.45       | 52.23       | 59.15       | 68.55       | 73.53       | 80.99       | 88.17       | 96.44       | 104.73      | 118.52      |
| 3.11                  | 36                    | 6.316             | 112          | 19.650            | 41.07                   | 45.25       | 48.04       | 54.99       | 64.42       | 69.41       | 76.88       | 84.07       | 92.36       | 100.65      | 114.45      |
| 3.20                  | 60                    | 10.527            | 192          | 33.686            | 24.49                   | 29.08       | 32.06       | 39.34       | 49.06       | 54.15       | 61.75       | 69.03       | 77.40       | 85.75       | 99.64       |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>1.05</b>             | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged.  
 Large Sprocket should be ordered with flanges as a special.

\* This length correction factor must be used to determine the proper belt width.





# SELECTION

## 14MM Pitch HT200 Belt Drive Selection Table

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 966-14M                 | 1190-14M    | 1400-14M    | 1610-14M    | 1778-14M    | 1890-14M    | 2100-14M    | 2310-14M    | 2450-14M    | 2590-14M    | 2800-14M    |
|                       | No. Of Teeth          | Pitch Dia. Inches | No. Of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.80</b>             | <b>0.80</b> | <b>0.90</b> | <b>0.90</b> | <b>0.95</b> | <b>0.95</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.05</b> | <b>1.05</b> |
| 3.21                  | 28                    | 4.912             | 90           | 15.790            | ...                     | ...         | ...         | 14.40       | 17.91       | 20.21       | 24.47       | 28.69       | 31.50       | 34.29       | 38.48       |
| 3.23                  | 52                    | 9.123             | 168          | 29.475            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 22.46       |
| 3.27                  | 44                    | 7.720             | 144          | 25.264            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | 17.29       | 20.41       | 23.42       | 27.82       |
| 3.29                  | 34                    | 5.965             | 112          | 19.650            | ...                     | ...         | ...         | ...         | ...         | 15.56       | 20.04       | 24.39       | 27.25       | 30.09       | 34.32       |
| 3.38                  | 64                    | 11.229            | 216          | 37.896            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 3.43                  | 56                    | 9.825             | 192          | 33.686            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 3.50                  | 32                    | 5.614             | 112          | 19.650            | ...                     | ...         | ...         | ...         | 13.25       | 15.77       | 20.27       | 24.62       | 27.49       | 30.33       | 34.56       |
| 3.50                  | 48                    | 8.421             | 168          | 29.475            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 22.89       |
| 3.60                  | 40                    | 7.018             | 144          | 25.264            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | 17.71       | 20.85       | 23.86       | 28.28       |
| 3.69                  | 52                    | 9.123             | 192          | 33.686            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 3.73                  | 30                    | 5.263             | 112          | 19.650            | ...                     | ...         | ...         | ...         | 13.46       | 15.99       | 20.50       | 24.85       | 27.72       | 30.57       | 34.81       |
| 3.79                  | 38                    | 6.667             | 144          | 25.264            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | 17.92       | 21.06       | 24.09       | 28.51       |
| 3.82                  | 44                    | 7.720             | 168          | 29.475            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 23.32       |
| 3.86                  | 29                    | 5.088             | 112          | 19.650            | ...                     | ...         | ...         | ...         | 13.57       | 16.10       | 20.61       | 24.97       | 27.84       | 30.69       | 34.93       |
| 3.86                  | 56                    | 9.825             | 216          | 37.896            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 4.00                  | 28                    | 4.912             | 112          | 19.650            | ...                     | ...         | ...         | ...         | 13.67       | 16.21       | 20.72       | 25.09       | 27.96       | 30.81       | 35.05       |
| 4.00                  | 36                    | 6.316             | 144          | 25.264            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | 18.13       | 21.28       | 24.31       | 28.74       |
| 4.00                  | 48                    | 8.421             | 192          | 33.686            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 4.20                  | 40                    | 7.018             | 168          | 29.475            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 18.87       | 23.75       |
| 4.24                  | 34                    | 5.965             | 144          | 25.264            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | 18.34       | 21.50       | 24.53       | 28.97       |
| 4.36                  | 44                    | 7.720             | 192          | 33.686            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 4.42                  | 38                    | 6.667             | 168          | 29.475            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 19.08       | 23.97       |
| 4.50                  | 32                    | 5.614             | 144          | 25.264            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | 18.55       | 21.72       | 24.76       | 29.20       |
| 4.50                  | 48                    | 8.421             | 216          | 37.896            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 4.67                  | 36                    | 6.316             | 168          | 29.475            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 19.28       | 24.18       |
| 4.80                  | 30                    | 5.263             | 144          | 25.264            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | 18.76       | 21.93       | 24.98       | 29.43       |
| 4.80                  | 40                    | 7.018             | 192          | 33.686            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 4.91                  | 44                    | 7.720             | 216          | 37.896            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 4.94                  | 34                    | 5.965             | 168          | 29.475            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 19.48       | 24.39       |
| 4.97                  | 29                    | 5.088             | 144          | 25.264            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | 18.86       | 22.04       | 25.09       | 29.54       |
| 5.05                  | 38                    | 6.667             | 192          | 33.686            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 5.14                  | 28                    | 4.912             | 144          | 25.264            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | 18.97       | 22.15       | 25.20       | 29.66       |
| 5.25                  | 32                    | 5.614             | 168          | 29.475            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 19.69       | 24.61       |
| 5.33                  | 36                    | 6.316             | 192          | 33.686            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 5.40                  | 40                    | 7.018             | 216          | 37.896            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 5.60                  | 30                    | 5.263             | 168          | 29.475            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 19.89       | 24.82       |
| 5.65                  | 34                    | 5.965             | 192          | 33.686            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 5.65                  | 38                    | 6.667             | 216          | 37.896            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 5.79                  | 29                    | 5.088             | 168          | 29.475            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 19.99       | 24.93       |
| 6.00                  | 28                    | 4.912             | 168          | 29.475            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | 20.09       | 25.03       |
| 6.00                  | 32                    | 5.614             | 192          | 33.686            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 6.00                  | 36                    | 6.316             | 216          | 37.896            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 6.35                  | 34                    | 5.965             | 216          | 37.896            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 6.40                  | 30                    | 5.263             | 192          | 33.686            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 6.62                  | 29                    | 5.088             | 192          | 33.686            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 6.75                  | 32                    | 5.614             | 216          | 37.896            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| 6.86                  | 28                    | 4.912             | 192          | 33.686            | ...                     | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         | ...         |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.80</b>             | <b>0.80</b> | <b>0.90</b> | <b>0.90</b> | <b>0.95</b> | <b>0.95</b> | <b>1.00</b> | <b>1.00</b> | <b>1.00</b> | <b>1.05</b> | <b>1.05</b> |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged.  
Large Sprocket should be ordered with flanges as a special.

\* This length correction factor must be used to determine the proper belt width.

|                                  |                               |                                       |  |
|----------------------------------|-------------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SPECIFICATIONS<br>PAGE PT11-4 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|-------------------------------|---------------------------------------|--|



## 14MM Pitch HT200 Belt Drive Selection Table

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 3150-14M                | 3360-14M    | 3500-14M    | 3850-14M    | 4326-14M    | 4578-14M    | 4956-14M    | 5320-14M    | 5740-14M    | 6160-14M    | 6860-14M    |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>1.05</b>             | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> |
| 3.21                  | 28                    | 4.912             | 90           | 15.790            | 45.42                   | 49.58       | 52.36       | 59.28       | 68.68       | 73.66       | 81.12       | 88.30       | 96.58       | 104.86      | 118.66      |
| 3.23                  | 52                    | 9.123             | 168          | 29.475            | 29.95                   | 34.30       | 37.18       | 44.30       | 53.88       | 58.92       | 66.46       | 73.71       | 82.04       | 90.37       | 104.23      |
| 3.27                  | 44                    | 7.720             | 144          | 25.264            | 35.00                   | 39.25       | 42.08       | 49.09       | 58.59       | 63.61       | 71.11       | 78.33       | 86.64       | 94.95       | 108.78      |
| 3.29                  | 34                    | 5.965             | 112          | 19.650            | 41.32                   | 45.51       | 48.30       | 55.24       | 64.67       | 69.67       | 77.14       | 84.33       | 92.62       | 100.91      | 114.72      |
| 3.38                  | 64                    | 11.229            | 216          | 37.896            | ---                     | 23.85       | 27.05       | 34.66       | 44.60       | 49.77       | 57.45       | 64.79       | 73.21       | 81.61       | 95.55       |
| 3.43                  | 56                    | 9.825             | 192          | 33.686            | 25.01                   | 29.58       | 32.56       | 39.85       | 49.57       | 54.66       | 62.26       | 69.55       | 77.92       | 86.28       | 100.17      |
| 3.50                  | 32                    | 5.614             | 112          | 19.650            | 41.57                   | 45.76       | 48.55       | 55.50       | 64.93       | 69.93       | 77.40       | 84.59       | 92.88       | 101.17      | 114.98      |
| 3.50                  | 48                    | 8.421             | 168          | 29.475            | 30.41                   | 34.77       | 37.66       | 44.78       | 54.37       | 59.42       | 66.97       | 74.21       | 82.55       | 90.89       | 104.75      |
| 3.60                  | 40                    | 7.018             | 144          | 25.264            | 35.48                   | 39.73       | 42.56       | 49.59       | 59.10       | 64.12       | 71.62       | 78.84       | 87.16       | 95.47       | 109.30      |
| 3.69                  | 52                    | 9.123             | 192          | 33.686            | 25.35                   | 29.96       | 32.96       | 40.28       | 50.02       | 55.12       | 62.73       | 70.02       | 78.40       | 86.77       | 100.67      |
| 3.73                  | 30                    | 5.263             | 112          | 19.650            | 41.82                   | 46.01       | 48.80       | 55.75       | 65.19       | 70.18       | 77.66       | 84.85       | 93.15       | 101.44      | 115.25      |
| 3.79                  | 38                    | 6.667             | 144          | 25.264            | 35.71                   | 39.98       | 42.81       | 49.84       | 59.35       | 64.37       | 71.88       | 79.10       | 87.42       | 95.73       | 109.57      |
| 3.82                  | 44                    | 7.720             | 168          | 29.475            | 30.86                   | 35.23       | 38.12       | 45.26       | 54.86       | 59.92       | 67.47       | 74.72       | 83.06       | 91.40       | 105.26      |
| 3.86                  | 29                    | 5.088             | 112          | 19.650            | 41.95                   | 46.14       | 48.93       | 55.88       | 65.32       | 70.31       | 77.79       | 84.98       | 93.28       | 101.57      | 115.38      |
| 3.86                  | 56                    | 9.825             | 216          | 37.896            | ---                     | 24.69       | 27.91       | 35.56       | 45.53       | 50.71       | 58.41       | 65.77       | 74.20       | 82.61       | 96.56       |
| 4.00                  | 28                    | 4.912             | 112          | 19.650            | 42.07                   | 46.26       | 49.05       | 56.01       | 65.45       | 70.44       | 77.92       | 85.11       | 93.41       | 101.70      | 115.51      |
| 4.00                  | 36                    | 6.316             | 144          | 25.264            | 35.95                   | 40.22       | 43.05       | 50.08       | 59.60       | 64.62       | 72.13       | 79.36       | 87.67       | 95.99       | 109.83      |
| 4.00                  | 48                    | 8.421             | 192          | 33.686            | 25.87                   | 30.47       | 33.46       | 40.78       | 50.52       | 55.63       | 63.24       | 70.54       | 78.93       | 87.29       | 101.20      |
| 4.20                  | 40                    | 7.018             | 168          | 29.475            | 31.31                   | 35.70       | 38.59       | 45.74       | 55.35       | 60.41       | 67.97       | 75.22       | 83.57       | 91.91       | 105.78      |
| 4.24                  | 34                    | 5.965             | 144          | 25.264            | 36.19                   | 40.46       | 43.29       | 50.33       | 59.85       | 64.87       | 72.39       | 79.61       | 87.93       | 96.25       | 110.09      |
| 4.36                  | 44                    | 7.720             | 192          | 33.686            | 26.30                   | 30.91       | 33.91       | 41.24       | 51.00       | 56.11       | 63.73       | 71.03       | 79.43       | 87.80       | 101.71      |
| 4.42                  | 38                    | 6.667             | 168          | 29.475            | 31.54                   | 35.93       | 38.83       | 45.98       | 55.60       | 60.66       | 68.22       | 75.48       | 83.83       | 92.17       | 106.04      |
| 4.50                  | 32                    | 5.614             | 144          | 25.264            | 36.43                   | 40.70       | 43.54       | 50.58       | 60.10       | 65.13       | 72.64       | 79.87       | 88.19       | 96.51       | 110.35      |
| 4.50                  | 48                    | 8.421             | 216          | 37.896            | ---                     | 25.53       | 28.76       | 36.45       | 46.46       | 51.66       | 59.37       | 66.74       | 75.19       | 83.60       | 97.57       |
| 4.67                  | 36                    | 6.316             | 168          | 29.475            | 31.76                   | 36.16       | 39.06       | 46.22       | 55.84       | 60.91       | 68.47       | 75.73       | 84.08       | 92.42       | 106.30      |
| 4.80                  | 30                    | 5.263             | 144          | 25.264            | 36.66                   | 40.94       | 43.78       | 50.82       | 60.35       | 65.38       | 72.90       | 80.12       | 88.45       | 96.77       | 110.61      |
| 4.80                  | 40                    | 7.018             | 192          | 33.686            | 26.73                   | 31.35       | 34.36       | 41.70       | 51.48       | 56.60       | 64.22       | 71.53       | 79.93       | 88.30       | 102.22      |
| 4.91                  | 44                    | 7.720             | 216          | 37.896            | ---                     | 25.95       | 29.19       | 36.89       | 46.92       | 52.13       | 59.85       | 67.22       | 75.68       | 84.10       | 98.07       |
| 4.94                  | 34                    | 5.965             | 168          | 29.475            | 31.99                   | 36.39       | 39.29       | 46.46       | 56.08       | 61.15       | 68.72       | 75.98       | 84.33       | 92.68       | 106.56      |
| 4.97                  | 29                    | 5.088             | 144          | 25.264            | 36.78                   | 41.06       | 43.90       | 50.94       | 60.47       | 65.50       | 73.02       | 80.25       | 88.58       | 96.90       | 110.74      |
| 5.05                  | 38                    | 6.667             | 192          | 33.686            | 26.94                   | 31.57       | 34.58       | 41.93       | 51.72       | 56.84       | 64.47       | 71.78       | 80.18       | 88.55       | 102.47      |
| 5.14                  | 28                    | 4.912             | 144          | 25.264            | 36.90                   | 41.18       | 44.02       | 51.07       | 60.60       | 65.63       | 73.15       | 80.38       | 88.71       | 97.03       | 110.87      |
| 5.25                  | 32                    | 5.614             | 168          | 29.475            | 32.22                   | 36.62       | 39.53       | 46.69       | 56.33       | 61.40       | 68.97       | 76.23       | 84.59       | 92.93       | 106.81      |
| 5.33                  | 36                    | 6.316             | 192          | 33.686            | 27.16                   | 31.80       | 34.81       | 42.17       | 51.95       | 57.08       | 64.71       | 72.02       | 80.43       | 88.80       | 102.73      |
| 5.40                  | 40                    | 7.018             | 216          | 37.896            | ---                     | 26.36       | 29.62       | 37.34       | 47.38       | 52.59       | 60.33       | 67.71       | 76.17       | 84.59       | 98.57       |
| 5.60                  | 30                    | 5.263             | 168          | 29.475            | 32.44                   | 36.85       | 39.76       | 46.93       | 56.57       | 61.64       | 69.22       | 76.48       | 84.84       | 93.19       | 107.07      |
| 5.65                  | 34                    | 5.965             | 192          | 33.686            | 27.26                   | 31.94       | 34.97       | 42.35       | 52.16       | 57.29       | 64.93       | 72.25       | 80.65       | 89.04       | 102.96      |
| 5.65                  | 38                    | 6.667             | 216          | 37.896            | ---                     | 26.57       | 29.83       | 37.56       | 47.61       | 52.83       | 60.56       | 67.95       | 76.41       | 84.84       | 98.82       |
| 5.79                  | 29                    | 5.088             | 168          | 29.475            | 32.55                   | 36.96       | 39.87       | 47.05       | 56.69       | 61.77       | 69.34       | 76.61       | 84.97       | 93.32       | 107.20      |
| 6.00                  | 28                    | 4.912             | 168          | 29.475            | 32.67                   | 37.08       | 39.99       | 47.17       | 56.81       | 61.89       | 69.46       | 76.73       | 85.09       | 93.44       | 107.33      |
| 6.00                  | 32                    | 5.614             | 192          | 33.686            | 27.59                   | 32.24       | 35.25       | 42.63       | 52.43       | 57.56       | 65.20       | 72.52       | 80.92       | 89.31       | 103.23      |
| 6.00                  | 36                    | 6.316             | 216          | 37.896            | ---                     | 26.78       | 30.04       | 37.78       | 47.85       | 53.06       | 60.80       | 68.19       | 76.66       | 85.09       | 99.07       |
| 6.35                  | 34                    | 5.965             | 216          | 37.896            | ---                     | 26.99       | 30.25       | 38.00       | 48.08       | 53.30       | 61.04       | 68.43       | 76.90       | 85.33       | 99.32       |
| 6.40                  | 30                    | 5.263             | 192          | 33.686            | 27.80                   | 32.46       | 35.48       | 42.86       | 52.67       | 57.80       | 65.44       | 72.76       | 81.17       | 89.56       | 103.49      |
| 6.62                  | 29                    | 5.088             | 192          | 33.686            | 27.79                   | 32.49       | 35.53       | 42.93       | 52.75       | 57.89       | 65.54       | 72.86       | 81.28       | 89.66       | 103.60      |
| 6.75                  | 32                    | 5.614             | 216          | 37.896            | ---                     | 27.20       | 30.47       | 38.22       | 48.30       | 53.53       | 61.28       | 68.67       | 77.15       | 85.58       | 99.58       |
| 6.86                  | 28                    | 4.912             | 192          | 33.686            | 28.01                   | 32.67       | 35.70       | 43.09       | 52.90       | 58.04       | 65.68       | 73.01       | 81.42       | 89.81       | 103.74      |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>1.05</b>             | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> | <b>1.10</b> |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged.  
 Large Sprocket should be ordered with flanges as a special.

\* This length correction factor must be used to determine the proper belt width.



# SELECTION

## 20MM Ratio/Center Distance Tables

| Drive Ratio                 | Sprocket Combination |            |              |            | Nominal Center Distance      |            |             |            |      |      |      |             |       |            |       |
|-----------------------------|----------------------|------------|--------------|------------|------------------------------|------------|-------------|------------|------|------|------|-------------|-------|------------|-------|
|                             | Driver               |            | Driven       |            | Belt Length Code Designation |            |             |            |      |      |      |             |       |            |       |
|                             | No. Of Teeth         | Pitch Dia. | No. Of Teeth | Pitch Dia. | 2000                         | 2500       | 3400        | 3800       | 4200 | 4600 | 5000 | 5400        | 5800  | 6200       | 6600  |
|                             | Belt Length Factor → |            |              |            | 0.8                          | 0.9        | 0.95        | 1.0        |      |      |      | 1.05        |       | 1.1        |       |
| 1.00                        | 34                   | 8.522      | 34           | 8.522      | 26.0                         | 35.8       | 53.6        | 61.4       | 69.3 | 77.2 | 85.0 | 92.9        | 100.8 | 108.7      | 116.5 |
| 1.00                        | 36                   | 9.023      | 36           | 9.023      | 25.2                         | 35.0       | 52.8        | 60.6       | 68.5 | 76.4 | 84.3 | 92.1        | 100.0 | 107.9      | 115.8 |
| 1.00                        | 38                   | 9.524      | 38           | 9.524      | 24.4                         | 34.3       | 52.0        | 59.9       | 67.7 | 75.6 | 83.5 | 91.3        | 99.2  | 107.1      | 115.0 |
| 1.00                        | 40                   | 10.026     | 40           | 10.026     | 23.6                         | 33.5       | 51.2        | 59.1       | 66.9 | 74.8 | 82.7 | 90.6        | 98.4  | 106.3      | 114.2 |
| 1.00                        | 44                   | 11.028     | 44           | 11.028     | 22.1                         | 31.9       | 49.6        | 57.5       | 65.4 | 73.2 | 81.1 | 89.0        | 96.9  | 104.7      | 112.6 |
| 1.00                        | 48                   | 12.031     | 48           | 12.031     | 20.5                         | 30.3       | 48.0        | 55.9       | 63.8 | 71.7 | 79.5 | 87.4        | 95.3  | 103.2      | 111.0 |
| 1.00                        | 52                   | 13.033     | 52           | 13.033     | 18.9                         | 28.8       | 46.5        | 54.3       | 62.2 | 70.1 | 78.0 | 85.8        | 93.7  | 101.6      | 109.5 |
| 1.00                        | 56                   | 14.036     | 56           | 14.036     | 17.3                         | 27.2       | 44.9        | 52.8       | 60.6 | 68.5 | 76.4 | 84.3        | 92.1  | 100.0      | 107.9 |
| 1.00                        | 60                   | 15.038     | 60           | 15.038     | ...                          | 25.6       | 43.3        | 51.2       | 59.1 | 66.9 | 74.8 | 82.7        | 90.6  | 98.4       | 106.3 |
| 1.00                        | 64                   | 16.041     | 64           | 16.041     | ...                          | 24.0       | 41.7        | 49.6       | 57.5 | 65.4 | 73.2 | 81.1        | 89.0  | 96.9       | 104.7 |
| 1.00                        | 68                   | 17.043     | 68           | 17.043     | ...                          | 22.5       | 40.2        | 48.0       | 55.9 | 63.8 | 71.7 | 79.5        | 87.4  | 95.3       | 103.2 |
| 1.00                        | 72                   | 18.046     | 72           | 18.046     | ...                          | 20.9       | 38.6        | 46.5       | 54.3 | 62.2 | 70.1 | 78.0        | 85.8  | 93.7       | 101.6 |
| 1.00                        | 80                   | 20.051     | 80           | 20.051     | ...                          | ...        | 35.4        | 43.3       | 51.2 | 59.1 | 66.9 | 74.8        | 82.7  | 90.6       | 98.4  |
| 1.00                        | 90                   | 22.557     | 90           | 22.557     | ...                          | ...        | 31.5        | 39.4       | 47.3 | 55.1 | 63.0 | 70.9        | 78.8  | 86.6       | 94.5  |
| 1.05                        | 38                   | 9.524      | 40           | 10.026     | 24.0                         | 33.9       | 51.6        | 59.5       | 67.3 | 75.2 | 83.1 | 91.0        | 98.8  | 106.7      | 114.6 |
| 1.06                        | 36                   | 9.023      | 38           | 9.524      | 24.8                         | 34.7       | 52.4        | 60.2       | 68.1 | 76.0 | 83.9 | 91.7        | 99.6  | 107.5      | 115.4 |
| 1.06                        | 34                   | 8.522      | 36           | 9.023      | 25.6                         | 35.4       | 53.2        | 61.0       | 68.9 | 76.8 | 84.7 | 92.5        | 100.4 | 108.3      | 116.1 |
| 1.06                        | 68                   | 17.043     | 72           | 18.046     | ...                          | 21.7       | 39.4        | 47.3       | 55.1 | 63.0 | 70.9 | 78.8        | 86.6  | 94.5       | 102.4 |
| 1.06                        | 64                   | 16.041     | 68           | 17.043     | ...                          | 23.2       | 41.0        | 48.8       | 56.7 | 64.6 | 72.5 | 80.3        | 88.2  | 96.1       | 103.9 |
| 1.07                        | 60                   | 15.038     | 64           | 16.041     | ...                          | 24.8       | 42.5        | 50.4       | 58.3 | 66.2 | 74.0 | 81.9        | 89.8  | 97.6       | 105.5 |
| 1.07                        | 56                   | 14.036     | 60           | 15.038     | 16.5                         | 26.4       | 44.1        | 52.0       | 59.9 | 67.7 | 75.6 | 83.5        | 91.3  | 99.2       | 107.1 |
| 1.08                        | 52                   | 13.033     | 56           | 14.036     | 18.1                         | 28.0       | 45.7        | 53.6       | 61.4 | 69.3 | 77.2 | 85.0        | 92.9  | 100.8      | 108.7 |
| 1.08                        | 48                   | 12.031     | 52           | 13.033     | 19.7                         | 29.5       | 47.3        | 55.1       | 63.0 | 70.9 | 78.7 | 86.6        | 94.5  | 102.4      | 110.2 |
| 1.09                        | 44                   | 11.028     | 48           | 12.031     | 21.3                         | 31.1       | 48.8        | 56.7       | 64.6 | 72.4 | 80.3 | 88.2        | 96.1  | 103.9      | 111.8 |
| 1.10                        | 40                   | 10.026     | 44           | 11.028     | 22.8                         | 32.7       | 50.4        | 58.3       | 66.1 | 74.0 | 81.9 | 89.8        | 97.6  | 105.5      | 113.4 |
| 1.11                        | 36                   | 9.023      | 40           | 10.026     | 24.4                         | 34.3       | 52.0        | 59.8       | 67.7 | 75.6 | 83.5 | 91.3        | 99.2  | 107.1      | 115.0 |
| 1.11                        | 72                   | 18.046     | 80           | 20.051     | ...                          | ...        | 37.0        | 44.9       | 52.8 | 60.6 | 68.5 | 76.4        | 84.3  | 92.1       | 100.0 |
| 1.12                        | 34                   | 8.522      | 38           | 9.524      | 25.2                         | 35.0       | 52.8        | 60.6       | 68.5 | 76.4 | 84.3 | 92.1        | 100.0 | 107.9      | 115.8 |
| 1.13                        | 64                   | 16.041     | 72           | 18.046     | ...                          | 22.4       | 40.2        | 48.0       | 55.9 | 63.8 | 71.7 | 79.5        | 87.4  | 95.3       | 103.2 |
| 1.13                        | 80                   | 20.051     | 90           | 22.557     | ...                          | ...        | 33.5        | 41.3       | 49.2 | 57.1 | 65.0 | 72.8        | 80.7  | 88.6       | 96.5  |
| 1.13                        | 60                   | 15.038     | 68           | 17.043     | ...                          | 24.0       | 41.7        | 49.6       | 57.5 | 65.4 | 73.2 | 81.1        | 89.0  | 96.9       | 104.7 |
| 1.14                        | 56                   | 14.036     | 64           | 16.041     | ...                          | 25.6       | 43.3        | 51.2       | 59.1 | 66.9 | 74.8 | 82.7        | 90.6  | 98.4       | 106.3 |
| 1.15                        | 52                   | 13.033     | 60           | 15.038     | 17.3                         | 27.2       | 44.9        | 52.8       | 60.6 | 68.5 | 76.4 | 84.3        | 92.1  | 100.0      | 107.9 |
| 1.16                        | 38                   | 9.524      | 44           | 11.028     | 23.2                         | 33.1       | 50.8        | 58.7       | 66.5 | 74.4 | 82.3 | 90.2        | 98.0  | 105.9      | 113.8 |
| 1.17                        | 48                   | 12.031     | 56           | 14.036     | 18.9                         | 28.7       | 46.5        | 54.3       | 62.2 | 70.1 | 78.0 | 85.8        | 93.7  | 101.6      | 109.5 |
| 1.18                        | 34                   | 8.522      | 40           | 10.026     | 24.8                         | 34.6       | 52.4        | 60.2       | 68.1 | 76.0 | 83.9 | 91.7        | 99.6  | 107.5      | 115.4 |
| 1.18                        | 68                   | 17.043     | 80           | 20.051     | ...                          | ...        | 37.8        | 45.7       | 53.5 | 61.4 | 69.3 | 77.2        | 85.0  | 92.9       | 100.8 |
| 1.18                        | 44                   | 11.028     | 52           | 13.033     | 20.5                         | 30.3       | 48.0        | 55.9       | 63.8 | 71.7 | 79.5 | 87.4        | 95.3  | 103.2      | 111.0 |
| 1.20                        | 40                   | 10.026     | 48           | 12.031     | 22.0                         | 31.9       | 49.6        | 57.5       | 65.4 | 73.2 | 81.1 | 89.0        | 96.9  | 104.7      | 112.6 |
| 1.20                        | 60                   | 15.038     | 72           | 18.046     | ...                          | 23.2       | 40.9        | 48.8       | 56.7 | 64.6 | 72.4 | 80.3        | 88.2  | 96.1       | 103.9 |
| 1.21                        | 56                   | 14.036     | 68           | 17.043     | ...                          | 24.8       | 42.5        | 50.4       | 58.3 | 66.1 | 74.0 | 81.9        | 89.8  | 97.6       | 105.5 |
| 1.22                        | 36                   | 9.023      | 44           | 11.028     | 23.6                         | 33.5       | 51.2        | 59.1       | 66.9 | 74.8 | 82.7 | 90.6        | 98.4  | 106.3      | 114.2 |
| 1.23                        | 52                   | 13.033     | 64           | 16.041     | ...                          | 26.3       | 44.1        | 52.0       | 59.8 | 67.7 | 75.6 | 83.5        | 91.3  | 99.2       | 107.1 |
| 1.24                        | 90                   | 22.557     | 112          | 28.072     | ...                          | ...        | ...         | 34.9       | 42.8 | 50.7 | 58.6 | 66.5        | 74.4  | 82.3       | 90.1  |
| 1.25                        | 48                   | 12.031     | 60           | 15.038     | 18.1                         | 27.9       | 45.7        | 53.5       | 61.4 | 69.3 | 77.2 | 85.0        | 92.9  | 100.8      | 108.7 |
| 1.25                        | 64                   | 16.041     | 80           | 20.051     | ...                          | 20.8       | 38.5        | 46.4       | 54.3 | 62.2 | 70.1 | 77.9        | 85.8  | 93.7       | 101.6 |
| 1.25                        | 72                   | 18.046     | 90           | 22.557     | ...                          | ...        | 35.0        | 42.9       | 50.7 | 58.6 | 66.5 | 74.4        | 82.3  | 90.1       | 98.0  |
| 1.26                        | 38                   | 9.524      | 48           | 12.031     | 22.4                         | 32.3       | 50.0        | 57.9       | 65.7 | 73.6 | 81.5 | 89.4        | 97.2  | 105.1      | 113.0 |
| 1.27                        | 44                   | 11.028     | 56           | 14.036     | 19.6                         | 29.5       | 47.2        | 55.1       | 63.0 | 70.9 | 78.7 | 86.6        | 94.5  | 102.4      | 110.2 |
| 1.29                        | 56                   | 14.036     | 72           | 18.046     | ...                          | 23.9       | 41.7        | 49.6       | 57.5 | 65.3 | 73.2 | 81.1        | 89.0  | 96.8       | 104.7 |
| <b>Belt Length Factor →</b> |                      |            |              |            | <b>0.8</b>                   | <b>0.9</b> | <b>0.95</b> | <b>1.0</b> |      |      |      | <b>1.05</b> |       | <b>1.1</b> |       |

**NOTES:** All 20MM HTD Drives operating above 1000 RPM may require a sound dampening guard.  
Belt lengths of 5200, 5600, 6000, and 6400 are also available. Interpolate center distance.

|                                  |                               |                                       |  |
|----------------------------------|-------------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SPECIFICATIONS<br>PAGE PT11-4 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|-------------------------------|---------------------------------------|--|

# SELECTION



## 20MM Ratio/Center Distance Tables

| Drive Ratio                 | Sprocket Combination |            |              |            | Nominal Center Distance      |            |             |            |      |      |             |      |            |       |       |
|-----------------------------|----------------------|------------|--------------|------------|------------------------------|------------|-------------|------------|------|------|-------------|------|------------|-------|-------|
|                             | Driver               |            | Driven       |            | Belt Length Code Designation |            |             |            |      |      |             |      |            |       |       |
|                             | No. Of Teeth         | Pitch Dia. | No. Of Teeth | Pitch Dia. | 2000                         | 2500       | 3400        | 3800       | 4200 | 4600 | 5000        | 5400 | 5800       | 6200  | 6600  |
|                             | Belt Length Factor → |            |              |            | 0.8                          | 0.9        | 0.95        | 1.0        |      |      | 1.05        |      | 1.1        |       |       |
| 1.29                        | 34                   | 8.522      | 44           | 11.028     | 24.0                         | 33.8       | 51.6        | 59.4       | 67.3 | 75.2 | 83.1        | 90.9 | 98.8       | 106.7 | 114.6 |
| 1.30                        | 40                   | 10.026     | 52           | 13.033     | 21.2                         | 31.1       | 48.8        | 56.7       | 64.6 | 72.4 | 80.3        | 88.2 | 96.1       | 103.9 | 111.8 |
| 1.31                        | 52                   | 13.033     | 68           | 17.043     | ...                          | 25.5       | 43.3        | 51.2       | 59.0 | 66.9 | 74.8        | 82.7 | 90.5       | 98.4  | 106.3 |
| 1.32                        | 68                   | 17.043     | 90           | 22.557     | ...                          | ...        | 35.7        | 43.6       | 51.5 | 59.4 | 67.3        | 75.2 | 83.0       | 90.9  | 98.8  |
| 1.33                        | 36                   | 9.023      | 48           | 12.031     | 22.8                         | 32.6       | 50.4        | 58.3       | 66.1 | 74.0 | 81.9        | 89.8 | 97.6       | 105.5 | 113.4 |
| 1.33                        | 48                   | 12.031     | 64           | 16.041     | 17.2                         | 27.1       | 44.8        | 52.7       | 60.6 | 68.5 | 76.4        | 84.2 | 92.1       | 100.0 | 107.9 |
| 1.33                        | 60                   | 15.038     | 80           | 20.051     | ...                          | 21.5       | 39.3        | 47.2       | 55.1 | 63.0 | 70.8        | 78.7 | 86.6       | 94.5  | 102.3 |
| 1.36                        | 44                   | 11.028     | 60           | 15.038     | 18.8                         | 28.7       | 46.4        | 54.3       | 62.2 | 70.1 | 77.9        | 85.8 | 93.7       | 101.6 | 109.4 |
| 1.37                        | 38                   | 9.524      | 52           | 13.033     | 21.6                         | 31.5       | 49.2        | 57.1       | 64.9 | 72.8 | 80.7        | 88.6 | 96.4       | 104.3 | 112.2 |
| 1.38                        | 52                   | 13.033     | 72           | 18.046     | ...                          | 24.7       | 42.5        | 50.3       | 58.2 | 66.1 | 74.0        | 81.9 | 89.7       | 97.6  | 105.5 |
| 1.40                        | 40                   | 10.026     | 56           | 14.036     | 20.4                         | 30.3       | 48.0        | 55.9       | 63.8 | 71.6 | 79.5        | 87.4 | 95.3       | 103.1 | 111.0 |
| 1.40                        | 80                   | 20.051     | 112          | 28.072     | ...                          | ...        | 28.9        | 36.8       | 44.7 | 52.6 | 60.5        | 68.4 | 76.3       | 84.2  | 92.1  |
| 1.41                        | 64                   | 16.041     | 90           | 22.557     | ...                          | ...        | 36.5        | 44.4       | 52.3 | 60.2 | 68.0        | 75.9 | 83.8       | 91.7  | 99.6  |
| 1.41                        | 34                   | 8.522      | 48           | 12.031     | 23.2                         | 33.0       | 50.8        | 58.6       | 66.5 | 74.4 | 82.3        | 90.1 | 98.0       | 105.9 | 113.8 |
| 1.42                        | 48                   | 12.031     | 68           | 17.043     | ...                          | 26.3       | 44.0        | 51.9       | 59.8 | 67.7 | 75.6        | 83.4 | 91.3       | 99.2  | 107.1 |
| 1.43                        | 56                   | 14.036     | 80           | 20.051     | ...                          | 22.2       | 40.0        | 47.9       | 55.8 | 63.7 | 71.6        | 79.5 | 87.4       | 95.2  | 103.1 |
| 1.44                        | 36                   | 9.023      | 52           | 13.033     | 22.0                         | 31.8       | 49.6        | 57.5       | 65.3 | 73.2 | 81.1        | 89.0 | 96.8       | 104.7 | 112.6 |
| 1.45                        | 44                   | 11.028     | 64           | 16.041     | 17.9                         | 27.8       | 45.6        | 53.5       | 61.4 | 69.3 | 77.1        | 85.0 | 92.9       | 100.8 | 108.6 |
| 1.47                        | 38                   | 9.524      | 56           | 14.036     | 20.7                         | 30.6       | 48.4        | 56.3       | 64.1 | 72.0 | 79.9        | 87.8 | 95.6       | 103.5 | 111.4 |
| 1.50                        | 40                   | 10.026     | 60           | 15.038     | 19.5                         | 29.4       | 47.2        | 55.1       | 62.9 | 70.8 | 78.7        | 86.6 | 94.5       | 102.3 | 110.2 |
| 1.50                        | 48                   | 12.031     | 72           | 18.046     | ...                          | 25.4       | 43.2        | 51.1       | 59.0 | 66.9 | 74.7        | 82.6 | 90.5       | 98.4  | 106.3 |
| 1.50                        | 60                   | 15.038     | 90           | 22.557     | ...                          | ...        | 37.2        | 45.1       | 53.0 | 60.9 | 68.8        | 76.7 | 84.6       | 92.5  | 100.3 |
| 1.53                        | 34                   | 8.522      | 52           | 13.033     | 22.3                         | 32.2       | 50.0        | 57.8       | 65.7 | 73.6 | 81.5        | 89.3 | 97.2       | 105.1 | 113.0 |
| 1.54                        | 52                   | 13.033     | 80           | 20.051     | ...                          | 23.0       | 40.8        | 48.7       | 56.6 | 64.5 | 72.4        | 80.2 | 88.1       | 96.0  | 103.9 |
| 1.55                        | 44                   | 11.028     | 68           | 17.043     | 17.0                         | 27.0       | 44.8        | 52.7       | 60.6 | 68.4 | 76.3        | 84.2 | 92.1       | 100.0 | 107.8 |
| 1.56                        | 36                   | 9.023      | 56           | 14.036     | 21.1                         | 31.0       | 48.8        | 56.6       | 64.5 | 72.4 | 80.3        | 88.2 | 96.0       | 103.9 | 111.8 |
| 1.56                        | 72                   | 18.046     | 112          | 28.072     | ...                          | ...        | 30.3        | 38.2       | 46.2 | 54.1 | 62.0        | 69.9 | 77.8       | 85.7  | 93.6  |
| 1.58                        | 38                   | 9.524      | 60           | 15.038     | 19.9                         | 29.8       | 47.6        | 55.4       | 63.3 | 71.2 | 79.1        | 87.0 | 94.8       | 102.7 | 110.6 |
| 1.60                        | 40                   | 10.026     | 64           | 16.041     | 18.6                         | 28.6       | 46.4        | 54.3       | 62.1 | 70.0 | 77.9        | 85.8 | 93.7       | 101.5 | 109.4 |
| 1.60                        | 90                   | 22.557     | 144          | 36.092     | ...                          | ...        | ...         | ...        | 36.0 | 44.0 | 51.9        | 59.8 | 67.8       | 75.7  | 83.6  |
| 1.61                        | 56                   | 14.036     | 90           | 22.557     | ...                          | ...        | 37.9        | 45.9       | 53.8 | 61.7 | 69.6        | 77.4 | 85.3       | 93.2  | 101.1 |
| 1.64                        | 44                   | 11.028     | 72           | 18.046     | ...                          | 26.1       | 44.0        | 51.9       | 59.7 | 67.6 | 75.5        | 83.4 | 91.3       | 99.2  | 107.0 |
| 1.65                        | 34                   | 8.522      | 56           | 14.036     | 21.5                         | 31.4       | 49.1        | 57.0       | 64.9 | 72.8 | 80.7        | 88.5 | 96.4       | 104.3 | 112.2 |
| 1.65                        | 68                   | 17.043     | 112          | 28.072     | ...                          | ...        | 31.0        | 39.0       | 46.9 | 54.8 | 62.7        | 70.7 | 78.5       | 86.4  | 94.3  |
| 1.67                        | 36                   | 9.023      | 60           | 15.038     | 20.2                         | 30.2       | 47.9        | 55.8       | 63.7 | 71.6 | 79.5        | 87.4 | 95.2       | 103.1 | 111.0 |
| 1.67                        | 48                   | 12.031     | 80           | 20.051     | ...                          | 23.7       | 41.5        | 49.4       | 57.3 | 65.2 | 73.1        | 81.0 | 88.9       | 96.8  | 104.7 |
| 1.68                        | 38                   | 9.524      | 64           | 16.041     | 19.0                         | 28.9       | 46.7        | 54.6       | 62.5 | 70.4 | 78.3        | 86.2 | 94.0       | 101.9 | 109.8 |
| 1.70                        | 40                   | 10.026     | 68           | 17.043     | 17.8                         | 27.7       | 45.5        | 53.4       | 61.3 | 69.2 | 77.1        | 85.0 | 92.9       | 100.7 | 108.6 |
| 1.73                        | 52                   | 13.033     | 90           | 22.557     | ...                          | 20.7       | 38.7        | 46.6       | 54.5 | 62.4 | 70.3        | 78.2 | 86.1       | 94.0  | 101.9 |
| 1.75                        | 64                   | 16.041     | 112          | 2.072      | ...                          | ...        | 31.7        | 39.7       | 47.6 | 55.6 | 63.5        | 71.4 | 79.3       | 87.2  | 95.1  |
| 1.76                        | 34                   | 9.023      | 60           | 15.038     | 20.6                         | 30.5       | 48.3        | 56.2       | 64.1 | 72.0 | 79.9        | 87.7 | 95.6       | 103.5 | 111.4 |
| 1.78                        | 36                   | 9.023      | 64           | 16.041     | 19.4                         | 29.3       | 47.1        | 55.0       | 62.9 | 70.8 | 78.7        | 86.5 | 94.4       | 102.3 | 110.2 |
| 1.79                        | 38                   | 9.524      | 68           | 17.043     | 18.1                         | 28.1       | 45.9        | 53.8       | 61.7 | 69.6 | 77.5        | 85.4 | 93.2       | 101.1 | 109.0 |
| 1.80                        | 40                   | 10.026     | 72           | 18.046     | 16.8                         | 26.9       | 44.7        | 52.6       | 60.5 | 68.4 | 76.3        | 84.2 | 92.0       | 99.9  | 107.8 |
| 1.80                        | 80                   | 20.051     | 144          | 36.092     | ...                          | ...        | ...         | ...        | 37.7 | 45.7 | 53.7        | 61.7 | 69.6       | 77.5  | 85.4  |
| 1.82                        | 44                   | 11.028     | 80           | 20.051     | ...                          | 24.4       | 42.3        | 50.2       | 58.1 | 66.0 | 73.9        | 81.8 | 89.7       | 97.5  | 105.4 |
| 1.87                        | 60                   | 15.038     | 112          | 28.072     | ...                          | ...        | 32.4        | 40.4       | 48.4 | 56.3 | 64.2        | 72.1 | 80.0       | 87.9  | 95.8  |
| 1.87                        | 90                   | 22.557     | 168          | 42.108     | ...                          | ...        | ...         | ...        | ...  | 38.5 | 46.6        | 54.6 | 62.6       | 70.6  | 78.5  |
| 1.88                        | 48                   | 12.031     | 90           | 22.557     | ...                          | 21.4       | 39.4        | 47.3       | 55.3 | 63.2 | 71.1        | 79.0 | 86.8       | 94.7  | 102.6 |
| 1.88                        | 34                   | 8.522      | 64           | 16.041     | 19.7                         | 29.7       | 47.5        | 55.4       | 63.3 | 71.2 | 79.0        | 86.9 | 94.8       | 102.7 | 110.6 |
| <b>Belt Length Factor →</b> |                      |            |              |            | <b>0.8</b>                   | <b>0.9</b> | <b>0.95</b> | <b>1.0</b> |      |      | <b>1.05</b> |      | <b>1.1</b> |       |       |

**NOTES:** All 20MM HTD Drives operating above 1000 RPM may require a sound dampening guard.  
Belt lengths of 5200, 5600, 6000, and 6400 are also available. Interpolate center distance.

|                                  |                               |                                       |  |
|----------------------------------|-------------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SPECIFICATIONS<br>PAGE PT11-4 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|-------------------------------|---------------------------------------|--|



# SELECTION

## 20MM Ratio/Center Distance Tables

| Drive Ratio                 | Sprocket Combination |            |              |            | Nominal Center Distance      |            |             |            |      |      |             |      |            |       |       |
|-----------------------------|----------------------|------------|--------------|------------|------------------------------|------------|-------------|------------|------|------|-------------|------|------------|-------|-------|
|                             | Driver               |            | Driven       |            | Belt Length Code Designation |            |             |            |      |      |             |      |            |       |       |
|                             | No. Of Teeth         | Pitch Dia. | No. Of Teeth | Pitch Dia. | 2000                         | 2500       | 3400        | 3800       | 4200 | 4600 | 5000        | 5400 | 5800       | 6200  | 6600  |
|                             | Belt Length Factor → |            |              |            | 0.8                          | 0.9        | 0.95        | 1.0        |      |      | 1.05        |      | 1.1        |       |       |
| 1.89                        | 36                   | 9.023      | 68           | 17.043     | 18.4                         | 28.4       | 46.3        | 54.2       | 62.1 | 70.0 | 77.9        | 85.7 | 93.6       | 101.5 | 109.4 |
| 1.89                        | 38                   | 9.524      | 72           | 18.046     | 17.2                         | 27.2       | 45.1        | 53.0       | 60.9 | 68.8 | 76.7        | 84.5 | 92.4       | 100.3 | 108.2 |
| 2.00                        | 34                   | 8.522      | 68           | 17.043     | 18.8                         | 28.8       | 46.6        | 54.6       | 62.5 | 70.3 | 78.2        | 86.1 | 94.0       | 101.9 | 109.8 |
| 2.00                        | 36                   | 9.023      | 72           | 18.046     | 17.5                         | 27.6       | 45.4        | 53.3       | 61.2 | 69.1 | 77.0        | 84.9 | 92.8       | 100.7 | 108.6 |
| 2.00                        | 40                   | 10.026     | 80           | 20.051     | ...                          | 25.1       | 43.0        | 50.9       | 58.8 | 66.7 | 74.6        | 82.5 | 90.4       | 98.3  | 106.2 |
| 2.00                        | 56                   | 14.036     | 112          | 28.072     | ...                          | ...        | 33.1        | 41.1       | 49.1 | 57.0 | 65.0        | 72.9 | 80.8       | 88.7  | 96.6  |
| 2.00                        | 72                   | 18.046     | 144          | 36.092     | ...                          | ...        | ...         | 30.9       | 39.1 | 47.1 | 55.1        | 63.1 | 71.1       | 79.0  | 86.9  |
| 2.05                        | 44                   | 11.028     | 90           | 22.557     | ...                          | 22.1       | 40.1        | 48.1       | 56.0 | 63.9 | 71.8        | 79.7 | 87.6       | 95.5  | 103.4 |
| 2.10                        | 80                   | 20.051     | 168          | 42.108     | ...                          | ...        | ...         | ...        | ...  | 40.2 | 48.3        | 56.4 | 64.4       | 72.3  | 80.3  |
| 2.11                        | 38                   | 9.524      | 80           | 20.051     | ...                          | 25.4       | 43.4        | 51.3       | 59.2 | 67.1 | 75.0        | 82.9 | 90.8       | 98.7  | 106.6 |
| 2.12                        | 34                   | 8.522      | 72           | 18.046     | 17.8                         | 27.9       | 45.8        | 53.7       | 61.6 | 69.5 | 77.4        | 85.3 | 93.2       | 101.1 | 109.0 |
| 2.12                        | 68                   | 17.043     | 144          | 36.092     | ...                          | ...        | ...         | 31.6       | 39.8 | 47.8 | 55.8        | 63.8 | 71.8       | 79.7  | 87.6  |
| 2.13                        | 90                   | 22.557     | 192          | 48.123     | ...                          | ...        | ...         | ...        | ...  | ...  | 40.9        | 49.1 | 57.2       | 65.2  | 73.2  |
| 2.15                        | 52                   | 13.033     | 112          | 28.072     | ...                          | ...        | 33.8        | 41.8       | 49.8 | 57.8 | 65.7        | 73.6 | 81.5       | 89.4  | 97.3  |
| 2.22                        | 36                   | 9.023      | 80           | 20.051     | ...                          | 25.8       | 43.7        | 51.7       | 59.6 | 67.5 | 75.4        | 83.3 | 91.2       | 99.1  | 106.9 |
| 2.25                        | 40                   | 10.026     | 90           | 22.557     | ...                          | 22.7       | 40.8        | 48.8       | 56.7 | 64.6 | 72.6        | 80.5 | 88.4       | 96.2  | 104.1 |
| 2.25                        | 64                   | 16.041     | 144          | 36.092     | ...                          | ...        | ...         | 32.3       | 40.4 | 48.5 | 56.5        | 64.5 | 72.5       | 80.4  | 88.4  |
| 2.33                        | 48                   | 12.031     | 112          | 28.072     | ...                          | ...        | 34.5        | 42.5       | 50.5 | 58.5 | 66.4        | 74.4 | 82.3       | 90.2  | 98.1  |
| 2.33                        | 72                   | 18.046     | 168          | 42.108     | ...                          | ...        | ...         | ...        | 33.2 | 41.5 | 49.7        | 57.7 | 65.8       | 73.8  | 81.7  |
| 2.35                        | 34                   | 8.522      | 80           | 20.051     | ...                          | 26.1       | 44.1        | 52.0       | 59.9 | 67.9 | 75.8        | 83.7 | 91.5       | 99.4  | 107.3 |
| 2.37                        | 38                   | 9.524      | 90           | 22.557     | ...                          | 23.1       | 41.2        | 49.2       | 57.1 | 65.0 | 72.9        | 80.8 | 88.7       | 96.6  | 104.5 |
| 2.40                        | 60                   | 15.038     | 144          | 36.092     | ...                          | ...        | ...         | 32.9       | 41.1 | 49.2 | 57.3        | 65.2 | 73.2       | 81.2  | 89.1  |
| 2.40                        | 80                   | 20.051     | 192          | 48.123     | ...                          | ...        | ...         | ...        | ...  | ...  | 42.5        | 50.7 | 58.9       | 67.0  | 75.0  |
| 2.40                        | 90                   | 22.557     | 216          | 54.139     | ...                          | ...        | ...         | ...        | ...  | ...  | ...         | 43.1 | 51.4       | 59.6  | 67.8  |
| 2.47                        | 68                   | 17.043     | 168          | 42.108     | ...                          | ...        | ...         | ...        | 33.9 | 42.2 | 50.3        | 58.4 | 66.5       | 74.5  | 82.5  |
| 2.50                        | 36                   | 9.023      | 90           | 22.557     | ...                          | 23.4       | 41.5        | 49.5       | 57.5 | 65.4 | 73.3        | 81.2 | 89.1       | 97.0  | 104.9 |
| 2.55                        | 44                   | 11.028     | 112          | 28.072     | ...                          | ...        | 35.1        | 43.2       | 51.2 | 59.2 | 67.1        | 75.1 | 83.0       | 90.9  | 98.8  |
| 2.57                        | 56                   | 14.036     | 144          | 36.092     | ...                          | ...        | ...         | 33.6       | 41.8 | 49.9 | 58.0        | 66.0 | 73.9       | 81.9  | 89.8  |
| 2.63                        | 64                   | 16.041     | 168          | 42.108     | ...                          | ...        | ...         | ...        | 34.5 | 42.8 | 51.0        | 59.1 | 67.2       | 75.2  | 83.2  |
| 2.65                        | 34                   | 8.522      | 90           | 22.557     | ...                          | 23.7       | 41.9        | 49.9       | 57.8 | 65.7 | 73.7        | 81.6 | 89.5       | 97.4  | 105.3 |
| 2.67                        | 72                   | 18.046     | 192          | 48.123     | ...                          | ...        | ...         | ...        | ...  | 35.4 | 43.8        | 52.1 | 60.3       | 68.3  | 76.4  |
| 2.70                        | 80                   | 20.051     | 216          | 54.139     | ...                          | ...        | ...         | ...        | ...  | ...  | ...         | 44.8 | 53.1       | 61.3  | 69.5  |
| 2.77                        | 52                   | 13.033     | 144          | 36.092     | ...                          | ...        | ...         | 34.2       | 42.5 | 50.6 | 58.7        | 66.7 | 74.7       | 82.6  | 90.6  |
| 2.80                        | 40                   | 10.026     | 112          | 28.072     | ...                          | ...        | 35.8        | 43.9       | 51.9 | 59.9 | 67.9        | 75.8 | 83.7       | 91.7  | 99.6  |
| 2.80                        | 60                   | 15.038     | 168          | 42.108     | ...                          | ...        | ...         | ...        | 35.2 | 43.5 | 51.7        | 59.8 | 67.9       | 75.9  | 83.9  |
| 2.82                        | 68                   | 17.043     | 192          | 48.123     | ...                          | ...        | ...         | ...        | ...  | 36.1 | 44.5        | 52.8 | 60.9       | 69.0  | 77.1  |
| 2.95                        | 38                   | 9.524      | 112          | 28.072     | ...                          | ...        | 36.2        | 44.3       | 52.3 | 60.3 | 68.2        | 76.2 | 84.1       | 92.0  | 99.9  |
| 3.00                        | 48                   | 12.031     | 144          | 36.092     | ...                          | ...        | 26.4        | 34.9       | 43.1 | 51.3 | 59.3        | 67.4 | 75.4       | 83.3  | 91.3  |
| 3.00                        | 56                   | 14.036     | 168          | 42.108     | ...                          | ...        | ...         | ...        | 35.8 | 44.2 | 52.4        | 60.5 | 68.6       | 76.6  | 84.6  |
| 3.00                        | 64                   | 16.041     | 192          | 48.123     | ...                          | ...        | ...         | ...        | ...  | 36.7 | 45.1        | 53.4 | 61.6       | 69.7  | 77.8  |
| 3.00                        | 72                   | 18.046     | 216          | 54.139     | ...                          | ...        | ...         | ...        | ...  | ...  | ...         | 46.1 | 54.4       | 62.7  | 70.8  |
| 3.11                        | 36                   | 9.023      | 112          | 28.072     | ...                          | ...        | 36.5        | 44.6       | 52.6 | 60.6 | 68.6        | 76.5 | 84.5       | 92.4  | 100.3 |
| 3.18                        | 68                   | 17.043     | 216          | 54.139     | ...                          | ...        | ...         | ...        | ...  | ...  | 38.1        | 46.7 | 55.1       | 63.3  | 71.5  |
| 3.20                        | 60                   | 15.038     | 192          | 48.123     | ...                          | ...        | ...         | ...        | ...  | 37.3 | 45.8        | 54.1 | 62.3       | 70.4  | 78.5  |
| 3.23                        | 52                   | 13.033     | 168          | 42.108     | ...                          | ...        | ...         | ...        | 36.5 | 44.8 | 53.1        | 61.2 | 69.3       | 77.3  | 85.3  |
| 3.27                        | 44                   | 11.028     | 144          | 36.092     | ...                          | ...        | 27.1        | 35.6       | 43.8 | 52.0 | 60.0        | 68.1 | 76.1       | 84.1  | 92.0  |
| 3.29                        | 34                   | 8.522      | 112          | 28.072     | ...                          | ...        | 36.8        | 44.9       | 53.0 | 61.0 | 69.0        | 76.9 | 84.8       | 92.8  | 100.7 |
| 3.38                        | 64                   | 16.041     | 216          | 54.139     | ...                          | ...        | ...         | ...        | ...  | ...  | 38.8        | 47.3 | 55.7       | 64.0  | 72.2  |
| 3.43                        | 56                   | 14.036     | 192          | 48.123     | ...                          | ...        | ...         | ...        | ...  | 38.0 | 46.4        | 54.8 | 63.0       | 71.1  | 79.2  |
| 3.50                        | 48                   | 12.031     | 168          | 42.108     | ...                          | ...        | ...         | ...        | 37.1 | 45.5 | 53.7        | 61.9 | 70.0       | 78.0  | 86.0  |
| <b>Belt Length Factor →</b> |                      |            |              |            | <b>0.8</b>                   | <b>0.9</b> | <b>0.95</b> | <b>1.0</b> |      |      | <b>1.05</b> |      | <b>1.1</b> |       |       |

**NOTES:** All 20MM HTD Drives operating above 1000 RPM may require a sound dampening guard.  
Belt lengths of 5200, 5600, 6000, and 6400 are also available. Interpolate center distance.

|                                  |                               |                                       |  |
|----------------------------------|-------------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SPECIFICATIONS<br>PAGE PT11-4 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|-------------------------------|---------------------------------------|--|

# SELECTION



## 20MM Ratio/Center Distance Tables

| Drive Ratio                 | Sprocket Combination |            |              |            | Nominal Center Distance      |            |             |            |      |      |             |      |      |            |      |  |
|-----------------------------|----------------------|------------|--------------|------------|------------------------------|------------|-------------|------------|------|------|-------------|------|------|------------|------|--|
|                             | Driver               |            | Driven       |            | Belt Length Code Designation |            |             |            |      |      |             |      |      |            |      |  |
|                             | No. Of Teeth         | Pitch Dia. | No. Of Teeth | Pitch Dia. | 2000                         | 2500       | 3400        | 3800       | 4200 | 4600 | 5000        | 5400 | 5800 | 6200       | 6600 |  |
|                             | Belt Length Factor → |            |              |            | 0.8                          | 0.9        | 0.95        | 1.0        |      |      | 1.05        |      |      | 1.1        |      |  |
| 3.60                        | 40                   | 10.026     | 144          | 36.092     | ...                          | ...        | 27.7        | 36.2       | 44.5 | 52.6 | 60.7        | 68.8 | 76.8 | 84.8       | 92.7 |  |
| 3.60                        | 60                   | 15.038     | 216          | 54.139     | ...                          | ...        | ...         | ...        | ...  | ...  | 39.4        | 48.0 | 56.4 | 64.7       | 72.9 |  |
| 3.69                        | 52                   | 13.033     | 192          | 48.123     | ...                          | ...        | ...         | ...        | ...  | 38.6 | 47.1        | 55.4 | 63.6 | 71.8       | 79.9 |  |
| 3.79                        | 38                   | 9.524      | 144          | 36.092     | ...                          | ...        | 28.0        | 36.5       | 44.8 | 53.0 | 61.1        | 69.1 | 77.1 | 85.1       | 93.1 |  |
| 3.82                        | 44                   | 11.028     | 168          | 42.108     | ...                          | ...        | ...         | 29.1       | 37.8 | 46.1 | 54.4        | 62.6 | 70.6 | 78.7       | 86.7 |  |
| 3.86                        | 56                   | 14.036     | 216          | 54.139     | ...                          | ...        | ...         | ...        | ...  | ...  | 40.0        | 48.6 | 57.0 | 65.3       | 73.5 |  |
| 4.00                        | 36                   | 9.023      | 144          | 36.092     | ...                          | ...        | 28.3        | 36.9       | 45.1 | 53.3 | 61.4        | 69.5 | 77.5 | 85.5       | 93.4 |  |
| 4.00                        | 48                   | 12.031     | 192          | 48.123     | ...                          | ...        | ...         | ...        | ...  | 39.2 | 47.7        | 56.1 | 64.3 | 72.5       | 80.6 |  |
| 4.15                        | 52                   | 13.033     | 216          | 54.139     | ...                          | ...        | ...         | ...        | ...  | ...  | 40.7        | 49.3 | 57.7 | 66.0       | 74.2 |  |
| 4.20                        | 40                   | 10.026     | 168          | 42.108     | ...                          | ...        | ...         | 29.7       | 38.4 | 46.8 | 55.1        | 63.2 | 71.3 | 79.4       | 87.4 |  |
| 4.24                        | 34                   | 8.522      | 144          | 36.092     | ...                          | ...        | 28.7        | 37.2       | 45.5 | 53.7 | 61.8        | 69.8 | 77.8 | 85.8       | 93.8 |  |
| 4.36                        | 44                   | 11.028     | 192          | 48.123     | ...                          | ...        | ...         | ...        | ...  | 39.9 | 48.4        | 56.7 | 65.0 | 73.1       | 81.2 |  |
| 4.42                        | 38                   | 9.524      | 168          | 42.108     | ...                          | ...        | ...         | 30.1       | 38.7 | 47.1 | 55.4        | 63.6 | 71.7 | 79.7       | 87.8 |  |
| 4.50                        | 48                   | 12.031     | 216          | 54.139     | ...                          | ...        | ...         | ...        | ...  | ...  | 41.3        | 49.9 | 58.3 | 66.7       | 74.9 |  |
| 4.67                        | 36                   | 9.023      | 168          | 42.108     | ...                          | ...        | ...         | 30.4       | 39.0 | 47.5 | 55.7        | 63.9 | 72.0 | 80.1       | 88.1 |  |
| 4.80                        | 40                   | 10.026     | 192          | 48.123     | ...                          | ...        | ...         | ...        | 31.7 | 40.5 | 49.0        | 57.4 | 65.6 | 73.8       | 81.9 |  |
| 4.91                        | 44                   | 11.028     | 216          | 54.139     | ...                          | ...        | ...         | ...        | ...  | ...  | 41.9        | 50.6 | 59.0 | 67.3       | 75.6 |  |
| 4.94                        | 34                   | 8.522      | 168          | 4.108      | ...                          | ...        | ...         | 30.7       | 39.4 | 47.8 | 56.1        | 64.2 | 72.4 | 80.4       | 88.5 |  |
| 5.05                        | 38                   | 9.524      | 192          | 48.123     | ...                          | ...        | ...         | ...        | 32.0 | 40.8 | 49.4        | 57.7 | 66.0 | 74.2       | 82.3 |  |
| 5.33                        | 36                   | 9.023      | 192          | 48.123     | ...                          | ...        | ...         | ...        | 32.3 | 41.1 | 49.7        | 58.0 | 66.3 | 74.5       | 82.6 |  |
| 5.40                        | 40                   | 10.026     | 216          | 54.139     | ...                          | ...        | ...         | ...        | ...  | ...  | 42.5        | 51.2 | 59.6 | 68.0       | 76.2 |  |
| 5.65                        | 34                   | 8.522      | 192          | 48.123     | ...                          | ...        | ...         | ...        | 32.6 | 41.4 | 50.0        | 58.4 | 66.6 | 74.8       | 83.0 |  |
| 5.68                        | 38                   | 9.524      | 216          | 54.139     | ...                          | ...        | ...         | ...        | ...  | 33.9 | 42.9        | 51.5 | 60.0 | 68.3       | 76.6 |  |
| 6.00                        | 36                   | 9.023      | 216          | 54.139     | ...                          | ...        | ...         | ...        | ...  | 34.2 | 43.2        | 51.8 | 60.3 | 68.6       | 76.9 |  |
| 6.35                        | 34                   | 8.522      | 216          | 54.139     | ...                          | ...        | ...         | ...        | ...  | 34.5 | 43.5        | 52.1 | 60.6 | 69.0       | 77.2 |  |
| <b>Belt Length Factor →</b> |                      |            |              |            | <b>0.8</b>                   | <b>0.9</b> | <b>0.95</b> | <b>1.0</b> |      |      | <b>1.05</b> |      |      | <b>1.1</b> |      |  |

**NOTES:** All 20MM HTD Drives operating above 1000 RPM may require a sound dampening guard.  
 Belt lengths of 5200, 5600, 6000, and 6400 are also available. Interpolate center distance.

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets

|                                  |                               |                                       |  |
|----------------------------------|-------------------------------|---------------------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SPECIFICATIONS<br>PAGE PT11-4 | ENGINEERING/TECHNICAL<br>PAGE PT11-64 |  |
|----------------------------------|-------------------------------|---------------------------------------|--|





## Overhung Load Calculations

Overhung load is an important consideration for drive design. Motor and reducer bearings are rated for specific load capacities to achieve calculated life. If the drive design is such that bearing loads are exceeded, life will be proportionally reduced. Likewise, if the drive exerts a lesser load on the bearings, life will be extended. Needless to say, drive design that keeps bearing loads below ratings can pay big dividends.

**BELT PULL:** The basis for overhung load calculation is belt pull. Belt pull is the result of torque being transmitted when the belt exerts a pull on the sprocket diameter.

**EXAMPLE:** 5 horsepower at 200 RPM is 1,575 inch-pounds of torque. If a 6 inch diameter sprocket is used, (3 inch radius),  $1,575/3 = 525$  pounds effective belt pull is required. Note that if a larger diameter sprocket is used, belt pull is reduced accordingly.

Belt pull can be calculated using the following formula:

$$\text{Belt Pull (lbs)} = \frac{126,000 \times \text{DHP} \times F}{\text{RPM} \times \text{PD}}$$

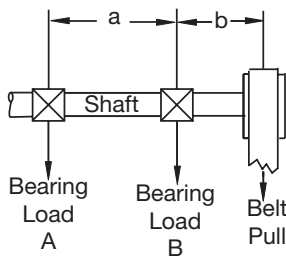
Where: DHP = Design Horsepower

F = Drive Factor (1.3 for sync. belt)

RPM = Shaft RPM

PD = Pitch Diameter of Sprocket

**BEARING LOAD:** Belt pull translates into bearing load and is greatly affected by the location of the sprocket on the shaft. Fig. 1 shows an example of what happens as the distance between the centerline of belt pull and the adjacent bearing is extended.



Overhung Sheave

$$\text{Load at B, lbs.} = \frac{\text{Belt Pull} \times (a + b)}{a}$$

Fig. 1

| a      | b     | Belt Pull | Bearing Load "B" |
|--------|-------|-----------|------------------|
| 10 in. | 1 in. | 500 lbs.  | 550 lbs.         |
| 10 in. | 5 in. | 500 lbs.  | 750 lbs.         |

Now consider the same situation for a motor or gearbox.

Referring to Fig. 2, it should be obvious that the HT/HTD sprocket should be mounted as close as possible to the face of the gearbox.

As the distance between the gearbox face and HT/HTD sprocket increases, the bearing load is also increased, which leads to a reduction in bearing life.

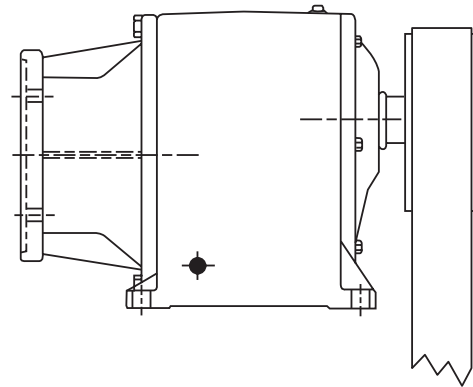


Fig. 2

Another warning from gearbox manufacturers is that the centerline of belt pull should not extend beyond the end of the shaft. Given a choice of a small diameter, wide face-width drive design, or a larger diameter, narrower face-width alternative, the latter would be preferable if bearing life is an important consideration.

### DRIVE DESIGN CONSIDERATIONS

For any given application, there are usually several possible drive alternatives. In some cases, the selection with the smallest diameter sprockets might be the least expensive. As can be seen from the previous discussion, this alternative could be a bad choice. Smaller diameter sprockets lead to higher belt pull; their greater width is also more sensitive to misalignment.



## HT/HTD Drive Installation

### SPROCKET INSTALLATION

1. Thoroughly inspect the bore of the sprocket and the tapered surface of the bushing. Any paint, dirt, oil or grease must be removed.
2. Assemble bushing into sprocket. Loosely insert the screws into assembly. At least one sprocket must have flanges.
3. With key in keyseat of shaft, slide sprocket to its desired position with screw heads to the outside. If it is hard to slide the bushing onto the shaft, check shaft for burrs, etc.
4. Line up assembly so as not to misalign belts and tighten screws evenly and progressively. Apply the recommended torque to screws.

### SPROCKET ALIGNMENT

HT/HTD sprocket alignment and parallelism of the shafts are very important. Proper alignment helps to equalize the load across the entire belt width, thereby reducing wear and extending belt life.

Place a straightedge against the outside edge of the sprockets and move sprockets until the straightedge touches the two outside and two inside edges of the sprockets. The straightedge should cross the sprockets as close to the shafts as possible. A string can be used if a straightedge is not available. Remember the string should contact at four points as explained above. (See illustration on page PT11-66.

After aligning the sprockets, check the rigidity of the supporting framework. Shafts should be well supported to prevent distortion and a resulting change in the center distance under load. Do not use spring-loaded or weighted idlers. Idler sprockets or pulleys must be locked into position after adjusting belt tension.

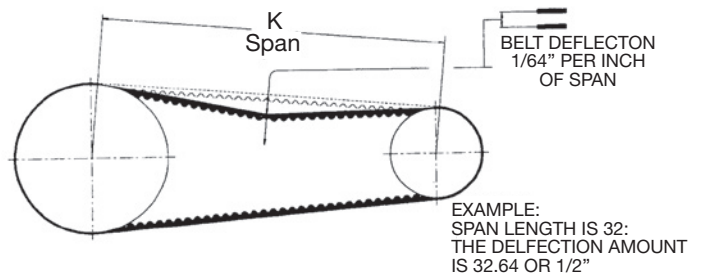
## BELT INSTALLATION & TENSIONING

Do not pry or otherwise force the belt onto the sprockets, as this can result in permanent damage to the belt. Reduce the center distance between the pulleys so that the belt can be easily installed.

HT 200 drives must be properly tensioned. If the belt is too loose, it may jump teeth when heavier loads are applied. If the belt is too tight, belt life will suffer, and bearings will be unnecessarily overloaded. Improper tension can result in excessive drive noise.

Tensioning procedure: First, measure the span length and calculate the deflection distance of 1/64, per inch span (see illustration).

Use the formula method on page PT11-66 to calculate recommended deflection forces.

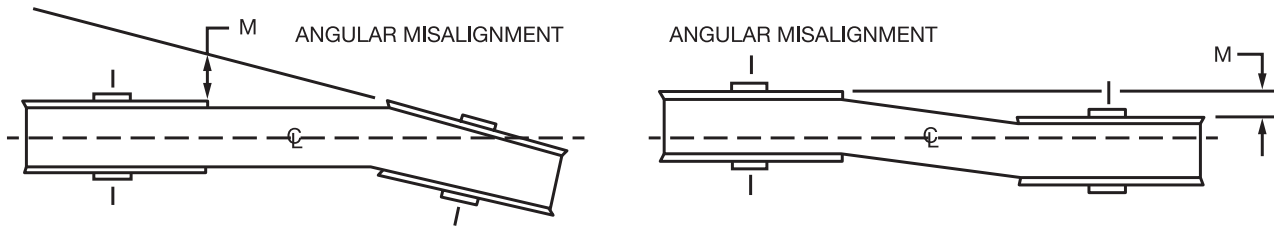


Apply a force (from the table) at the center of the span. Measure the deflection with this force applied. Move the center distance until the proper deflection is obtained.

|                                  |                               |                           |  |
|----------------------------------|-------------------------------|---------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT11-2 | SPECIFICATIONS<br>PAGE PT11-4 | SELECTION<br>PAGE PT11-19 |  |
|----------------------------------|-------------------------------|---------------------------|--|



## Drive Alignment



Good tracking of synchronous belts on their sprockets depends upon alignment to within 1/4 degree. This translates to a maximum “M” dimension of 0.05” per foot center distance.

## Drive Tensioning

### Formula Method

The formula method for determining belt tension may be used for greater accuracy, or for applications that fall out of guidelines given for the Simplified Method on page PT11-65.

#### Step 1. Calculate Min. Installation Tension:

$$\text{Formula 1: } T = \frac{20 \text{ (HP)}}{V} + mV^2$$

Where: HP = Horsepower  
 $V = \frac{\text{Belt Velocity (in FPM)}}{1000}$

$m = \text{Value in Table 1}$   
 $\text{Belt Velocity} = \text{PD} \times \text{RPM} \times .262$   
 (PD = Pitch Dia. in inches)

**\*Important!** If formula calculation for “T” is less than “Min T. Value” (Table 1) use the “Min T. Value” for T. Always use the greater T value: i.e. from T Formula 1 or Table 1.

#### Step 2. Calculate Deflection Forces:

$$\text{Formula 2: } \text{Min Force} = \frac{1.0T + (K/L)Y}{16} \text{ (lbs)}$$

$$\text{Formula 3: } \text{Max Force} = \frac{1.1T + (K/L)Y}{16} \text{ (lbs)}$$

Note: For used belt, use 0.7T to 0.8T instead of the 1.0T and 1.1T for new belts.

- T = Static tension, lbs
- K = Span length, inches
- L = Belt length, inches
- Y = Factor from Table 1

**Step 3.** Adjust tension per Simplified Method Procedure on page PT11-65 using deflection forces from Step 2.

Table 1

| Belt  |       | Factors |        | Min. T |
|-------|-------|---------|--------|--------|
| Pitch | Width | m       | Y      | Value* |
| 5MM   | 15MM  | 0.28    | 24.9   | 14.1   |
| 5MM   | 25MM  | 0.47    | 41.5   | 23.4   |
| 8MM   | 20MM  | 0.58    | 34.2   | 18.5   |
| 8MM   | 30MM  | 0.88    | 51.3   | 30.0   |
| 8MM   | 50MM  | 1.46    | 85.5   | 52.0   |
| 8MM   | 85MM  | 2.45    | 145.3  | 94.5   |
| 14MM  | 40MM  | 1.78    | 93.0   | 76.5   |
| 14MM  | 55MM  | 2.44    | 127.9  | 120.0  |
| 14MM  | 85MM  | 3.77    | 197.7  | 205.5  |
| 14MM  | 115MM | 5.11    | 267.5  | 291.0  |
| 14MM  | 170MM | 7.55    | 395.4  | 447.0  |
| 20MM  | 115MM | 7.24    | 367.0  | 391.5  |
| 20MM  | 170MM | 10.71   | 542.5  | 603.0  |
| 20MM  | 230MM | 14.49   | 734.0  | 834.0  |
| 20MM  | 290MM | 18.27   | 925.4  | 1065.0 |
| 20MM  | 340MM | 21.42   | 1085.0 | 1257.5 |



## DODGE Software

### Computer Selection of DODGE Synchronous Belt Drives

#### VIA-SYNC® Synchronous Belt Drive Selection

For any given synchronous drive application, there may be several DODGE HT/HTD\* or DODGE DYNA-SYNC® product combinations that could satisfy the requirements. Finding the best drive can be a time-consuming and frustrating task.

The DODGE VIA-SYNC program provides selections for DYNA-SYNC (timing) and HT/HTD drives and includes both TAPER-LOCK® and QD\* type sprockets. All relevant data for up to ten alternative drive selections is presented in a format that allows quick and accurate analysis, whether based upon lowest price, minimum bearing load, highest service factor, etc.

VIA-SYNC calculates speed up drives or drives for nonstandard motor speeds. The most appropriate selection can then be specified using the computer printout, which contains sprocket, bushing and belt sizes and part numbers.

VIA-SYNC has the capability of sharing data with DODGE T-A DISCOVERY™ or DODGE SCD DISCOVERY™ programs.

### DRIVE TROUBLESHOOTING

| Problem                      | Cause                  | Remedy                        |
|------------------------------|------------------------|-------------------------------|
| <b>Unusual Noise</b>         | Misaligned drive       | Re-adjust alignment           |
|                              | Hi or Low belt tension | Adjust to recommended value   |
|                              | Backside idler         | Use inside idler              |
|                              | Worn sprocket          | Replace sprocket              |
|                              | Bent sprocket flange   | Replace or repair             |
|                              | Excessive belt speed   | Redesign drive                |
|                              | Incorrect belt profile | Replace with DODGE belt       |
|                              | Subminimal spkt. dia.  | Redesign with larger spkts.   |
|                              | Excessive load         | Use higher capacity drive     |
| <b>Loss of Belt Tension</b>  | Weak mntg. structure   | Reinforce mounting structure  |
|                              | Excessive spkt. wear   | Use wear-resistant sprockets  |
|                              | Fixed center drive     | Install inside idler          |
|                              | Excessive debris       | Install adequate drive guard. |
|                              | Excessive load         | Use higher capacity drive     |
|                              | Subminimal spkt. dia.  | Redesign drive                |
| <b>Belt Edge Wear</b>        | Drive running hot      | Use heat fingers on hot shaft |
|                              | Belt degradation       | Protect from excessive heat   |
|                              | Damaged flanges        | Repair or replace sprocket    |
|                              | Low belt tension       | Adjust to recommended value   |
| <b>Pre-mature Tooth Wear</b> | Poor tracking          | Correct alignment             |
|                              | Guard interference     | Remove obstruction, add idler |
|                              | Improper tension       | Correct drive tension         |
|                              | Poor alignment         | Correct drive alignment       |
| <b>Belt not Tracking</b>     | Wrong belt type        | Use correct DODGE belt        |
|                              | Worn sprocket          | Replace                       |
|                              | Damaged sprocket       | Replace                       |
|                              | Excessive load         | Use higher capacity drive     |
|                              | Dirt or debris         | Install adequate drive guard  |
|                              | Sprocket wobble        | Correct bushing installation  |

| Problem                  | Cause                                | Remedy   |
|--------------------------|--------------------------------------|--|
| <b>Tooth Shear</b>       | Shock loads                          | Use higher capacity drive                      |
|                          | Few teeth in mesh                    | Redesign drive                                 |
|                          | Worn sprocket                        | Replace  |
|                          | Backside idler                       | Use inside idler                               |
|                          | Wrong belt profile                   | Use correct DODGE belt                         |
|                          | Low belt tension                     | Adjust to recommended value                    |
| <b>Tensile Break</b>     | Shock load                           | Use higher capacity drive                      |
|                          | Subminimal spkt. dia.                | Redesign with larger spkts.                    |
|                          | Debris in drive                      | Install adequate drive guard                   |
|                          | Improper belt handling, storage      | Do not crimp belt or subject it to sharp bends |
| <b>Belt Cracking</b>     | Subminimal spkt. dia.                | Redesign with larger spkts.                    |
|                          | Backside idler                       | Install inside idler                           |
|                          | Start-up temp below 180 degrees F    | Preheat drive before start-up                  |
|                          | Extended exposure to harsh chemicals | Protect drive                                  |
| <b>Bearing Failure</b>   | Excessive belt tension               | Adjust to recommended value                    |
|                          | Drive misalignment                   | Re-adjust alignment                            |
|                          | Subminimal spkt. dia.                | Redesign with larger spkts.                    |
| <b>Vibration</b>         | Wrong belt profile                   | Install correct DODGE belt                     |
|                          | Hi or Low belt tension               | Adjust to recommended value                    |
|                          | Loose key or bushing                 | Install per instructions                       |
|                          | Loose mounting structure             | Reinforce or tighten                           |
| <b>Belt not Tracking</b> | Misalignment                         | Re-adjust alignment                            |
|                          | Long center distance                 | Carefully adjust alignment                     |
|                          | Mtg. structure bending               | Reinforce mounting structure                   |



# NOTES

V-Drives

FHP Drives

Drive Component  
Accessories

DYNA-SYNC

HT200/HTD  
Synchronous Drives

HT500  
Synchronous Drives

Roller Chain Sprockets



# CONTENTS

## HT500 Synchronous Belt Drives

|  |          |
|--|----------|
| <b>Features and Benefits</b> .....     | PT12-2   |
| <b>Specification</b>                   |          |
| HT500 TAPER-LOCK Sprockets .....       | PT12-6   |
| HT500 MPB Sprockets .....              | PT12-12  |
| HT500 ACHE Sprockets .....             | PT12-14  |
| HT500 Idler Sprockets .....            | PT12-16  |
| HT500 Belts .....                      | PT12-17  |
| <b>Selection</b>                       |          |
| HT500 Drive Selection .....            | PT12-19  |
| Basic HP Ratings - 8mm .....           | PT12-38  |
| Basic HP Ratings - 14mm .....          | PT12-42  |
| 8M HT500 Selection Table .....         | PT12-47  |
| 14M HT500 Selection Table .....        | PT12-63  |
| <b>Engineering/Technical</b>           |          |
| Overhung Load Calculation .....        | PT12-77  |
| HT500 Drive Installation .....         | PT12-78  |
| Belt Installation and Tensioning ..... | PT12-79  |
| Drive Alignment .....                  | PT12-80  |
| Drive Tensioning .....                 | PT12-81  |
| Troubleshooting .....                  | PT12-82  |
| Part Number Index .....                | INDEX-1  |
| Keyword Index .....                    | INDEX-43 |

V-Drives

FHP Drives

Drive Component  
Accessories

DYNA-SYNC

HT200/HTD  
Synchronous Drives

HT500  
Synchronous Drives

Roller Chain Sprockets



## FEATURES / BENEFITS

### HT500 Drives - The TCO Drive Solution: Energy Efficient - Maintenance Free

HT500 high torque synchronous drive system is the latest generation in the Baldor•Dodge synchronous product line. The HT500 belt is manufactured with polyurethane, carbon fiber cords and a black nylon tooth facing, featuring the modified curvilinear tooth profile. This drive system utilizes Baldor•Dodge's Taper-Lock® bushing system to deliver our most power dense synchronous drive in a compact package. Also available from stock: Fin fan sprockets with QD\* bushings, and minimum-plain-bore (MPB) sprockets.



\*QD is a registered trademark of Emerson Electric

#### What does the Sprocket bring to the Baldor•Dodge Synchronous Drive System?

Synchronous belt drives run slip-free and are proven to be more efficient and provide better performance than v-belt drives. They also offer significant performance advantages over chain drives related to wear and elongation resistance, they require no lubrication and have broad applicability. It is not necessary to retension synchronous drives – a significant advantage over alternative drive solutions. HT500 synchronous drives can also operate in wet and oily environments.

Baldor•Dodge HT500 synchronous sprockets are manufactured in North America with the highest quality standards.

#### Our design advantages:

- Positions belt center line closer to motor, reducer, and bearings reducing belt pull while potentially increasing the L10 life of bearings.
- Requires less shaft length than QD style products
- Offers more bore sizes per bushing size than QD style products
- Delivers more torque than QD style products
- Has no protruding flanges or bolt heads

The HT500 synchronous drive system has the potential to improve your overall power transmission package by increasing efficiency, lowering your maintenance cost, downtime, and belt pull to increase the L10 life of bearings.

Our high torque HT500 synchronous drive product is Baldor's commitment to your success by providing you energy savings and overall cost reduction. Another TCO solution for the marketplace!

#### Value added Features

- Virtually maintenance free
- Requires no oil or grease to run slip free
- No need to re-tension the belts
- Compact maintenance free design
- Modified curvilinear tooth profile
- Positive tooth engagement eliminating slippage and speed variation on high torque application
- Low installation tension reducing loads on other power transmission components (i.e., bearings, gearing, motors, etc.)
- Delivers power up to speeds of 10,000 FPM (Standard hardware is rated for 6,500 FPM). Contact Baldor if speeds greater than 6500 FPM are required.
- Higher power ratings than comparable timing belts, making HT500 suited to replace chain drives
- Wide range of stock parts available

Baldor•Dodge HT500 Belts utilize materials that achieve the highest standard of quality and performance in the industry allowing the superior torque capacity needed for high performance

- Belt backing is polyurethane designed for maximum resistance to environmental conditions, oil, grease, and high temperatures
- The belt's carbon fiber cords provide superior tension and torque transmission preventing belt shrinkage and stretch
- Belt's construction helps reduce the belt installation tension increasing the life of the other mechanical components
- Belt's teeth are enclosed in a black nylon tooth face delivering resistance to abrasion and tooth's shear, increasing drive efficiency, belt and sprocket's life, and reducing noise
- Idlers can be used on the backside and front-side of the belt
- With our TAPER-LOCK® bushing installation an easy on, easy off process is assured

# FEATURES / BENEFITS

## Energy Efficient, High Torque Belt Drive System

The US Department of Energy encourages the use of synchronous belts in all motor installations to maintain an overall efficiency rating of 98% across a wide load range. The HT500 Synchronous Belt is designed to offer the energy efficiency of a synchronous belt drive in a compact design.



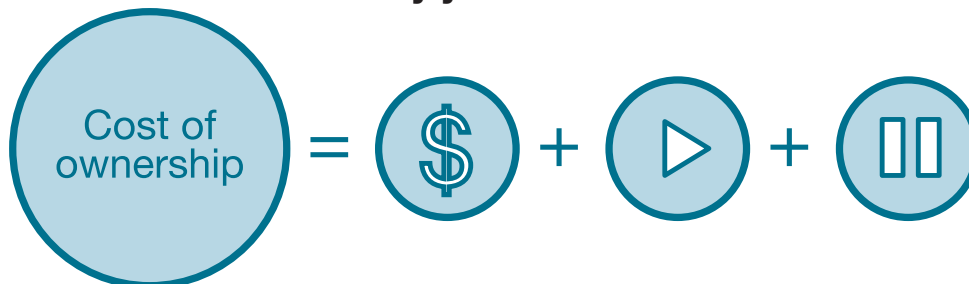
**HT500 75HP Drive Example**  
**Energy Savings = Annual Energy Use x (1 – n1/n2)**

| Mechanical Drive Comparison   |                                     |   |  |
|---|-------------------------------------|---|--|
| Application Data  |                                     | V-Belt Drive  | HT500 Drive  |
| Motor HP  | 75                                  | Efficiency 93%  | Efficiency 98%   |
| RPM   | 1800                                | Status: Current   | Status: New  |
| Nameplate Efficiency  | 95.4                                | 264,920 kWh/yr x .93<br>= 246,376 kWh/yr<br>264,920 - 246,376 kWh/yr<br>= 18,544 kWh/yr or 7%         | 264,920 kWh/yr x .98<br>= 259,622 kWh/yr<br>264,920 - 259,622 kWh/yr<br>= 5,298 kWh/yr or 2% |
| Motor Load  | 75%                                 |   |  |
| Estimated kW/hr rate  | \$0.10                              |   |  |
| Estimated kW/hr use by motor  | 264,920 kWh/yr                      |   |  |
| Duty Cycle  | Continuous 6000 hrs x yr (3 shifts) | 18,544 kWh/yr x \$0.10<br>= \$1,854.40 USD  | 5,298 kWh/yr x \$0.10<br>= \$529.80 USD  |
| Efficiency loss kWh/yr and \$USD  |                                     |   |  |
| Kilowatt hour potential savings when Using HT500 Synchronous Drive System |                                     | <b>Energy Savings = 264,920 kWh/yr x (1 – 93/98) = 13,516 kWh/yr</b><br><b>13,516 kWh/yr x \$0.10</b> |  |
| Potential Energy Saving gain from using HT500 Synchronous Drive System    |                                     | <b>\$1,352.00 USD</b>   |  |

### Additional Benefits from HT500

- No Maintenance Cost
- Zero slip
- Constant time, speed
- Positive engagement
- Less downtime

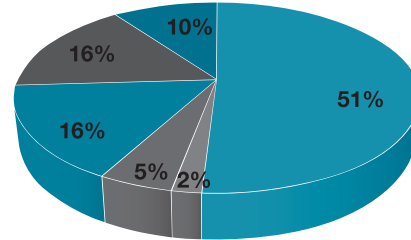
**Our Value added solution will not only save you time and money short term, but many years thereafter**



# FEATURES / BENEFITS

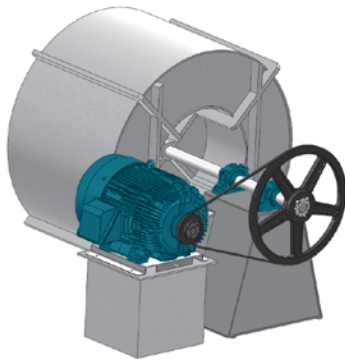
## Energy Efficient, High Torque Belt Drive System

The Institute Electrical and Electronics Engineers (IEEE) conducted a survey to identify major causes of motor failures; the chart below is an abstract from their Petro-Chemical paper PCIC-94-01. It concludes that 51% of all motor failure is attributed to bearing problems. By decreasing the belt pull and overall overhung load, a motor bearing will last longer.



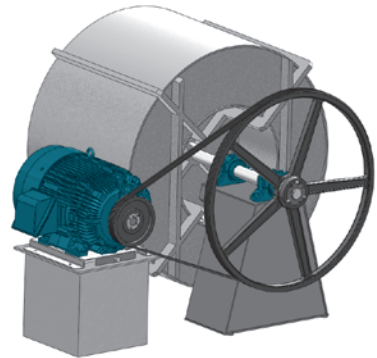
- Bearings
- External - environment, voltage & load. Likely to happen again.
- Shaft Couplings
- Rotor Bar
- Stator Winding
- Unknown - no root failure analysis

## HT500 75HP Synchronous Drive vs. V-Belt Drive Comparison



### General application specifications

**HP:** 75  
**Freq:** 60HZ  
**Enclosure:** TEFC  
**RPM:** 1800  
**Frame:** 365T (NEMA)  
**Ratio:** 4:1



| Name            | Description             | Part Number |
|-----------------|-------------------------|-------------|
| Driver Sprocket | 14MX-45S-20             | 482031      |
| Driver Bushing  | 3020 x 2-3/8-KW         | 117124      |
| Driven Sprocket | 14MX-180S-20            | 482048      |
| Driven Bushing  | 3525 x 1-15/16-KW       | 119709      |
| Belt(s) (QTY:1) | HT500 Belt 3500-14MX-20 | 142766      |
| Motor           | 75HP/60HZ/4P/365T Frame | ECP4316T-4  |
| Motor Base      | 45B type B slide base   | 122118      |

**HT500  
VS  
V-BELT**

| Name            | Description             | Part Number |
|-----------------|-------------------------|-------------|
| Driver Sheave   | 3/5V12.5-3020           | 111103      |
| Driver Bushing  | 3020 x 2-3/8-KW         | 117124      |
| Driven Sheave   | 3/5V50.0-4040           | 111014      |
| Driven Bushing  | 4040 x 1-15/16-KW       | 117316      |
| Belt(s) (QTY:3) | 5VX1800 Belt            | 107186      |
| Motor           | 75HP/60HZ/4P/365T Frame | ECP4316T-4  |
| Motor Base      | 45B type B slide base   | 122118      |

### Our Total Cost of Ownership Solution!

We want to offer you added value solutions so you can achieve your maximum potential cost savings

- Driver sheave diameter reduced by 38%
- Driven sheave diameter reduced by 37%
- Used 1 belt instead of 3
- Cost Reduction
- Reduced overall drive weight by 51%
- Belt pull reduced by 23% which increases the L10 life of the motor bearing by a factor of 2

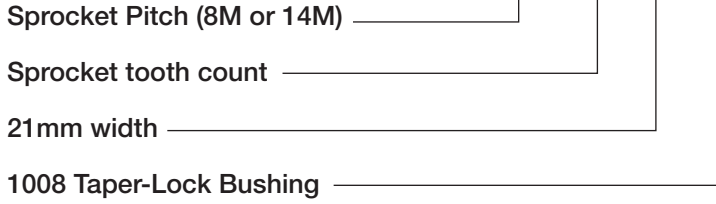


# FEATURES / BENEFITS

## HT500 Sprocket & Belt Part Nomenclature

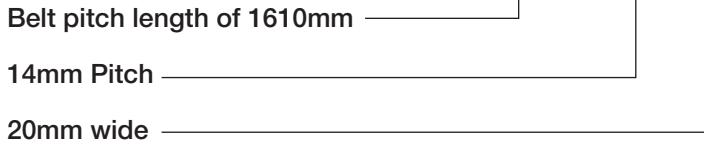
### Sprocket Designation

8MX-22S-21 1008



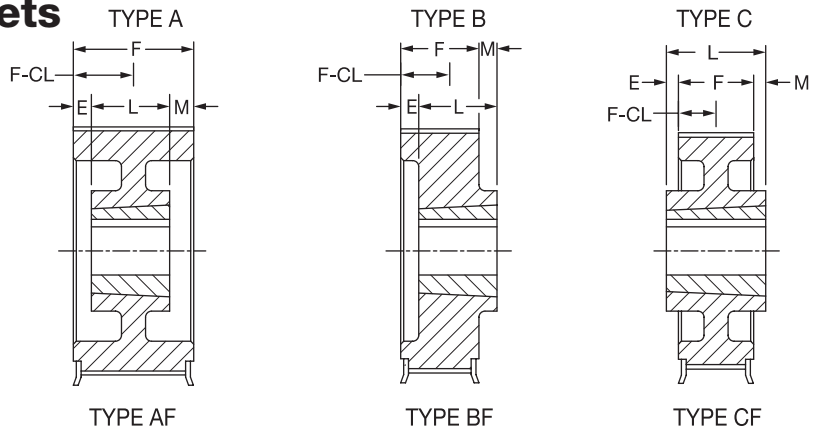
### Belt Designation

1610 - 14MX-20



# SPECIFICATION

## HT500 TAPER-LOCK Sprockets



1 = Block      2 = Web      3 = Arms

The letter "F" in column "Type" indicates that Sprocket has flanges

### 8M HT500 Sprocket

| Sprocket Number  | Part No.      | No. Of Teeth | Diameters (In.) |        |        | Type | Dimensions (In.) |      |      | Bore Sizes |         | Approx. Weight (Lbs.) | Approx. WR <sup>2</sup> (Lb-Ft <sup>2</sup> ) |
|------------------|---------------|--------------|-----------------|--------|--------|------|------------------|------|------|------------|---------|-----------------------|---|
|                  |               |              | P.D.            | O.D.   | Flange |      | E                | L    | M    | Min.       | Max.    |                       |   |
| <b>8MX-12</b>    |               |              | <b>F = .85"</b> |        |        |      |                  |      |      |            |         |                       |   |
| 8MX-22S-12-1008  | <b>481875</b> | 22           | 2.206           | 2.143  | 2.606  | A1F  | 0                | 0.88 | 0    | 1/2        | 1       | 0.4                   | 0.0020  |
| 8MX-25S-12-1108  | <b>481876</b> | 25           | 2.506           | 2.443  | 2.906  | A1F  | 0                | 0.88 | 0    | 1/2        | 1       | 0.6                   | 0.0038  |
| 8MX-26S-12-1108  | <b>481877</b> | 26           | 2.607           | 2.544  | 2.906  | A1F  | 0                | 0.88 | 0    | 1/2        | 1 1/8   | 0.6                   | 0.0045  |
| 8MX-27S-12-1108  | <b>481878</b> | 27           | 2.707           | 2.644  | 3.207  | A1F  | 0                | 0.88 | 0    | 1/2        | 1 1/8   | 0.7                   | 0.0054  |
| 8MX-28S-12-1108  | <b>481879</b> | 28           | 2.807           | 2.744  | 3.207  | A1F  | 0                | 0.88 | 0    | 1/2        | 1 1/8   | 0.9                   | 0.0064  |
| 8MX-29S-12-1108  | <b>481880</b> | 29           | 2.907           | 2.844  | 3.090  | A1F  | 0                | 0.88 | 0    | 1/2        | 1 1/8   | 0.9                   | 0.0075  |
| 8MX-30S-12-1108  | <b>481881</b> | 30           | 3.008           | 2.945  | 3.408  | A1F  | 0                | 0.88 | 0    | 1/2        | 1 1/8   | 1.0                   | 0.0087  |
| 8MX-31S-12-1210  | <b>481882</b> | 31           | 3.108           | 3.045  | 3.328  | A1F  | 0                | 1.00 | 0    | 1/2        | 1 1/4   | 1.1                   | 0.0101  |
| 8MX-32S-12-1210  | <b>481883</b> | 32           | 3.208           | 3.145  | 3.608  | A1F  | 0                | 1.00 | 0    | 1/2        | 1 1/4   | 1.1                   | 0.0117  |
| 8MX-33S-12-1610  | <b>481884</b> | 33           | 3.308           | 3.245  | 3.566  | A1F  | 0                | 1.00 | 0    | 1/2        | 1 11/16 | 1.1                   | 0.0152  |
| 8MX-34S-12-1610  | <b>481885</b> | 34           | 3.409           | 3.346  | 3.810  | A1F  | 0                | 1.00 | 0    | 1/2        | 1 11/16 | 1.2                   | 0.0175  |
| 8MX-35S-12-1610  | <b>481886</b> | 35           | 3.509           | 3.446  | 3.805  | A1F  | 0                | 1.00 | 0    | 1/2        | 1 11/16 | 1.3                   | 0.0200  |
| 8MX-36S-12-1610  | <b>481887</b> | 36           | 3.609           | 3.546  | 4.009  | A1F  | 0                | 1.00 | 0    | 1/2        | 1 11/16 | 1.4                   | 0.0227  |
| 8MX-37S-12-1610  | <b>481888</b> | 37           | 3.709           | 3.646  | 4.044  | A1F  | 0                | 1.00 | 0    | 1/2        | 1 11/16 | 1.6                   | 0.0257  |
| 8MX-38S-12-1610  | <b>481889</b> | 38           | 3.810           | 3.747  | 4.210  | A1F  | 0                | 1.00 | 0    | 1/2        | 1 11/16 | 1.7                   | 0.0290  |
| 8MX-39S-12-1610  | <b>481890</b> | 39           | 3.910           | 3.847  | 4.410  | A1F  | 0                | 1.00 | 0    | 1/2        | 1 11/16 | 1.9                   | 0.0326  |
| 8MX-40S-12-2012  | <b>481891</b> | 40           | 4.010           | 3.947  | 4.410  | B1F  | 0                | 1.25 | 0,40 | 1/2        | 2 1/8   | 1.9                   | 0.0413  |
| 8MX-41S-12-2012  | <b>481892</b> | 41           | 4.110           | 4.047  | 4.520  | B1F  | 0                | 1.25 | 0,40 | 1/2        | 2 1/8   | 2.1                   | 0.0462  |
| 8MX-42S-12-2012  | <b>481893</b> | 42           | 4.211           | 4.148  | 4.911  | B1F  | 0                | 1.25 | 0,40 | 1/2        | 2 1/8   | 2.2                   | 0.0515  |
| 8MX-45S-12-2012  | <b>481894</b> | 45           | 4.511           | 4.448  | 4.911  | B1F  | 0                | 1.25 | 0,40 | 1/2        | 2 1/8   | 2.5                   | 0.0702  |
| 8MX-48S-12-2012  | <b>481895</b> | 48           | 4.812           | 4.749  | 5.212  | B1F  | 0                | 1.25 | 0,40 | 1/2        | 2 1/8   | 2.7                   | 0.0936  |
| 8MX-50S-12-2012  | <b>481896</b> | 50           | 5.013           | 4.950  | 5.413  | B1F  | 0                | 1.25 | 0,40 | 1/2        | 2 1/8   | 3.1                   | 0.1120  |
| 8MX-53S-12-2012  | <b>481897</b> | 53           | 5.314           | 5.251  | 5.500  | B1F  | 0                | 1.25 | 0,40 | 1/2        | 2 1/8   | 3.8                   | 0.1447  |
| 8MX-56S-12-2012  | <b>481898</b> | 56           | 5.614           | 5.551  | 6.014  | B1F  | 0                | 1.25 | 0,40 | 1/2        | 2 1/8   | 5.4                   | 0.1839  |
| 8MX-60S-12-2012  | <b>481899</b> | 60           | 6.015           | 5.952  | 6.415  | B1F  | 0                | 1.25 | 0,40 | 1/2        | 2 1/8   | 5.5                   | 0.2480  |
| 8MX-63S-12-2012  | <b>481900</b> | 63           | 6.316           | 6.253  | 6.716  | B2F  | 0                | 1.25 | 0,40 | 1/2        | 2 1/8   | 5.5                   | 0.1409  |
| 8MX-67S-12-2012  | <b>481901</b> | 67           | 6.717           | 6.654  | 6.875  | B2F  | 0                | 1.25 | 0,40 | 1/2        | 2 1/8   | 6.0                   | 0.1798  |
| 8MX-71S-12-2012  | <b>481902</b> | 71           | 7.118           | 7.055  | 7.500  | B2F  | 0                | 1.25 | 0,40 | 1/2        | 2 1/8   | 6.5                   | 0.2263  |
| 8MX-75S-12-2012  | <b>481903</b> | 75           | 7.519           | 7.456  | 7.919  | B2F  | 0                | 1.25 | 0,40 | 1/2        | 2 1/8   | 7.0                   | 0.2814  |
| 8MX-80S-12-2012  | <b>481904</b> | 80           | 8.020           | 7.957  | 8.420  | B2F  | 0                | 1.25 | 0,40 | 1/2        | 2 1/8   | 9.6                   | 0.3640  |
| 8MX-90S-12-2012  | <b>481905</b> | 90           | 9.023           | 8.960  | ---    | B2   | 0                | 1.25 | 0,40 | 1/2        | 2 1/8   | 9.4                   | 0.5823  |
| 8MX-112S-12-2012 | <b>481906</b> | 112          | 11.229          | 11.166 | ---    | B2   | 0                | 1.25 | 0,40 | 1/2        | 2 1/8   | 16.6                  | 1.3980  |
| 8MX-140S-12-2012 | <b>481907</b> | 140          | 14.036          | 13.973 | ---    | B3   | 0                | 1.25 | 0,40 | 1/2        | 2 1/8   | 17.3                  | 1.1757  |
| 8MX-180S-12-2517 | <b>481908</b> | 180          | 18.046          | 17.983 | ---    | B3   | 0                | 1.75 | 0,90 | 1/2        | 2 11/16 | 30.0                  | 2.8678  |
| 8MX-224S-12-2517 | <b>481909</b> | 224          | 22.457          | 22.394 | ---    | B3   | 0                | 1.75 | 0,90 | 1/2        | 2 11/16 | 41.2                  | 6.2533  |

# SPECIFICATION

## HT500 TAPER-LOCK Sprockets (Continued)

### 8M HT500 Sprockets

| Sprocket Number  | Part No.      | No. Of Teeth | Diameters (In.)  |        |        | Type | Dimensions (In.) |      |      | Bore Sizes |         | Approx. Weight (Lbs.) | Approx. WR <sup>2</sup> (Lb-Ft <sup>2</sup> ) |
|------------------|---------------|--------------|------------------|--------|--------|------|------------------|------|------|------------|---------|-----------------------|---|
|                  |               |              | P.D.             | O.D.   | Flange |      | E                | L    | M    | Min.       | Max     |                       |   |
| <b>8MX-21</b>    |               |              | <b>F = 1.20"</b> |        |        |      |                  |      |      |            |         |                       |   |
| 8MX-22S-21-1008  | <b>481915</b> | 22           | 2.206            | 2.143  | 2.606  | A1F  | 0                | 0.88 | 0.32 | 1/2        | 1       | 0.4                   | 0.0025  |
| 8MX-25S-21-1108  | <b>481916</b> | 25           | 2.506            | 2.443  | 2.906  | A1F  | 0                | 0.88 | 0.32 | 1/2        | 1 1/8   | 0.6                   | 0.0046  |
| 8MX-26S-21-1108  | <b>481917</b> | 26           | 2.607            | 2.544  | 2.906  | A1F  | 0                | 0.88 | 0.32 | 1/2        | 1 1/8   | 0.6                   | 0.0055  |
| 8MX-27S-21-1108  | <b>481918</b> | 27           | 2.707            | 2.644  | 3.207  | A1F  | 0                | 0.88 | 0.32 | 1/2        | 1 1/8   | 0.7                   | 0.0065  |
| 8MX-28S-21-1108  | <b>481919</b> | 28           | 2.807            | 2.744  | 3.207  | A1F  | 0                | 0.88 | 0.32 | 1/2        | 1 1/8   | 0.9                   | 0.0076  |
| 8MX-29S-21-1108  | <b>481920</b> | 29           | 2.907            | 2.844  | 3.090  | A1F  | 0                | 0.88 | 0.32 | 1/2        | 1 1/8   | 1.0                   | 0.0089  |
| 8MX-30S-21-1108  | <b>481921</b> | 30           | 3.008            | 2.945  | 3.408  | A1F  | 0                | 0.88 | 0.32 | 1/2        | 1 1/8   | 1.1                   | 0.0104  |
| 8MX-31S-21-1210  | <b>481922</b> | 31           | 3.108            | 3.045  | 3.328  | A1F  | 0                | 1.00 | 0.20 | 1/2        | 1 1/4   | 1.3                   | 0.0120  |
| 8MX-32S-21-1210  | <b>481923</b> | 32           | 3.208            | 3.145  | 3.608  | A1F  | 0                | 1.00 | 0.20 | 1/2        | 1 1/4   | 1.4                   | 0.0137  |
| 8MX-33S-21-1610  | <b>481924</b> | 33           | 3.308            | 3.245  | 3.566  | A1F  | 0                | 1.00 | 0.20 | 1/2        | 1 11/16 | 1.5                   | 0.0173  |
| 8MX-34S-21-1610  | <b>481925</b> | 34           | 3.409            | 3.346  | 3.810  | A1F  | 0                | 1.00 | 0.20 | 1/2        | 1 11/16 | 1.6                   | 0.0198  |
| 8MX-35S-21-1610  | <b>481926</b> | 35           | 3.509            | 3.446  | 3.805  | A1F  | 0                | 1.00 | 0.20 | 1/2        | 1 11/16 | 1.6                   | 0.0226  |
| 8MX-36S-21-1610  | <b>481927</b> | 36           | 3.609            | 3.546  | 4.009  | A1F  | 0                | 1.00 | 0.20 | 1/2        | 1 11/16 | 1.8                   | 0.0256  |
| 8MX-37S-21-1610  | <b>481928</b> | 37           | 3.709            | 3.646  | 4.044  | A1F  | 0                | 1.00 | 0.20 | 1/2        | 1 11/16 | 1.8                   | 0.0289  |
| 8MX-38S-21-1610  | <b>481929</b> | 38           | 3.810            | 3.747  | 4.210  | A1F  | 0                | 1.00 | 0.20 | 1/2        | 1 11/16 | 1.9                   | 0.0325  |
| 8MX-39S-21-1610  | <b>481930</b> | 39           | 3.910            | 3.847  | 4.410  | A1F  | 0                | 1.00 | 0.20 | 1/2        | 1 11/16 | 1.9                   | 0.0364  |
| 8MX-40S-21-2012  | <b>481931</b> | 40           | 4.010            | 3.947  | 4.410  | A1F  | 0                | 1.25 | 0    | 1/2        | 2 1/8   | 2.3                   | 0.0450  |
| 8MX-41S-21-2012  | <b>481932</b> | 41           | 4.110            | 4.047  | 4.520  | A1F  | 0                | 1.25 | 0    | 1/2        | 2 1/8   | 2.3                   | 0.0502  |
| 8MX-42S-21-2012  | <b>481933</b> | 42           | 4.211            | 4.148  | 4.911  | A1F  | 0                | 1.25 | 0    | 1/2        | 2 1/8   | 2.5                   | 0.0559  |
| 8MX-45S-21-2012  | <b>481934</b> | 45           | 4.511            | 4.448  | 4.911  | A1F  | 0                | 1.25 | 0    | 1/2        | 2 1/8   | 2.9                   | 0.0758  |
| 8MX-48S-21-2012  | <b>481935</b> | 48           | 4.812            | 4.749  | 5.212  | A1F  | 0                | 1.25 | 0    | 1/2        | 2 1/8   | 3.4                   | 0.1006  |
| 8MX-50S-21-2012  | <b>481936</b> | 50           | 5.013            | 4.950  | 5.413  | A1F  | 0                | 1.25 | 0    | 1/2        | 2 1/8   | 4.0                   | 0.1201  |
| 8MX-53S-21-2012  | <b>481937</b> | 53           | 5.314            | 5.251  | 5.500  | A1F  | 0                | 1.25 | 0    | 1/2        | 2 1/8   | 4.5                   | 0.1545  |
| 8MX-56S-21-2012  | <b>481938</b> | 56           | 5.614            | 5.551  | 6.014  | A1F  | 0                | 1.25 | 0    | 1/2        | 2 1/8   | 4.9                   | 0.1958  |
| 8MX-60S-21-2012  | <b>481939</b> | 60           | 6.015            | 5.952  | 6.415  | A1F  | 0                | 1.25 | 0    | 1/2        | 2 1/8   | 6.4                   | 0.2631  |
| 8MX-63S-21-2012  | <b>481940</b> | 63           | 6.316            | 6.253  | 6.716  | B2F  | 0                | 1.25 | 0.05 | 1/2        | 2 1/8   | 7.7                   | 0.1706  |
| 8MX-67S-21-2517  | <b>481941</b> | 67           | 6.717            | 6.654  | 6.875  | B2F  | 0                | 1.75 | 0.55 | 1/2        | 2 11/16 | 8.3                   | 0.2195  |
| 8MX-71S-21-2517  | <b>481942</b> | 71           | 7.118            | 7.055  | 7.500  | B2F  | 0                | 1.75 | 0.55 | 1/2        | 2 11/16 | 8.7                   | 0.2735  |
| 8MX-75S-21-2517  | <b>481943</b> | 75           | 7.519            | 7.456  | 7.919  | B2F  | 0                | 1.75 | 0.55 | 1/2        | 2 11/16 | 9.2                   | 0.3372  |
| 8MX-80S-21-2517  | <b>481944</b> | 80           | 8.020            | 7.957  | 8.420  | B2F  | 0                | 1.75 | 0.55 | 1/2        | 2 11/16 | 9.8                   | 0.4319  |
| 8MX-90S-21-2517  | <b>481945</b> | 90           | 9.023            | 8.960  | ---    | B2   | 0                | 1.75 | 0.55 | 1/2        | 2 11/16 | 12.8                  | 0.6794  |
| 8MX-112S-21-2517 | <b>481946</b> | 112          | 11.229           | 11.166 | ---    | B2   | 0                | 1.75 | 0.55 | 1/2        | 2 11/16 | 19.4                  | 1.5916  |
| 8MX-140S-21-2517 | <b>481947</b> | 140          | 14.036           | 13.973 | ---    | B3   | 0                | 1.75 | 0.55 | 1/2        | 2 11/16 | 26.8                  | 1.8107  |
| 8MX-180S-21-3020 | <b>481948</b> | 180          | 18.046           | 17.983 | ---    | B3   | 0                | 2.00 | 0.80 | 7/8        | 3 1/4   | 36.6                  | 4.4030  |
| 8MX-224S-21-3020 | <b>481949</b> | 224          | 22.457           | 22.394 | ---    | B3   | 0                | 2.00 | 0.80 | 7/8        | 3 1/4   | 50.1                  | 9.5391  |
| <b>8MX-36</b>    |               |              | <b>F = 1.86"</b> |        |        |      |                  |      |      |            |         |                       |   |
| 8MX-32S-36-1210  | <b>481958</b> | 32           | 3.208            | 3.145  | 3.608  | A1F  | 0                | 1.00 | 0.86 | 1/2        | 1 1/4   | 1.7                   | 0.0188  |
| 8MX-33S-36-1610  | <b>481959</b> | 33           | 3.308            | 3.245  | 3.566  | A1F  | 0                | 1.00 | 0.86 | 1/2        | 1 11/16 | 1.7                   | 0.0223  |
| 8MX-34S-36-1610  | <b>481960</b> | 34           | 3.409            | 3.346  | 3.810  | A1F  | 0                | 1.00 | 0.86 | 1/2        | 1 11/16 | 1.8                   | 0.0254  |
| 8MX-35S-36-1610  | <b>481961</b> | 35           | 3.509            | 3.446  | 3.805  | A1F  | 0                | 1.00 | 0.86 | 1/2        | 1 11/16 | 1.8                   | 0.0288  |
| 8MX-36S-36-1610  | <b>481962</b> | 36           | 3.609            | 3.546  | 4.009  | A1F  | 0                | 1.00 | 0.86 | 1/2        | 1 11/16 | 2.1                   | 0.0324  |
| 8MX-37S-36-1610  | <b>481963</b> | 37           | 3.709            | 3.646  | 4.044  | A1F  | 0                | 1.00 | 0.86 | 1/2        | 1 11/16 | 2.1                   | 0.0364  |
| 8MX-38S-36-1610  | <b>481964</b> | 38           | 3.810            | 3.747  | 4.210  | A1F  | 0                | 1.00 | 0.86 | 1/2        | 1 11/16 | 2.4                   | 0.0408  |
| 8MX-39S-36-1610  | <b>481965</b> | 39           | 3.910            | 3.847  | 4.410  | A1F  | 0                | 1.00 | 0.86 | 1/2        | 1 11/16 | 2.4                   | 0.0455  |
| 8MX-40S-36-2012  | <b>481966</b> | 40           | 4.010            | 3.947  | 4.410  | A1F  | 0                | 1.25 | 0.61 | 1/2        | 2 1/8   | 2.5                   | 0.0547  |
| 8MX-41S-36-2012  | <b>481967</b> | 41           | 4.110            | 4.047  | 4.520  | A1F  | 0                | 1.25 | 0.61 | 1/2        | 2 1/8   | 2.8                   | 0.0608  |
| 8MX-42S-36-2012  | <b>481968</b> | 42           | 4.211            | 4.148  | 4.911  | A1F  | 0                | 1.25 | 0.61 | 1/2        | 2 1/8   | 3.3                   | 0.0675  |
| 8MX-45S-36-2012  | <b>481969</b> | 45           | 4.511            | 4.448  | 4.911  | A1F  | 0                | 1.25 | 0.61 | 1/2        | 2 1/8   | 3.4                   | 0.0905  |
| 8MX-48S-36-2012  | <b>481970</b> | 48           | 4.812            | 4.749  | 5.212  | A1F  | 0                | 1.25 | 0.61 | 1/2        | 2 1/8   | 5.1                   | 0.1190  |



# SPECIFICATION

## HT500 TAPER-LOCK Sprockets (Continued)

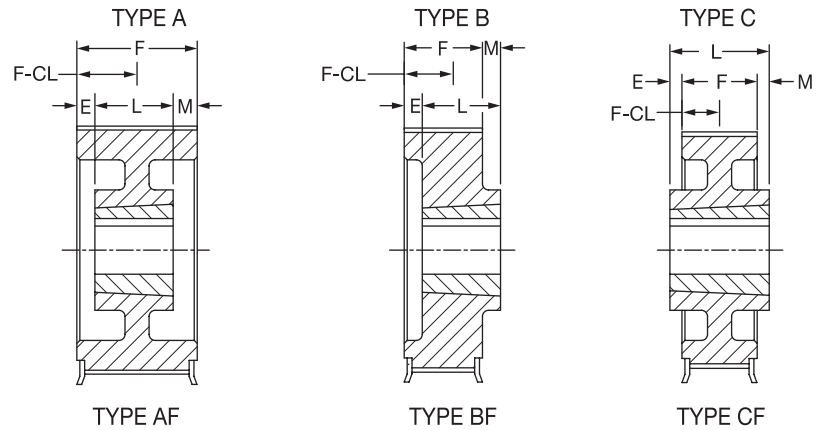
### 8M HT500 Sprockets

| Sprocket Number   | Part No.      | No. Of Teeth | Diameters (In.) |        |        | Type | Dimensions (In.) |      |      | Bore Sizes |         | Approx. Weight (Lbs.) | Approx. WR <sup>2</sup> (Lb-Ft <sup>2</sup> ) |
|---|---------------|--------------|-----------------|--------|--------|------|------------------|------|------|------------|---------|-----------------------|---|
|   |               |              | P.D.            | O.D.   | Flange |      | E                | L    | M    | Min.       | Max     |                       |   |
| <b>8MX-36</b> <span style="float: right;"><b>F = 1.86"</b></span> |               |              |                 |        |        |      |                  |      |      |            |         |                       |   |
| 8MX-50S-36-2012   | <b>481971</b> | 50           | 5.013           | 4.950  | 5.413  | A1F  | 0                | 1.25 | 0.61 | 1/2        | 2 1/8   | 5.1                   | 0.1413  |
| 8MX-53S-36-2012   | <b>481972</b> | 53           | 5.314           | 5.251  | 5.500  | A1F  | 0                | 1.25 | 0.61 | 1/2        | 2 1/8   | 6.0                   | 0.1804  |
| 8MX-56S-36-2012   | <b>481973</b> | 56           | 5.614           | 5.551  | 6.014  | A1F  | 0                | 1.25 | 0.61 | 1/2        | 2 1/8   | 6.6                   | 0.2271  |
| 8MX-60S-36-2517   | <b>481974</b> | 60           | 6.015           | 5.952  | 6.415  | A1F  | 0                | 1.75 | 0.11 | 1/2        | 2 11/16 | 8.0                   | 0.3018  |
| 8MX-63S-36-2517   | <b>481975</b> | 63           | 6.316           | 6.253  | 6.716  | A1F  | 0                | 1.75 | 0.11 | 1/2        | 2 11/16 | 9.3                   | 0.3698  |
| 8MX-67S-36-2517   | <b>481976</b> | 67           | 6.717           | 6.654  | 6.875  | A2F  | 0                | 1.75 | 0.11 | 1/2        | 2 11/16 | 10.0                  | 0.2896  |
| 8MX-71S-36-2517   | <b>481977</b> | 71           | 7.118           | 7.055  | 7.500  | A2F  | 0                | 1.75 | 0.11 | 1/2        | 2 11/16 | 12.0                  | 0.3579  |
| 8MX-75S-36-2517   | <b>481978</b> | 75           | 7.519           | 7.456  | 7.919  | A2F  | 0                | 1.75 | 0.11 | 1/2        | 2 11/16 | 13.3                  | 0.4378  |
| 8MX-80S-36-3020   | <b>481979</b> | 80           | 8.020           | 7.957  | 8.420  | B2F  | 0                | 2.00 | 0.14 | 7/8        | 3 1/4   | 15.3                  | 0.5851  |
| 8MX-90S-36-3020   | <b>481980</b> | 90           | 9.023           | 8.960  | ---    | B2   | 0                | 2.00 | 0.14 | 7/8        | 3 1/4   | 20.9                  | 0.8894  |
| 8MX-112S-36-3020  | <b>481981</b> | 112          | 11.229          | 11.166 | ---    | B2   | 0                | 2.00 | 0.14 | 7/8        | 3 1/4   | 29.7                  | 1.9883  |
| 8MX-140S-36-3020  | <b>481982</b> | 140          | 14.036          | 13.973 | ---    | B3   | 0                | 2.00 | 0.14 | 7/8        | 3 1/4   | 39.3                  | 2.8686  |
| 8MX-180S-36-3020  | <b>481983</b> | 180          | 18.046          | 17.983 | ---    | B3   | 0                | 2.00 | 0.14 | 7/8        | 3 1/4   | 48.9                  | 6.9025  |
| 8MX-224S-36-3525  | <b>481984</b> | 224          | 22.457          | 22.394 | ---    | B3   | 0                | 2.25 | 0.64 | 1 3/16     | 3 15/16 | 92.2                  | 14.9010                                       |
| <b>8MX-62</b> <span style="float: right;"><b>F = 2.91"</b></span> |               |              |                 |        |        |      |                  |      |      |            |         |                       |   |
| 8MX-34S-62-1610   | <b>481996</b> | 34           | 3.409           | 3.346  | 3.810  | A1F  | 0                | 1.00 | 1.91 | 1/2        | 1 11/16 | 5.0                   | 0.0380  |
| 8MX-36S-62-1610   | <b>481997</b> | 36           | 3.609           | 3.546  | 4.009  | A1F  | 0                | 1.00 | 1.91 | 1/2        | 1 11/16 | 5.3                   | 0.0484  |
| 8MX-38S-62-1610   | <b>481998</b> | 38           | 3.812           | 3.747  | 4.210  | A1F  | 0                | 1.00 | 1.91 | 1/2        | 1 11/16 | 5.6                   | 0.0607  |
| 8MX-40S-62-2012   | <b>481999</b> | 40           | 4.010           | 3.947  | 4.410  | A1F  | 0                | 1.25 | 1.66 | 1/2        | 2 1/8   | 5.9                   | 0.0749  |
| 8MX-42S-62-2012   | <b>482000</b> | 42           | 4.211           | 4.148  | 4.911  | A1F  | 0                | 1.25 | 1.66 | 1/2        | 2 1/8   | 6.1                   | 0.0919  |
| 8MX-45S-62-2012   | <b>482001</b> | 45           | 4.511           | 4.448  | 4.911  | A1F  | 0                | 1.25 | 1.66 | 1/2        | 2 1/8   | 6.5                   | 0.1226  |
| 8MX-48S-62-2517   | <b>482002</b> | 48           | 4.812           | 4.749  | 5.212  | A1F  | 0                | 1.75 | 1.16 | 1/2        | 2 11/16 | 6.6                   | 0.1594  |
| 8MX-50S-62-2517   | <b>482003</b> | 50           | 5.013           | 4.950  | 5.413  | A1F  | 0                | 1.75 | 1.16 | 1/2        | 2 11/16 | 6.7                   | 0.1891  |
| 8MX-53S-62-2517   | <b>482004</b> | 53           | 5.314           | 5.251  | 5.500  | A1F  | 0                | 1.75 | 1.16 | 1/2        | 2 11/16 | 6.9                   | 0.2412  |
| 8MX-56S-62-2517   | <b>482005</b> | 56           | 5.614           | 5.551  | 6.014  | A1F  | 0                | 1.75 | 1.16 | 1/2        | 2 11/16 | 7.2                   | 0.3034  |
| 8MX-60S-62-3020   | <b>482006</b> | 60           | 6.015           | 5.952  | 6.415  | A1F  | 0                | 2.00 | 0.91 | 7/8        | 3 1/4   | 8.9                   | 0.4298  |
| 8MX-63S-62-3020   | <b>482007</b> | 63           | 6.316           | 6.253  | 6.716  | A1F  | 0                | 2.00 | 0.91 | 7/8        | 3 1/4   | 10.3                  | 0.5261  |
| 8MX-67S-62-3020   | <b>482008</b> | 67           | 6.717           | 6.654  | 6.875  | A1F  | 0                | 2.00 | 0.91 | 7/8        | 3 1/4   | 11.0                  | 0.6781  |
| 8MX-71S-62-3020   | <b>482009</b> | 71           | 7.118           | 7.055  | 7.500  | A1F  | 0                | 2.00 | 0.91 | 7/8        | 3 1/4   | 13.5                  | 0.8605  |
| 8MX-75S-62-3020   | <b>482010</b> | 75           | 7.519           | 7.456  | 7.919  | A1F  | 0                | 2.00 | 0.91 | 7/8        | 3 1/4   | 15.4                  | 1.0770  |
| 8MX-80S-62-3020   | <b>482011</b> | 80           | 8.020           | 7.957  | 8.420  | A1F  | 0                | 2.00 | 0.91 | 7/8        | 3 1/4   | 23.0                  | 1.4016  |
| 8MX-90S-62-3020   | <b>482012</b> | 90           | 9.023           | 8.960  | ---    | A2   | 0                | 2.00 | 0.91 | 7/8        | 3 1/4   | 32.7                  | 1.2239  |
| 8MX-112S-62-3020  | <b>482013</b> | 112          | 11.229          | 11.166 | ---    | A2   | 0                | 2.00 | 0.91 | 7/8        | 3 1/4   | 38.9                  | 2.6610  |
| 8MX-140S-62-3525  | <b>482014</b> | 140          | 14.036          | 13.973 | ---    | A2   | 0                | 2.25 | 0.66 | 1 3/16     | 3 15/16 | 54.5                  | 6.0574  |
| 8MX-180S-62-3525  | <b>482015</b> | 180          | 18.046          | 17.983 | ---    | A3   | 0                | 2.25 | 0.66 | 1 3/16     | 3 15/16 | 68.2                  | 10.995  |
| 8MX-224S-62-3525  | <b>482016</b> | 224          | 22.457          | 22.394 | ---    | A3   | 0                | 2.25 | 0.66 | 1 3/16     | 3 15/16 | 92.3                  | 23.619  |

# SPECIFICATION



## HT500 TAPER-LOCK Sprockets



1 = Block 2 = Web 3 = Arms

### 14M HT500 Sprockets

The letter "F" in column "Type" indicates that Sprocket has flanges

| Sprocket Number   | Part No.      | No. Of Teeth | Diameters (In.)  |        |        | Type | Dimensions (In.) |      |      | Bore Sizes |         | Approx. Weight (Lbs.) | Approx. WR <sup>2</sup> (Lb-Ft <sup>2</sup> ) |
|-------------------|---------------|--------------|------------------|--------|--------|------|------------------|------|------|------------|---------|-----------------------|---|
|                   |               |              | P.D.             | O.D.   | Flange |      | E                | L    | M    | Min.       | Max.    |                       |   |
| <b>14MX-20</b>    |               |              | <b>F = 1.36"</b> |        |        |      |                  |      |      |            |         |                       |   |
| 14MX-28S-20-2012  | <b>482017</b> | 28           | 4.912            | 4.802  | 5.402  | A1F  | 0                | 1.25 | 0.11 | 1/2        | 2 1/8   | 3.9                   | 0.0922  |
| 14MX-29S-20-2012  | <b>482018</b> | 29           | 5.088            | 4.978  | 5.763  | A1F  | 0                | 1.25 | 0.11 | 1/2        | 2 1/8   | 4.5                   | 0.1082  |
| 14MX-30S-20-2012  | <b>482019</b> | 30           | 5.263            | 5.153  | 5.763  | A1F  | 0                | 1.25 | 0.11 | 1/2        | 2 1/8   | 4.8                   | 0.1261  |
| 14MX-31S-20-2012  | <b>482020</b> | 31           | 5.439            | 5.329  | 6.114  | A1F  | 0                | 1.25 | 0.11 | 1/2        | 2 1/8   | 5.5                   | 0.1462  |
| 14MX-32S-20-2012  | <b>482021</b> | 32           | 5.614            | 5.504  | 6.114  | A1F  | 0                | 1.25 | 0.11 | 1/2        | 2 1/8   | 5.9                   | 0.1686  |
| 14MX-33S-20-2012  | <b>482022</b> | 33           | 5.790            | 5.680  | 6.465  | A1F  | 0                | 1.25 | 0.11 | 1/2        | 2 1/8   | 6.3                   | 0.1934  |
| 14MX-34S-20-2012  | <b>482023</b> | 34           | 5.965            | 5.855  | 6.465  | A1F  | 0                | 1.25 | 0.11 | 1/2        | 2 1/8   | 6.9                   | 0.2209  |
| 14MX-35S-20-2012  | <b>482024</b> | 35           | 6.141            | 6.031  | 6.816  | A1F  | 0                | 1.25 | 0.11 | 1/2        | 2 1/8   | 7.3                   | 0.2512  |
| 14MX-36S-20-2517  | <b>482025</b> | 36           | 6.316            | 6.206  | 6.816  | B1F  | 0                | 1.75 | 0.39 | 1/2        | 2 11/16 | 7.6                   | 0.2836  |
| 14MX-37S-20-2517  | <b>482026</b> | 37           | 6.492            | 6.382  | 7.167  | B1F  | 0                | 1.75 | 0.39 | 1/2        | 2 11/16 | 8.2                   | 0.3200  |
| 14MX-38S-20-2517  | <b>482027</b> | 38           | 6.667            | 6.557  | 7.167  | B1F  | 0                | 1.75 | 0.39 | 1/2        | 2 11/16 | 8.8                   | 0.3599  |
| 14MX-39S-20-2517  | <b>482028</b> | 39           | 6.842            | 6.732  | 7.518  | B1F  | 0                | 1.75 | 0.39 | 1/2        | 2 11/16 | 9.8                   | 0.4033  |
| 14MX-40S-20-2517  | <b>482029</b> | 40           | 7.018            | 6.908  | 7.518  | B1F  | 0                | 1.75 | 0.39 | 1/2        | 2 11/16 | 10.1                  | 0.4505  |
| 14MX-43S-20-2517  | <b>482030</b> | 43           | 7.544            | 7.434  | 8.044  | B1F  | 0                | 1.75 | 0.39 | 1/2        | 2 11/16 | 11.7                  | 0.6172  |
| 14MX-45S-20-3020  | <b>482031</b> | 45           | 7.895            | 7.785  | 8.395  | B1F  | 0                | 2.00 | 0.64 | 7/8        | 3 1/4   | 13.5                  | 0.9146  |
| 14MX-48S-20-3020  | <b>482032</b> | 48           | 8.421            | 8.311  | 8.941  | B1F  | 0                | 2.00 | 0.64 | 7/8        | 3 1/4   | 16.4                  | 1.2146  |
| 14MX-50S-20-3020  | <b>482033</b> | 50           | 8.772            | 8.662  | 9.292  | B1F  | 0                | 2.00 | 0.64 | 7/8        | 3 1/4   | 18.2                  | 1.4519  |
| 14MX-53S-20-3020  | <b>482034</b> | 53           | 9.299            | 9.189  | 9.688  | B1F  | 0                | 2.00 | 0.64 | 7/8        | 3 1/4   | 20.5                  | 1.8705  |
| 14MX-56S-20-3525  | <b>482035</b> | 56           | 9.825            | 9.715  | 10.355 | B1F  | 0                | 2.50 | 1.14 | 1 3/16     | 3 15/16 | 23.1                  | 2.3648  |
| 14MX-60S-20-3525  | <b>482036</b> | 60           | 10.527           | 10.417 | 11.067 | B1F  | 0                | 2.50 | 1.14 | 1 3/16     | 3 15/16 | 27.4                  | 3.1852  |
| 14MX-63S-20-3525  | <b>482037</b> | 63           | 11.053           | 10.943 | 11.593 | B1F  | 0                | 2.50 | 1.14 | 1 3/16     | 3 15/16 | 30.2                  | 3.9274  |
| 14MX-67S-20-3525  | <b>482038</b> | 67           | 11.755           | 11.645 | 12.500 | B1F  | 0                | 2.50 | 1.14 | 1 3/16     | 3 15/16 | 31.2                  | 5.1094  |
| 14MX-71S-20-3525  | <b>482039</b> | 71           | 12.457           | 12.347 | 13.066 | B2F  | 0                | 2.50 | 1.14 | 1 3/16     | 3 15/16 | 32.5                  | 2.6422  |
| 14MX-75S-20-3525  | <b>482040</b> | 75           | 13.158           | 13.048 | 13.731 | B2F  | 0                | 2.50 | 1.14 | 1 3/16     | 3 15/16 | 36.1                  | 3.2558  |
| 14MX-80S-20-3525  | <b>482041</b> | 80           | 14.036           | 13.926 | 14.620 | B2F  | 0                | 2.50 | 1.14 | 1 3/16     | 3 15/16 | 38.7                  | 4.1694  |
| 14MX-90S-20-3525  | <b>482042</b> | 90           | 15.790           | 15.680 | ---    | B2   | 0                | 2.50 | 1.14 | 1 3/16     | 3 15/16 | 41.3                  | 6.5536  |
| 14MX-112S-20-3525 | <b>482043</b> | 112          | 19.650           | 19.540 | ---    | B3   | 0                | 2.50 | 1.14 | 1 3/16     | 3 15/16 | 59.6                  | 8.7315  |
| 14MX-126S-20-3525 | <b>482044</b> | 126          | 22.106           | 21.996 | ---    | B3   | 0                | 2.50 | 1.14 | 1 3/16     | 3 15/16 | 58.1                  | 13.253  |
| 14MX-140S-20-3525 | <b>482045</b> | 140          | 24.562           | 24.452 | ---    | B3   | 0                | 2.50 | 1.00 | 1 3/16     | 3 15/16 | 94.8                  | 19.265  |
| 14MX-154S-20-3525 | <b>482046</b> | 154          | 27.019           | 26.909 | ---    | B3   | 0                | 2.50 | 1.14 | 1 3/16     | 3 15/16 | 73.4                  | 27.038  |
| 14MX-168S-20-3525 | <b>482047</b> | 168          | 29.475           | 29.365 | ---    | B3   | 0                | 2.50 | 1.00 | 1 3/16     | 3 15/16 | 99.5                  | 36.864  |
| 14MX-180S-20-3525 | <b>482048</b> | 180          | 31.580           | 31.470 | ---    | B3   | 0                | 2.50 | 1.00 | 1 3/16     | 3 15/16 | 107.3                 | 47.142  |
| 14MX-200S-20-3525 | <b>482049</b> | 200          | 35.089           | 34.979 | ---    | B3   | 0                | 2.50 | 1.00 | 1 3/16     | 3 15/16 | 119.0                 | 68.655  |
| 14MX-224S-20-4030 | <b>482050</b> | 224          | 39.300           | 39.190 | ---    | B3   | 0                | 3.00 | 1.50 | 1 7/16     | 4 7/16  | 150.2                 | 102.931                                       |
| <b>14MX-37</b>    |               |              | <b>F = 2.06"</b> |        |        |      |                  |      |      |            |         |                       |   |
| 14MX-28S-37-2012  | <b>482052</b> | 28           | 4.912            | 4.802  | 5.402  | A1F  | 0                | 1.25 | 0.81 | 1/2        | 2 1/8   | 4.2                   | 0.1180  |
| 14MX-29S-37-2517  | <b>482053</b> | 29           | 5.088            | 4.978  | 5.763  | A1F  | 0                | 1.75 | 0.31 | 1/2        | 2 11/16 | 4.7                   | 0.1367  |
| 14MX-30S-37-2517  | <b>482054</b> | 30           | 5.263            | 5.153  | 5.763  | A1F  | 0                | 1.75 | 0.31 | 1/2        | 2 11/16 | 5.0                   | 0.1587  |
| 14MX-31S-37-2517  | <b>482055</b> | 31           | 5.439            | 5.329  | 6.114  | A1F  | 0                | 1.75 | 0.31 | 1/2        | 2 11/16 | 6.0                   | 0.1831  |
| 14MX-32S-37-2517  | <b>482056</b> | 32           | 5.614            | 5.504  | 6.114  | A1F  | 0                | 1.75 | 0.31 | 1/2        | 2 11/16 | 7.2                   | 0.2102  |
| 14MX-33S-37-2517  | <b>482057</b> | 33           | 5.790            | 5.680  | 6.465  | A1F  | 0                | 1.75 | 0.31 | 1/2        | 2 11/16 | 7.5                   | 0.2401  |

# SPECIFICATION

## HT500 TAPER-LOCK Sprockets (Continued)

### 14M HT500 Sprockets

| Sprocket Number          | Part No. | No. Of Teeth | Diameters (In.) |        |        | Type | Dimensions (In.) |      |      | Bore Sizes |         | Approx. Weight (Lbs.) | Approx. WR <sup>2</sup> (Lb-Ft <sup>2</sup> ) |
|--------------------------|----------|--------------|-----------------|--------|--------|------|------------------|------|------|------------|---------|-----------------------|---|
|                          |          |              | P.D.            | O.D.   | Flange |      | E                | L    | M    | Min.       | Max.    |                       |   |
| <b>14MX-37 F = 2.06"</b> |          |              |                 |        |        |      |                  |      |      |            |         |                       |   |
| 14MX-34S-37-2517         | 482058   | 34           | 5.965           | 5.855  | 6.465  | A1F  | 0                | 1.75 | 0.31 | 1/2        | 2 11/16 | 7.8                   | 0.2730  |
| 14MX-35S-37-2517         | 482059   | 35           | 6.141           | 6.031  | 6.816  | A1F  | 0                | 1.75 | 0.31 | 1/2        | 2 11/16 | 8.3                   | 0.3091  |
| 14MX-36S-37-2517         | 482060   | 36           | 6.316           | 6.206  | 6.816  | A1F  | 0                | 1.75 | 0.31 | 1/2        | 2 11/16 | 8.8                   | 0.3487  |
| 14MX-37S-37-2517         | 482061   | 37           | 6.492           | 6.382  | 7.167  | A1F  | 0                | 1.75 | 0.31 | 1/2        | 2 11/16 | 9.3                   | 0.3919  |
| 14MX-38S-37-3020         | 482062   | 38           | 6.667           | 6.557  | 7.167  | A1F  | 0                | 2.00 | 0.06 | 7/8        | 3 1/4   | 10.8                  | 0.5016  |
| 14MX-39S-37-3020         | 482063   | 39           | 6.842           | 6.732  | 7.518  | A1F  | 0                | 2.00 | 0.06 | 7/8        | 3 1/4   | 11.9                  | 0.5620  |
| 14MX-40S-37-3020         | 482064   | 40           | 7.018           | 6.908  | 7.518  | A1F  | 0                | 2.00 | 0.06 | 7/8        | 3 1/4   | 12.2                  | 0.6277  |
| 14MX-43S-37-3020         | 482065   | 43           | 7.544           | 7.434  | 8.044  | A1F  | 0                | 2.00 | 0.06 | 7/8        | 3 1/4   | 12.5                  | 0.8589  |
| 14MX-45S-37-3020         | 482066   | 45           | 7.895           | 7.785  | 8.395  | A1F  | 0                | 2.00 | 0.06 | 7/8        | 3 1/4   | 15.8                  | 1.0447  |
| 14MX-48S-37-3020         | 482067   | 48           | 8.421           | 8.311  | 8.941  | A1F  | 0                | 2.00 | 0.06 | 7/8        | 3 1/4   | 18.7                  | 1.3774  |
| 14MX-50S-37-3020         | 482068   | 50           | 8.772           | 8.662  | 9.292  | A1F  | 0                | 2.00 | 0.06 | 7/8        | 3 1/4   | 21.1                  | 1.6394  |
| 14MX-53S-37-3020         | 482069   | 53           | 9.299           | 9.189  | 9.688  | A1F  | 0                | 2.00 | 0.06 | 7/8        | 3 1/4   | 24.7                  | 2.0997  |
| 14MX-56S-37-3525         | 482070   | 56           | 9.825           | 9.715  | 10.355 | B1F  | 0                | 2.50 | 0.44 | 1 3/16     | 3 15/16 | 28.2                  | 2.6416  |
| 14MX-60S-37-3525         | 482071   | 60           | 10.527          | 10.417 | 11.067 | B1F  | 0                | 2.50 | 0.44 | 1 3/16     | 3 15/16 | 32.2                  | 3.5355  |
| 14MX-63S-37-3525         | 482072   | 63           | 11.053          | 10.943 | 11.593 | B1F  | 0                | 2.50 | 0.44 | 1 3/16     | 3 15/16 | 42.8                  | 4.3411  |
| 14MX-67S-37-3525         | 482073   | 67           | 11.755          | 11.645 | 12.500 | B1F  | 0                | 2.50 | 0.44 | 1 3/16     | 3 15/16 | 43.5                  | 5.6192  |
| 14MX-71S-37-3525         | 482074   | 71           | 12.457          | 12.347 | 13.066 | B2F  | 0                | 2.50 | 0.44 | 1 3/16     | 3 15/16 | 44.1                  | 3.5191  |
| 14MX-75S-37-3525         | 482075   | 75           | 13.158          | 13.048 | 13.731 | B2F  | 0                | 2.50 | 0.44 | 1 3/16     | 3 15/16 | 45.5                  | 4.3017  |
| 14MX-80S-37-3525         | 482076   | 80           | 14.036          | 13.926 | 14.620 | B2F  | 0                | 2.50 | 0.44 | 1 3/16     | 3 15/16 | 48.7                  | 5.4564  |
| 14MX-90S-37-3525         | 482077   | 90           | 15.790          | 15.680 | ---    | B2   | 0                | 2.50 | 0.44 | 1 3/16     | 3 15/16 | 53.3                  | 8.4295  |
| 14MX-112S-37-3525        | 482078   | 112          | 19.650          | 19.540 | ---    | B3   | 0                | 2.50 | 0.44 | 1 3/16     | 3 15/16 | 87.0                  | 14.200  |
| 14MX-126S-37-3525        | 482079   | 126          | 22.106          | 21.996 | ---    | B3   | 0                | 2.50 | 0.44 | 1 3/16     | 3 15/16 | 76.3                  | 21.539  |
| 14MX-140S-37-3525        | 482080   | 140          | 24.562          | 24.452 | ---    | B3   | 0                | 2.50 | 0.44 | 1 3/16     | 3 15/16 | 100.2                 | 31.267  |
| 14MX-154S-37-3525        | 482081   | 154          | 27.019          | 26.909 | ---    | B3   | 0                | 2.50 | 0.44 | 1 3/16     | 3 15/16 | 100.2                 | 43.807  |
| 14MX-168S-37-4030        | 482082   | 168          | 29.475          | 29.365 | ---    | B3   | 0                | 3.00 | 0.94 | 1 7/16     | 4 7/16  | 179.0                 | 59.582  |
| 14MX-180S-37-4030        | 482083   | 180          | 31.580          | 31.470 | ---    | B3   | 0                | 3.00 | 0.94 | 1 7/16     | 4 7/16  | 182.3                 | 76.076  |
| 14MX-200S-37-4030        | 482084   | 200          | 35.089          | 34.979 | ---    | B3   | 0                | 3.00 | 0.94 | 1 7/16     | 4 7/16  | 185.4                 | 100.527                                       |
| 14MX-224S-37-4030        | 482085   | 224          | 39.300          | 39.190 | ---    | B3   | 0                | 3.00 | 0.94 | 1 7/16     | 4 7/16  | 229.1                 | 165.266                                       |
| <b>14MX-68 F = 3.33"</b> |          |              |                 |        |        |      |                  |      |      |            |         |                       |   |
| 14MX-28S-68-2517         | 482096   | 28           | 4.912           | 4.802  | 5.402  | A1F  | 0                | 1.75 | 1.58 | 1/2        | 2 11/16 | 13.5                  | 0.1804  |
| 14MX-29S-68-2517         | 482097   | 29           | 5.088           | 4.978  | 5.763  | A1F  | 0                | 1.75 | 1.58 | 1/2        | 2 11/16 | 13.8                  | 0.2101  |
| 14MX-30S-68-2517         | 482098   | 30           | 5.263           | 5.153  | 5.763  | A1F  | 0                | 1.75 | 1.58 | 1/2        | 2 11/16 | 14.0                  | 0.2433  |
| 14MX-31S-68-2517         | 482099   | 31           | 5.439           | 5.329  | 6.114  | A1F  | 0                | 1.75 | 1.58 | 1/2        | 2 11/16 | 14.3                  | 0.2802  |
| 14MX-32S-68-2517         | 482100   | 32           | 5.614           | 5.504  | 6.114  | A1F  | 0                | 1.75 | 1.58 | 1/2        | 2 11/16 | 14.6                  | 0.3211  |
| 14MX-33S-68-2517         | 482101   | 33           | 5.790           | 5.680  | 6.465  | A1F  | 0                | 1.75 | 1.58 | 1/2        | 2 11/16 | 14.9                  | 0.3663  |
| 14MX-34S-68-2517         | 482102   | 34           | 5.965           | 5.855  | 6.465  | A1F  | 0                | 1.75 | 1.58 | 1/2        | 2 11/16 | 15.2                  | 0.4160  |
| 14MX-35S-68-3020         | 482103   | 35           | 6.141           | 6.031  | 6.816  | A1F  | 0                | 2.00 | 1.33 | 7/8        | 3 1/4   | 15.5                  | 0.4692  |
| 14MX-36S-68-3020         | 482104   | 36           | 6.316           | 6.206  | 6.816  | A1F  | 0                | 2.00 | 1.33 | 7/8        | 3 1/4   | 15.8                  | 0.5285  |
| 14MX-37S-68-3020         | 482105   | 37           | 6.492           | 6.382  | 7.167  | A1F  | 0                | 2.00 | 1.33 | 7/8        | 3 1/4   | 16.1                  | 0.5932  |
| 14MX-38S-68-3020         | 482106   | 38           | 6.667           | 6.557  | 7.167  | A1F  | 0                | 2.00 | 1.33 | 7/8        | 3 1/4   | 16.4                  | 0.6635  |
| 14MX-39S-68-3020         | 482107   | 39           | 6.842           | 6.732  | 7.518  | A1F  | 0                | 2.00 | 1.33 | 7/8        | 3 1/4   | 16.7                  | 0.7400  |
| 14MX-40S-68-3020         | 482108   | 40           | 7.018           | 6.908  | 7.518  | A1F  | 0                | 2.00 | 1.33 | 7/8        | 3 1/4   | 17.0                  | 0.8239  |
| 14MX-43S-68-3020         | 482109   | 43           | 7.544           | 7.434  | 8.044  | A1F  | 0                | 2.00 | 1.33 | 7/8        | 3 1/4   | 17.2                  | 1.1187  |
| 14MX-45S-68-3020         | 482110   | 45           | 7.895           | 7.785  | 8.395  | A1F  | 0                | 2.00 | 1.33 | 7/8        | 3 1/4   | 20.4                  | 1.3552  |
| 14MX-48S-68-3525         | 482111   | 48           | 8.421           | 8.311  | 8.941  | A1F  | 0                | 2.50 | 0.83 | 1 3/16     | 3 15/16 | 24.6                  | 1.7697  |
| 14MX-50S-68-3525         | 482112   | 50           | 8.772           | 8.662  | 9.292  | A1F  | 0                | 2.50 | 0.83 | 1 3/16     | 3 15/16 | 29.4                  | 2.1032  |
| 14MX-53S-68-3525         | 482113   | 53           | 9.299           | 9.189  | 9.688  | A1F  | 0                | 2.50 | 0.83 | 1 3/16     | 3 15/16 | 35.7                  | 2.6902  |
| 14MX-56S-68-3525         | 482114   | 56           | 9.825           | 9.715  | 10.355 | A1F  | 0                | 2.50 | 0.83 | 1 3/16     | 3 15/16 | 39.9                  | 3.3944  |
| 14MX-60S-68-3525         | 482115   | 60           | 10.527          | 10.417 | 11.067 | A1F  | 0                | 2.50 | 0.83 | 1 3/16     | 3 15/16 | 50.6                  | 4.5427  |
| 14MX-63S-68-3525         | 482116   | 63           | 11.053          | 10.943 | 11.593 | A1F  | 0                | 2.50 | 0.83 | 1 3/16     | 3 15/16 | 58.0                  | 5.5830  |
| 14MX-67S-68-3525         | 482117   | 67           | 11.755          | 11.645 | 12.500 | A2F  | 0                | 2.50 | 0.83 | 1 3/16     | 3 15/16 | 60.0                  | 4.4150  |
| 14MX-71S-68-3525         | 482118   | 71           | 12.457          | 12.347 | 13.066 | A2F  | 0                | 2.50 | 0.83 | 1 3/16     | 3 15/16 | 63.3                  | 5.4244  |
| 14MX-75S-68-3525         | 482119   | 75           | 13.158          | 13.048 | 13.731 | A2F  | 0                | 2.50 | 0.83 | 1 3/16     | 3 15/16 | 68.6                  | 6.5958  |

# SPECIFICATION



V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

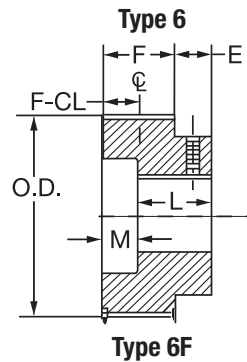
HT500 Synchronous Drives

Roller Chain Sprockets

| Sprocket Number           | Part No.      | No. Of Teeth | Diameters (In.) |        |        | Type | Dimensions (In.) |      |      | Bore Sizes |         | Approx. Weight (Lbs.) | Approx. WR <sup>2</sup> (Lb-Ft <sup>2</sup> ) |
|---------------------------|---------------|--------------|-----------------|--------|--------|------|------------------|------|------|------------|---------|-----------------------|---|
|                           |               |              | P.D.            | O.D.   | Flange |      | E                | L    | M    | Min.       | Max     |                       |   |
| <b>14MX-68 F = 3.33"</b>  |               |              |                 |        |        |      |                  |      |      |            |         |                       |   |
| 14MX-80S-68-3525          | <b>482120</b> | 80           | 14.036          | 13.926 | 14.620 | A2F  | 0                | 2.50 | 0.83 | 1 3/16     | 3 15/16 | 76.3                  | 8.3123  |
| 14MX-90S-68-4030          | <b>482121</b> | 90           | 15.790          | 15.680 | ---    | A2   | 0                | 3.00 | 0.33 | 1 7/16     | 4 7/16  | 82.6                  | 12.782  |
| 14MX-112S-68-4030         | <b>482122</b> | 112          | 19.650          | 19.540 | ---    | A3   | 0                | 3.00 | 0.33 | 1 7/16     | 4 7/16  | 100.4                 | 23.778  |
| 14MX-140S-68-4030         | <b>482123</b> | 140          | 24.562          | 24.452 | ---    | A3   | 0                | 3.00 | 0.33 | 1 7/16     | 4 7/16  | 190.0                 | 52.002  |
| 14MX-168S-68-4535         | <b>482124</b> | 168          | 29.475          | 29.365 | ---    | B3   | 0                | 3.50 | 0.17 | 1 15/16    | 4 15/16 | 239.1                 | 98.636  |
| 14MX-180S-68-4535         | <b>482125</b> | 180          | 31.580          | 31.470 | ---    | B3   | 0                | 3.50 | 0.17 | 1 15/16    | 4 15/16 | 250.6                 | 125.733                                       |
| 14MX-200S-68-4535         | <b>482126</b> | 200          | 35.089          | 34.979 | ---    | B3   | 0                | 3.50 | 0.17 | 1 15/16    | 4 15/16 | 262.5                 | 182.222                                       |
| 14MX-224S-68-5040         | <b>482127</b> | 224          | 39.300          | 39.190 | ---    | B3   | 0                | 4.00 | 0.67 | 2 7/16     | 5       | 350.0                 | 271.707                                       |
| <b>14MX-90 F = 4.20"</b>  |               |              |                 |        |        |      |                  |      |      |            |         |                       |   |
| 14MX-35S-90-3020          | <b>482141</b> | 35           | 6.141           | 6.031  | 6.816  | A1F  | 0                | 2.00 | 2.20 | 7/8        | 3 1/4   | 22.9                  | 0.5884  |
| 14MX-36S-90-3020          | <b>482142</b> | 36           | 6.316           | 6.206  | 6.816  | A1F  | 0                | 2.00 | 2.20 | 7/8        | 3 1/4   | 23.1                  | 0.6633  |
| 14MX-37S-90-3020          | <b>482143</b> | 37           | 6.492           | 6.382  | 7.167  | A1F  | 0                | 2.00 | 2.20 | 7/8        | 3 1/4   | 23.4                  | 0.7449  |
| 14MX-38S-90-3020          | <b>482144</b> | 38           | 6.667           | 6.557  | 7.167  | A1F  | 0                | 2.00 | 2.20 | 7/8        | 3 1/4   | 23.7                  | 0.8338  |
| 14MX-39S-90-3020          | <b>482145</b> | 39           | 6.842           | 6.732  | 7.518  | A1F  | 0                | 2.00 | 2.20 | 7/8        | 3 1/4   | 24.0                  | 0.9303  |
| 14MX-40S-90-3020          | <b>482146</b> | 40           | 7.018           | 6.908  | 7.518  | A1F  | 0                | 2.00 | 2.20 | 7/8        | 3 1/4   | 24.3                  | 1.0349  |
| 14MX-43S-90-3525          | <b>482147</b> | 43           | 7.544           | 7.434  | 8.044  | A1F  | 0                | 2.50 | 1.70 | 1 3/16     | 3 15/16 | 24.7                  | 1.3910  |
| 14MX-45S-90-3525          | <b>482148</b> | 45           | 7.895           | 7.785  | 8.395  | A1F  | 0                | 2.50 | 1.70 | 1 3/16     | 3 15/16 | 27.3                  | 1.6846  |
| 14MX-48S-90-3525          | <b>482149</b> | 48           | 8.421           | 8.311  | 8.941  | A1F  | 0                | 2.50 | 1.70 | 1 3/16     | 3 15/16 | 29.3                  | 2.2089  |
| 14MX-50S-90-3525          | <b>482150</b> | 50           | 8.772           | 8.662  | 9.292  | A1F  | 0                | 2.50 | 1.70 | 1 3/16     | 3 15/16 | 33.4                  | 2.6208  |
| 14MX-53S-90-3525          | <b>482151</b> | 53           | 9.299           | 9.189  | 9.688  | A1F  | 0                | 2.50 | 1.70 | 1 3/16     | 3 15/16 | 42.1                  | 3.3442  |
| 14MX-56S-90-4030          | <b>482152</b> | 56           | 9.825           | 9.715  | 10.355 | A1F  | 0                | 3.00 | 1.20 | 1 7/16     | 4 7/16  | 46.8                  | 4.1952  |
| 14MX-60S-90-4030          | <b>482153</b> | 60           | 10.527          | 10.417 | 11.067 | A1F  | 0                | 3.00 | 1.20 | 1 7/16     | 4 7/16  | 50.4                  | 5.6011  |
| 14MX-63S-90-4030          | <b>482154</b> | 63           | 11.053          | 10.943 | 11.593 | A1F  | 0                | 3.00 | 1.20 | 1 7/16     | 4 7/16  | 64.6                  | 6.8708  |
| 14MX-67S-90-4030          | <b>482155</b> | 67           | 11.755          | 11.645 | 12.500 | A1F  | 0                | 3.00 | 1.20 | 1 7/16     | 4 7/16  | 70.0                  | 8.8919  |
| 14MX-71S-90-4030          | <b>482156</b> | 71           | 12.457          | 12.347 | 13.066 | A1F  | 0                | 3.00 | 1.20 | 1 7/16     | 4 7/16  | 85.0                  | 11.339  |
| 14MX-75S-90-4030          | <b>482157</b> | 75           | 13.158          | 13.048 | 13.731 | A2F  | 0                | 3.00 | 1.20 | 1 7/16     | 4 7/16  | 86.7                  | 14.669  |
| 14MX-80S-90-4030          | <b>482158</b> | 80           | 14.036          | 13.926 | 14.620 | A2F  | 0                | 3.00 | 1.20 | 1 7/16     | 4 7/16  | 88.0                  | 13.800  |
| 14MX-90S-90-4030          | <b>482159</b> | 90           | 15.790          | 15.680 | ---    | A2   | 0                | 3.00 | 1.20 | 1 7/16     | 4 7/16  | 124.2                 | 16.521  |
| 14MX-112S-90-4535         | <b>482160</b> | 112          | 19.650          | 19.540 | ---    | A3   | 0                | 3.50 | 0.70 | 1 15/16    | 4 15/16 | 197.9                 | 30.460  |
| 14MX-140S-90-5040         | <b>482161</b> | 140          | 24.562          | 24.452 | ---    | A3   | 0                | 4.00 | 0.20 | 2 7/16     | 5       | 240.0                 | 66.242  |
| 14MX-168S-90-6050         | <b>482162</b> | 168          | 29.475          | 29.365 | ---    | B3   | 0                | 5.00 | 0.80 | 4 7/16     | 6       | 327.3                 | 125.362                                       |
| 14MX-180S-90-6050         | <b>482163</b> | 180          | 31.580          | 31.470 | ---    | B3   | 0                | 5.00 | 0.80 | 4 7/16     | 6       | 335.9                 | 159.541                                       |
| 14MX-200S-90-6050         | <b>482164</b> | 200          | 35.089          | 34.979 | ---    | B3   | 0                | 5.00 | 0.80 | 4 7/16     | 6       | 344.5                 | 230.792                                       |
| 14MX-224S-90-6050         | <b>482165</b> | 224          | 39.300          | 39.190 | ---    | B3   | 0                | 5.00 | 0.80 | 4 7/16     | 6       | 589.0                 | 343.707                                       |
| <b>14MX-125 F = 5.61"</b> |               |              |                 |        |        |      |                  |      |      |            |         |                       |   |
| 14MX-50S-125-4535         | <b>482182</b> | 50           | 8.772           | 8.662  | 9.292  | A1F  | 0                | 3.50 | 2.11 | 1 15/16    | 4 15/16 | 39.4                  | 3.4090  |
| 14MX-52S-125-4535         | <b>482183</b> | 52           | 9.123           | 9.013  | 9.687  | A1F  | 0                | 3.50 | 2.11 | 1 15/16    | 4 15/16 | 48.2                  | 4.0199  |
| 14MX-53S-125-4535         | <b>482184</b> | 53           | 9.299           | 9.189  | 9.688  | A1F  | 0                | 3.50 | 2.11 | 1 15/16    | 4 15/16 | 50.1                  | 4.3540  |
| 14MX-56S-125-4535         | <b>482185</b> | 56           | 9.825           | 9.715  | 10.355 | A1F  | 0                | 3.50 | 2.11 | 1 15/16    | 4 15/16 | 52.6                  | 5.4811  |
| 14MX-60S-125-4535         | <b>482186</b> | 60           | 10.527          | 10.417 | 11.067 | A1F  | 0                | 3.50 | 2.11 | 1 15/16    | 4 15/16 | 63.3                  | 5.8084  |
| 14MX-63S-125-4535         | <b>482187</b> | 63           | 11.053          | 10.943 | 11.593 | A1F  | 0                | 3.50 | 2.11 | 1 15/16    | 4 15/16 | 77.2                  | 8.9504  |
| 14MX-67S-125-4535         | <b>482188</b> | 67           | 11.755          | 11.645 | 12.500 | A1F  | 0                | 3.50 | 2.11 | 1 15/16    | 4 15/16 | 93.8                  | 11.555  |
| 14MX-71S-125-5040         | <b>482189</b> | 71           | 12.457          | 12.347 | 13.066 | A1F  | 0                | 4.00 | 1.61 | 2 7/16     | 5       | 113.2                 | 14.674  |
| 14MX-75S-125-5040         | <b>482190</b> | 75           | 13.158          | 13.048 | 13.731 | A1F  | 0                | 4.00 | 1.61 | 2 7/16     | 5       | 132.8                 | 18.431  |
| 14MX-80S-125-5040         | <b>482191</b> | 80           | 14.036          | 13.926 | 14.620 | A1F  | 0                | 4.00 | 1.61 | 2 7/16     | 5       | 137.0                 | 24.109  |
| 14MX-90S-125-5040         | <b>482192</b> | 90           | 15.790          | 15.680 | ---    | A2   | 0                | 4.00 | 1.61 | 2 7/16     | 5       | 141.8                 | 23.571  |
| 14MX-112S-125-6050        | <b>482193</b> | 112          | 19.650          | 19.540 | ---    | A2   | 0                | 5.00 | 0.61 | 4 7/16     | 6       | 210.6                 | 51.582  |
| 14MX-140S-125-6050        | <b>482194</b> | 140          | 24.562          | 24.452 | ---    | A2   | 0                | 5.00 | 0.61 | 4 7/16     | 6       | 270.3                 | 114.827                                       |
| 14MX-168S-125-7060        | <b>482195</b> | 168          | 29.475          | 29.365 | ---    | B3   | 0                | 6.00 | 0.39 | 4 15/16    | 7       | 345.2                 | 168.072                                       |
| 14MX-180S-125-7060        | <b>482196</b> | 180          | 31.580          | 31.470 | ---    | B3   | 0                | 6.00 | 0.39 | 4 15/16    | 7       | 365.2                 | 213.396                                       |
| 14MX-200S-125-7060        | <b>482197</b> | 200          | 35.089          | 34.979 | ---    | B3   | 0                | 6.00 | 0.39 | 4 15/16    | 7       | 373.5                 | 307.825                                       |
| 14MX-224S-125-7060        | <b>482198</b> | 224          | 39.300          | 39.190 | ---    | B3   | 0                | 6.00 | 0.39 | 4 15/16    | 7       | 482.3                 | 457.347                                       |

# SPECIFICATION

## HT500 MPB Sprockets



The letter "F" shown with type 6F indicates that Sprocket has flanges

### 8MX Sprockets

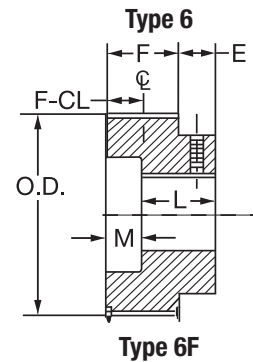
| Sprocket Number | Part No.      | No. Of Teeth | Diameters (In.)  |       |        | Dimensions (In.) |      |      | Bore Sizes |      | Approx. Weight (Lbs.) | Approx. WR <sup>2</sup> (Lb-Ft <sup>2</sup> ) |
|-----------------|---------------|--------------|------------------|-------|--------|------------------|------|------|------------|------|-----------------------|---|
|                 |               |              | P.D.             | O.D.  | Flange | E                | L    | M    | Min.       | Max  |                       |   |
| <b>8MX-12</b>   |               |              | <b>F = .85"</b>  |       |        | <b>Type 6F</b>   |      |      |            |      |                       |   |
| 8MX-22S-12-MPB  | <b>481870</b> | 22           | 2.206            | 2.143 | 2.606  | 0                | 1.31 | 0.46 | 0.50       | 1.00 | 0.9                   | 0.0020  |
| 8MX-25S-12-MPB  | <b>481871</b> | 25           | 2.506            | 2.443 | 2.906  | 0                | 1.31 | 0.46 | 0.50       | 1.50 | 1.0                   | 0.0041  |
| 8MX-28S-12-MPB  | <b>481872</b> | 28           | 2.807            | 2.744 | 3.207  | 0                | 1.31 | 0.46 | 0.50       | 1.75 | 1.4                   | 0.0070  |
| 8MX-30S-12-MPB  | <b>481873</b> | 30           | 3.008            | 2.945 | 3.408  | 0                | 1.42 | 0.57 | 0.27       | 1.13 | 1.6                   | 0.0088  |
| 8MX-32S-12-MPB  | <b>481874</b> | 32           | 3.208            | 3.145 | 3.608  | 0                | 1.42 | 0.57 | 0.50       | 2.00 | 1.7                   | 0.0130  |
| <b>8MX-21</b>   |               |              | <b>F = 1.20"</b> |       |        | <b>Type 6F</b>   |      |      |            |      |                       |   |
| 8MX-22S-21-MPB  | <b>481910</b> | 22           | 2.206            | 2.143 | 2.606  | 0                | 1.65 | 0.45 | 0.50       | 1.19 | 1.1                   | 0.0025  |
| 8MX-25S-21-MPB  | <b>481911</b> | 25           | 2.506            | 2.443 | 2.906  | 0                | 1.65 | 0.45 | 0.50       | 1.50 | 1.4                   | 0.0048  |
| 8MX-28S-21-MPB  | <b>481912</b> | 28           | 2.807            | 2.744 | 3.207  | 0                | 1.65 | 0.45 | 0.50       | 1.75 | 1.8                   | 0.0081  |
| 8MX-30S-21-MPB  | <b>481913</b> | 30           | 3.008            | 2.945 | 3.408  | 0                | 1.77 | 0.57 | 0.50       | 1.81 | 2.2                   | 0.0112  |
| 8MX-32S-21-MPB  | <b>481914</b> | 32           | 3.208            | 3.145 | 3.608  | 0                | 1.77 | 0.57 | 0.50       | 2.00 | 2.5                   | 0.0149  |
| <b>8MX-36</b>   |               |              | <b>F = 1.86"</b> |       |        | <b>Type 6F</b>   |      |      |            |      |                       |   |
| 8MX-22S-36-MPB  | <b>481950</b> | 22           | 2.206            | 2.143 | 2.606  | 0                | 2.44 | 0.58 | 0.50       | 1.19 | 1.0                   | 0.0036  |
| 8MX-25S-36-MPB  | <b>481951</b> | 25           | 2.506            | 2.443 | 2.906  | 0                | 2.44 | 0.58 | 0.50       | 1.50 | 1.3                   | 0.0066  |
| 8MX-28S-36-MPB  | <b>481952</b> | 28           | 2.807            | 2.744 | 3.207  | 0                | 2.44 | 0.58 | 0.50       | 1.75 | 1.5                   | 0.0108  |
| 8MX-30S-36-MPB  | <b>481953</b> | 30           | 3.008            | 2.945 | 3.408  | 0                | 2.44 | 0.58 | 0.50       | 1.81 | 1.7                   | 0.0147  |
| 8MX-32S-36-MPB  | <b>481954</b> | 32           | 3.208            | 3.145 | 3.608  | 0                | 2.44 | 0.58 | 0.50       | 2.00 | 3.9                   | 0.0193  |
| 8MX-34S-36-MPB  | <b>481955</b> | 34           | 3.409            | 3.346 | 3.81   | 0                | 2.45 | 0.59 | 0.50       | 2.13 | 4.3                   | 0.0269  |
| 8MX-36S-36-MPB  | <b>481956</b> | 36           | 3.609            | 3.546 | 4.009  | 0                | 2.51 | 0.65 | 0.50       | 2.31 | 4.3                   | 0.0344  |
| 8MX-38S-36-MPB  | <b>481957</b> | 38           | 3.810            | 3.747 | 4.210  | 0                | 2.51 | 0.65 | 0.50       | 2.44 | 4.4                   | 0.0434  |
| <b>8MX-62</b>   |               |              | <b>F = 2.91"</b> |       |        | <b>Type 6F</b>   |      |      |            |      |                       |   |
| 8MX-22S-62-MPB  | <b>481985</b> | 22           | 2.206            | 2.143 | 2.606  | 0                | 3.56 | 0.65 | 1.00       | 1.19 | 3.2                   | 0.0059  |
| 8MX-25S-62-MPB  | <b>481986</b> | 25           | 2.506            | 2.443 | 2.906  | 0                | 3.56 | 0.65 | 1.00       | 1.50 | 3.3                   | 0.0103  |
| 8MX-28S-62-MPB  | <b>481987</b> | 28           | 2.807            | 2.744 | 3.207  | 0                | 3.56 | 0.65 | 1.00       | 1.75 | 3.5                   | 0.0168  |
| 8MX-30S-62-MPB  | <b>481988</b> | 30           | 3.008            | 2.945 | 3.408  | 0                | 3.50 | 0.59 | 1.00       | 1.81 | 4.0                   | 0.0226  |
| 8MX-32S-62-MPB  | <b>481989</b> | 32           | 3.208            | 3.145 | 3.608  | 0                | 3.50 | 0.59 | 1.00       | 2.00 | 5.0                   | 0.0297  |
| 8MX-34S-62-MPB  | <b>481990</b> | 34           | 3.409            | 3.346 | 3.81   | 0                | 3.50 | 0.59 | 1.00       | 2.13 | 5.7                   | 0.0384  |
| 8MX-36S-62-MPB  | <b>481991</b> | 36           | 3.609            | 3.546 | 4.009  | 0                | 3.56 | 0.65 | 1.00       | 2.31 | 6.6                   | 0.0488  |
| 8MX-38S-62-MPB  | <b>481992</b> | 38           | 3.812            | 3.747 | 4.210  | 0                | 3.56 | 0.65 | 1.00       | 2.44 | 7.4                   | 0.0611  |
| 8MX-40S-62-MPB  | <b>481993</b> | 40           | 4.010            | 3.947 | 4.410  | 0                | 3.63 | 0.72 | 1.00       | 2.56 | 8.4                   | 0.0757  |
| 8MX-42S-62-MPB  | <b>481994</b> | 42           | 4.211            | 4.148 | 4.911  | 0                | 3.63 | 0.72 | 1.00       | 2.75 | 9.6                   | 0.0927  |
| 8MX-45S-62-MPB  | <b>481995</b> | 45           | 4.511            | 4.448 | 4.911  | 0                | 3.63 | 0.72 | 1.00       | 2.75 | 10.8                  | 0.1235  |



# SPECIFICATION



## HT500 MPB Sprockets



The letter "F" shown with type 6F indicates that Sprocket has flanges

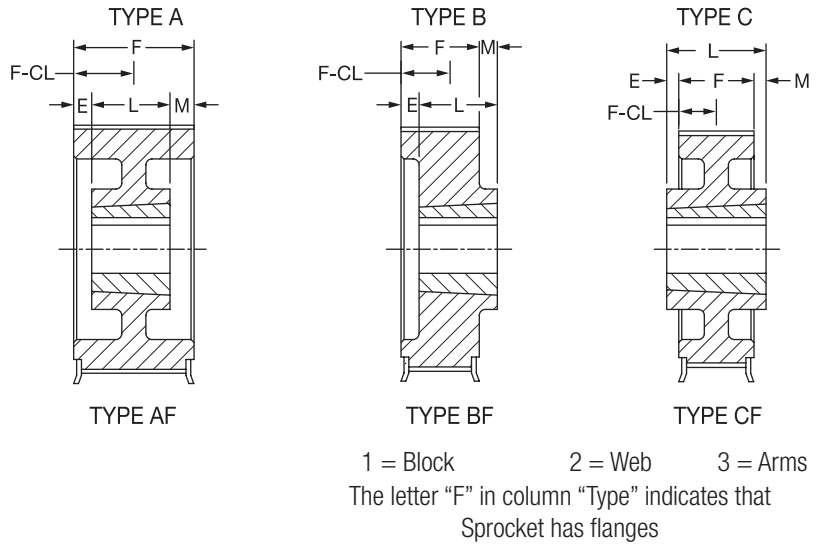
### 14MX Sprockets

| Sprocket Number  | Part No. | No. Of Teeth | Diameters (In.)  |       |        | Dimensions (In.) |      |      | Bore Sizes |      | Approx. Weight (Lbs.) | Approx. WR <sup>2</sup> (Lb-Ft <sup>2</sup> ) |
|------------------|----------|--------------|------------------|-------|--------|------------------|------|------|------------|------|-----------------------|---|
|                  |          |              | P.D.             | O.D.  | Flange | E                | L    | M    | Min.       | Max  |                       |   |
| <b>14MX-37</b>   |          |              | <b>F = 2.06"</b> |       |        | <b>Type 6F</b>   |      |      |            |      |                       |   |
| 14MX-28S-37-MPB  | 482051   | 28           | 4.912            | 4.802 |        | 0                | 2.86 | 0.80 | 1.00       | 2.94 | 11.70                 | 0.1272  |
| <b>14MX-68</b>   |          |              | <b>F = 3.33"</b> |       |        | <b>Type 6F</b>   |      |      |            |      |                       |   |
| 14MX-28S-68-MPB  | 482089   | 28           | 4.912            | 4.802 | 5.402  | 0                | 4.13 | 0.80 | 1.00       | 2.94 | 13.4                  | 0.1796  |
| 14MX-29S-68-MPB  | 482090   | 29           | 5.088            | 4.978 | 5.763  | 0                | 4.13 | 0.80 | 1.00       | 3.19 | 14.5                  | 0.2081  |
| 14MX-30S-68-MPB  | 482091   | 30           | 5.263            | 5.153 | 5.763  | 0                | 4.13 | 0.80 | 1.00       | 3.19 | 15.7                  | 0.2415  |
| 14MX-31S-68-MPB  | 482092   | 31           | 5.439            | 5.329 | 6.114  | 0                | 4.13 | 0.80 | 1.00       | 3.44 | 16.8                  | 0.2768  |
| 14MX-32S-68-MPB  | 482093   | 32           | 5.614            | 5.504 | 6.114  | 0                | 4.13 | 0.80 | 1.00       | 3.44 | 18.0                  | 0.3178  |
| 14MX-33S-68-MPB  | 482094   | 33           | 5.790            | 5.680 | 6.465  | 0                | 4.33 | 1.00 | 1.00       | 3.50 | 19.5                  | 0.3626  |
| 14MX-34S-68-MPB  | 482095   | 34           | 5.965            | 5.855 | 6.465  | 0                | 4.33 | 1.00 | 1.00       | 3.50 | 21.1                  | 0.4122  |
| <b>14MX-90</b>   |          |              | <b>F = 4.20"</b> |       |        | <b>Type 6F</b>   |      |      |            |      |                       |   |
| 14MX-28S-90-MPB  | 482128   | 28           | 4.912            | 4.802 | 5.402  | 0                | 5.14 | 0.94 | 1.50       | 2.94 | 17.4                  | 0.2309  |
| 14MX-29S-90-MPB  | 482129   | 29           | 5.088            | 4.978 | 5.763  | 0                | 5.00 | 0.80 | 1.50       | 3.19 | 18.9                  | 0.2684  |
| 14MX-30S-90-MPB  | 482130   | 30           | 5.263            | 5.153 | 5.763  | 0                | 5.00 | 0.80 | 1.50       | 3.19 | 20.3                  | 0.3102  |
| 14MX-31S-90-MPB  | 482131   | 31           | 5.439            | 5.329 | 6.114  | 0                | 5.00 | 0.80 | 1.50       | 3.44 | 21.8                  | 0.3566  |
| 14MX-32S-90-MPB  | 482132   | 32           | 5.614            | 5.504 | 6.114  | 0                | 5.00 | 0.80 | 1.50       | 3.44 | 23.2                  | 0.4080  |
| 14MX-33S-90-MPB  | 482133   | 33           | 5.790            | 5.680 | 6.465  | 0                | 5.20 | 1.00 | 1.50       | 3.50 | 25.2                  | 0.4648  |
| 14MX-34S-90-MPB  | 482134   | 34           | 5.965            | 5.855 | 6.465  | 0                | 5.20 | 1.00 | 1.50       | 3.50 | 27.2                  | 0.5272  |
| 14MX-35S-90-MPB  | 482135   | 35           | 6.141            | 6.031 | 6.816  | 0                | 5.20 | 1.00 | 1.50       | 3.81 | 28.7                  | 0.5956  |
| 14MX-36S-90-MPB  | 482136   | 36           | 6.316            | 6.206 | 6.816  | 0                | 5.20 | 1.00 | 1.50       | 3.81 | 30.3                  | 0.6704  |
| 14MX-37S-90-MPB  | 482137   | 37           | 6.492            | 6.382 | 7.167  | 0                | 5.20 | 1.00 | 1.50       | 4.13 | 32.1                  | 0.7521  |
| 14MX-38S-90-MPB  | 482138   | 38           | 6.667            | 6.557 | 7.167  | 0                | 5.20 | 1.00 | 1.50       | 4.13 | 33.9                  | 0.8410  |
| 14MX-39S-90-MPB  | 482139   | 39           | 6.842            | 6.732 | 7.518  | 0                | 5.20 | 1.00 | 1.50       | 4.38 | 35.8                  | 0.9375  |
| 14MX-40S-90-MPB  | 482140   | 40           | 7.018            | 6.908 | 6.518  | 0                | 5.20 | 1.00 | 1.50       | 4.38 | 37.7                  | 1.0421  |
| <b>14MX-125</b>  |          |              | <b>F = 5.61"</b> |       |        | <b>Type 6F</b>   |      |      |            |      |                       |   |
| 14MX-28S-125-MPB | 482166   | 28           | 4.912            | 4.802 | 5.402  | 0                | 6.50 | 0.89 | 1.50       | 2.94 | 22.0                  | 0.3098  |
| 14MX-29S-125-MPB | 482167   | 29           | 5.088            | 4.978 | 5.763  | 0                | 6.50 | 0.89 | 1.50       | 3.19 | 23.7                  | 0.3599  |
| 14MX-30S-125-MPB | 482168   | 30           | 5.263            | 5.153 | 5.763  | 0                | 6.50 | 0.89 | 1.50       | 3.19 | 25.4                  | 0.4156  |
| 14MX-31S-125-MPB | 482169   | 31           | 5.439            | 5.329 | 6.114  | 0                | 6.50 | 0.89 | 1.50       | 3.44 | 27.3                  | 0.4697  |
| 14MX-32S-125-MPB | 482170   | 32           | 5.614            | 5.504 | 6.114  | 0                | 6.50 | 0.89 | 1.50       | 3.44 | 39.2                  | 0.5382  |
| 14MX-33S-125-MPB | 482171   | 33           | 5.790            | 5.680 | 6.465  | 0                | 6.69 | 1.08 | 1.50       | 3.50 | 31.8                  | 0.6138  |
| 14MX-34S-125-MPB | 482172   | 34           | 5.965            | 5.855 | 6.465  | 0                | 6.69 | 1.08 | 1.50       | 3.50 | 34.3                  | 0.6967  |
| 14MX-35S-125-MPB | 482173   | 35           | 6.141            | 6.031 | 6.816  | 0                | 6.69 | 1.08 | 1.50       | 3.81 | 36.2                  | 0.7877  |
| 14MX-36S-125-MPB | 482174   | 36           | 6.316            | 6.206 | 6.816  | 0                | 6.69 | 1.08 | 1.50       | 3.81 | 38.0                  | 0.8870  |
| 14MX-37S-125-MPB | 482175   | 37           | 6.492            | 6.382 | 7.167  | 0                | 6.69 | 1.08 | 1.50       | 4.13 | 40.3                  | 0.9953  |
| 14MX-38S-125-MPB | 482176   | 38           | 6.667            | 6.557 | 7.167  | 0                | 6.69 | 1.08 | 1.50       | 4.13 | 42.5                  | 1.1131  |
| 14MX-39S-125-MPB | 482177   | 39           | 6.842            | 6.732 | 7.518  | 0                | 6.69 | 1.08 | 1.50       | 4.38 | 44.9                  | 1.2283  |
| 14MX-40S-125-MPB | 482178   | 40           | 7.018            | 6.908 | 7.518  | 0                | 6.69 | 1.08 | 1.50       | 4.38 | 47.2                  | 1.3666  |
| 14MX-43S-125-MPB | 482179   | 43           | 7.544            | 7.434 | 8.044  | 0                | 6.81 | 1.20 | 1.50       | 4.81 | 55.5                  | 1.8507  |
| 14MX-45S-125-MPB | 482180   | 45           | 7.895            | 7.785 | 8.395  | 0                | 6.81 | 1.20 | 1.50       | 5.00 | 61.3                  | 2.2373  |
| 14MX-48S-125-MPB | 482181   | 48           | 8.421            | 8.311 | 8.941  | 0                | 6.81 | 1.20 | 1.50       | 5.63 | 68.7                  | 2.9260  |



# SPECIFICATION

## HT500 Sprockets For ACHE Application TAPER LOCK



### FIN-FAN HT500 Sprockets For Cooling Tower Drives

| Sprocket Number    | Part No.      | No. Of Teeth | Diameters (In.)  |        |        | Type | Bore Sizes |      | Approx. Weight (Lbs.) | Approx. WR <sup>2</sup> (Lb-Ft <sup>2</sup> ) |       |         |
|--------------------|---------------|--------------|------------------|--------|--------|------|------------|------|-----------------------|---|-------|---------|
|                    |               |              | P.D.             | O.D.   | Flange |      | L          | M    |                       |   | Min.  | Max.    |
| <b>14MX-37</b>     |               |              | <b>F = 2.06"</b> |        |        |      |            |      |                       |   |       |         |
| F14MX-180S-37-3020 | <b>482086</b> | 180          | 31.580           | 31.470 | ---    | B3   | 2.00       | 0.06 | 7/8                   | 3 1/4   | 120.0 | 76.1453 |
| F14MX-200S-37-3020 | <b>482087</b> | 200          | 35.086           | 34.979 | ---    | B3   | 2.00       | 0.06 | 7/8                   | 3 1/4   | 130.0 | 110.593 |
| F14MX-224S-37-3020 | <b>482088</b> | 224          | 39.296           | 39.190 | ---    | B3   | 2.00       | 0.06 | 7/8                   | 3 1/4   | 177.0 | 165.315 |

V-Drives

FHP Drives

Drive Component  
Accessories

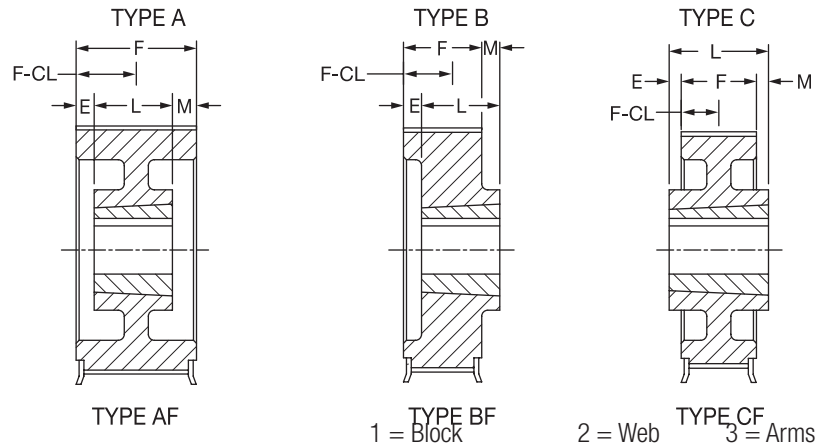
DYNA-SYNC

HT200/HTD  
Synchronous DrivesHT500  
Synchronous Drives

Roller Chain Sprockets

# SPECIFICATION

## HT500 Sprockets For ACHE Application QD



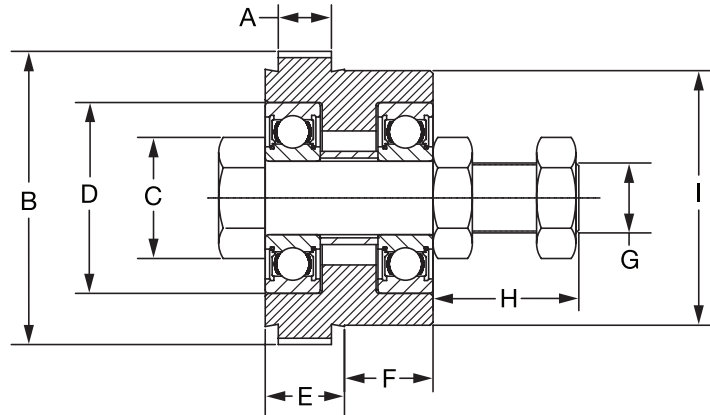
The letter "F" in column "Type" indicates that Sprocket has flanges

## FIN-FAN HT500 Sprockets For Cooling Tower Drives

| Sprocket Number  | Part No. | No. Of Teeth | Diameters (In.) |        |        | Type | Dimensions (In.) |      |      | Bore Sizes |         | Approx. Weight (Lbs.) |
|--|----------|--------------|-----------------|--------|--------|------|------------------|------|------|------------|---------|-----------------------|
|  |          |              | P.D.            | O.D.   | Flange |      | E                | L    | M    | Min.       | Max.    |                       |
| <b>8MX-21</b> <span style="float: right;"><b>F = 1.20"</b></span>  |          |              |                 |        |        |      |                  |      |      |            |         |                       |
| F8MX-36S-21-SH   | 482199   | 36           | 3.609           | 3.546  | 4.009  | A1F  | 0                | 0.81 | 0.39 | 1/2        | 1 5/8   | 2.1                   |
| F8MX-38S-21-SH   | 482200   | 38           | 3.810           | 3.747  | 4.210  | A1F  | 0                | 0.81 | 0.39 | 1/2        | 1 5/8   | 2.1                   |
| F8MX-40S-21-SH   | 482201   | 40           | 4.010           | 3.947  | 4.410  | A1F  | 0                | 0.81 | 0.39 | 1/2        | 1 5/8   | 2.3                   |
| F8MX-42S-21-SH   | 482202   | 42           | 4.211           | 4.148  | 4.911  | A1F  | 0                | 0.81 | 0.39 | 1/2        | 1 5/8   | 2.5                   |
| F8MX-140S-21-SF  | 482203   | 140          | 14.036          | 13.973 | ---    | B2   | 0                | 1.25 | 0.05 | 1/2        | 2 13/16 | 25.0                  |
| F8MX-168S-21-SF  | 482204   | 168          | 16.843          | 16.780 | ---    | B3   | 0                | 1.25 | 0.05 | 1/2        | 2 13/16 | 33.8                  |
| F8MX-180S-21-SF  | 482205   | 180          | 18.046          | 17.983 | ---    | B3   | 0                | 1.25 | 0.05 | 1/2        | 2 13/16 | 36.6                  |
| F8MX-224S-21-E   | 482206   | 224          | 22.457          | 22.394 | ---    | B3   | 0                | 1.63 | 0.43 | 7/8        | 3 1/2   | 50.1                  |
| <b>14MX-20</b> <span style="float: right;"><b>F = 1.36"</b></span> |          |              |                 |        |        |      |                  |      |      |            |         |                       |
| F14MX-28S-20-SK  | 482207   | 28           | 4.912           | 4.802  | 5.402  | A1F  | 0                | 1.25 | 0.11 | 1/2        | 2 1/2   | 3.9                   |
| F14MX-29S-20-SK  | 482208   | 29           | 5.088           | 4.978  | 5.763  | A1F  | 0                | 1.25 | 0.11 | 1/2        | 2 1/2   | 4.5                   |
| F14MX-30S-20-SK  | 482209   | 30           | 5.263           | 5.153  | 5.763  | A1F  | 0                | 1.25 | 0.11 | 1/2        | 2 1/2   | 4.8                   |
| F14MX-31S-20-SK  | 482210   | 31           | 5.439           | 5.329  | 6.114  | A1F  | 0                | 1.25 | 0.11 | 1/2        | 2 1/2   | 5.5                   |
| F14MX-32S-20-SK  | 482211   | 32           | 5.614           | 5.504  | 6.114  | A1F  | 0                | 1.25 | 0.11 | 1/2        | 2 1/2   | 5.9                   |
| F14MX-33S-20-SK  | 482212   | 33           | 5.790           | 5.680  | 6.465  | A1F  | 0                | 1.25 | 0.11 | 1/2        | 2 1/2   | 6.3                   |
| F14MX-34S-20-SK  | 482213   | 34           | 5.965           | 5.855  | 6.465  | A1F  | 0                | 1.25 | 0.11 | 1/2        | 2 1/2   | 6.9                   |
| F14MX-35S-20-SK  | 482214   | 35           | 6.141           | 6.031  | 6.816  | A1F  | 0                | 1.25 | 0.11 | 1/2        | 2 1/2   | 7.3                   |
| F14MX-36S-20-SF  | 482215   | 36           | 6.315           | 6.206  | 6.816  | A1F  | 0                | 1.25 | 0.11 | 1/2        | 2 15/16 | 7.9                   |
| F14MX-140S-20-E  | 482216   | 140          | 24.560          | 24.452 | ---    | B3   | 0                | 1.63 | 0.27 | 7/8        | 3 1/2   | 66.1                  |
| F14MX-168S-20-F  | 482217   | 168          | 29.472          | 29.365 | ---    | C3   | 0.56             | 2.50 | 0.58 | 1          | 3 15/16 | 90.0                  |
| F14MX-180S-20-F  | 482218   | 180          | 31.580          | 31.470 | ---    | B3   | 0                | 2.50 | 1.14 | 1          | 3 15/16 | 107.3                 |
| F14MX-200S-20-F  | 482219   | 200          | 35.086          | 34.979 | ---    | C3   | 0.88             | 2.50 | 0.26 | 1          | 3 15/16 | 119.0                 |
| F14MX-224S-20-F  | 482220   | 224          | 39.300          | 39.190 | ---    | B3   | 0                | 2.50 | 1.14 | 1          | 3 15/16 | 125.0                 |
| <b>14MX-37</b> <span style="float: right;"><b>F = 2.06"</b></span> |          |              |                 |        |        |      |                  |      |      |            |         |                       |
| F14MX-28S-37-SK  | 482221   | 28           | 4.912           | 4.802  | 5.402  | A1F  | 0.81             | 1.25 | 0    | 1/2        | 2 1/2   | 4.2                   |
| F14MX-29S-37-SK  | 482222   | 29           | 5.088           | 4.978  | 5.763  | A1F  | 0.81             | 1.25 | 0    | 1/2        | 2 1/2   | 4.7                   |
| F14MX-30S-37-SK  | 482223   | 30           | 5.263           | 5.153  | 5.763  | A1F  | 0.81             | 1.25 | 0    | 1/2        | 2 1/2   | 5.0                   |
| F14MX-31S-37-SK  | 482224   | 31           | 5.439           | 5.329  | 6.114  | A1F  | 0                | 1.25 | 0.81 | 1/2        | 2 1/2   | 6.0                   |
| F14MX-32S-37-SK  | 482225   | 32           | 5.614           | 5.504  | 6.114  | A1F  | 0                | 1.25 | 0.81 | 1/2        | 2 1/2   | 7.1                   |
| F14MX-33S-37-SK  | 482226   | 33           | 5.790           | 5.680  | 6.465  | A1F  | 0                | 1.25 | 0.81 | 1/2        | 2 1/2   | 7.5                   |
| F14MX-34S-37-SK  | 482227   | 34           | 5.965           | 5.855  | 6.465  | A1F  | 0                | 1.25 | 0.81 | 1/2        | 2 1/2   | 7.8                   |
| F14MX-35S-37-SK  | 482228   | 35           | 6.141           | 6.031  | 6.816  | A1F  | 0                | 1.25 | 0.81 | 1/2        | 2 1/2   | 8.3                   |
| F14MX-36S-37-SF  | 482229   | 36           | 6.315           | 6.206  | 6.816  | A1F  | 0.25             | 1.25 | 0.56 | 1/2        | 2 15/16 | 8.8                   |
| F14MX-180S-37-E  | 482230   | 180          | 31.580          | 31.470 | ---    | A3   | 0.19             | 1.63 | 0.21 | 7/8        | 3 1/2   | 120.0                 |
| F14MX-200S-37-E  | 482231   | 200          | 35.089          | 34.979 | ---    | A3   | 0.19             | 1.63 | 0.21 | 7/8        | 3 1/2   | 130.0                 |
| F14MX-224S-37-E  | 482232   | 224          | 39.300          | 39.190 | ---    | A3   | 0.19             | 1.63 | 0.21 | 7/8        | 3 1/2   | 177.0                 |

# SPECIFICATION

## HT500 IDLER Sprockets



| Idler Number    | Part No.      | No. Of Teeth | Belt Width mm | A (Ref) In | B In | C (Ref) In | D In | E (Ref) In | F In | G (Threads) In | H (Ref) In | I In | Approx. Weight (Lbs.) |
|-----------------|---------------|--------------|---------------|------------|------|------------|------|------------|------|----------------|------------|------|-----------------------|
| 8MX-32-12-IDL   | <b>482233</b> | 32           | 12            | 0.56       | 3.15 | 1.13       | 2.05 | 0.85       | 0.96 | 3/4-16UNF      | 1.58       | 2.73 | 3.8                   |
| 8MX-32-21-IDL   | <b>482234</b> | 32           | 21            | 0.97       | 3.15 | 1.25       | 2.05 | 1.24       | 0.57 | 3/4-16UNF      | 1.58       | 2.73 | 3.9                   |
| 8MX-36-36-IDL   | <b>482235</b> | 36           | 36            | 1.59       | 3.55 | 1.75       | 2.83 | 1.86       | 0.00 | 3/4-16UNF      | 1.77       | 0.00 | 5.1                   |
| 8MX-36-62-IDL   | <b>482236</b> | 36           | 62            | 2.63       | 3.55 | 1.75       | 2.83 | 2.91       | 0.65 | 3/4-16UNF      | 1.83       | 0.65 | 9.7                   |
| 14MX-30-20-IDL  | <b>482237</b> | 30           | 20            | 1.05       | 5.15 | 2.38       | 3.54 | 1.36       | 0.97 | 1-14NS-1B      | 2.38       | 4.35 | 12.5                  |
| 14MX-30-37-IDL  | <b>482238</b> | 30           | 37            | 1.73       | 5.15 | 2.38       | 3.54 | 2.06       | 0.25 | 1-14NS-1B      | 2.38       | 4.35 | 13.5                  |
| 14MX-34-68-IDL  | <b>482239</b> | 34           | 68            | 3.02       | 5.86 | 2.75       | 4.38 | 3.33       | 0.98 | 1-14NS-1B      | 2.38       | 4.89 | 26.0                  |
| 14MX-34-90-IDL  | <b>482240</b> | 34           | 90            | 3.88       | 5.86 | 2.75       | 4.38 | 4.20       | 0.99 | 1-14NS-1B      | 2.25       | 4.89 | 32.2                  |
| 14MX-34-125-IDL | <b>482241</b> | 34           | 125           | 5.28       | 5.86 | 2.75       | 4.38 | 5.61       | 1.08 | 1-14NS-1B      | 2.38       | 4.89 | 36.4                  |

V-Drives

FHP Drives

Drive Component  
Accessories

DYNA-SYNC

HT200/HTD  
Synchronous DrivesHT500  
Synchronous Drives

Roller Chain Sprockets

# SPECIFICATION



## HT500 Belts

HT500 Belts are for use on Taper-Lock HT500 Sprockets  
 Belt length is in millimeters  
 To convert to inches, divide by 25.4

### 8MM Pitch HT500 Belts

| 12MM Wide   |        |      | 21MM Wide   |        |      | 36MM Wide   |        |      | 62MM Wide   |        |      |
|-------------|--------|------|-------------|--------|------|-------------|--------|------|-------------|--------|------|
| Description | P/N    | Wt.  | Description | P/N    | Wt.  | Description | P/N    | Wt.  | Description | P/N    | Wt.  |
| 248-8MX-12  | 142600 | 0.04 | 248-8MX-21  | 142638 | 0.05 | 248-8MX-36  | 142676 | 0.09 | 640-8MX-62  | 142714 | 0.80 |
| 288-8MX-12  | 142601 | 0.04 | 288-8MX-21  | 142639 | 0.06 | 288-8MX-36  | 142677 | 0.11 | 720-8MX-62  | 142715 | 1.00 |
| 352-8MX-12  | 142602 | 0.05 | 352-8MX-21  | 142640 | 0.07 | 352-8MX-36  | 142678 | 0.13 | 800-8MX-62  | 142716 | 1.08 |
| 416-8MX-12  | 142603 | 0.05 | 416-8MX-21  | 142641 | 0.09 | 416-8MX-36  | 142679 | 0.15 | 896-8MX-62  | 142717 | 1.20 |
| 456-8MX-12  | 142604 | 0.06 | 456-8MX-21  | 142642 | 0.10 | 456-8MX-36  | 142680 | 0.17 | 960-8MX-62  | 142718 | 1.25 |
| 480-8MX-12  | 142605 | 0.06 | 480-8MX-21  | 142643 | 0.10 | 480-8MX-36  | 142681 | 0.18 | 1000-8MX-62 | 142719 | 1.30 |
| 544-8MX-12  | 142606 | 0.07 | 544-8MX-21  | 142644 | 0.12 | 544-8MX-36  | 142682 | 0.20 | 1040-8MX-62 | 142720 | 1.35 |
| 608-8MX-12  | 142607 | 0.07 | 608-8MX-21  | 142645 | 0.13 | 608-8MX-36  | 142683 | 0.22 | 1120-8MX-62 | 142721 | 1.40 |
| 640-8MX-12  | 142608 | 0.40 | 640-8MX-21  | 142646 | 0.40 | 640-8MX-36  | 142684 | 0.70 | 1200-8MX-62 | 142722 | 1.75 |
| 720-8MX-12  | 142609 | 0.47 | 720-8MX-21  | 142647 | 0.45 | 720-8MX-36  | 142685 | 0.75 | 1224-8MX-62 | 142723 | 1.65 |
| 800-8MX-12  | 142610 | 0.50 | 800-8MX-21  | 142648 | 0.50 | 800-8MX-36  | 142686 | 0.80 | 1280-8MX-62 | 142724 | 1.70 |
| 896-8MX-12  | 142611 | 0.55 | 896-8MX-21  | 142649 | 0.53 | 896-8MX-36  | 142687 | 0.90 | 1440-8MX-62 | 142725 | 1.85 |
| 960-8MX-12  | 142612 | 0.58 | 960-8MX-21  | 142650 | 0.58 | 960-8MX-36  | 142688 | 0.97 | 1600-8MX-62 | 142726 | 2.00 |
| 1000-8MX-12 | 142613 | 0.60 | 1000-8MX-21 | 142651 | 0.60 | 1000-8MX-36 | 142689 | 1.00 | 1760-8MX-62 | 142727 | 2.10 |
| 1040-8MX-12 | 142614 | 0.65 | 1040-8MX-21 | 142652 | 0.65 | 1040-8MX-36 | 142690 | 1.02 | 1792-8MX-62 | 142728 | 2.10 |
| 1120-8MX-12 | 142615 | 0.68 | 1120-8MX-21 | 142653 | 0.70 | 1120-8MX-36 | 142691 | 1.10 | 2000-8MX-62 | 142729 | 2.30 |
| 1200-8MX-12 | 142616 | 0.70 | 1200-8MX-21 | 142654 | 0.75 | 1200-8MX-36 | 142692 | 1.12 | 2200-8MX-62 | 142730 | 2.50 |
| 1224-8MX-12 | 142617 | 0.72 | 1224-8MX-21 | 142655 | 0.75 | 1224-8MX-36 | 142693 | 1.20 | 2240-8MX-62 | 142731 | 2.55 |
| 1280-8MX-12 | 142618 | 0.75 | 1280-8MX-21 | 142656 | 0.80 | 1280-8MX-36 | 142694 | 1.25 | 2400-8MX-62 | 142732 | 2.80 |
| 1440-8MX-12 | 142619 | 0.80 | 1440-8MX-21 | 142657 | 0.90 | 1440-8MX-36 | 142695 | 1.35 | 2520-8MX-62 | 142733 | 2.90 |
| 1600-8MX-12 | 142620 | 0.90 | 1600-8MX-21 | 142658 | 1.00 | 1600-8MX-36 | 142696 | 1.45 | 2600-8MX-62 | 142734 | 2.95 |
| 1760-8MX-12 | 142621 | 0.95 | 1760-8MX-21 | 142659 | 1.15 | 1760-8MX-36 | 142697 | 1.60 | 2800-8MX-62 | 142735 | 3.10 |
| 1792-8MX-12 | 142622 | 1.00 | 1792-8MX-21 | 142660 | 1.15 | 1792-8MX-36 | 142698 | 1.65 | 2840-8MX-62 | 142736 | 3.15 |
| 2000-8MX-12 | 142623 | 1.10 | 2000-8MX-21 | 142661 | 1.25 | 2000-8MX-36 | 142699 | 1.70 | 3048-8MX-62 | 142737 | 3.40 |
| 2200-8MX-12 | 142624 | 1.15 | 2200-8MX-21 | 142662 | 1.38 | 2200-8MX-36 | 142700 | 1.88 | 3200-8MX-62 | 142738 | 3.60 |
| 2240-8MX-12 | 142625 | 1.20 | 2240-8MX-21 | 142663 | 1.40 | 2240-8MX-36 | 142701 | 1.90 | 3280-8MX-62 | 142739 | 3.70 |
| 2400-8MX-12 | 142626 | 1.30 | 2400-8MX-21 | 142664 | 1.50 | 2400-8MX-36 | 142702 | 2.00 | 3600-8MX-62 | 142740 | 4.05 |
| 2520-8MX-12 | 142627 | 1.35 | 2520-8MX-21 | 142665 | 1.60 | 2520-8MX-36 | 142703 | 2.15 | 4000-8MX-62 | 142741 | 4.40 |
| 2600-8MX-12 | 142628 | 1.40 | 2600-8MX-21 | 142666 | 1.65 | 2600-8MX-36 | 142704 | 2.30 | 4400-8MX-62 | 142742 | 4.80 |
| 2800-8MX-12 | 142629 | 1.50 | 2800-8MX-21 | 142667 | 1.75 | 2800-8MX-36 | 142705 | 2.40 | 4480-8MX-62 | 142743 | 4.90 |
| 2840-8MX-12 | 142630 | 1.52 | 2840-8MX-21 | 142668 | 1.80 | 2840-8MX-36 | 142706 | 2.50 |             |        |      |
| 3048-8MX-12 | 142631 | 1.65 | 3048-8MX-21 | 142669 | 1.90 | 3048-8MX-36 | 142707 | 2.62 |             |        |      |
| 3200-8MX-12 | 142632 | 1.70 | 3200-8MX-21 | 142670 | 2.05 | 3200-8MX-36 | 142708 | 2.70 |             |        |      |
| 3280-8MX-12 | 142633 | 1.75 | 3280-8MX-21 | 142671 | 2.10 | 3280-8MX-36 | 142709 | 2.72 |             |        |      |
| 3600-8MX-12 | 142634 | 1.85 | 3600-8MX-21 | 142672 | 2.25 | 3600-8MX-36 | 142710 | 2.95 |             |        |      |
| 4000-8MX-12 | 142635 | 2.10 | 4000-8MX-21 | 142673 | 2.55 | 4000-8MX-36 | 142711 | 3.25 |             |        |      |
| 4400-8MX-12 | 142636 | 2.25 | 4400-8MX-21 | 142674 | 2.75 | 4400-8MX-36 | 142712 | 3.55 |             |        |      |
| 4480-8MX-12 | 142637 | 2.33 | 4480-8MX-21 | 142675 | 2.80 | 4480-8MX-36 | 142713 | 3.60 |             |        |      |

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets



# SPECIFICATION

## HT500 Belts

HT500 Belts are for use on Taper-Lock HT500 Sprockets  
 Belt length is in millimeters  
 To convert to inches, divide by 25.4

### 14MM Pitch HT500 Belts

| 20MM Wide    |               |      | 37MM Wide    |               |      | 68MM Wide    |               |      | 90MM Wide    |               |      | 125MM Wide    |               |       |
|--------------|---------------|------|--------------|---------------|------|--------------|---------------|------|--------------|---------------|------|---------------|---------------|-------|
| Description  | P/N           | Wt.  | Description  | P/N           | Wt.  | Description  | P/N           | Wt.  | Description  | P/N           | Wt.  | Description   | P/N           | Wt.   |
| 994-14MX-20  | <b>142744</b> | 1.30 | 994-14MX-37  | <b>142771</b> | 1.60 | 994-14MX-68  | <b>142798</b> | 2.40 | 994-14MX-90  | <b>142825</b> | 3.00 | 994-14MX-125  | <b>142852</b> | 3.60  |
| 1120-14MX-20 | <b>142745</b> | 1.35 | 1120-14MX-37 | <b>142772</b> | 1.70 | 1120-14MX-68 | <b>142799</b> | 2.60 | 1120-14MX-90 | <b>142826</b> | 3.30 | 1120-14MX-125 | <b>142853</b> | 3.90  |
| 1190-14MX-20 | <b>142746</b> | 1.40 | 1190-14MX-37 | <b>142773</b> | 1.75 | 1190-14MX-68 | <b>142800</b> | 2.70 | 1190-14MX-90 | <b>142827</b> | 3.35 | 1190-14MX-125 | <b>142854</b> | 4.00  |
| 1260-14MX-20 | <b>142747</b> | 1.45 | 1260-14MX-37 | <b>142774</b> | 1.80 | 1260-14MX-68 | <b>142801</b> | 2.80 | 1260-14MX-90 | <b>142828</b> | 3.60 | 1260-14MX-125 | <b>142855</b> | 4.20  |
| 1400-14MX-20 | <b>142748</b> | 1.55 | 1400-14MX-37 | <b>142775</b> | 2.05 | 1400-14MX-68 | <b>142802</b> | 3.00 | 1400-14MX-90 | <b>142829</b> | 3.35 | 1400-14MX-125 | <b>142856</b> | 4.60  |
| 1568-14MX-20 | <b>142749</b> | 1.65 | 1568-14MX-37 | <b>142776</b> | 2.20 | 1568-14MX-68 | <b>142803</b> | 3.25 | 1568-14MX-90 | <b>142830</b> | 4.10 | 1568-14MX-125 | <b>142857</b> | 5.00  |
| 1610-14MX-20 | <b>142750</b> | 1.70 | 1610-14MX-37 | <b>142777</b> | 2.30 | 1610-14MX-68 | <b>142804</b> | 3.40 | 1610-14MX-90 | <b>142831</b> | 4.25 | 1610-14MX-125 | <b>142858</b> | 5.20  |
| 1750-14MX-20 | <b>142751</b> | 1.75 | 1750-14MX-37 | <b>142778</b> | 2.45 | 1750-14MX-68 | <b>142805</b> | 3.60 | 1750-14MX-90 | <b>142832</b> | 4.50 | 1750-14MX-125 | <b>142859</b> | 5.40  |
| 1890-14MX-20 | <b>142752</b> | 1.75 | 1890-14MX-37 | <b>142779</b> | 2.55 | 1890-14MX-68 | <b>142806</b> | 3.95 | 1890-14MX-90 | <b>142833</b> | 4.85 | 1890-14MX-125 | <b>142860</b> | 5.80  |
| 1960-14MX-20 | <b>142753</b> | 1.80 | 1960-14MX-37 | <b>142780</b> | 2.60 | 1960-14MX-68 | <b>142807</b> | 4.00 | 1960-14MX-90 | <b>142834</b> | 4.95 | 1960-14MX-125 | <b>142861</b> | 6.00  |
| 2100-14MX-20 | <b>142754</b> | 1.90 | 2100-14MX-37 | <b>142781</b> | 2.70 | 2100-14MX-68 | <b>142808</b> | 4.20 | 2100-14MX-90 | <b>142835</b> | 5.20 | 2100-14MX-125 | <b>142862</b> | 6.50  |
| 2240-14MX-20 | <b>142755</b> | 1.98 | 2240-14MX-37 | <b>142782</b> | 2.85 | 2240-14MX-68 | <b>142809</b> | 4.50 | 2240-14MX-90 | <b>142836</b> | 5.45 | 2240-14MX-125 | <b>142863</b> | 6.80  |
| 2310-14MX-20 | <b>142756</b> | 2.05 | 2310-14MX-37 | <b>142783</b> | 2.90 | 2310-14MX-68 | <b>142810</b> | 4.70 | 2310-14MX-90 | <b>142837</b> | 5.50 | 2310-14MX-125 | <b>142864</b> | 7.00  |
| 2380-14MX-20 | <b>142757</b> | 2.10 | 2380-14MX-37 | <b>142784</b> | 3.00 | 2380-14MX-68 | <b>142811</b> | 4.70 | 2380-14MX-90 | <b>142838</b> | 5.70 | 2380-14MX-125 | <b>142865</b> | 7.10  |
| 2450-14MX-20 | <b>142758</b> | 2.15 | 2450-14MX-37 | <b>142785</b> | 3.10 | 2450-14MX-68 | <b>142812</b> | 4.85 | 2450-14MX-90 | <b>142839</b> | 5.85 | 2450-14MX-125 | <b>142866</b> | 7.20  |
| 2520-14MX-20 | <b>142759</b> | 2.20 | 2520-14MX-37 | <b>142786</b> | 3.20 | 2520-14MX-68 | <b>142813</b> | 4.90 | 2520-14MX-90 | <b>142840</b> | 5.90 | 2520-14MX-125 | <b>142867</b> | 7.40  |
| 2590-14MX-20 | <b>142760</b> | 2.20 | 2590-14MX-37 | <b>142787</b> | 3.25 | 2590-14MX-68 | <b>142814</b> | 5.00 | 2590-14MX-90 | <b>142841</b> | 5.95 | 2590-14MX-125 | <b>142868</b> | 7.60  |
| 2660-14MX-20 | <b>142761</b> | 2.25 | 2660-14MX-37 | <b>142788</b> | 3.35 | 2660-14MX-68 | <b>142815</b> | 5.15 | 2660-14MX-90 | <b>142842</b> | 6.10 | 2660-14MX-125 | <b>142869</b> | 7.75  |
| 2800-14MX-20 | <b>142762</b> | 2.30 | 2800-14MX-37 | <b>142789</b> | 3.40 | 2800-14MX-68 | <b>142816</b> | 5.20 | 2800-14MX-90 | <b>142843</b> | 6.40 | 2800-14MX-125 | <b>142870</b> | 8.30  |
| 3136-14MX-20 | <b>142763</b> | 2.50 | 3136-14MX-37 | <b>142790</b> | 3.65 | 3136-14MX-68 | <b>142817</b> | 5.80 | 3136-14MX-90 | <b>142844</b> | 7.00 | 3136-14MX-125 | <b>142871</b> | 9.10  |
| 3304-14MX-20 | <b>142764</b> | 2.55 | 3304-14MX-37 | <b>142791</b> | 3.85 | 3304-14MX-68 | <b>142818</b> | 6.05 | 3304-14MX-90 | <b>142845</b> | 7.35 | 3304-14MX-125 | <b>142872</b> | 9.50  |
| 3360-14MX-20 | <b>142765</b> | 2.60 | 3360-14MX-37 | <b>142792</b> | 3.85 | 3360-14MX-68 | <b>142819</b> | 6.10 | 3360-14MX-90 | <b>142846</b> | 7.50 | 3360-14MX-125 | <b>142873</b> | 9.65  |
| 3500-14MX-20 | <b>142766</b> | 2.70 | 3500-14MX-37 | <b>142793</b> | 3.95 | 3500-14MX-68 | <b>142820</b> | 6.30 | 3500-14MX-90 | <b>142847</b> | 7.70 | 3500-14MX-125 | <b>142874</b> | 10.00 |
| 3850-14MX-20 | <b>142767</b> | 2.85 | 3850-14MX-37 | <b>142794</b> | 4.25 | 3850-14MX-68 | <b>142821</b> | 6.80 | 3850-14MX-90 | <b>142848</b> | 8.30 | 3850-14MX-125 | <b>142875</b> | 10.75 |
| 3920-14MX-20 | <b>142768</b> | 2.95 | 3920-14MX-37 | <b>142795</b> | 4.35 | 3920-14MX-68 | <b>142822</b> | 7.00 | 3920-14MX-90 | <b>142849</b> | 8.50 | 3920-14MX-125 | <b>142876</b> | 11.00 |
| 4326-14MX-20 | <b>142769</b> | 3.15 | 4326-14MX-37 | <b>142796</b> | 4.70 | 4326-14MX-68 | <b>142823</b> | 7.70 | 4326-14MX-90 | <b>142850</b> | 9.20 | 4326-14MX-125 | <b>142877</b> | 12.00 |
| 4410-14MX-20 | <b>142770</b> | 3.20 | 4410-14MX-37 | <b>142770</b> | 4.75 | 4410-14MX-68 | <b>142824</b> | 7.85 | 4410-14MX-90 | <b>142851</b> | 9.30 | 4410-14MX-125 | <b>142878</b> | 12.20 |

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets



## HT500 Low-Speed Design Load Calculations

For use when designing HT500 belt drives with low speeds

### I. Actual Operating Loads Known

In such cases where the actual operating load is known, design the belt drive for the actual operating load rather than for a load based upon the motor name plate. Use Equation 1 to calculate the proper drive design load based upon motor load (name plate or measured) when the belt drive will be installed on the reducer output shaft.

### Design Load

Equation 1  
 $DesignLoad = (MotorLoad) \times ServiceFactor \times (\% Reducer Efficiency/100) \times Motor Load$   
 Motor Load: From user/OEM  
 Service Factor: From Table 1  
 % Efficiency: From reducer manufacturer

Table 1—Service Factors for Low-Speed Drives  
 For Drive Selections With Shaft Speeds Less Than 500 rpm

| DriveN Machine<br><br>Select a driven load category whose characteristics most closely represent those of the actual equipment   | Typical drivers are electric motors, hydraulic motors, or internal combustion engines with hydraulic couplings/torque converters. |                  |                    |
|--|---|------------------|--------------------|
|  | Intermittent Service  | Normal Service   | Continuous Service |
|  | 3-5 Hours Daily   | 8-10 Hours Daily | 16-24 Hours Daily  |
| <b>Uniform Load:</b><br>Agitators & Mixers: liquid and semi-liquid<br>Conveyors: light package, oven, ore, sand, salt<br>Food Equipment: bottling machinery, kettles, cookers, food handling machinery<br>Line shafts: light or normal service<br>Paper Industry: agitators, bleachers, calendars, dryer machinery<br>Printing Machinery: cutters, rotary, embossing & flatbed presses, linotype, folders                    | 1.0   | 1.2              | 1.3                |
| <b>Moderate Shock Load:</b><br>Agitator Mixers: dough, heavy syrups<br>Brick & Clay Machinery: auger, brick machines<br>Conveyors: apron, bucket, pan, elevator<br>Cranes & Hoists: hoists, elevators<br>Line Shafts: moderate, heavy service<br>Paper Industry: yankee dryer, winder drums<br>Printing Machinery: magazine & newspaper printing presses<br>Rubber & Plastics Machinery: calendars, rolls, tubers, extruders | 1.3   | 1.4              | 1.5                |
| <b>Heavy Shock Loads:</b><br>Brick & Clay Machinery: mixers, pug mills, rolls<br>Conveyors: screw, flight<br>Crushing Machinery: ball mills, jaw crushers, roll crushers<br>Mills: rotary, ball, pebble, rod, tube<br>Mixers: concrete<br>Rubber & Plastics Machinery: mixers, sheeters  | 1.5   | 1.6              | 1.7                |

#### Additional Guidelines

There are many driven machines using, or potentially designed to use, roller chain drive systems.

When converting these to HT500 drives, consider the following additional guidelines.

- Do not overlook the torque multiplying effect of belt drives and speed reducers when calculating with torque loads.
- Engineering judgment should be used in determining a design load for non-standard motors with high starting loads (NEMA C, NEMA D, Direct Current, etc.).
- For guidance in calculating speed reducer efficiency, refer to Speed Reducer Efficiency on Page PT12-24.



## Low-Speed HT500 Belt Drive Selection Procedure

For drive selections with shaft speeds less than 500 rpm

### Selection of a Stock HT500 belt drive system involves these eight steps:

1. Calculate the Design Horsepower
2. Select the Belt Pitch
3. Select the Sprockets and Belt Length
4. Select the Proper Belt Width
5. Check and Specify Stock Drive Components
6. Installation and Take-up
7. Calculate Belt Tensioning Requirements
8. Verify Speed Reducer Overhung Load

#### Sample Drive Selection Problem

A blank Low-Speed Drive Design Information Sheet can be found on page PT12-25. This form provides a convenient method for collecting data to properly design or convert to a HT500 belt drive.

In this example, an ore conveyor is powered by an electric motor directly connected to a speed reducer. A HT500 belt drive is needed to transmit power from the speed reducer output shaft to the conveyor shaft. The motor is a 5 horsepower, 1750 rpm normal torque AC motor.

The speed reducer is a worm gear type unit with a 50 to 1 speed ratio. The ore conveyor is to be driven at  $17.5 \pm 5\%$  rpm and operates 24 hours per day 7 days a week. The center distance between shafts is 50.0 inches, but can be altered  $\pm 3.0$  inches, if necessary. The speed reducer output shaft has a 1.500 inch diameter and the conveyor shaft has a 2.000 inch diameter.

#### Step 1 Calculate The Design Horsepower

The Design Horsepower should be calculated as follows:

$$\text{Design Horsepower} = (\text{Motor Load}) \times (\text{Low-Speed Service Factor}) \times (\text{Reducer Efficiency})$$

#### Procedure

A. The motor load can be determined by several methods as explained in the Low-Speed Drive Load Calculations section on pages PT12-22 - PT12-24. The method used for determining motor load will depend on how much information is available on the application. A worksheet is provided on page PT12-25 to help choose which method is most appropriate given the information known.

#### Example

This example demonstrates the Proportioned Amperage Rating approach described in Formula 5 below.

$$\text{Horsepower} = \frac{(\text{nameplate HP}) (\text{measured Amps})}{(\text{nameplate Amps})}$$

Motor = 5.00 hp (nameplate rating)  
 Nameplate Amps = 70.  
 Measured Amps: Phase 1 = 4.1  
                     Phase 2 = 4.4  
                     Phase 3 = 4.2

$$\begin{aligned} \text{Average Measured Amps} &= \frac{\text{Phase 1} + \text{Phase 2} + \text{Phase 3}}{3} \\ &= \frac{4.1 \text{ amps} + 4.4 \text{ amps} + 4.2 \text{ amps}}{3} \end{aligned}$$

**Average Measured Amps = 4.2 amps**

$$\begin{aligned} \text{Motor Load} &= \frac{(\text{Nameplate hp}) (\text{Average Measured Amps})}{(\text{Nameplate Amps})} \\ &= \frac{5 \text{ hp} \times 4.2 \text{ amps}}{7.0 \text{ amps}} \end{aligned}$$

**Motor Load = 3.00 hp Procedure**

B. The proper Low-Speed Service Factor is selected from Table 1 - Service Factors For Low-Speed Roller Chain Drive Conversions. The selection is based on the category of machinery being driven and the number of service hours per day.

#### Example

An Ore Conveyor is found in the Uniform Load drive group. Reading across to the right, the column heading for 16-24 hours daily service shows that a **1.3 Service Factor** is recommended.

#### Procedure

C. The Reducer Efficiency is available from the speed reducer name plate or manufacturers' catalogs. Often the speed reducer efficiency is not provided directly in manufacturer's catalog. In such cases the reducer efficiency must be calculated as described on page PT12-24.

#### Example - Speed Reducer Efficiency Calculation

Speed Reducer Rated Input Load hp = .65  
 Speed Reducer Rated Output Torque = lb-in. 6210  
 Speed Reducer Rated Output Speed rpm = 35  
 Rated Output hp

$$\begin{aligned} &= \frac{(\text{Rated Output Torque}) \times (\text{Output Speed})}{63025} \\ &= \frac{(6210 \text{ lb-in}) \times (35 \text{ rpm})}{63025} \end{aligned}$$

**Rated Output hp = 3.4**

$$\begin{aligned} \text{Reducer Efficiency} &= \frac{\text{Rated Output Power}}{\text{Rated Input Power}} \\ &= \frac{3.4 \text{ hp}}{6.5 \text{ hp}} \end{aligned}$$

**Reducer Efficiency = 0.53 or 53%**

#### Procedure

D. The Design Horsepower can now be determined by multiplying these three values together.

#### Example - Design Horsepower Calculation

Motor Load = **3.00 hp**  
 Low-Speed Service Factor = **1.3**  
 Reducer Efficiency = 53%  
 Horsepower = (Motorload)(Reducer Eff)  
 Horsepower = (3.00)(0.53) = 1.59

**Design Horsepower = (HP)(Low Speed Service Factor)**  
**Design Horsepower = (1.59)(1.3)**  
**Design Horsepower = 2.07**



## Low-Speed HT500 Belt Drive Selection Procedure

### Step 2 Select The Belt Pitch

#### Procedure

Using the Design Horsepower and the output speed of the speed reducer, select the belt pitch from the Belt Pitch Selection Guide Chart on page PT12-31.

#### Example

Design Horsepower = **2.07 hp**  
 Reducer Output Speed = **35 rpm**

Locate 35 rpm on the "RPM of Faster Shaft" scale on the left side of the chart and move over to where the 2.07 Design Horsepower line intersects. The intersection falls within the **8mm** pitch section, but a 14mm pitch belt could also be used.

### Step 3 Select The Sprockets and Belt Length

#### Procedure

**A. Determine the belt drive speed ratio:** The speed ratio can be calculated by dividing the speed (rpm) of the faster shaft by the speed (rpm) of the slower shaft.

#### Example

Reducer Output Speed = 35 rpm

Ore Conveyor Speed = 17.5 rpm

$$\text{Speed Ratio} = \frac{\text{rpm of faster shaft}}{\text{rpm of slower shaft}} = \frac{35}{17.5} = 2.00$$

**B. Select the sprocket combination and belt length:** Referring to the Stock Drive Selection Tables, find the proper set of tables for the belt pitch (8mm or 14mm) found in Step 2. Looking down the speed ratio column, find the value which most closely matches the belt drive speed ratio required. Reading across the selected speed ratio line, find the stock DriveR and DriveN sprocket combination available. Reading further across, locate the belt drive center distance which most closely matches the target center distance specified. The belt sizes are listed across the top of the table for each corresponding center distance.

Multiple sprocket combinations will often be available for a given speed ratio. In such cases, selection of the proper drive combination will depend on the center distance required, minimum or maximum required sprocket diameters and speed reducer overhung load requirements. After selecting possible sprocket combinations and center distances, record the belt length (top of column) and the length factor (bottom of column).

#### Example

Belt pitch = 14mm

Belt Drive Speed Ratio = 2.000

Center Distance = 50.00 ± 3.00 in. (from the problem statement)

Refer to the 14mm Pitch Stock Drive Selection Tables on pages PT12-63 - PT12-76. Reading down the Speed Ratio Column locate 2.000. In this case, there are five different drive combinations available for a 2.000 Speed Ratio. Checking the center distance values for each combination, the 50.10 inch value is the closest to the 50.00 inch target. So, the 28 teeth DriveR sprocket, 56 teeth DriveN sprocket, and 3136-14MX (224 teeth) belt combination is selected. Also note that the Belt Length Correction Factor is 1.12 with a center distance of 50.10 inches.

### Step 4 Select The Proper Belt Width Procedure

Horsepower Rating Tables are located on pages PT12-38 - PT12-46 for standard belt pitches and stock belt widths. The base horsepower rating is given in the upper table as a function of the speed (rpm) of the faster shaft and diameter of the small sprocket. The speed of the faster shaft is located in the left hand column. Across the top are various stock sprocket sizes. The base horsepower rating of a given sprocket, at a specific speed, is the point at which the "rpm" row and the "sprocket size" column intersect.

This basic horsepower rating must be corrected for speed down speed ratios, and for the belt length selected. The following formula should be used to calculate the total drive horsepower rating:

$$\text{Rated Drive Horsepower} = [\text{Rated Base Horsepower} + \text{Additional Horsepower for Speed Ratio}] \times (\text{Belt Length Correction Factor})$$

Referring to the Speed Ratio Add-On Factor Table, select a value based upon the drive operating speed and the speed ratio. This value should be added to the basic horsepower rating. Multiply the corrected rating by the applicable Belt Length Correction Factor determined in Step 3B or from the Belt Length Correction Factor Table. The corrected horsepower rating must equal or exceed design horsepower.

Where there are several choices, space limitations may control the selection. In addition, the following guidelines should be considered:

1. Larger sprockets result in reduced belt width.
2. Larger sprockets yield longer drive service life.
3. Avoid drives where the belt width exceeds the smaller sprocket diameter.
4. Avoid drives where center distance is greater than 8 times the diameter of the smaller sprocket.

#### Example

Referring to the 14mm pitch Horsepower Rating Table for 20mm Wide belts on page PT12-42. Read down the left hand column for "RPM of Faster Shaft" and locate 35 rpm. Read the sprocket sizes listed across the top of the table and locate the 28 teeth, 4.912 inch P.D. column. Read across the "RPM" row and down the sprocket size column until the two intersect at a **Rated Base Horsepower of 2.53 HP.**

Next, referencing the Speed Ratio Add-On Correction Table (page PT12-42), find the listing for a 2.000 speed ratio. An add-on factor of 0.11 hp is listed. Then, referencing the Belt Length Correction Factor Table (page PT12-72), find the listing for a 3136-14MX belt. A correction factor of 1.12 is listed.

## Low-Speed HT500 Belt Drive Selection Procedure

Calculate the Corrected Horsepower Rating:

Rated Drive Horsepower =

[Rated Base Horsepower + Added HP for Speed Ratio] x (Belt Length Correction Factor) = [2.53 hp + 0.11 hp] x (1.12)

**Rated Drive Horsepower 2.96 hp**

The Corrected Horsepower Rating of 2.96 hp exceeds the Design Horsepower target of 2.07 hp. So, a **belt width of 20mm** is acceptable.

### Step 5 Check and Specify Stock Drive Components

#### Procedure

**A. Check the sprockets selected against any special design requirements** using the dimensions provided in the Sprocket Specifications Tables on pages PT12-6 - PT12-13. Use flange diameters when checking against maximum diameter requirements.

**B. Determine the bushing size required for each sprocket and check bore sizes** by using the Sprocket Specification Tables. From the Stock Bushing tables in the bushing section, check the bore range and keyway dimensions against the design requirements.

#### Example

Also from the sprocket data on page PT12-9 we note that the **14MX-28S-20 sprocket** requires a 2012 bushing and the **14MX-56S-20 sprocket** requires a 3525 bushing. On page PT12-81 in the bushing data table, a **2012 bushing has a bore range of 1/2 to 2-1/8 inches**, which includes the 1-1/2 inch bore required for the driveR shaft. The **3525 bushing has a bore range from 1-3/16 to 3-15/16 inches** page PT12-83, which includes the 2 inch bore required for the driveN shaft.

**C. Specify stock drive components using proper designations.**

#### Example

Stock drive components are as follows:

- 1 ea. - 3136-14MX-20 HT500 belt
- 1 ea. - 14MX-28S-20 driveR sprocket
- 1 ea. - 2012 Bushing with a 1-1/2 in. bore
- 1 ea. - 14MX-56S-20 driveN sprocket
- 1 ea. - 3525 Bushing with a 2 in. bore

### Step 6 Installation and Take-up

#### Procedure

Because of its high resistance to elongation (stretch), there is no need to re-tension and take-up a HT500 belt drive. However, some adjustment must be provided when installing synchronous belt drives, as with nearly all power transmission systems, due to manufacturing and assembly tolerances and initial tensioning requirements. Table 11 on page PT12-36 lists the standard installation and take-up requirements for a given belt length. Additional center distance adjustment is needed when installing the belt over flanged sprockets (see Table 11 on page PT12-36.)

#### Example

As can be seen in the Sprocket Specifications Table on page PT12-9, both of the sprockets are flanged. Therefore, an additional allowance will be needed for installation over flanged sprockets. The total installation and tensioning allowances, are shown below.

**Installation Allowance = 0.16 in. + 1.97 in. = 2.13 in.**

**Tensioning Allowance = 0.05 in.**

Subtracting this from the nominal center distance value gives a minimum center distance necessary for belt installation of (50.10 inch - 2.13 inch) = 47.97 inches. From the problem statement, the center distance can be reduced down to 47.0 in. if needed. So, there is sufficient center distance adjustment to easily install the belt.

### Step 7 Calculate Belt Tensioning Requirements

#### Procedure

**A. Calculate base static tension** using Formula 14 on page PT12-35. The m value is listed in Table 10 on page PT12-34.

#### Example

Belt Pitch = 14mm  
 Belt Size = 3136-14MX, 224 teeth (123.46 in. P.L.)  
 Belt Width = 20mm  
 DriveR Sprocket = 28 teeth (4.912 in. P.D.)  
 DriveR Shaft Speed = 35 rpm  
 DriveN Sprocket = 56 teeth (9.825 in. P.D.)  
 Actual Center Distance = 50.10 in.  
 Design Horsepower = 2.07 hp  
 Horsepower = 1.59 hp

$$T_{st} = \frac{20 \text{ DHP}}{S} + mS^2, \text{ pounds}$$

where:

DHP = Design Horsepower = 1.59 hp

m = 0.92, constant for 14mm pitch, 20mm wide belt from Table 10 on page PT12-34.

S = (Sprocket Diameter) x (Shaft Speed) / 3820  
 = (4.912 in.) x (35 rpm) / 3820

**S = 0.05**

$$T_{st} = \frac{20(1.59)}{0.05} + (0.92)(0.05)^2$$

Tst = 636.00 + 0.002 lb.

**Tst = 636.00 lb.**



## Low-Speed HT500 Belt Drive Selection Procedure

### Step 7 Calculate Belt Tensioning Requirements

Procedure — continued

B. Calculate minimum and maximum deflection forces using Formulas 15 and 16 on page PT12-35. The Y value is listed in Table 10 on page PT12-34.

**Example**

a. Calculate the belt span length

$$t = \sqrt{C^2 - \left(\frac{D-d}{2}\right)^2}$$

where:

t = Span Length, inches

C = Center Distance = **50.10 in.**

D = diameter of larger sprocket = **9.825 in. P.D.**

d = diameter of smaller sprocket = **4.912 in. P.D.**

$$t = \sqrt{50.10^2 - \left(\frac{9.825 - 4.912}{2}\right)^2}$$

**t = 50.04 in.**

b. Calculate Minimum and Maximum belt deflection forces referring to Formulas 15 and 16 on page PT12-35:

$$\text{Min Deflection Force} = \frac{1.1st + \left(\frac{t}{L}\right)Y}{16} \text{ pounds}$$

where:

$T_{ST} = 636.0$  pounds static tension as calculated above

t = **50.04** inches span length as calculated above

L = **123.46** inches belt length

Y = **230** (constant for Y, Table 10 on page PT12-34)

$$\text{Min Deflection Force} = \frac{1.1(636.0) + \left(\frac{50.04}{123.46}\right)(230)}{16}$$

**Min. Deflection Force = 49.5 lb.**

$$\text{Max Deflection Force} = \frac{1.2T_{st} + \left(\frac{t}{L}\right)Y}{16}$$

$$\text{Max Deflection Force} = \frac{1.2(636.0) + \left(\frac{50.04}{123.46}\right)(230)}{16}$$

**Min. Deflection Force = 53.5 lb.**

C. Determine the deflection distance using 1/64" per inch of span length.

**NOTE: Deflection forces must be applied evenly across the entire belt width.**

**Example**

$$\text{Deflection Distance} = \frac{t}{64}, \text{ inches}$$

$$\text{Deflection Distance} = \frac{50.04}{64}$$

**Deflection Distance = 0.78**

**D. Applying The Tension:**

At the center of span (t), apply a force perpendicular to the belt span large enough to deflect the belt 0.78 inch from its normal free position. Be sure that the force is applied evenly across the entire belt width. Note that one sprocket should be free to rotate during the belt tensioning process.

Compare the measured deflection force with the range of minimum to maximum deflection forces calculated previously.

1. If the measured deflection force is less than the minimum recommended deflection force, the belt should be tightened.

2. If the measured deflection force is greater than the maximum recommended deflection force, the belt should be loosened.

**Example**

When the Ore Conveyor belt drive is properly tensioned, a belt span deflection of 0.78 in. should require a deflection force within the range of 49.5 to 53.5 lb.

**Step 8 Verify Speed Reducer Overhung Load**

**Procedure**

An Overhung Load calculation verifies that the belt drive system will not overload the speed reducer shaft and bearings. The Overhung Load calculation for speed reducers varies from manufacturer to manufacturer. Please refer to speed reducer catalogs or contact the speed reducer manufacturer for further assistance.



# SELECTION

## Low-Speed HT500 Belt Drive Selection Procedure Advantages of the Low-Speed Drive Design Procedure

Having read through the Low-Speed Drive Design Procedure and example, some may wonder if the extra steps required are really worth the effort. Absolutely! Using the low-speed drive design techniques for drives operating at speeds less than 500 rpm can result in a much smaller drive package at a lower cost. Outlined below is a comparison of the Low-Speed Drive Design Procedure with the traditional drive design procedure. The benefits of designing with a Low Speed Service Factor, Actual Horsepower Load, and Speed Reducer Efficiency are demonstrated. Combining these techniques can result in a substantially narrower belt drive width which saves space and reduces cost.

### Comparison 1 — Traditional Drive Design Procedure

The traditional drive design procedure is outlined on pages PT12-28 - PT12-31 and should still be used for belt drives operating at speeds greater than 500 rpm. In the past this procedure was used to select all HT500 belt drives. The new “Low-Speed Drive Design Procedure” results in belt drive systems better sized for low speed power transmission system that typically utilize speed reducers and roller chain.

Using the traditional design procedure to select the belt drive system for the Ore Conveyor example would result in a much wider belt. The traditional design procedure does not account for a low-speed service factor, the actual operating load of the motor, or speed reducer efficiency. Rather, the belt selection is based purely on the name plate horsepower rating of the motor with a standard service factor. For the Ore Conveyor example this would mean a 5 hp name plate rating and a 1.7 service factor resulting in a Design Horsepower for the belt drive of  $(5.00 \text{ hp}) \times (1.7) = 8.50 \text{ hp}$ . This is over 4 times the Design Horsepower of 2.07 hp determined using the Low-Speed Drive Design Procedure. Referring to the Horsepower Rating Tables on pages PT12-38 - PT12-46, **a belt width of 68mm is required for this higher 8.50 Design Horsepower Load using the Traditional Design Method compared to a belt width of only 20mm for the 2.07 Design Horsepower Load using the Low-Speed Design Method.**

### Comparison 2 — Benefit of Low-Speed Service Factor

Using a low-speed service factor can reduce the required belt width compared to a standard service factor value. The reason for this is directly related to belt drive operating speeds. Detrimental effects such as belt tensile cord fatigue and belt wear both occur during belt drive operation, but accumulate in direct proportion to the operating speed. Lower operating speeds result in less belt damage over time allowing the use of less severe service factors in the belt drive selection process. Service factors especially for belt drives operating at low speeds (500 rpm and less; includes many roller chain applications) are provided in Table 1—Service Factors For Low-Speed Roller Chain Drive Conversions on page PT12-19.

Referring to the Ore Conveyor Example, a low-speed service factor of 1.3 is recommended for this application. Substituting the reduced 1.3 low-speed service factor: Design Horsepower =  $(5.00 \text{ hp}) \times (1.3) = 6.50 \text{ hp}$ . Referring to the Horsepower Rating Tables on pages PT12-38 - PT12-46, **the belt width required for 6.50 Design Horsepower is 68mm.**

### Comparison 3—Benefit of Designing with Actual Motor Load

Typical belt drive selections are based upon motor nameplate horsepower ratings. However, industry surveys estimate that half of all U.S. motors operate at less than 60 percent of their rated load, and one third operate at below 50 percent of their rated load. So, sizing belt drives based on true operating loads can result in a more compact sized belt drive system.

Continuing with the Ore Conveyor Example, the Proportioned Amperage Rating approach was used to calculate a Motor Load of 3.00 hp. Substituting the reduced 3.00 hp motor load: Design Horsepower =  $(3.00 \text{ hp}) \times (1.3) = 3.90 \text{ hp}$ . Referring to the Horsepower Rating Tables on pages PT12-38 - PT12-46, **the belt width required for 3.90 Design Horsepower is only 37mm compared to the 68mm belt width required in Comparison 2.**









# SELECTION

## High-Speed Drive Survey and Energy Savings Worksheet

### Customer Information

Company: \_\_\_\_\_ Distributor: \_\_\_\_\_  
 Address: \_\_\_\_\_ Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 \_\_\_\_\_ E-mail: \_\_\_\_\_

### Drive Information

I.D. of Drive (location, number, etc.) \_\_\_\_\_  
 Description of DriveN Equipment \_\_\_\_\_  
 Manufacturer of DriveN Equipment \_\_\_\_\_

Horsepower rating of Motor \_\_\_\_\_ DriveN HP Load (Peak) \_\_\_\_\_  
 (Normal) \_\_\_\_\_  
 Motor Frame Size \_\_\_\_\_ Motor Shaft Dia. \_\_\_\_\_ DriveN Shaft Dia \_\_\_\_\_

#### Speed:

DriveR RPM \_\_\_\_\_ RPM Measured with Contact or Strobe Tachometer  Yes  No  
 DriveN RPM \_\_\_\_\_ RPM Measured with Contact or Strobe Tachometer  Yes  No  
 Speed Ratio \_\_\_\_\_ Speed Up \_\_\_\_\_ or Speed Down \_\_\_\_\_

Center Distance: Minimum \_\_\_\_\_ Normal \_\_\_\_\_ Maximum \_\_\_\_\_  
 Existing Drive Components: DriveR \_\_\_\_\_ DriveN \_\_\_\_\_  
 Belts \_\_\_\_\_ Belt Manufacturer \_\_\_\_\_

#### Ambient Conditions:

Temperature \_\_\_\_\_ Moisture \_\_\_\_\_ Oil, etc. \_\_\_\_\_  
 Abrasives \_\_\_\_\_ Shock Load \_\_\_\_\_  
 Static Conductivity Required?  Yes  No

#### Maximum Sprocket Diameter (OD) and Width Limitations (for guard clearance):

DriveR: Max. OD \_\_\_\_\_ Max. Width \_\_\_\_\_ DriveN: Max. OD \_\_\_\_\_ Max Width \_\_\_\_\_  
 Guard Description \_\_\_\_\_

#### Motor Mount:

Double Screw Base?  Yes  No Motor Mounted on Sheet Metal?  Yes  No  
 Adequate Structure?  Yes  No Floating/Pivot Motor Base?  Yes  No

#### Start Up Load:

% Motor Rating at Start Up \_\_\_\_\_ AC Inverter  Yes  No Soft Start?  Yes  No

#### Duty Cycle:

Number of Starts/Stops \_\_\_\_\_ times per \_\_\_\_\_ (hour, day, week, etc.)

### Energy Savings Information

Energy Cost per KW-Hour \_\_\_\_\_  
 Hours of Operation \_\_\_\_\_ Hours per Day \_\_\_\_\_ Days per Week \_\_\_\_\_ Weeks per Year \_\_\_\_\_

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets



# SELECTION

## HT500 Design Data Worksheet

### Customer Information

Company: \_\_\_\_\_ Distributor: \_\_\_\_\_  
 Address: \_\_\_\_\_ Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 \_\_\_\_\_ E-mail: \_\_\_\_\_

### Application Summary

General Description: \_\_\_\_\_  
 Product Type: \_\_\_\_\_ Production Volume: \_\_\_\_\_

### Design Parameters

DriveR: \_\_\_\_\_  
 Motor Type & Description: \_\_\_\_\_ (Servo, Stepper, DC, AC, etc.) Reversing: \_\_\_\_\_ (Y/N)  
 Nominal Motor Torque/Power Output: \_\_\_\_\_ RPM: \_\_\_\_\_  
 Max/Peak Motor Torque/Power Output: \_\_\_\_\_ RPM: \_\_\_\_\_  
 Motor Stall Torque (If applicable): \_\_\_\_\_ Driver Rotation: \_\_\_\_\_ (CW / CCW / Rev)  
 DriveN's/Idlers: \_\_\_\_\_ (Specify appropriate units for each field; in, mm / hp, kw / lb-ft, lb-in, N-m, etc.)

| Description | X | Y | Pulley Diameter | Pitch | Sprocket Teeth | Inside/Outside | rpm | Load (driveN) | Units | Conditions |        | Shaft Diameter |
|-------------|---|---|-----------------|-------|----------------|----------------|-----|---------------|-------|------------|--------|----------------|
|             |   |   |                 |       |                |                |     |               |       | #          | % Time |                |
| DriveR      |   |   |                 |       |                |                |     |               |       |            |        |                |
|             |   |   |                 |       |                |                |     |               |       |            |        |                |
|             |   |   |                 |       |                |                |     |               |       |            |        |                |
|             |   |   |                 |       |                |                |     |               |       |            |        |                |
|             |   |   |                 |       |                |                |     |               |       |            |        |                |
|             |   |   |                 |       |                |                |     |               |       |            |        |                |
|             |   |   |                 |       |                |                |     |               |       |            |        |                |
|             |   |   |                 |       |                |                |     |               |       |            |        |                |
|             |   |   |                 |       |                |                |     |               |       |            |        |                |
|             |   |   |                 |       |                |                |     |               |       |            |        |                |
|             |   |   |                 |       |                |                |     |               |       |            |        |                |
|             |   |   |                 |       |                |                |     |               |       |            |        |                |
|             |   |   |                 |       |                |                |     |               |       |            |        |                |
|             |   |   |                 |       |                |                |     |               |       |            |        |                |
|             |   |   |                 |       |                |                |     |               |       |            |        |                |
|             |   |   |                 |       |                |                |     |               |       |            |        |                |
|             |   |   |                 |       |                |                |     |               |       |            |        |                |
|             |   |   |                 |       |                |                |     |               |       |            |        |                |
|             |   |   |                 |       |                |                |     |               |       |            |        |                |

Note: For complex drive layouts use additional pages as needed

Drive Sketch

| Idler Details                   |              |   |                 |
|---------------------------------|--------------|---|-----------------|
| Slot Movement:                  | Min Position |   | Max Position    |
|                                 | X            | Y |                 |
| Spring <input type="checkbox"/> |              |   |                 |
| Pivoting Movement:              | Pivot point  |   | Mouvement Angle |
|                                 | X            | Y |                 |
| Spring <input type="checkbox"/> |              |   |                 |
| Pivot Arm Radius:               | (in/mm):     |   |                 |

### Special Requirements

Product Design Life: \_\_\_\_\_ Belt Life: \_\_\_\_\_ Hours/Day: \_\_\_\_\_ Hours/Year: \_\_\_\_\_  
 Pulley Materials: \_\_\_\_\_  
 Prototype \_\_\_\_\_ Production \_\_\_\_\_  
 Ambient Conditions:  
 Temperature: \_\_\_\_\_ Moisture: \_\_\_\_\_ Oil: \_\_\_\_\_ Static Dissipation: \_\_\_\_\_ Abrasives: \_\_\_\_\_  
 Special Requirements: \_\_\_\_\_

Note: This worksheet may be used to survey multipoint drives. For more information on specifying shaft locations in multipoint drive layouts, see Engineering Section I-13 on page PT12-82

## HT500 Drive Selection Procedure (Continued)

1. Calculate the Design Horsepower
2. Select the Belt Pitch
3. Select the Sprockets And Belt Length
4. Select the Proper Belt Width
5. Check and Specify Stock Drive Component
6. Installation and Take-up
7. Calculate Belt Tensioning Requirements

### Step 3 Select The Sprockets and Belt Length Procedure

A. Determine the speed ratio: The speed ratio can be calculated by dividing the rpm of the faster shaft by the rpm of the slower shaft.

#### Example

Motor Speed = 1160 rpm  
Gear Pump Speed = 580 rpm

$$\text{Speed Ratio} = \frac{\text{rpm of faster shaft}}{\text{rpm of slower shaft}} = \frac{1160}{580} = 2.00$$

B. Select the sprocket combination and belt length: Referring to the Stock Drive Selection Tables on pages PT12-47 - PT12-76, find the proper set of tables for the belt pitch (8mm or 14mm) found in Step 2. Looking down the speed ratio column, find the value which most closely matches the belt drive speed ratio required. Reading across the selected speed ratio line, find the stock DriveR and DriveN sprocket combination available. Reading further across, locate the belt drive center distance which most closely matches the target center distance specified. The belt sizes are listed across the top of the table for each corresponding center distance.

Multiple sprocket combinations will often be available for a given speed ratio. In such cases, selection of the proper drive combination will depend on the center distance required, minimum or maximum required sprocket diameters and the recommended minimum sprocket diameter for electric motors (see Table 4 on page PT12-32).

After selecting possible sprocket combinations and center distances, record the belt length (top of column) and the length factor (bottom of column).

#### Example

Belt pitch = 8mm and 14mm  
Belt Drive Speed Ratio = 2.00  
Center Distance = 30.00 ± 3.00 in.

First, refer to the 8mm Pitch Stock Drive Selection Tables on pages PT12-47 - PT12-76. Reading down the Speed Ratio column locate 2.00 on page PT12-57. There are six various sprocket combinations within the allowable center distance range. Of these, two are closest to the desired 30 inches. These are 25 to 50 teeth, and 40 to 80 teeth sprocket combinations. The minimum sprocket diameter of 6.1 inches for a 30 hp motor at 1160 rpm (See Table 4 on page PT12-32) eliminates the 25 to 50 and 40 to 80 teeth sprocket combinations. Therefore, an 8mm pitch drive will not be utilized for this drive system.

Now refer to the 14mm Pitch Stock Drive Selection Tables on pages PT12-63 - PT12-76. Reading down the Speed Ratio Column locate 2.00 on page PT12-71. Several combinations are shown which will meet the 30 ± 3 inch center distance requirement. The maximum O.D. limit of 18 inches on the driveN sprocket eliminates the 56 to 112 teeth combination. The preference for a center distance close to 30 inches would favor the 40 to 80 and 28 to 56 teeth combinations. However, the 4.912 inch pitch diameter of the 28 teeth sprocket is less than the recommended minimum diameter of 6.1 inches for the electric motor. So the 40 teeth DriveR sprocket, 80 teeth DriveN sprocket, and 2380-14MX (170 teeth) belt combination is selected. Also note that the Belt Length Correction Factor is 1.01 with a center distance of 30.11 inches.

### Sample Drive Selection Problem

A gear pump is to be driven by a 30 hp normal torque electric motor with an output speed of 1160 rpm. The gear pump is to be driven at 580 rpm ±5%. The center distance is to be approximately 30 inches, but can be altered ±3 inches, if necessary. The motor shaft has a 2 1/8 inch O.D. and the pump shaft has a 3 inch O.D. The pump will operate 16 hours a day, five days a week. The pump sprocket is limited to a maximum of 18 inches O.D. There are no unusual drive conditions. Design using HT500.

### Step 1 Calculate The Design Horsepower

#### Procedure

To calculate the design horsepower, first determine the relative severity, then select a service factor for the drive. Average hours per day of service also should be considered. Locate the power source and the driveN unit in the Service Factor Table on page PT12-33. The design hp then is determined by multiplying the rated hp (usually the nameplate rating) by the service factor determined above.

#### Example

Using the Service Factor Table, the driveR can be found in the first group. Since the pump will run 16 hours per day, follow the continuous service column down to the driveN machines group for gear pumps. The recommended Service Factor is 1.7.

$$\begin{aligned} \text{Design Horsepower} &= (\text{Motor Load}) \times (\text{Service Factor}) \\ &= (30) \times (1.7) \end{aligned}$$

$$\text{Design Horsepower} = 51 \text{ hp}$$

### Step 2 Select The Belt Pitch

#### Procedure

Using the design hp and the rpm of the smaller sprocket, select the belt pitch from the Belt Pitch Selection Guide on page PT12-31.

#### Example

Design Horsepower = 51 hp  
Motor Speed = 1160 rpm

Locate 1160 rpm on the "RPM of Faster Shaft" scale on the left side of the chart and move over to where the 51 Design Horsepower line intersects. The intersection falls within the 8mm pitch range, but near the 14mm pitch area. Both 8mm and 14mm pitch drives should be considered.



## HT500 Drive Selection Procedure (Continued)

C. Check the belt speed. Do not exceed 6500 fpm (feet per minute) with stock sprockets. Belt Speed can be calculated using the following formula:

$$V \text{ (fpm)} = PD \text{ (inches)} \times \frac{\text{Speed (rpm)}}{3.82}$$

### Example

14mm Pitch Drive with 40 groove driveR:

$$V = \frac{7.018 \times 1160}{3.82} = 2131.1 \text{ fpm}$$

Calculating the belt speed for the drive system being considered shows that the belt speed does not exceed 6500 fpm and can be considered further.

### Step 4 Select The Proper Belt Width

#### Procedure

Horsepower Rating Tables are located on Pages PT12-38 - PT12-46 for standard belt pitches and stock belt widths. The base horsepower rating is given in the upper table as a function of the speed (rpm) of the faster shaft and diameter of the small sprocket. The speed of the faster shaft is located in the left hand column. Across the top are various stock sprocket sizes. The base horsepower rating of a given sprocket, at a specific speed, is the point at which the "rpm" row and the "sprocket size" column intersect.

This base horsepower rating must be corrected for speed down speed ratios, and for the belt length selected. The following formula should be used to calculate the total drive horsepower rating:

$$\text{Rated Drive Horsepower} = [\text{Rated Base Horsepower} + \text{Additional Horsepower for Speed Ratio}] \times (\text{Belt Length Correction Factor})$$

Referring to the Additional Horsepower for Speed Ratio Factor Table, select a value based upon the drive operating speed and the speed ratio. This value should be added to the base horsepower rating. Multiply the corrected rating by the applicable Belt Length Correction Factor determined in Step 3B or from the Belt Length Correction Factor Table. The drive horsepower rating must equal or exceed design horsepower.

Where there are several choices, space limitations may control the selection. In addition, the following guidelines should be considered:

1. Larger sprockets result in reduced belt width.
2. Larger sprockets yield longer drive service life.
3. Avoid drives where the belt width exceeds the smaller sprocket diameter.
4. Avoid drives where center distance is greater than 8 times the diameter of the smaller sprocket.

### Example

Refer to the 14mm pitch Horsepower Rating Table for 20mm Wide belts on page PT12-42. Read down the left hand column for "RPM of Faster Shaft" and locate 1160 rpm. Read the sprocket sizes listed across the top of the table and locate the 40 teeth, 5.614 inch P.D. column. Read across the "RPM" row and down the sprocket size column until the two intersect at a **Rated Base Horsepower of 60.0 hp**.

Next, referencing the Additional Horsepower for Speed Ratio Factor Table, find the listing for a 2.00 speed ratio. An **add-on factor of 3.53 hp** is listed. Then, referencing the Belt Length Correction Factor Table, find the listing for a 2380-14MX belt. A **correction factor of 1.01** is listed.

Calculate the Corrected Horsepower Rating:  
 Rated Drive Horsepower =  
 [Rated Base Horsepower + Added HP for Speed Ratio] x  
 (Belt Length Correction Factor) = [60.0 hp + 3.53 hp] x (1.01)

**Rated Drive Horsepower = 64.17 hp**

The Drive Horsepower Rating of 64.17 hp exceeds the Design Horsepower target of 51 hp. So, a belt width of 20mm is acceptable.

### Step 5 Check and Specify Stock Drive Components

#### Procedure

A. Check the sprockets selected in Steps 3 and 4 against the design requirements using the dimensions provided in the Sprocket Specification Tables on pages PT12-6 - PT12-13. Use flange diameters when checking against maximum diameter requirements.

#### Example

From the table on page PT12-9, we find the 14MX-80S-20 driveN Sprocket has an overall flange diameter of 14.620 inches, which is less than the 18 inch maximum diameter specified.

B. Determine the bushing size required for each sprocket and check bore sizes by using the Sprocket Specification Tables. From the Stock Bushing tables on pages PT12-80 - PT12-85, check the bore range and keyway dimensions against the design requirements.

#### Example

Also from the sprocket data on page PT12-9 we note that the 14MX-40S-20 sprocket requires a 2517 bushing and the 14MX-80S-20 sprocket requires a 3525 bushing. In the bushing table on pages PT12-81 - PT12-83, a 2517 bushing has a bore range of 1/2 to 2-11/16 inches, which includes the 2-1/8 inch bore required for the driveR shaft. The 3525 bushing has a bore range from 1-3/16 to 3-15/16 inches, which includes the 3 inch bore required for the driveN shaft.

C. Specify stock drive components using proper designations.

#### Example

Stock drive components are as follows:  
 1 ea. 2380-14MX-20 HT500 belt  
 1 ea. 14MX-40S-20 driveR sprocket  
 1 ea. 2517 Bushing with a 2-1/8 in. bore  
 1 ea. 14MX-80S-20 driveN sprocket  
 1 ea. 3525 Bushing with a 3 in. bore

## HT500 Drive Selection Procedure (Continued)

### Step 6 Installation and Takeup

#### Procedure

Because of its high resistance to elongation (stretch), there is no need to re-tension and take up a HT500 belt drive. However, some adjustment must be provided when installing synchronous belt drives, as with nearly all power transmission systems, to account for manufacturing and assembly tolerances and initial tensioning requirements. Table 11 on page PT12-36 lists the standard installation and take-up requirements for a given belt length. Additional center distance adjustment is needed when installing the belt over flanged sprockets (see Table 11 on page PT12-36.)

#### Example

As can be seen in the Sprocket Specifications Table on page PT12-9, both of the sprockets are flanged. Therefore, an additional allowance will be needed for installation over flanged sprockets. The total installation and tensioning allowances, are shown below.

Installation Allowance = 0.13 in. + 1.97 in. = 2.10 in

Tensioning Allowance = 0.04 in.

Subtracting this from the nominal center distance value gives a minimum center distance necessary for belt installation of (30.11 inch - 2.10 inch) = 28.10 inches. From the problem statement, the center distance can be reduced down to 27.0 in. if necessary. So, there is sufficient center distance adjustment to easily install the belt.

### Step 7 Calculate Belt Tensioning Requirements

#### Procedure

A. Calculate base static tension using appropriate Formula 14 on page PT12-34. The m value is listed in Table 10 on page PT12-34.

#### Example

Belt Pitch = 14mm  
 Belt Size = 2380-14MX, 170 teeth (93.70 in. P.L.)  
 Belt Width = 20mm  
 DriveR Sprocket = 40 teeth (7.018 in. P.D.)  
 DriveR Shaft Speed = 1160 rpm  
 DriveN Sprocket = 80 teeth (14.036 in. P.D.)  
 Actual Center Distance = 30.11 in.  
 Design Horsepower = 51 hp

$$TST = \frac{20 \text{ HP}}{S} + mS2, \text{ pounds}$$

Where:

HP = Horsepower = 30 hp  
 m = 0.92, constant for 14mm pitch, 20mm wide belt from Table 10 on page PT12-34  
 $S = (\text{Sprocket Diameter}) \times (\text{Shaft Speed}) / 3822.76$   
 $= (7.018 \text{ in.}) \times (1160 \text{ rpm}) / 3822.76$   
 $S = 2.13$

$$TST = \frac{20(30)}{2.13} + (0.92)(2.13)^2$$

$$TST = 281.69 + 4.17 \text{ lb.}$$

$$TST = 285.86 \text{ lb.}$$

B. Calculate minimum and maximum deflection forces using Formulas 15 and 16 on page PT12-35. The Y value is listed in Table 10.

#### Example

a. Calculate the belt span length

$$t = \sqrt{C^2 - \left(\frac{D-d}{2}\right)^2}$$

where:

t = Span Length, inches

C = Center Distance = 30.11 in.

D = diameter of larger sprocket = 14.036 in. P.D.

d = diameter of smaller sprocket = 7.018 in. P.D.

$$t = \sqrt{30.11^2 - \left(\frac{14.036 - 7.018}{2}\right)^2}$$

b. Calculate Minimum and Maximum belt deflection forces referring to Formulas 15 and 16 on page PT12-35:

$$\text{Min Deflection Force} = \frac{1.1st + \left(\frac{t}{L}\right)Y}{16}$$

16

where:

TST = 285.86 pounds static tension as calculated before

t = 29.90 inches span length as calculated before

L = 93.70 inches belt length

Y = 230 (constant for Table 10 on page PT12-34)

$$\text{Min Deflection Force} = \frac{1.1(285.86) + \left(\frac{29.90}{93.70}\right)(230)}{16}$$

Min. Deflection Force = 24.24 lb.

$$\text{Max Deflection Force} = \frac{1.2Tst + \left(\frac{t}{L}\right)Y}{16}$$

$$\text{Max Deflection Force} = \frac{1.2(685.86) + \left(\frac{29.90}{93.70}\right)(230)}{16}$$

Max. Deflection Force = 26.03 lb.



## HT500 Drive Selection Procedure (Continued)

### Step 7 Calculate Belt Tensioning Requirements

#### Procedure - continued

C. Determine the deflection distance using 1/64" per inch of span length.

**NOTE:** Deflection forces must be applied evenly across the entire belt width.

#### Example

$$\text{Deflection Distance} = \frac{t}{64}, \text{ inches}$$

$$\text{Deflection Distance} = \frac{29.9}{64}$$

### D. Applying The Tension:

At the center of span (t), apply a measured force perpendicular to the belt span large enough to deflect the belt 0.47 inch from its normal free position. Be sure that the force is applied evenly across the entire belt width. Note that one sprocket should be free to rotate during the belt tensioning process.

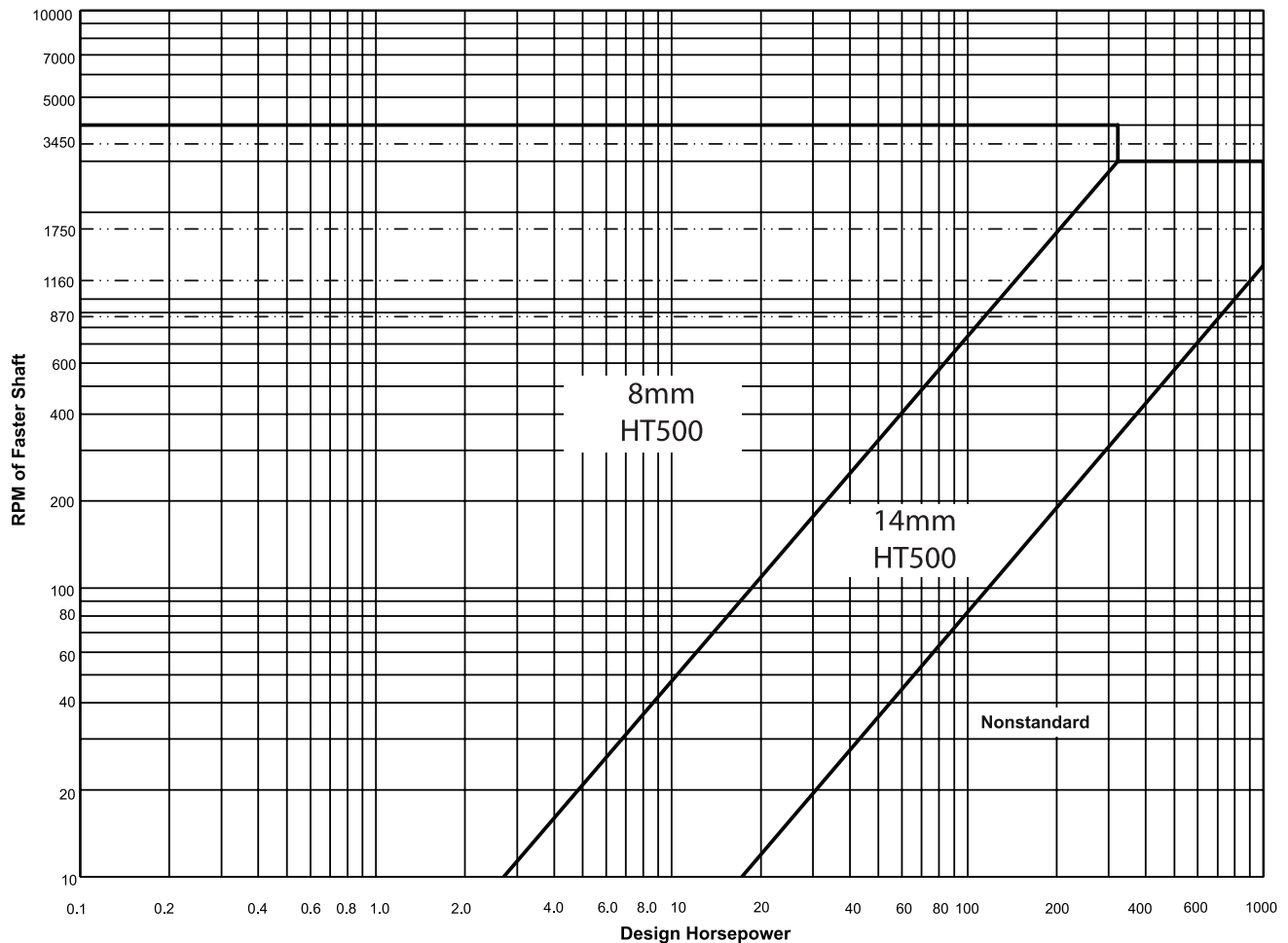
Compare the measured deflection force with the range of minimum to maximum deflection forces calculated before.

1. If the measured deflection force is less than the minimum recommended deflection force, the belt should be tightened.
2. If the measured deflection force is greater than the maximum recommended deflection force, the belt should be loosened.

#### Example

When the Gear Pump belt drive is properly tensioned, a belt span deflection of 0.47 in. should require a deflection force within the range of 22.34 to 24.12 lb.

Belt Pitch Selection Guide





## Table 4 Minimum Recommended Sprocket Pitch Diameters for General Purpose Electric Motors Synchronous Belt Drives

For a given motor horsepower and speed, the total belt pull is related to the motor sprocket size. As this size decreases, the total belt pull increases. Therefore, to limit the resultant load on motor shaft and bearings, NEMA lists minimum sprocket sizes for the various motors. The sprocket on the motor (DriveR sheave) should be at least as large as the diameter specified in Table No. 4.

| Motor Horsepower | Motor RPM (60 Cycle and 50 Cycle Electric Motors) |             |             |              |               |               | Motor Horsepower |
|------------------|---|-------------|-------------|--------------|---------------|---------------|------------------|
|                  | 575<br>485*                                       | 690<br>575* | 870<br>725* | 1160<br>950* | 1750<br>1425* | 3450<br>2850* |                  |
| 1/2              | —   | —           | 2.0         | —            | —             | —             | 1/2              |
| 3/4              | —   | —           | 2.2         | 2.0          | —             | —             | 3/4              |
| 1                | 2.7   | 2.3         | 2.2         | 2.2          | 2.0           | —             | 1                |
| 1-1/2            | 2.7   | 2.7         | 2.2         | 2.2          | 2.2           | 2.0           | 1-1/2            |
| 2                | 3.4   | 2.7         | 2.7         | 2.2          | 2.2           | 2.2           | 2                |
| 3                | 4.1   | 3.4         | 2.7         | 2.7          | 2.2           | 2.2           | 3                |
| 5                | 4.1   | 4.1         | 3.4         | 2.7          | 2.7           | 2.2           | 5                |
| 7-1/2            | 4.7   | 4.1         | 4.0         | 3.4          | 2.7           | 2.7           | 7-1/2            |
| 10               | 5.4   | 4.7         | 4.0         | 4.0          | 3.4           | 2.7           | 10               |
| 15               | 6.1   | 5.4         | 4.7         | 4.0          | 4.0           | 4.0           | 15               |
| 20               | 7.4   | 6.1         | 5.4         | 4.7          | 4.0           | 2.2           | 20               |
| 25               | 8.1   | 7.4         | 6.1         | 5.4          | 4.0           | 4.0           | 25               |
| 30               | 9.0   | 8.1         | 6.1         | 6.1          | 4.7           | —             | 30               |
| 40               | 9.0   | 9.0         | 7.4         | 6.1          | 5.4           | —             | 40               |
| 50               | 9.9   | 9.0         | 7.6         | 7.4          | 6.1           | —             | 50               |
| 60               | 10.8  | 9.9         | 9.0         | 7.2          | 6.7           | —             | 60               |
| 75               | 12.6  | 11.7        | 8.6         | 9.0          | 7.7           | —             | 75               |
| 100              | 16.2  | 13.5        | 10.8        | 9.0          | 7.7           | —             | 100              |
| 125              | 18.0  | 16.2        | 13.5        | 10.8         | 9.5#          | —             | 125              |
| 150              | 19.8  | 18.0        | 16.2        | 11.7         | 9.5           | —             | 150              |
| 200              | 19.8  | 19.8        | 19.8        | —            | 11.9          | —             | 200              |
| 250              | 19.8  | 19.8        | —           | —            | —             | —             | 250              |
| 300              | 24.3  | 24.3        | —           | —            | —             | —             | 300              |

\* These RPM are for 50 cycle electric motors.

# Use 8.6 for Frame Number 444 T only.

Data in the white area of Table No. 4 are from NEMA Standard MG-1-14-42, June, 1972. Data in the gray area are from MG-1-14-43, January, 1968. The blue area is a composite of electric motor manufacturers data. They are generally conservative, and specific motors and bearings may permit the use of a smaller motor sprocket. Consult the motor manufacturer.

# SELECTION



| DriveN Machine  | DriveR   |                   |                                 |   |                   |                    |
|---|--|-------------------|---------------------------------|---|-------------------|--------------------|
| <p>The driveN machines listed below are representative samples only. Select a driveN machine whose load characteristics most closely approximate those of the machine being considered.</p>   | AC Motors: Normal Torque, Squirrel Cage, Synchronous, Split Phase, Inverter Controlled |                   |                                 | AC Motors: High Torque, High Slip, Repulsion-Induction, Single Phase, Series, Wound, Slip Ring. |                   |                    |
|   | DC Motors: Shunt Wound, Stepper Motors   |                   |                                 | DC Motors: Series Wound, Compound, Wound, Servo Motors.   |                   |                    |
|   | Engines: Multiple Cylinder Internal Combustion.  |                   |                                 | Engines: Single Cylinder Internal, Combustion. Line shafts Clutches                             |                   |                    |
|   | Intermittent Service   | Normal Service    | Continuous Service              | Intermittent Service  | Normal Service    | Continuous Service |
| Up to 8 Hours Daily or Seasonal   | 8-16 Hours Daily   | 16-24 Hours Daily | Up to 8 Hours Daily or Seasonal | 8-16 Hours Daily  | 16-24 Hours Daily |                    |
| Display, Dispensing Equipment<br>Instrumentation<br>Measuring Equipment<br>Medical Equipment<br>Office, Projection Equipment  | 1.0  | 1.2               | 1.4                             | 1.2   | 1.4               | 1.6                |
| Appliances, Sweepers, Sewing Machines<br>Screens, Oven Screens, Drum, Conical<br>Woodworking Equipment: (Light)<br>Band Saws, Drills, Lathes  | 1.1  | 1.3               | 1.5                             | 1.3   | 1.5               | 1.7                |
| Agitators for Liquids<br>Conveyors: Belt, Light Package<br>Drill Press, Lathes, Saws<br>Laundry Machinery<br>Woodworking Equipment: (Heavy)<br>Circular Saws, Joiners, Planers  | 1.2  | 1.4               | 1.6                             | 1.6   | 1.8               | 2.0                |
| Agitators: Semi-liquid<br>Compressors: Centrifugal<br>Conveyor Belt: Coal, Ore, Sand<br>Dough Mixers<br>Line Shafts<br>Machine Tools: Grinder, Shaper<br>Boring Mill, Milling Machines<br>Paper Machinery (except Pulpers)<br>Presses, Punches, Shears<br>Printing Machinery<br>Pumps: Centrifugal, Gear<br>Screens: Revolving, Vibratory | 1.3  | 1.5               | 1.7                             | 1.6   | 1.8               | 2.0                |
| Brick Machinery (except Pug Mills)<br>Conveyor: Apron, Pan, Bucket, Elevator<br>Extractors, Washers<br>Fans, Centrifugal Blowers<br>Generators & Exciters<br>Hoists<br>Rubber Calendar, Mills, Extruders  | 1.4  | 1.6               | 1.8                             | 1.8   | 2.0               | 2.2                |
| Centrifuges<br>Screw Conveyors<br>Hammer Mills<br>Paper Pulpers<br>Textile Machinery  | 1.5  | 1.7               | 1.9                             | 1.9   | 2.1               | 2.3                |
| Blowers: Positive Displacement<br>Mine Fans<br>Pulverizers  | 1.6  | 1.8               | 2.0                             | 2.0   | 2.2               | 2.4                |
| Compressors, Reciprocating<br>Crushers: Gyratory, Jaw, Roll<br>Mills: Ball, Rod, Pebble, etc.<br>Pumps, Reciprocating<br>Saw Mill Equipment   | 1.7  | 1.9               | 2.1                             | 2.1   | 2.3               | 2.5                |

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets

# SELECTION

These tolerances are for reference only. For fixed center drive applications and special tolerances, contact Baldor•Dodge Power Transmission Product Application.

### Stock Belt Center Distance Tolerances

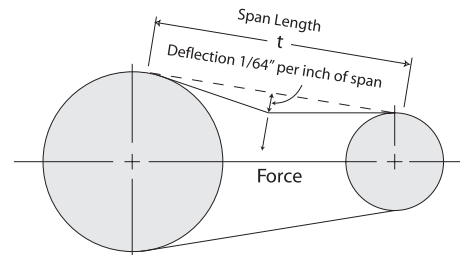
| Belt Length             | (mm)<br>(In)          | Center Distance<br>Tolerance          | (mm)<br>(In)     |
|-------------------------|-----------------------|---------------------------------------|------------------|
| over 127<br><b>5</b>    | to 254<br><b>10</b>   | ± 0.20<br><b>.008</b>                 |                  |
| over 254<br><b>10</b>   | to 381<br><b>15</b>   | ± 0.23<br><b>.009</b>                 |                  |
| over 381<br><b>15</b>   | to 508<br><b>20</b>   | ± 0.25<br><b>.010</b>                 |                  |
| over 508<br><b>20</b>   | to 762<br><b>30</b>   | ± 0.30<br><b>.012</b>                 |                  |
| over 762<br><b>30</b>   | to 1016<br><b>40</b>  | ± 0.33<br><b>.013</b>                 |                  |
| over 1016<br><b>40</b>  | to 1270<br><b>50</b>  | ± 0.38<br><b>.015</b>                 |                  |
| over 1270<br><b>50</b>  | to 1524<br><b>60</b>  | ± 0.41<br><b>.016</b>                 |                  |
| over 1524<br><b>60</b>  | to 1778<br><b>70</b>  | ± 0.43<br><b>.017</b>                 |                  |
| over 1778<br><b>70</b>  | to 2032<br><b>80</b>  | ± 0.46<br><b>.018</b>                 |                  |
| over 2032<br><b>80</b>  | to 2286<br><b>90</b>  | ± 0.49<br><b>.019</b>                 |                  |
| over 2286<br><b>90</b>  | to 2540<br><b>100</b> | ± 0.52<br><b>.020</b>                 |                  |
| over 2540<br><b>100</b> | to 2794<br><b>110</b> | ± 0.54<br><b>.021</b>                 |                  |
| over 2794<br><b>110</b> | to 3048<br><b>120</b> | ± 0.56<br><b>.022</b>                 |                  |
| over 3048<br><b>120</b> | to 3302<br><b>130</b> | ± 0.58<br><b>.023</b>                 |                  |
| over 3302<br><b>130</b> | to 3556<br><b>140</b> | ± 0.60<br><b>.024</b>                 |                  |
| over 3556<br><b>140</b> | to 3810<br><b>150</b> | ± 0.63<br><b>.025</b>                 |                  |
| over 3810<br><b>150</b> | to 4064<br><b>160</b> | ± 0.66<br><b>.026</b>                 |                  |
| over 4064<br><b>160</b> | to 4318<br><b>170</b> | ± 0.69<br><b>.027</b>                 |                  |
| over 4318<br><b>170</b> | to 4572<br><b>180</b> | ± 0.72<br><b>.028</b>                 |                  |
| over 4572<br><b>180</b> |                       | add ± .03<br>every .254<br><b>.10</b> | for<br>increment |

## Standard Belt Tensioning Procedure

When installing a belt:

- Be sure it is tensioned adequately to prevent tooth jumping (ratcheting) under the most severe load conditions which the drive will encounter during operation.
- Avoid extremely high tension which can reduce belt life and possibly damage bearings, shafts and other drive components.

The proper way to check belt tension is to use a tension tester. Baldor has a variety of tension testers, ranging from the simple spring scale type tester to the sophisticated Sonic Tension Meter. The spring scale type tester is used by measuring how much force is required to deflect the belt at the center of his span by a specified distance (force deflection method), as shown in the sketch below.



The Sonic Tension Meter measures the vibration of the belt span and instantly converts the vibration frequency into belt static tension (span vibration method).

When you wish to use a numerical method for calculating recommended belt installation tension values, the following procedure may be used.

STEP 1: Calculate the required base static installation tension.

Use Formula 14 to calculate the required base static installation tension.

#### Formula 14

$$T_{si} = \frac{20HP}{S} + mS^2$$

Where  $T_{si}$  = base static installation tension, pounds  
 HP = Horsepower  
 $S = \frac{PD \times RPM}{3820}$   
 m = Value from table 10  
 PD = Sprocket Pitch Diameter, inches  
 RPM = Revolutions per minute of same sprocket

Table 10

| Pitch | Belt Width | m    | Y    | minimum $T_{si}$ (lb)<br>per span |
|-------|------------|------|------|-----------------------------------|
| 8mm   | 12mm       | 0.33 | 65   | 28                                |
|       | 21mm       | 0.57 | 113  | 49                                |
|       | 36mm       | 0.97 | 194  | 84                                |
|       | 62mm       | 1.68 | 335  | 145                               |
| 14mm  | 20mm       | 0.92 | 230  | 119                               |
|       | 37mm       | 1.69 | 426  | 220                               |
|       | 68mm       | 3.11 | 782  | 405                               |
|       | 90mm       | 4.12 | 1035 | 536                               |
|       | 125mm      | 5.72 | 1438 | 744                               |

# SELECTION



Because of the high performance capabilities of HT500 belts, it is possible to design drives that have significantly greater load than are necessary to carry the actual design load. Consequently, Formula 14 can provide  $T_{st}$  values less than are necessary for the belt to operate properly, resulting in poor belt performance and reduced service life. If a more appropriately sized drive cannot be designed, minimum recommended  $T_{st}$  values are provided in Table 10 to assure that the belts function properly when lightly loaded.

Always use the greater  $T_{st}$  value; i.e., from  $T_{st}$  Formula 14 or Table 10.

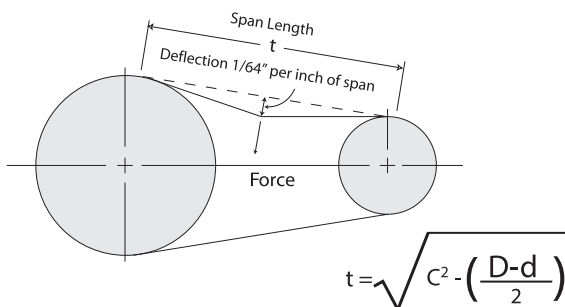
**NOTE:** When applying static belt tension values directly, multiply the required base static installation tension ( $T_{st}$ ) calculated in Formula 14 by the following factors:

For New Belts:

$$\begin{aligned} \text{Minimum Static Tension} &= \text{Base Static Tension} \times 1.1 \\ \text{Maximum Static Tension} &= \text{Base Static Tension} \times 1.2 \end{aligned}$$

For Used Belts:

$$\begin{aligned} \text{Minimum Static Tension} &= \text{Base Static Tension} \times 0.8 \\ \text{Maximum Static Tension} &= \text{Base Static Tension} \times 0.9 \end{aligned}$$



## STEP 2: Calculate the minimum and maximum recommended deflection forces.

- Measure the span length of your drive (see sketch).
- New belt minimum recommended force:

### Formula 15

$$\text{deflection force, Min} = \frac{1.1 T_{st} + \left(\frac{t}{L}\right) Y}{16}, \text{lb}$$

### Formula 16

$$\text{deflection force, Max} = \frac{1.2 T_{st} + \left(\frac{t}{L}\right) Y}{16}, \text{lb}$$

Where:

- $T_{st}$  = Base Static tension, lbf
- $t$  = span length, inches
- $L$  = belt pitch length, inches
- $Y$  = constant from Table 10

**USED BELT NOTE:** For re-installation of a used belt, a recommended tension of  $0.8 T_{st}$  to  $0.9 T_{st}$  value should be used in calculating the deflection forces, instead of the  $1.1 T_{st}$  to  $1.2 T_{st}$  shown for new belts.

## STEP 3: Applying the tension

### Force deflection tension method

**A.** At the center of the span ( $t$ ) apply a force perpendicular to the span large enough to deflect the belt on the drive  $1/64$  inch per inch of span length from its normal position. One sprocket should be free to rotate. Be sure the force is applied evenly across the entire belt width. If the belt is a wide synchronous belt, place a piece of steel or angle iron across the belt width and deflect the entire width of the belt evenly.

**B.** Compare this deflection force with the range of forces calculated in Step 2.

- If it is less than the minimum recommended deflection force, the belt should be tightened.
- If it is greater than the maximum recommended deflection force, the belt should be loosened.

### Span vibration tension method

The Sonic Tension Meter detects the vibration frequency in the belt span, and converts that measurement into the actual static tension in the belt.

To use the Sonic Tension Meter, begin by entering the belt unit weight, belt width, and the span length. To measure the span vibration, press the "Measure" button on the meter, tap the belt span, and hold the microphone approximately  $1/4$ " away from the back of the belt. The Sonic Tension Meter will display the static tension, and can also display the span vibration frequency.

The belt unit weights for use with the Sonic Tension Meter are shown in the following table.

| Belt Product Family | Belt Cross section | Adjusted Belt Weight (grams/meter) |
|---------------------|--------------------|------------------------------------|
| HT500 Belt          | 8mm                | 4.7                                |
|                     | 14mm               | 7.9                                |

### Rim Speed Limits per MPTA Standard

| Product Material   | Maximum allowable RIM speed in FPM |             |
|--------------------|------------------------------------|-------------|
|                    | Web / Arm Style                    | Block Style |
| Class 30 Gray Iron | 6500                               | 7500        |
| Ductile Iron 65    | 8000                               | 10000       |
| Ductile Iron 80    | 10000                              | 13000       |
| Steel (1018)       | 9000                               | 11000       |

$$(\text{FPM} = .626 \times \text{Dia. (inches)} \times \text{RPM})$$

**NOTE:** Above rim speed values are maximum for normal considerations. In some cases these values may be exceeded. Consult factory and include complete details of proposed application.

$$\text{Dynamic balance RPM} = \frac{15600}{\sqrt{\text{Dia} \times \text{Face Width}}}$$

for Sheave/Sprocket  $\diamond$

$\diamond$  Note: MPTA recommends Dynamic balance when application RPM exceeds this value

# SELECTION

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets

## Center Distance Allowances for Installation and Tensioning

Since fixed center drives are not recommended, center distance allowances for a HT500 belt drive are necessary to assure that the belt can be installed without damage and then tensioned correctly. The standard installation allowance is the minimum decrease in center distance required to install a belt when flanged sprockets are removed from their shafts for belt installation. This is shown in the first column of Table 11. This table also lists the minimum increase in center distance required to assure that the belt can be properly tensioned over its normal life time. If a belt is to be installed over flanged sprockets without removing them, the additional center distance allowance for installation shown in the second table below must be added to the first table data.

**Table 11**

Center Distance Allowance For Installation and Tensioning

| Belt Length (mm) (In)                         | Standard Installation Allowance (Flanged Sprocket removed for installation) (mm) (In) | Tension Allowance (mm) (In) |
|---|---|-----------------------------|
| up to 125<br><b>5</b>                         | 0.5<br><b>0.02</b>  | 0.5<br><b>0.02</b>          |
| over 125 to 250<br><b>5</b> to <b>10</b>      | 0.8<br><b>0.03</b>  | 0.8<br><b>0.03</b>          |
| over 250 to 500<br><b>10</b> to <b>20</b>     | 1.0<br><b>0.04</b>  | 0.8<br><b>0.03</b>          |
| over 500 to 1000<br><b>20</b> to <b>40</b>    | 1.8<br><b>0.07</b>  | 0.8<br><b>0.03</b>          |
| over 1000 to 1780<br><b>40</b> to <b>70</b>   | 2.8<br><b>0.10</b>  | 0.8<br><b>0.04</b>          |
| over 1780 to 2540<br><b>70</b> to <b>100</b>  | 3.3<br><b>0.13</b>  | 1.0<br><b>0.04</b>          |
| over 2540 to 3300<br><b>100</b> to <b>130</b> | 4.1<br><b>0.16</b>  | 1.3<br><b>0.05</b>          |
| over 3300 to 4600<br><b>130</b> to <b>180</b> | 4.8<br><b>0.19</b>  | 1.3<br><b>0.05</b>          |
| over 4600 to 6900<br><b>60</b> to <b>70</b>   | 5.6<br><b>0.22</b>  | 1.3<br><b>0.05</b>          |

Additional Center Distance Allowance For Installation Over Flanged Sprockets\*  
(Add to Installation Allowance in table No 11)

| Pitch | One Sprocket Flanged (mm) (In) | Both Sprockets Flanged (mm) (In) |
|-------|--------------------------------|----------------------------------|
| 8mm   | 21.8<br><b>0.86</b>            | 33.3<br><b>1.31</b>              |
| 14mm  | 31.2<br><b>1.23</b>            | 50.0<br><b>1.97</b>              |

\*For drives that require installation of the belt over one sprocket at a time, use the value for "Both Sprockets Flanged"

## Drive alignment

Provision should be made for center distance adjustment, according to the two tables on this page, or to change the idler position so the belt can be slipped easily onto the drive. When installing a belt, never force it over the flange. This will cause internal damage to the belt tensile member.

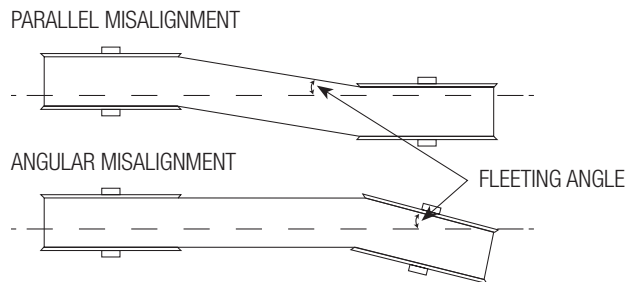
Synchronous belts typically are made with high modulus tensile members which provide length stability over the belt life. Consequently, misalignment does not allow equal load distribution across the entire belt top width. In a misaligned drive, the load is being carried by only a small portion of the belt top width, resulting in uneven belt wear and premature tensile failure.

There are two types of misalignment: parallel and angular (See Fig.7). Parallel misalignment is where the driveR and driveN shafts are parallel, but the two sprockets lie in different planes. When the two shafts are not parallel, the drive is angularly misaligned.

A fleeting angle is the angle at which the belt enters and exits the sprocket, and equals the sum of the parallel and angular misalignments.

Any degree of sprocket misalignment will result in some reduction of belt life, which is not accounted for in the normal drive design procedure. Misalignment of all synchronous belt drives should not exceed 1/4" or 1/16" per foot of linear distance. Misalignment should be checked with a good straight edge or by using a laser alignment tool. The straight edge tool should be applied from driveR to driveN, and then from driveN to driveR so that the total effect of parallel and angular misalignment is made visible.

**Figure 7**



Drive misalignment can also cause belt tracking problems. However, light flange contact by the belt is normal and won't affect performance.

For those drives in which the center distance is greater than eight times the small sprocket diameter, belt tracking can be a problem. In these cases, the parallel position of the two sprockets may need to be adjusted until only one flange guides the belt in the system and the belt tracks fully on all sprockets. Regardless of the drive center distance, the optimum drive performance will occur with the belt lightly contacting one flange in the system. The worst case is for the belt to contact flanges on opposite sides of the system. This traps the belt between opposite flanges and can force the belt into undesirable parallel misalignment.



V-Drives

FHP Drives

Drive Component  
Accessories

DYNA-SYNC

HT200/HTD  
Synchronous Drives

HT500  
Synchronous Drives

Roller Chain Sprockets





# SELECTION

## HT500 Basic HP Ratings - 8mm

| RPM<br>Small Shaft | Rated Horsepower for Small Sprocket<br>(Number of Teeth and Pitch Diameter, Inches) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|--------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                    | 22  | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    | 32    | 33    | 34    | 35    | 36    | 37    | 38    | 39    | 40    | 41    | 42    | 44    | 45    | 48    | 50    |
| 10                 | 0.15  | 0.17  | 0.18  | 0.19  | 0.20  | 0.21  | 0.22  | 0.22  | 0.23  | 0.24  | 0.25  | 0.26  | 0.27  | 0.28  | 0.29  | 0.29  | 0.30  | 0.31  | 0.32  | 0.33  | 0.35  | 0.36  | 0.38  | 0.40  |
| 20                 | 0.23  | 0.26  | 0.27  | 0.29  | 0.30  | 0.32  | 0.33  | 0.35  | 0.36  | 0.38  | 0.39  | 0.41  | 0.42  | 0.44  | 0.45  | 0.47  | 0.48  | 0.50  | 0.51  | 0.53  | 0.55  | 0.57  | 0.61  | 0.64  |
| 40                 | 0.39  | 0.44  | 0.47  | 0.49  | 0.52  | 0.54  | 0.57  | 0.59  | 0.62  | 0.64  | 0.67  | 0.69  | 0.72  | 0.74  | 0.77  | 0.79  | 0.82  | 0.84  | 0.87  | 0.89  | 0.94  | 0.97  | 1.04  | 1.09  |
| 50                 | 0.46  | 0.52  | 0.55  | 0.58  | 0.61  | 0.64  | 0.67  | 0.70  | 0.73  | 0.76  | 0.79  | 0.82  | 0.85  | 0.88  | 0.91  | 0.94  | 0.97  | 1.00  | 1.03  | 1.06  | 1.12  | 1.15  | 1.24  | 1.30  |
| 60                 | 0.53  | 0.60  | 0.64  | 0.67  | 0.71  | 0.74  | 0.78  | 0.81  | 0.85  | 0.88  | 0.92  | 0.96  | 1.00  | 1.03  | 1.07  | 1.10  | 1.14  | 1.17  | 1.21  | 1.24  | 1.31  | 1.34  | 1.44  | 1.51  |
| 100                | 0.80  | 0.91  | 0.96  | 1.02  | 1.07  | 1.13  | 1.18  | 1.24  | 1.29  | 1.35  | 1.40  | 1.46  | 1.51  | 1.57  | 1.62  | 1.68  | 1.73  | 1.79  | 1.85  | 1.90  | 2.01  | 2.07  | 2.23  | 2.34  |
| 200                | 1.42  | 1.63  | 1.74  | 1.84  | 1.95  | 2.05  | 2.16  | 2.26  | 2.36  | 2.46  | 2.57  | 2.67  | 2.77  | 2.87  | 2.97  | 3.07  | 3.18  | 3.28  | 3.38  | 3.48  | 3.68  | 3.78  | 4.08  | 4.28  |
| 300                | 2.02  | 2.32  | 2.46  | 2.62  | 2.77  | 2.92  | 3.07  | 3.22  | 3.36  | 3.51  | 3.66  | 3.81  | 3.96  | 4.11  | 4.25  | 4.40  | 4.54  | 4.69  | 4.84  | 4.99  | 5.28  | 5.43  | 5.86  | 6.15  |
| 400                | 2.58  | 2.98  | 3.18  | 3.37  | 3.57  | 3.76  | 3.96  | 4.15  | 4.34  | 4.53  | 4.73  | 4.92  | 5.11  | 5.30  | 5.50  | 5.69  | 5.88  | 6.07  | 6.26  | 6.45  | 6.83  | 7.02  | 7.59  | 7.97  |
| 500                | 3.13  | 3.62  | 3.85  | 4.10  | 4.33  | 4.58  | 4.81  | 5.06  | 5.29  | 5.53  | 5.76  | 6.00  | 6.24  | 6.48  | 6.71  | 6.95  | 7.18  | 7.41  | 7.65  | 7.88  | 8.35  | 8.58  | 9.27  | 9.74  |
| 600                | 3.67  | 4.24  | 4.53  | 4.81  | 5.10  | 5.38  | 5.66  | 5.94  | 6.23  | 6.51  | 6.79  | 7.07  | 7.35  | 7.62  | 7.90  | 8.18  | 8.46  | 8.73  | 9.01  | 9.29  | 9.84  | 10.11 | 10.93 | 11.48 |
| 700                | 4.20  | 4.86  | 5.17  | 5.51  | 5.83  | 6.17  | 6.49  | 6.82  | 7.14  | 7.47  | 7.78  | 8.11  | 8.43  | 8.75  | 9.07  | 9.39  | 9.71  | 10.03 | 10.35 | 10.67 | 11.30 | 11.62 | 12.57 | 13.20 |
| 800                | 4.71  | 5.46  | 5.83  | 6.20  | 6.57  | 6.94  | 7.31  | 7.68  | 8.05  | 8.41  | 8.78  | 9.14  | 9.51  | 9.87  | 10.23 | 10.59 | 10.95 | 11.31 | 11.67 | 12.03 | 12.75 | 13.11 | 14.18 | 14.89 |
| 870                | 5.07  | 5.88  | 6.27  | 6.68  | 7.07  | 7.48  | 7.86  | 8.27  | 8.66  | 9.07  | 9.45  | 9.85  | 10.24 | 10.64 | 11.03 | 11.42 | 11.81 | 12.20 | 12.59 | 12.98 | 13.75 | 14.14 | 15.30 | 16.08 |
| 1000               | 5.72  | 6.64  | 7.10  | 7.55  | 8.01  | 8.46  | 8.92  | 9.37  | 9.82  | 10.27 | 10.72 | 11.16 | 11.61 | 12.06 | 12.51 | 12.95 | 13.39 | 13.83 | 14.27 | 14.72 | 15.60 | 16.04 | 17.35 | 18.22 |
| 1160               | 6.51  | 7.56  | 8.07  | 8.61  | 9.11  | 9.65  | 10.16 | 10.69 | 11.19 | 11.72 | 12.23 | 12.75 | 13.26 | 13.78 | 14.29 | 14.80 | 15.30 | 15.81 | 16.32 | 16.82 | 17.83 | 18.34 | 19.84 | 20.85 |
| 1200               | 6.70  | 7.79  | 8.33  | 8.87  | 9.41  | 9.95  | 10.49 | 11.02 | 11.55 | 12.08 | 12.61 | 13.14 | 13.67 | 14.20 | 14.73 | 15.25 | 15.78 | 16.30 | 16.82 | 17.35 | 18.39 | 18.91 | 20.46 | 21.49 |
| 1400               | 7.66  | 8.92  | 9.52  | 10.16 | 10.76 | 11.40 | 12.00 | 12.64 | 13.24 | 13.87 | 14.47 | 15.09 | 15.69 | 16.31 | 16.91 | 17.52 | 18.12 | 18.73 | 19.33 | 19.93 | 21.13 | 21.73 | 23.51 | 24.71 |
| 1600               | 8.60  | 10.02 | 10.73 | 11.43 | 12.14 | 12.84 | 13.54 | 14.23 | 14.93 | 15.62 | 16.31 | 17.00 | 17.69 | 18.38 | 19.07 | 19.75 | 20.43 | 21.11 | 21.79 | 22.47 | 23.83 | 24.50 | 26.52 | 27.86 |
| 1750               | 9.30  | 10.84 | 11.58 | 12.37 | 13.11 | 13.89 | 14.63 | 15.41 | 16.15 | 16.92 | 17.66 | 18.42 | 19.16 | 19.91 | 20.65 | 21.40 | 22.14 | 22.88 | 23.62 | 24.36 | 25.83 | 26.57 | 28.75 | 30.21 |
| 2000               | 10.44   | 12.18 | 13.05 | 13.91 | 14.77 | 15.63 | 16.49 | 17.35 | 18.20 | 19.05 | 19.90 | 20.75 | 21.60 | 22.44 | 23.28 | 24.12 | 24.96 | 25.79 | 26.62 | 27.45 | 29.11 | 29.94 | 32.41 | 34.04 |
| 2400               | 12.21   | 14.27 | 15.26 | 16.32 | 17.31 | 18.36 | 19.34 | 20.38 | 21.37 | 22.40 | 23.38 | 24.40 | 25.38 | 26.39 | 27.37 | 28.37 | 29.36 | 30.35 | 31.33 | 32.32 | 34.27 | 35.25 | 38.15 | 40.09 |
| 2800               | 13.94   | 16.32 | 17.50 | 18.67 | 19.85 | 21.02 | 22.19 | 23.35 | 24.51 | 25.66 | 26.82 | 27.97 | 29.12 | 30.26 | 31.40 | 32.53 | 33.67 | 34.80 | 35.93 | 37.05 | 39.30 | 40.41 | 43.74 | 45.93 |
| 3200               | 15.63   | 18.31 | 19.59 | 20.97 | 22.25 | 23.62 | 24.90 | 26.25 | 27.53 | 28.86 | 30.14 | 31.46 | 32.74 | 34.04 | 35.31 | 36.60 | 37.87 | 39.15 | 40.42 | 41.69 | 44.21 | 45.48 | 49.20 | 51.69 |
| 3500               | 16.87   | 19.78 | 21.23 | 22.67 | 24.11 | 25.54 | 26.97 | 28.39 | 29.81 | 31.22 | 32.63 | 34.03 | 35.43 | 36.82 | 38.21 | 39.60 | 40.98 | 42.36 | 43.73 | 45.09 | 47.82 | 49.17 | 53.21 | 55.85 |
| 4000               | 18.89   | 22.17 | 23.74 | 25.43 | 27.00 | 28.67 | 30.23 | 31.88 | 33.44 | 35.06 | 36.62 | 38.23 | 39.78 | 41.37 | 42.92 | 44.48 | 46.03 | 47.58 | 49.12 | 50.65 | 53.70 | 55.23 | 59.72 | 62.71 |
| 4500               | 20.85   | 24.51 | 26.32 | 28.13 | 29.93 | 31.72 | 33.50 | 35.28 | 37.05 | 38.82 | 40.57 | 42.32 | 44.06 | 45.79 | 47.52 | 49.24 | 50.95 | 52.65 | 54.34 | 56.03 | 59.40 | 61.06 | 66.03 | 69.52 |
| 5000               | 22.77   | 26.79 | 28.70 | 30.76 | 32.67 | 34.70 | 36.60 | 38.61 | 40.50 | 42.47 | 44.36 | 46.31 | 48.18 | 50.10 | 51.97 | 53.86 | 55.72 | 57.59 | 59.43 | 61.27 | 64.92 | 66.74 | 72.11 |       |
| 5500               | 24.65   | 29.01 | 31.17 | 33.33 | 35.47 | 37.61 | 39.73 | 41.85 | 43.95 | 46.04 | 48.12 | 50.19 | 52.24 | 54.29 | 56.32 | 58.35 | 60.36 | 62.37 | 64.35 | 66.32 | 70.27 | 72.70 |       |       |

| RPM<br>Small Shaft | Rated Horsepower for Small Sprocket<br>(Number of Teeth and Pitch Diameter, Inches) |       |       |       |       |       |       |       |       |       | Additional HP required per belt for speed ratio of speed down drive |         |         |         |         |         |         |         |         |               |      |      |      |
|--------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|---------|---------|---------|---------|---------|---------|---------|---------|---------------|------|------|------|
|                    | 53  | 56    | 60    | 63    | 64    | 67    | 71    | 72    | 75    | 80    | 1.00 to   | 1.03 to | 1.06 to | 1.11 to | 1.16 to | 1.22 to | 1.31 to | 1.44 to | 1.65 to | 2.16 and over |      |      |      |
| 10                 | 0.42  | 0.45  | 0.49  | 0.51  | 0.52  | 0.55  | 0.58  | 0.59  | 0.62  | 0.66  |   |         |         |         |         |         |         |         |         |               |      |      |      |
| 20                 | 0.68  | 0.72  | 0.78  | 0.82  | 0.84  | 0.88  | 0.94  | 0.95  | 0.99  | 1.06  |   |         |         |         |         |         |         |         |         |               |      |      |      |
| 40                 | 1.16  | 1.23  | 1.33  | 1.41  | 1.43  | 1.50  | 1.60  | 1.62  | 1.70  | 1.82  |   |         |         |         |         |         |         |         |         |               |      |      |      |
| 50                 | 1.39  | 1.48  | 1.60  | 1.69  | 1.72  | 1.81  | 1.92  | 1.95  | 2.04  | 2.18  |   |         |         |         |         |         |         |         |         |               |      |      |      |
| 60                 | 1.62  | 1.72  | 1.86  | 1.97  | 2.00  | 2.10  | 2.24  | 2.27  | 2.37  | 2.54  |   |         |         |         |         |         |         |         |         |               |      |      |      |
| 100                | 2.50  | 2.66  | 2.88  | 3.03  | 3.09  | 3.25  | 3.46  | 3.51  | 3.67  | 3.93  |   |         |         |         |         |         |         |         |         |               |      |      |      |
| 200                | 4.58  | 4.88  | 5.28  | 5.58  | 5.68  | 5.98  | 6.37  | 6.47  | 6.76  | 7.25  | 0.00  | 0.01    | 0.01    | 0.02    | 0.03    | 0.04    | 0.04    | 0.05    | 0.06    | 0.06          | 0.07 | 0.08 | 0.08 |
| 300                | 6.58  | 7.01  | 7.59  | 8.02  | 8.17  | 8.59  | 9.16  | 9.31  | 9.73  | 10.43 | 0.00  | 0.01    | 0.02    | 0.02    | 0.03    | 0.04    | 0.05    | 0.06    | 0.07    | 0.09          | 0.11 | 0.13 | 0.15 |
| 400                | 8.53  | 9.09  | 9.84  | 10.40 | 10.59 | 11.15 | 11.89 | 12.07 | 12.62 | 13.53 | 0.00  | 0.01    | 0.02    | 0.03    | 0.04    | 0.05    | 0.06    | 0.07    | 0.09    | 0.11          | 0.13 | 0.15 | 0.17 |
| 500                | 10.43   | 11.11 | 12.04 | 12.72 | 12.96 | 13.63 | 14.54 | 14.77 | 15.44 | 16.56 | 0.00  | 0.01    | 0.03    | 0.04    | 0.06    | 0.07    | 0.08    | 0.1     | 0.11    | 0.13          | 0.15 | 0.17 | 0.21 |
| 600                | 12.29   | 13.11 | 14.20 | 15.02 | 15.29 | 16.09 | 17.16 | 17.43 | 18.23 | 19.55 | 0.00  | 0.02    | 0.03    | 0.05    | 0.06    | 0.08    | 0.1     | 0.11    | 0.13    | 0.15          | 0.17 | 0.21 | 0.25 |
| 700                | 14.14   | 15.07 | 16.33 | 17.26 | 17.58 | 18.49 | 19.73 | 20.04 | 20.95 | 22.48 | 0.00  | 0.02    | 0.04    | 0.06    | 0.07    | 0.09    | 0.11    | 0.13    | 0.15    | 0.17          | 0.21 | 0.25 | 0.29 |
| 800                | 15.95   | 17.01 | 18.43 | 19.50 | 19.85 | 20.89 | 22.28 | 22.63 | 23.66 | 25.38 | 0.00  | 0.02    | 0.05    | 0.07    | 0.1     | 0.12    | 0.14    | 0.17    | 0.19    | 0.21          | 0.25 | 0.29 | 0.36 |
| 870                | 17.23   | 18.36 | 19.89 | 21.03 | 21.42 | 22.53 | 24.04 | 24.42 | 25.53 | 27.39 | 0.00  | 0.03    | 0.05    | 0.08    | 0.11    | 0.14    | 0.17    | 0.19    | 0.22    | 0.25          | 0.29 | 0.36 | 0.43 |
| 1000               | 19.53   | 20.83 | 22.57 | 23.88 | 24.31 | 25.59 | 27.29 | 27.71 | 28.97 | 31.08 | 0.00  | 0.03    | 0.06    | 0.1     | 0.13    | 0.16    | 0.19    | 0.22    | 0.25    | 0.29          | 0.36 | 0.43 | 0.51 |
| 1160               | 22.35   | 23.82 | 25.82 | 27.30 | 27.81 | 29.25 | 31.20 | 31.70 | 33.14 | 35.56 | 0.00  | 0.04    | 0.08    | 0.12    | 0.16    | 0.2     | 0.24    | 0.28    | 0.32    | 0.37          | 0.41 | 0.49 | 0.57 |
| 1200               | 23.02   | 24.56 | 26.62 | 28.16 | 28.67 | 30.18 | 32.19 | 32.69 | 34.18 | 36.67 | 0.00  | 0.05    | 0.09    | 0.14    | 0.18    | 0.23    | 0.27    | 0.32    | 0.37    | 0.41          | 0.49 | 0.57 | 0.62 |
| 1400               | 26.49   | 28.24 | 30.60 | 32.35 | 32.96 | 34.68 | 36.99 | 37.58 | 39.29 | 42.14 | 0.00  | 0.05    | 0.1     | 0.14    | 0.19    | 0.24    | 0.29    | 0.33    | 0.38    | 0.43          | 0.49 | 0.57 | 0.64 |
| 1600               | 29.86   | 31.86 | 34.52 | 36.52 | 37.18 | 39.13 | 41.73 | 42.38 | 44.31 | 47.52 | 0.00  | 0.06    | 0.11    | 0.16    | 0.22    | 0.27    | 0.33    | 0.38    | 0.44    | 0.49          | 0.57 | 0.64 | 0.72 |
| 1750               | 32.39   | 34.53 | 37.42 | 39.57 | 40.31 | 42.40 | 45.21 | 45.93 | 48.01 | 51.49 | 0.00  | 0.06    | 0.11    | 0.17    | 0.22    | 0.28    | 0.33    | 0.39    | 0.45    | 0.5           | 0.57 | 0.64 | 0.72 |
| 2000               | 36.49   | 38.93 | 42.18 | 44.62 | 45.43 | 47.80 | 50.96 | 51.75 | 54.09 | 57.99 | 0.00  | 0.06    | 0.13    | 0.19    | 0.25    | 0.32    | 0.38    | 0.45    | 0.51    | 0.57          | 0.64 | 0.72 | 0.83 |
| 2400               | 42.97   | 45.81 | 49.62 | 52.45 | 53.43 | 56.17 | 59.88 | 60.82 | 63.53 | 68.08 | 0.00  | 0.07    | 0.14    | 0.2     | 0.28    | 0.35    | 0.42    |         |         |               |      |      |      |

# SELECTION



## HT500 Basic HP Ratings - 8mm

| 8M-21<br>RPM<br>Small Shaft | Rated Horsepower for Small Sprocket<br>(Number of Teeth and Pitch Diameter, Inches) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |
|-----------------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 22  | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    | 32    | 33    | 34    | 35    | 36    | 37    | 38     | 39     | 40     | 41     | 42     | 44     | 45     | 48     | 50     |
|                             | 2.210   | 2.410 | 2.506 | 2.610 | 2.707 | 2.810 | 2.907 | 3.010 | 3.108 | 3.210 | 3.308 | 3.410 | 3.509 | 3.610 | 3.709 | 3.810  | 3.910  | 4.010  | 4.110  | 4.211  | 4.410  | 4.511  | 4.810  | 5.013  |
| 10                          | 0.26  | 0.30  | 0.32  | 0.33  | 0.35  | 0.37  | 0.38  | 0.39  | 0.40  | 0.42  | 0.44  | 0.46  | 0.47  | 0.49  | 0.50  | 0.51   | 0.53   | 0.54   | 0.56   | 0.58   | 0.61   | 0.63   | 0.67   | 0.70   |
| 20                          | 0.40  | 0.46  | 0.48  | 0.51  | 0.53  | 0.56  | 0.59  | 0.61  | 0.64  | 0.67  | 0.69  | 0.72  | 0.74  | 0.77  | 0.80  | 0.82   | 0.85   | 0.88   | 0.90   | 0.92   | 0.96   | 0.99   | 1.07   | 1.12   |
| 40                          | 0.68  | 0.77  | 0.81  | 0.86  | 0.90  | 0.95  | 0.99  | 1.03  | 1.08  | 1.12  | 1.16  | 1.21  | 1.25  | 1.30  | 1.34  | 1.38   | 1.43   | 1.47   | 1.51   | 1.56   | 1.65   | 1.69   | 1.82   | 1.90   |
| 50                          | 0.81  | 0.91  | 0.96  | 1.02  | 1.07  | 1.12  | 1.17  | 1.23  | 1.28  | 1.33  | 1.38  | 1.44  | 1.49  | 1.54  | 1.59  | 1.65   | 1.70   | 1.75   | 1.80   | 1.86   | 1.96   | 2.01   | 2.17   | 2.28   |
| 60                          | 0.93  | 1.05  | 1.11  | 1.17  | 1.23  | 1.30  | 1.36  | 1.42  | 1.48  | 1.54  | 1.61  | 1.68  | 1.74  | 1.80  | 1.86  | 1.93   | 1.99   | 2.05   | 2.11   | 2.17   | 2.29   | 2.35   | 2.52   | 2.64   |
| 100                         | 1.40  | 1.59  | 1.69  | 1.79  | 1.88  | 1.98  | 2.07  | 2.17  | 2.26  | 2.36  | 2.46  | 2.56  | 2.65  | 2.75  | 2.84  | 2.94   | 3.04   | 3.13   | 3.23   | 3.33   | 3.52   | 3.62   | 3.90   | 4.09   |
| 200                         | 2.49  | 2.85  | 3.04  | 3.22  | 3.40  | 3.59  | 3.77  | 3.96  | 4.13  | 4.31  | 4.49  | 4.67  | 4.85  | 5.02  | 5.20  | 5.37   | 5.56   | 5.74   | 5.92   | 6.09   | 6.44   | 6.62   | 7.14   | 7.49   |
| 300                         | 3.54  | 4.06  | 4.31  | 4.59  | 4.84  | 5.11  | 5.37  | 5.64  | 5.88  | 6.14  | 6.40  | 6.67  | 6.93  | 7.19  | 7.44  | 7.70   | 7.95   | 8.21   | 8.47   | 8.73   | 9.24   | 9.50   | 10.26  | 10.77  |
| 400                         | 4.52  | 5.22  | 5.56  | 5.90  | 6.24  | 6.58  | 6.92  | 7.26  | 7.60  | 7.93  | 8.27  | 8.61  | 8.94  | 9.28  | 9.62  | 9.96   | 10.29  | 10.62  | 10.96  | 11.29  | 11.95  | 12.29  | 13.28  | 13.94  |
| 500                         | 5.48  | 6.34  | 6.74  | 7.18  | 7.58  | 8.02  | 8.42  | 8.86  | 9.26  | 9.68  | 10.08 | 10.50 | 10.92 | 11.34 | 11.75 | 12.16  | 12.56  | 12.97  | 13.38  | 13.79  | 14.61  | 15.02  | 16.22  | 17.04  |
| 600                         | 6.42  | 7.42  | 7.92  | 8.42  | 8.92  | 9.42  | 9.91  | 10.40 | 10.89 | 11.39 | 11.88 | 12.37 | 12.85 | 13.34 | 13.83 | 14.32  | 14.80  | 15.28  | 15.76  | 16.25  | 17.22  | 17.70  | 19.13  | 20.08  |
| 700                         | 7.35  | 8.51  | 9.05  | 9.64  | 10.20 | 10.80 | 11.35 | 11.94 | 12.49 | 13.07 | 13.62 | 14.19 | 14.75 | 15.31 | 15.87 | 16.43  | 16.99  | 17.55  | 18.11  | 18.67  | 19.78  | 20.34  | 22.00  | 23.11  |
| 800                         | 8.24  | 9.56  | 10.20 | 10.85 | 11.50 | 12.15 | 12.79 | 13.44 | 14.08 | 14.72 | 15.36 | 16.00 | 16.63 | 17.27 | 17.90 | 18.53  | 19.16  | 19.79  | 20.42  | 21.05  | 22.31  | 22.94  | 24.82  | 26.05  |
| 870                         | 8.87  | 10.29 | 10.96 | 11.69 | 12.37 | 13.09 | 13.76 | 14.47 | 15.16 | 15.87 | 16.54 | 17.24 | 17.92 | 18.62 | 19.30 | 19.99  | 20.67  | 21.35  | 22.03  | 22.71  | 24.06  | 24.75  | 26.78  | 28.13  |
| 1000                        | 10.01   | 11.62 | 12.42 | 13.21 | 14.01 | 14.81 | 15.60 | 16.40 | 17.19 | 17.97 | 18.75 | 19.53 | 20.32 | 21.11 | 21.88 | 22.66  | 23.43  | 24.20  | 24.98  | 25.75  | 27.30  | 28.07  | 30.36  | 31.89  |
| 1160                        | 11.39   | 13.23 | 14.12 | 15.07 | 15.95 | 16.89 | 17.77 | 18.71 | 19.59 | 20.51 | 21.40 | 22.31 | 23.20 | 24.12 | 25.00 | 25.90  | 26.78  | 27.67  | 28.56  | 29.44  | 31.20  | 32.09  | 34.72  | 36.49  |
| 1200                        | 11.73   | 13.63 | 14.58 | 15.52 | 16.47 | 17.41 | 18.35 | 19.29 | 20.21 | 21.14 | 22.07 | 23.00 | 23.92 | 24.85 | 25.77 | 26.69  | 27.61  | 28.53  | 29.44  | 30.35  | 32.18  | 33.09  | 35.81  | 37.60  |
| 1400                        | 13.41   | 15.61 | 16.66 | 17.78 | 18.83 | 19.95 | 21.01 | 22.12 | 23.17 | 24.27 | 25.32 | 26.41 | 27.46 | 28.54 | 29.60 | 30.66  | 31.72  | 32.78  | 33.83  | 34.88  | 36.98  | 38.03  | 41.14  | 43.24  |
| 1600                        | 15.05   | 17.54 | 18.77 | 20.00 | 21.24 | 22.47 | 23.69 | 24.90 | 26.12 | 27.34 | 28.54 | 29.75 | 30.96 | 32.17 | 33.36 | 34.56  | 35.75  | 36.94  | 38.13  | 39.32  | 41.70  | 42.88  | 46.41  | 48.75  |
| 1750                        | 16.28   | 18.97 | 20.26 | 21.65 | 22.94 | 24.31 | 25.60 | 26.97 | 28.26 | 29.61 | 30.90 | 32.24 | 33.52 | 34.84 | 36.14 | 37.45  | 38.74  | 40.04  | 41.34  | 42.63  | 45.20  | 46.50  | 50.31  | 52.88  |
| 2000                        | 18.27   | 21.32 | 22.83 | 24.34 | 25.85 | 27.35 | 28.86 | 30.36 | 31.85 | 33.34 | 34.83 | 36.31 | 37.79 | 39.27 | 40.74 | 42.21  | 43.67  | 45.13  | 46.59  | 48.04  | 50.94  | 52.39  | 56.72  | 59.57  |
| 2400                        | 21.37   | 24.97 | 26.70 | 28.56 | 30.29 | 32.13 | 33.85 | 35.67 | 37.40 | 39.20 | 40.92 | 42.70 | 44.42 | 46.18 | 47.91 | 49.65  | 51.38  | 53.11  | 54.84  | 56.55  | 59.97  | 61.70  | 66.76  | 70.16  |
| 2800                        | 24.40   | 28.56 | 30.62 | 32.67 | 34.73 | 36.79 | 38.82 | 40.86 | 42.88 | 44.91 | 46.93 | 48.95 | 50.95 | 52.96 | 54.94 | 56.93  | 58.91  | 60.90  | 62.87  | 64.84  | 68.78  | 70.72  | 76.55  | 80.38  |
| 3200                        | 27.35   | 32.04 | 34.29 | 36.70 | 38.94 | 41.34 | 43.58 | 45.94 | 48.17 | 50.51 | 52.74 | 55.06 | 57.29 | 59.57 | 61.80 | 64.05  | 66.28  | 68.51  | 70.74  | 72.96  | 77.37  | 79.58  | 86.10  | 90.46  |
| 3500                        | 29.52   | 34.62 | 37.14 | 39.67 | 42.18 | 44.70 | 47.19 | 49.68 | 52.16 | 54.64 | 57.09 | 59.55 | 61.99 | 64.44 | 66.87 | 69.30  | 71.72  | 74.13  | 76.52  | 78.91  | 83.69  | 86.04  | 93.12  | 97.74  |
| 4000                        | 33.06   | 38.80 | 41.55 | 44.50 | 47.25 | 50.17 | 52.91 | 55.79 | 58.51 | 61.36 | 64.08 | 66.90 | 69.62 | 72.40 | 75.10 | 77.84  | 80.55  | 83.27  | 85.95  | 88.64  | 93.98  | 96.65  | 104.51 | 109.73 |
| 4500                        | 36.49   | 42.89 | 46.06 | 49.23 | 52.37 | 55.51 | 58.63 | 61.74 | 64.84 | 67.94 | 71.00 | 74.06 | 77.10 | 80.13 | 83.15 | 86.17  | 89.15  | 92.14  | 95.09  | 98.04  | 103.95 | 106.85 | 115.55 | 86.66  |
| 5000                        | 39.85   | 46.88 | 50.23 | 53.83 | 57.17 | 60.73 | 64.06 | 67.57 | 70.87 | 74.32 | 77.63 | 81.04 | 84.32 | 87.68 | 90.95 | 94.26  | 97.52  | 100.78 | 104.00 | 107.22 | 113.61 | 116.80 | 126.19 | 94.21  |
| 5500                        | 43.14   | 50.77 | 54.55 | 58.33 | 62.07 | 65.82 | 69.53 | 73.24 | 76.90 | 80.57 | 84.20 | 87.83 | 91.42 | 95.01 | 98.56 | 102.11 | 105.63 | 109.15 | 112.60 | 116.06 | 122.97 | 92.23  |        |        |

| 8M-21<br>RPM<br>Small Shaft | Rated Horsepower for Small Sprocket<br>(Number of Teeth and Pitch Diameter, Inches) |       |       |       |       |       |       |       |       |       | Additional HP required per belt for speed ratio of speed down drive |         |         |         |         |         |         |         |         |          |      |      |  |
|-----------------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|---------|---------|---------|---------|---------|---------|---------|---------|----------|------|------|--|
|                             | 53  | 56    | 60    | 63    | 64    | 67    | 71    | 72    | 75    | 80    | 1.00 to   | 1.03 to | 1.06 to | 1.11 to | 1.16 to | 1.22 to | 1.31 to | 1.44 to | 1.65 to | 2.16     |      |      |  |
|                             | 5.314   | 5.610 | 6.015 | 6.316 | 6.420 | 6.717 | 7.118 | 7.220 | 7.519 | 8.020 | 1.02  | 1.05    | 1.10    | 1.15    | 1.21    | 1.30    | 1.43    | 1.64    | 2.15    | and over |      |      |  |
| 10                          | 0.74  | 0.79  | 0.85  | 0.89  | 0.91  | 0.96  | 1.02  | 1.03  | 1.08  | 1.16  |   |         |         |         |         |         |         |         |         |          |      |      |  |
| 20                          | 1.19  | 1.26  | 1.37  | 1.44  | 1.47  | 1.54  | 1.64  | 1.66  | 1.73  | 1.86  |   |         |         |         |         |         |         |         |         |          |      |      |  |
| 40                          | 2.03  | 2.15  | 2.33  | 2.46  | 2.50  | 2.63  | 2.79  | 2.84  | 2.97  | 3.19  |   |         |         |         |         |         |         |         |         |          |      |      |  |
| 50                          | 2.43  | 2.59  | 2.80  | 2.96  | 3.01  | 3.16  | 3.36  | 3.41  | 3.56  | 3.82  |   |         |         |         |         |         |         |         |         |          |      |      |  |
| 60                          | 2.83  | 3.01  | 3.26  | 3.44  | 3.50  | 3.68  | 3.91  | 3.97  | 4.15  | 4.45  |   |         |         |         |         |         |         |         |         |          |      |      |  |
| 100                         | 4.38  | 4.66  | 5.03  | 5.31  | 5.41  | 5.68  | 6.05  | 6.14  | 6.42  | 6.88  |   |         |         |         |         |         |         |         |         |          |      |      |  |
| 200                         | 8.02  | 8.54  | 9.24  | 9.77  | 9.94  | 10.46 | 11.15 | 11.32 | 11.83 | 12.69 | 0.00  | 0.01    | 0.02    | 0.04    | 0.05    | 0.06    | 0.07    | 0.09    | 0.1     | 0.11     | 0.13 | 0.15 |  |
| 300                         | 11.52   | 12.27 | 13.28 | 14.04 | 14.30 | 15.04 | 16.04 | 16.29 | 17.03 | 18.25 | 0.00  | 0.01    | 0.03    | 0.04    | 0.06    | 0.07    | 0.08    | 0.1     | 0.11    | 0.13     | 0.15 | 0.15 |  |
| 400                         | 14.92   | 15.91 | 17.22 | 18.20 | 18.53 | 19.50 | 20.80 | 21.12 | 22.08 | 23.68 | 0.00  | 0.02    | 0.03    | 0.05    | 0.07    | 0.08    | 0.1     | 0.11    | 0.13    | 0.15     | 0.15 | 0.15 |  |
| 500                         | 18.25   | 19.44 | 21.06 | 22.26 | 22.68 | 23.86 | 25.44 | 25.85 | 27.02 | 28.98 | 0.00  | 0.02    | 0.05    | 0.07    | 0.1     | 0.12    | 0.15    | 0.17    | 0.19    | 0.19     | 0.22 | 0.22 |  |
| 600                         | 21.51   | 22.94 | 24.85 | 26.28 | 26.76 | 28.16 | 30.03 | 30.50 | 31.89 | 34.21 | 0.00  | 0.03    | 0.06    | 0.08    | 0.11    | 0.14    | 0.17    | 0.19    | 0.22    | 0.22     | 0.25 | 0.25 |  |
| 700                         | 24.75   | 26.37 | 28.57 | 30.20 | 30.77 | 32.36 | 34.52 | 35.07 | 36.67 | 39.34 | 0.00  | 0.03    | 0.06    | 0.1     | 0.13    | 0.16    | 0.19    | 0.23    | 0.26    | 0.26     | 0.29 | 0.29 |  |
| 800                         | 27.91   | 29.77 | 32.25 | 34.12 | 34.74 | 36.56 | 38.99 | 39.60 | 41.41 | 44.42 | 0.00  | 0.04    | 0.08    | 0.13    | 0.17    | 0.21    | 0.25    | 0.29    | 0.33    | 0.33     | 0.38 | 0.38 |  |
| 870                         | 30.15   | 32.13 | 34.81 | 36.80 | 37.49 | 39.43 | 42.07 | 42.74 | 44.68 | 47.93 | 0.00  | 0.05    | 0.1     | 0.15    | 0.19    | 0.24    | 0.29    | 0.34    | 0.39    | 0.44     | 0.44 | 0.44 |  |
| 1000                        | 34.17   | 36.45 | 39.50 | 41.78 | 42.54 | 44.77 | 47.75 | 48.49 | 50.70 | 54.39 | 0.00  | 0.06    | 0.11    | 0.17    | 0.22    | 0.28    | 0.33    | 0.39    | 0.45    | 0.5      | 0.5  | 0.5  |  |
| 1160                        | 39.10   | 41.69 | 45.18 | 47.77 | 48.67 | 51.20 | 54.61 | 55.48 | 58.00 | 62.23 | 0.00  | 0.07    | 0.14    | 0.21    | 0.28    | 0.35    | 0.42    | 0.49    | 0.56    | 0.63     | 0.63 | 0.63 |  |
| 1200                        | 40.29   | 42.98 | 46.58 | 49.27 | 50.17 | 52.81 | 56.33 | 57.21 | 59.82 | 64.17 | 0.00  | 0.08    | 0.16    | 0.24    | 0.32    | 0.4     | 0.48    | 0.56    | 0.64    | 0.72     | 0.72 | 0.72 |  |
| 1400                        | 46.35   | 49.42 | 53.55 | 56.62 | 57.68 | 60.68 | 64.74 | 65.77 | 68.75 | 73.75 | 0.00  | 0.08    | 0.17    | 0.25    | 0.33    | 0.42    | 0.5     | 0.58    | 0.67    | 0.75     | 0.75 | 0.75 |  |
| 1600                        | 52.25   | 55.76 | 60.41 | 63.90 | 65.07 | 68.48 | 73.03 | 74.17 | 77.54 | 83.16 | 0.00  | 0.1     | 0.19    | 0.29    | 0.38    | 0.48    | 0.58    | 0.67    | 0.77    | 0.86     | 0.86 | 0.86 |  |
| 1750                        | 56.68   | 60.43 | 65.49 | 69.24 | 70.54 | 74.19 | 79.12 | 80.38 | 84.02 | 90.11 | 0.00  | 0.1     | 0.19    | 0.29    | 0.39    | 0.49    | 0.58    | 0.68    | 0.78    | 0.88     | 0.88 | 0.88 |  |
| 2000                        | 63.85   | 68.13 | 73.82 | 78.08 |       |       |       |       |       |       |   |         |         |         |         |         |         |         |         |          |      |      |  |



# SELECTION

## HT500 Basic HP Ratings - 8mm

| 8M-36 | Rated Horsepower for Small Sprocket<br>(Number of Teeth and Pitch Diameter, Inches) |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |
|-------|---|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
|       | RPM Small Shaft   | 22    | 24    | 25    | 26     | 27     | 28     | 29     | 30     | 31     | 32     | 33     | 34     | 35     | 36     | 37     | 38     | 39     | 40     | 41     | 42     | 44     | 45     | 48     | 50    |
|       |   | 2.210 | 2.410 | 2.506 | 2.610  | 2.707  | 2.810  | 2.907  | 3.010  | 3.108  | 3.210  | 3.308  | 3.410  | 3.509  | 3.610  | 3.709  | 3.810  | 3.910  | 4.010  | 4.110  | 4.211  | 4.410  | 4.511  | 4.810  | 5.013 |
| 10    | 0.45  | 0.51  | 0.54  | 0.57  | 0.60   | 0.63   | 0.65   | 0.66   | 0.69   | 0.72   | 0.75   | 0.78   | 0.81   | 0.84   | 0.86   | 0.87   | 0.90   | 0.93   | 0.96   | 0.99   | 1.05   | 1.07   | 1.14   | 1.19   |       |
| 20    | 0.69  | 0.78  | 0.82  | 0.87  | 0.91   | 0.96   | 1.00   | 1.05   | 1.09   | 1.14   | 1.18   | 1.23   | 1.27   | 1.32   | 1.36   | 1.41   | 1.45   | 1.50   | 1.54   | 1.58   | 1.65   | 1.70   | 1.83   | 1.91   |       |
| 40    | 1.17  | 1.32  | 1.40  | 1.47  | 1.55   | 1.62   | 1.70   | 1.77   | 1.85   | 1.92   | 2.00   | 2.07   | 2.15   | 2.22   | 2.30   | 2.37   | 2.45   | 2.52   | 2.60   | 2.67   | 2.82   | 2.90   | 3.12   | 3.26   |       |
| 50    | 1.38  | 1.56  | 1.65  | 1.74  | 1.83   | 1.92   | 2.01   | 2.10   | 2.19   | 2.28   | 2.37   | 2.46   | 2.55   | 2.64   | 2.73   | 2.82   | 2.91   | 3.00   | 3.09   | 3.18   | 3.36   | 3.45   | 3.72   | 3.90   |       |
| 60    | 1.59  | 1.80  | 1.91  | 2.01  | 2.12   | 2.22   | 2.33   | 2.43   | 2.54   | 2.64   | 2.76   | 2.88   | 2.99   | 3.09   | 3.20   | 3.30   | 3.41   | 3.51   | 3.62   | 3.72   | 3.93   | 4.03   | 4.32   | 4.53   |       |
| 100   | 2.40  | 2.73  | 2.89  | 3.06  | 3.22   | 3.39   | 3.55   | 3.72   | 3.88   | 4.05   | 4.21   | 4.38   | 4.54   | 4.71   | 4.87   | 5.04   | 5.20   | 5.37   | 5.54   | 5.70   | 6.03   | 6.20   | 6.69   | 7.02   |       |
| 200   | 4.26  | 4.89  | 5.21  | 5.52  | 5.84   | 6.15   | 6.47   | 6.78   | 7.08   | 7.38   | 7.70   | 8.01   | 8.31   | 8.61   | 8.91   | 9.21   | 9.53   | 9.84   | 10.14  | 10.44  | 11.04  | 11.34  | 12.24  | 12.84  |       |
| 300   | 6.06  | 6.96  | 7.39  | 7.86  | 8.30   | 8.76   | 9.20   | 9.66   | 10.09  | 10.53  | 10.97  | 11.43  | 11.88  | 12.33  | 12.76  | 13.20  | 13.63  | 14.07  | 14.51  | 14.96  | 15.84  | 16.28  | 17.58  | 18.45  |       |
| 400   | 7.74  | 8.94  | 9.53  | 10.11 | 10.70  | 11.28  | 11.87  | 12.45  | 13.02  | 13.59  | 14.18  | 14.76  | 15.33  | 15.90  | 16.49  | 17.07  | 17.64  | 18.21  | 18.78  | 19.35  | 20.49  | 21.06  | 22.77  | 23.90  |       |
| 500   | 9.39  | 10.86 | 11.55 | 12.30 | 13.00  | 13.74  | 14.44  | 15.18  | 15.87  | 16.59  | 17.28  | 18.00  | 18.71  | 19.44  | 20.14  | 20.85  | 21.54  | 22.23  | 22.94  | 23.65  | 25.05  | 25.75  | 27.81  | 29.21  |       |
| 600   | 11.01   | 12.72 | 13.58 | 14.43 | 15.29  | 16.14  | 16.98  | 17.82  | 18.68  | 19.53  | 20.37  | 21.21  | 22.04  | 22.86  | 23.70  | 24.54  | 25.37  | 26.19  | 27.02  | 27.86  | 29.52  | 30.34  | 32.79  | 34.43  |       |
| 700   | 12.60   | 14.58 | 15.52 | 16.53 | 17.49  | 18.51  | 19.46  | 20.46  | 21.41  | 22.41  | 23.35  | 24.33  | 25.28  | 26.25  | 27.20  | 28.17  | 29.13  | 30.09  | 31.05  | 32.00  | 33.90  | 34.87  | 37.71  | 39.61  |       |
| 800   | 14.13   | 16.38 | 17.49 | 18.60 | 19.71  | 20.82  | 21.93  | 23.04  | 24.14  | 25.23  | 26.33  | 27.42  | 28.52  | 29.61  | 30.69  | 31.77  | 32.85  | 33.93  | 35.01  | 36.09  | 38.25  | 39.32  | 42.54  | 44.66  |       |
| 870   | 15.21   | 17.64 | 18.80 | 20.04 | 21.20  | 22.44  | 23.59  | 24.81  | 25.98  | 27.21  | 28.36  | 29.55  | 30.72  | 31.92  | 33.08  | 34.26  | 35.43  | 36.60  | 37.77  | 38.93  | 41.25  | 42.43  | 45.90  | 48.23  |       |
| 1000  | 17.16   | 19.92 | 21.29 | 22.65 | 24.02  | 25.38  | 26.75  | 28.11  | 29.46  | 30.81  | 32.15  | 33.48  | 34.83  | 36.18  | 37.52  | 38.85  | 40.17  | 41.49  | 42.82  | 44.15  | 46.80  | 48.11  | 52.05  | 54.66  |       |
| 1160  | 19.53   | 22.68 | 24.20 | 25.83 | 27.34  | 28.95  | 30.47  | 32.07  | 33.58  | 35.16  | 36.68  | 38.25  | 39.78  | 41.34  | 42.86  | 44.40  | 45.91  | 47.43  | 48.95  | 50.47  | 53.49  | 55.02  | 59.52  | 62.55  |       |
| 1200  | 20.10   | 23.37 | 24.99 | 26.61 | 28.23  | 29.85  | 31.46  | 33.06  | 34.65  | 36.24  | 37.83  | 39.42  | 41.01  | 42.60  | 44.18  | 45.75  | 47.33  | 48.90  | 50.47  | 52.04  | 55.17  | 56.72  | 61.38  | 64.46  |       |
| 1400  | 22.98   | 26.76 | 28.55 | 30.48 | 32.28  | 34.20  | 36.01  | 37.92  | 39.73  | 41.61  | 43.41  | 45.27  | 47.08  | 48.93  | 50.73  | 52.56  | 54.37  | 56.19  | 58.00  | 59.80  | 63.39  | 65.20  | 70.53  | 74.13  |       |
| 1600  | 25.80   | 30.06 | 32.18 | 34.29 | 36.41  | 38.52  | 40.61  | 42.69  | 44.78  | 46.86  | 48.93  | 51.00  | 53.07  | 55.14  | 57.20  | 59.25  | 61.29  | 63.33  | 65.37  | 67.41  | 71.49  | 73.51  | 79.56  | 83.57  |       |
| 1750  | 27.90   | 32.52 | 34.73 | 37.11 | 39.32  | 41.67  | 43.89  | 46.23  | 48.45  | 50.76  | 52.97  | 55.26  | 57.47  | 59.73  | 61.95  | 64.20  | 66.42  | 68.64  | 70.86  | 73.08  | 77.49  | 79.71  | 86.25  | 90.64  |       |
| 2000  | 31.32   | 36.54 | 39.14 | 41.73 | 44.31  | 46.89  | 49.47  | 52.05  | 54.60  | 57.15  | 59.70  | 62.25  | 64.79  | 67.32  | 69.84  | 72.36  | 74.87  | 77.37  | 79.86  | 82.35  | 87.33  | 89.81  | 97.23  | 102.12 |       |
| 2400  | 36.63   | 42.81 | 45.77 | 48.96 | 51.92  | 55.08  | 58.03  | 61.14  | 64.11  | 67.20  | 70.15  | 73.20  | 76.15  | 79.17  | 82.12  | 85.11  | 88.08  | 91.05  | 94.00  | 96.95  | 102.81 | 105.76 | 114.45 | 120.27 |       |
| 2800  | 41.82   | 48.96 | 52.49 | 56.01 | 59.54  | 63.06  | 66.56  | 70.05  | 73.52  | 76.98  | 80.45  | 83.91  | 87.35  | 90.78  | 94.19  | 97.59  | 101.00 | 104.40 | 107.78 | 111.15 | 117.90 | 121.23 | 131.22 | 137.79 |       |
| 3200  | 46.89   | 54.93 | 58.78 | 62.91 | 66.76  | 70.86  | 74.70  | 78.75  | 82.58  | 86.58  | 90.42  | 94.38  | 98.21  | 102.12 | 105.94 | 109.80 | 113.62 | 117.45 | 121.26 | 125.07 | 132.63 | 136.43 | 147.60 | 155.07 |       |
| 3500  | 50.61   | 59.34 | 63.68 | 68.01 | 72.32  | 76.62  | 80.90  | 85.17  | 89.42  | 93.66  | 97.88  | 102.09 | 106.28 | 110.46 | 114.63 | 118.80 | 122.94 | 127.08 | 131.18 | 135.27 | 143.46 | 147.50 | 159.63 | 167.56 |       |
| 4000  | 56.67   | 66.51 | 71.22 | 76.29 | 81.00  | 86.01  | 90.70  | 95.64  | 100.31 | 105.18 | 109.86 | 114.69 | 119.35 | 124.11 | 128.75 | 133.44 | 138.09 | 142.74 | 147.35 | 151.95 | 161.10 | 165.68 | 179.16 | 188.12 |       |
| 4500  | 62.55   | 73.53 | 78.96 | 84.39 | 89.78  | 95.16  | 100.50 | 105.84 | 111.15 | 116.46 | 121.71 | 126.96 | 132.17 | 137.37 | 142.55 | 147.72 | 152.84 | 157.95 | 163.01 | 168.08 | 178.20 | 183.17 | 198.09 | 148.57 |       |
| 5000  | 68.31   | 80.37 | 86.11 | 92.28 | 98.01  | 104.10 | 109.81 | 115.83 | 121.50 | 127.41 | 133.08 | 138.93 | 144.55 | 150.30 | 155.91 | 161.58 | 167.17 | 172.77 | 178.29 | 183.80 | 194.76 | 200.23 | 216.33 |        |       |
| 5500  | 73.95   | 87.03 | 93.51 | 99.99 | 106.41 | 112.83 | 119.19 | 125.55 | 131.84 | 138.12 | 144.35 | 150.57 | 156.72 | 162.87 | 168.96 | 175.05 | 181.08 | 187.11 | 193.04 | 198.96 | 210.81 | 158.11 |        |        |       |

| 8M-36 | Rated Horsepower for Small Sprocket<br>(Number of Teeth and Pitch Diameter, Inches) |        |        |        |        |        |        |        |        |        | Additional HP required per belt for speed ratio of speed down drive |         |         |         |         |         |         |         |         |         |          |  |  |  |
|-------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--|--|--|
|       | RPM Small Shaft   | 53     | 56     | 60     | 63     | 64     | 67     | 71     | 72     | 75     | 80  | 1.00 to | 1.03 to | 1.06 to | 1.11 to | 1.16 to | 1.22 to | 1.31 to | 1.44 to | 1.65 to | 2.16     |  |  |  |
|       |   | 5.314  | 5.610  | 6.015  | 6.316  | 6.420  | 6.717  | 7.118  | 7.220  | 7.519  | 8.020   | 1.02    | 1.05    | 1.10    | 1.15    | 1.21    | 1.30    | 1.43    | 1.64    | 2.15    | and over |  |  |  |
| 10    | 1.27  | 1.35   | 1.46   | 1.53   | 1.56   | 1.64   | 1.74   | 1.77   | 1.85   | 1.98   |   |         |         |         |         |         |         |         |         |         |          |  |  |  |
| 20    | 2.04  | 2.16   | 2.34   | 2.47   | 2.52   | 2.64   | 2.81   | 2.85   | 2.97   | 3.18   |   |         |         |         |         |         |         |         |         |         |          |  |  |  |
| 40    | 3.48  | 3.69   | 3.99   | 4.22   | 4.29   | 4.50   | 4.79   | 4.86   | 5.09   | 5.46   |   |         |         |         |         |         |         |         |         |         |          |  |  |  |
| 50    | 4.17  | 4.44   | 4.80   | 5.07   | 5.16   | 5.42   | 5.76   | 5.85   | 6.11   | 6.54   |   |         |         |         |         |         |         |         |         |         |          |  |  |  |
| 60    | 4.85  | 5.16   | 5.58   | 5.90   | 6.00   | 6.30   | 6.71   | 6.81   | 7.11   | 7.62   |   |         |         |         |         |         |         |         |         |         |          |  |  |  |
| 100   | 7.50  | 7.98   | 8.63   | 9.10   | 9.27   | 9.74   | 10.37  | 10.53  | 11.00  | 11.79  |   |         |         |         |         |         |         |         |         |         |          |  |  |  |
| 200   | 13.74   | 14.64  | 15.84  | 16.74  | 17.04  | 17.93  | 19.11  | 19.41  | 20.29  | 21.75  | 0.00  | 0.02    | 0.04    | 0.06    | 0.08    | 0.11    | 0.13    | 0.15    | 0.17    | 0.19    | 0.21     |  |  |  |
| 300   | 19.75   | 21.03  | 22.77  | 24.06  | 24.51  | 25.78  | 27.49  | 27.93  | 29.19  | 31.29  | 0.00  | 0.02    | 0.05    | 0.07    | 0.1     | 0.12    | 0.14    | 0.17    | 0.19    | 0.21    |          |  |  |  |
| 400   | 25.58   | 27.27  | 29.52  | 31.21  | 31.77  | 33.44  | 35.66  | 36.21  | 37.85  | 40.59  | 0.00  | 0.03    | 0.06    | 0.08    | 0.11    | 0.14    | 0.17    | 0.2     | 0.22    | 0.25    |          |  |  |  |
| 500   | 31.28   | 33.33  | 36.11  | 38.17  | 38.88  | 40.90  | 43.62  | 44.31  | 46.32  | 49.68  | 0.00  | 0.04    | 0.08    | 0.13    | 0.17    | 0.21    | 0.25    | 0.29    | 0.33    | 0.38    |          |  |  |  |
| 600   | 36.88   | 39.33  | 42.60  | 45.05  | 45.87  | 48.28  | 51.49  | 52.29  | 54.68  | 58.65  | 0.00  | 0.05    | 0.1     | 0.14    | 0.19    | 0.24    | 0.29    | 0.33    | 0.38    | 0.43    |          |  |  |  |
| 700   | 42.43   | 45.21  | 48.98  | 51.77  | 52.74  | 55.48  | 59.18  | 60.12  | 62.86  | 67.44  | 0.00  | 0.06    | 0.11    | 0.17    | 0.22    | 0.28    | 0.33    | 0.39    | 0.45    | 0.5     |          |  |  |  |
| 800   | 47.85   | 51.03  | 55.29  | 58.49  | 59.55  | 62.68  | 66.85  | 67.89  | 70.98  | 76.14  | 0.00  | 0.07    | 0.14    | 0.22    | 0.29    | 0.36    | 0.43    | 0.5     | 0.57    | 0.64    |          |  |  |  |
| 870   | 51.68   | 55.08  | 59.67  | 63.08  | 64.26  | 67.60  | 72.11  | 73.26  | 76.59  | 82.17  | 0.00  | 0.08    | 0.17    | 0.25    | 0.33    | 0.42    | 0.5     | 0.58    | 0.67    | 0.75    |          |  |  |  |
| 1000  | 58.58   | 62.49  | 67.71  | 71.63  | 72.93  | 76.76  | 81.86  | 83.13  | 86.92  | 93.24  | 0.00  | 0.1     | 0.19    | 0.29    | 0.38    | 0.48    | 0.57    | 0.67    | 0.76    | 0.86    |          |  |  |  |
| 1160  | 67.04   | 71.46  | 77.45  | 81.89  | 83.43  | 87.76  | 93.61  | 95.10  | 99.43  | 106.68 | 0.00  | 0.12    | 0.24    | 0.36    | 0.48    | 0.6     | 0.72    | 0.84    | 0.96    | 1.07    |          |  |  |  |
| 1200  | 69.07   | 73.68  | 79.85  | 84.47  | 86.01  | 90.53  | 96.56  | 98.07  | 102.55 | 110.01 | 0.00  | 0.14    | 0.27    | 0.41    | 0.55    | 0.69    | 0.82    | 0.96    | 1.1     | 1.24    |          |  |  |  |
| 1400  | 79.46   | 84.72  | 91.81  | 97.06  | 98.88  | 104.03 | 110.97 | 112.74 | 117.86 | 126.42 | 0.00  | 0.14    | 0.29    | 0.43    | 0.57    | 0.72    | 0.86    | 1       | 1.15    | 1.29    |          |  |  |  |
| 1600  | 89.57   | 95.58  | 103.56 | 109.55 | 111.54 | 117.39 | 125.19 | 127.14 | 132.92 | 142.56 | 0.00  | 0.17    | 0.33    | 0.49    | 0.66    | 0.82    | 0.99    | 1.15    | 1.32    | 1.48    |          |  |  |  |
| 1750  | 97.16   | 103.59 | 112.27 | 118.71 | 120.93 | 127.19 | 135.64 | 137.79 | 144.03 | 154.47 | 0.00  | 0.17    | 0.33    | 0.5     | 0.67    | 0.84    | 1       | 1.17    | 1.34    |         |          |  |  |  |

# SELECTION



## HT500 Basic HP Ratings - 8mm

| 8M-62<br>RPM<br>Small Shaft | Rated Horsepower for Small Sprocket<br>(Number of Teeth and Pitch Diameter, Inches) |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-----------------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 22  | 24     | 25     | 26     | 27     | 28     | 29     | 30     | 31     | 32     | 33     | 34     | 35     | 36     | 37     | 38     | 39     | 40     | 41     | 42     | 44     | 45     | 48     | 50     |
|                             | 2.210   | 2.410  | 2.506  | 2.610  | 2.707  | 2.810  | 2.907  | 3.010  | 3.108  | 3.210  | 3.308  | 3.410  | 3.509  | 3.610  | 3.709  | 3.810  | 3.910  | 4.010  | 4.110  | 4.211  | 4.410  | 4.511  | 4.810  | 5.013  |
| 10                          | 0.78  | 0.88   | 0.93   | 0.98   | 1.03   | 1.09   | 1.11   | 1.14   | 1.19   | 1.24   | 1.29   | 1.34   | 1.40   | 1.45   | 1.47   | 1.50   | 1.55   | 1.60   | 1.65   | 1.71   | 1.81   | 1.85   | 1.96   | 2.05   |
| 20                          | 1.19  | 1.34   | 1.42   | 1.50   | 1.57   | 1.65   | 1.73   | 1.81   | 1.88   | 1.96   | 2.04   | 2.12   | 2.20   | 2.27   | 2.35   | 2.43   | 2.51   | 2.58   | 2.65   | 2.71   | 2.84   | 2.92   | 3.15   | 3.30   |
| 40                          | 2.02  | 2.27   | 2.40   | 2.53   | 2.66   | 2.79   | 2.92   | 3.05   | 3.18   | 3.31   | 3.44   | 3.57   | 3.69   | 3.82   | 3.95   | 4.08   | 4.21   | 4.34   | 4.47   | 4.60   | 4.86   | 4.99   | 5.37   | 5.62   |
| 50                          | 2.38  | 2.69   | 2.84   | 3.00   | 3.15   | 3.31   | 3.46   | 3.62   | 3.77   | 3.93   | 4.08   | 4.24   | 4.39   | 4.55   | 4.70   | 4.86   | 5.01   | 5.17   | 5.32   | 5.48   | 5.79   | 5.94   | 6.41   | 6.72   |
| 60                          | 2.74  | 3.10   | 3.28   | 3.46   | 3.64   | 3.82   | 4.00   | 4.19   | 4.37   | 4.55   | 4.75   | 4.96   | 5.14   | 5.32   | 5.50   | 5.68   | 5.86   | 6.05   | 6.23   | 6.41   | 6.77   | 6.94   | 7.44   | 7.80   |
| 100                         | 4.13  | 4.70   | 4.98   | 5.27   | 5.55   | 5.84   | 6.12   | 6.41   | 6.68   | 6.98   | 7.25   | 7.54   | 7.82   | 8.11   | 8.39   | 8.68   | 8.96   | 9.25   | 9.53   | 9.82   | 10.39  | 10.67  | 11.52  | 12.08  |
| 200                         | 7.34  | 8.42   | 8.96   | 9.51   | 10.05  | 10.59  | 11.13  | 11.68  | 12.19  | 12.71  | 13.25  | 13.80  | 14.31  | 14.83  | 15.35  | 15.86  | 16.40  | 16.95  | 17.46  | 17.98  | 19.01  | 19.53  | 21.08  | 22.11  |
| 300                         | 10.44   | 11.99  | 12.73  | 13.54  | 14.29  | 15.09  | 15.84  | 16.64  | 17.37  | 18.14  | 18.90  | 19.69  | 20.45  | 21.24  | 21.98  | 22.73  | 23.48  | 24.23  | 25.00  | 25.76  | 27.28  | 28.04  | 30.28  | 31.78  |
| 400                         | 13.33   | 15.40  | 16.40  | 17.41  | 18.42  | 19.43  | 20.43  | 21.44  | 22.42  | 23.41  | 24.41  | 25.42  | 26.40  | 27.38  | 28.39  | 29.40  | 30.38  | 31.36  | 32.34  | 33.33  | 35.29  | 36.27  | 39.22  | 41.15  |
| 500                         | 16.17   | 18.70  | 19.90  | 21.18  | 22.38  | 23.66  | 24.87  | 26.14  | 27.33  | 28.57  | 29.77  | 31.00  | 32.23  | 33.48  | 34.69  | 35.91  | 37.10  | 38.29  | 39.50  | 40.72  | 43.14  | 44.35  | 47.90  | 50.30  |
| 600                         | 18.96   | 21.91  | 23.38  | 24.85  | 26.32  | 27.80  | 29.24  | 30.69  | 32.16  | 33.64  | 35.08  | 36.53  | 37.95  | 39.37  | 40.82  | 42.26  | 43.68  | 45.11  | 46.54  | 47.97  | 50.84  | 52.25  | 56.47  | 59.29  |
| 700                         | 21.70   | 25.11  | 26.73  | 28.47  | 30.12  | 31.88  | 33.51  | 35.24  | 36.88  | 38.60  | 40.22  | 41.90  | 43.54  | 45.21  | 46.85  | 48.52  | 50.17  | 51.82  | 53.47  | 55.11  | 58.38  | 60.05  | 64.95  | 68.22  |
| 800                         | 24.34   | 28.21  | 30.12  | 32.03  | 33.95  | 35.86  | 37.77  | 39.68  | 41.57  | 43.45  | 45.34  | 47.22  | 49.11  | 51.00  | 52.86  | 54.72  | 56.58  | 58.44  | 60.30  | 62.16  | 65.88  | 67.72  | 73.26  | 76.92  |
| 870                         | 26.20   | 30.38  | 32.37  | 34.51  | 36.52  | 38.65  | 40.63  | 42.73  | 44.75  | 46.86  | 48.84  | 50.89  | 52.91  | 54.97  | 56.98  | 59.00  | 61.02  | 63.03  | 65.04  | 67.05  | 71.04  | 73.07  | 79.05  | 83.06  |
| 1000                        | 29.55   | 34.31  | 36.66  | 39.01  | 41.36  | 43.71  | 46.06  | 48.41  | 50.74  | 53.06  | 55.36  | 57.66  | 59.99  | 62.31  | 64.61  | 66.91  | 69.18  | 71.46  | 73.74  | 76.03  | 80.60  | 82.86  | 89.64  | 94.14  |
| 1160                        | 33.64   | 39.06  | 41.67  | 44.49  | 47.09  | 49.86  | 52.48  | 55.23  | 57.84  | 60.55  | 63.17  | 65.88  | 68.51  | 71.20  | 73.82  | 76.47  | 79.07  | 81.69  | 84.31  | 86.92  | 92.12  | 94.76  | 102.51 | 107.72 |
| 1200                        | 34.62   | 40.25  | 43.04  | 45.83  | 48.62  | 51.41  | 54.17  | 56.94  | 59.68  | 62.41  | 65.15  | 67.89  | 70.63  | 73.37  | 76.08  | 78.79  | 81.50  | 84.22  | 86.92  | 89.62  | 95.02  | 97.69  | 105.71 | 111.01 |
| 1400                        | 39.58   | 46.09  | 49.17  | 52.49  | 55.60  | 58.90  | 62.02  | 65.31  | 68.42  | 71.66  | 74.76  | 77.97  | 81.08  | 84.27  | 87.38  | 90.52  | 93.64  | 96.77  | 99.89  | 102.99 | 109.17 | 112.29 | 121.47 | 127.66 |
| 1600                        | 44.43   | 51.77  | 55.41  | 59.06  | 62.70  | 66.34  | 69.93  | 73.52  | 77.11  | 80.70  | 84.27  | 87.83  | 91.40  | 94.96  | 98.50  | 102.04 | 105.56 | 109.07 | 112.58 | 116.10 | 123.12 | 126.60 | 137.02 | 143.92 |
| 1750                        | 48.05   | 56.01  | 59.82  | 63.91  | 67.72  | 71.77  | 75.59  | 79.62  | 83.44  | 87.42  | 91.23  | 95.17  | 98.98  | 102.87 | 106.70 | 110.57 | 114.39 | 118.21 | 122.04 | 125.86 | 133.46 | 137.28 | 148.54 | 156.11 |
| 2000                        | 53.94   | 62.93  | 67.40  | 71.87  | 76.31  | 80.76  | 85.20  | 89.64  | 94.03  | 98.43  | 102.82 | 107.21 | 111.57 | 115.94 | 120.28 | 124.62 | 128.93 | 133.25 | 137.54 | 141.83 | 150.40 | 154.66 | 167.45 | 175.87 |
| 2400                        | 63.09   | 73.73  | 78.83  | 84.32  | 89.43  | 94.86  | 99.94  | 105.30 | 110.41 | 115.73 | 120.82 | 126.07 | 131.15 | 136.35 | 141.43 | 146.58 | 151.69 | 156.81 | 161.89 | 166.97 | 177.06 | 182.15 | 197.11 | 207.14 |
| 2800                        | 72.02   | 84.32  | 90.39  | 96.46  | 102.53 | 108.60 | 114.62 | 120.64 | 126.61 | 132.58 | 138.54 | 144.51 | 150.43 | 156.34 | 162.21 | 168.07 | 173.94 | 179.80 | 185.61 | 191.43 | 203.05 | 208.79 | 225.99 | 237.31 |
| 3200                        | 80.76   | 94.60  | 101.22 | 108.35 | 114.98 | 122.04 | 128.65 | 135.63 | 142.23 | 149.11 | 155.72 | 162.54 | 169.14 | 175.87 | 182.45 | 189.10 | 195.68 | 202.28 | 208.84 | 215.39 | 228.42 | 234.96 | 254.20 | 267.06 |
| 3500                        | 87.16   | 102.20 | 109.66 | 117.13 | 124.54 | 131.96 | 139.32 | 146.68 | 153.99 | 161.30 | 168.56 | 175.82 | 183.03 | 190.24 | 197.42 | 204.60 | 211.73 | 218.86 | 225.91 | 232.97 | 247.07 | 254.03 | 274.92 | 288.57 |
| 4000                        | 97.60   | 114.55 | 122.66 | 131.39 | 139.50 | 148.13 | 156.21 | 164.71 | 172.76 | 181.14 | 189.20 | 197.52 | 205.55 | 213.75 | 221.73 | 229.81 | 237.82 | 245.83 | 253.77 | 261.70 | 277.45 | 285.34 | 308.55 | 323.98 |
| 4500                        | 107.73  | 126.64 | 135.99 | 145.34 | 154.61 | 163.89 | 173.08 | 182.28 | 191.43 | 200.57 | 209.61 | 218.65 | 227.62 | 236.58 | 245.49 | 254.41 | 263.22 | 272.03 | 280.74 | 289.46 | 306.90 | 315.46 | 341.16 | 255.87 |
| 5000                        | 117.65  | 138.42 | 148.30 | 158.93 | 168.79 | 179.28 | 189.12 | 199.49 | 209.25 | 219.43 | 229.19 | 239.27 | 248.95 | 258.85 | 268.51 | 278.28 | 287.91 | 297.55 | 307.06 | 316.55 | 335.42 | 344.84 | 372.57 | 278.14 |
| 5500                        | 127.36  | 149.89 | 161.05 | 172.21 | 183.26 | 194.32 | 205.27 | 216.23 | 227.05 | 237.87 | 248.59 | 259.32 | 269.91 | 280.50 | 290.99 | 301.48 | 311.86 | 322.25 | 332.45 | 342.65 | 363.06 | 272.30 |        |        |

| 8M-62<br>RPM<br>Small Shaft | Rated Horsepower for Small Sprocket<br>(Number of Teeth and Pitch Diameter, Inches) |        |        |        |        |        |        |        |        |        | Additional HP required per belt for speed ratio of speed down drive |         |         |         |         |         |         |         |         |          |      |  |  |
|-----------------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|---------|---------|---------|---------|---------|---------|---------|---------|----------|------|--|--|
|                             | 53  | 56     | 60     | 63     | 64     | 67     | 71     | 72     | 75     | 80     | 1.00 to   | 1.03 to | 1.06 to | 1.11 to | 1.16 to | 1.22 to | 1.31 to | 1.44 to | 1.65 to | 2.16     |      |  |  |
|                             | 5.314   | 5.610  | 6.015  | 6.316  | 6.420  | 6.717  | 7.118  | 7.220  | 7.519  | 8.020  | 1.02  | 1.05    | 1.10    | 1.15    | 1.21    | 1.30    | 1.43    | 1.64    | 2.15    | and over |      |  |  |
| 10                          | 2.19  | 2.33   | 2.51   | 2.64   | 2.69   | 2.82   | 3.00   | 3.05   | 3.18   | 3.41   |   |         |         |         |         |         |         |         |         |          |      |  |  |
| 20                          | 3.51  | 3.72   | 4.03   | 4.26   | 4.34   | 4.55   | 4.84   | 4.91   | 5.12   | 5.48   |   |         |         |         |         |         |         |         |         |          |      |  |  |
| 40                          | 5.99  | 6.36   | 6.87   | 7.26   | 7.39   | 7.76   | 8.25   | 8.37   | 8.76   | 9.40   |   |         |         |         |         |         |         |         |         |          |      |  |  |
| 50                          | 7.19  | 7.65   | 8.27   | 8.73   | 8.89   | 9.33   | 9.92   | 10.08  | 10.52  | 11.26  |   |         |         |         |         |         |         |         |         |          |      |  |  |
| 60                          | 8.34  | 8.89   | 9.61   | 10.15  | 10.33  | 10.86  | 11.55  | 11.73  | 12.25  | 13.12  |   |         |         |         |         |         |         |         |         |          |      |  |  |
| 100                         | 12.92   | 13.74  | 14.86  | 15.68  | 15.97  | 16.77  | 17.86  | 18.14  | 18.95  | 20.31  |   |         |         |         |         |         |         |         |         |          |      |  |  |
| 200                         | 23.66   | 25.21  | 27.28  | 28.83  | 29.35  | 30.88  | 32.92  | 33.43  | 34.94  | 37.46  | 0.00  | 0.04    | 0.07    | 0.11    | 0.14    | 0.18    | 0.22    | 0.25    | 0.29    | 0.33     | 0.37 |  |  |
| 300                         | 34.02   | 36.22  | 39.22  | 41.44  | 42.21  | 44.40  | 47.35  | 48.10  | 50.27  | 53.89  | 0.00  | 0.04    | 0.08    | 0.12    | 0.16    | 0.21    | 0.25    | 0.29    | 0.34    | 0.38     | 0.43 |  |  |
| 400                         | 44.06   | 46.97  | 50.84  | 53.75  | 54.72  | 57.58  | 61.41  | 62.36  | 65.19  | 69.91  | 0.00  | 0.05    | 0.1     | 0.14    | 0.19    | 0.24    | 0.29    | 0.34    | 0.38    | 0.43     |      |  |  |
| 500                         | 53.88   | 57.40  | 62.18  | 65.73  | 66.96  | 70.43  | 75.12  | 76.31  | 79.77  | 85.56  | 0.00  | 0.07    | 0.14    | 0.22    | 0.29    | 0.36    | 0.43    | 0.5     | 0.58    | 0.65     |      |  |  |
| 600                         | 63.51   | 67.74  | 73.37  | 77.59  | 79.00  | 83.14  | 88.67  | 90.06  | 94.16  | 101.01 | 0.00  | 0.08    | 0.16    | 0.25    | 0.33    | 0.41    | 0.49    | 0.58    | 0.66    | 0.74     |      |  |  |
| 700                         | 73.07   | 77.86  | 84.35  | 89.17  | 90.83  | 95.55  | 101.92 | 103.54 | 108.25 | 116.15 | 0.00  | 0.1     | 0.19    | 0.29    | 0.38    | 0.48    | 0.57    | 0.67    | 0.77    | 0.86     |      |  |  |
| 800                         | 82.40   | 87.89  | 95.22  | 100.72 | 102.56 | 107.94 | 115.13 | 116.92 | 122.25 | 131.13 | 0.00  | 0.12    | 0.25    | 0.37    | 0.49    | 0.62    | 0.74    | 0.86    | 0.99    | 1.11     |      |  |  |
| 870                         | 89.00   | 94.86  | 102.77 | 108.64 | 110.67 | 116.43 | 124.20 | 126.17 | 131.91 | 141.52 | 0.00  | 0.14    | 0.29    | 0.43    | 0.58    | 0.72    | 0.86    | 1.01    | 1.15    | 1.29     |      |  |  |
| 1000                        | 100.88  | 107.62 | 116.61 | 123.35 | 125.60 | 132.19 | 140.97 | 143.17 | 149.70 | 160.58 | 0.00  | 0.16    | 0.33    | 0.49    | 0.66    | 0.82    | 0.99    | 1.15    | 1.32    | 1.48     |      |  |  |
| 1160                        | 115.45  | 123.07 | 133.39 | 141.04 | 143.69 | 151.15 | 161.22 | 163.78 | 171.24 | 183.73 | 0.00  | 0.21    | 0.41    | 0.62    | 0.82    | 1.03    | 1.23    | 1.44    | 1.64    | 1.85     |      |  |  |
| 1200                        | 118.95  | 126.89 | 137.51 | 145.47 | 148.13 | 155.92 | 166.30 | 168.90 | 176.61 | 189.46 | 0.00  | 0.24    | 0.47    | 0.71    | 0.95    | 1.18    | 1.42    | 1.65    | 1.89    | 2.13     |      |  |  |
| 1400                        | 136.85  | 145.91 | 158.11 | 167.16 | 170.29 | 179.16 | 191.12 | 194.16 | 202.97 | 217.72 | 0.00  | 0.25    | 0.49    | 0.74    | 0.99    | 1.23    | 1.48    | 1.73    | 1.97    | 2.22     |      |  |  |
| 1600                        | 154.26  | 164.61 | 178.35 | 188.66 | 192.10 | 202.17 | 215.61 | 218.96 | 228.92 | 245.52 | 0.00  | 0.28    | 0.57    | 0.85    | 1.13    | 1.42    | 1.7     | 1.99    | 2.27    | 2.55     |      |  |  |



# SELECTION

## HT500 Basic HP Ratings - 14mm

| 14M-20 | Rated Horsepower for Small Sprocket<br>(Number of Teeth and Pitch Diameter, Inches) |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|--------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|        | RPM Small Shaft   | 28     | 29     | 30     | 31     | 32     | 33     | 34     | 35     | 36     | 37     | 38     | 39     | 40     | 41     | 42     | 44     | 45     | 48     |
|        | 4.912   | 5.088  | 5.263  | 5.439  | 5.614  | 5.790  | 5.965  | 6.141  | 6.316  | 6.492  | 6.667  | 6.842  | 7.018  | 7.193  | 7.369  | 7.720  | 7.895  | 8.421  | 8.772  |
| 10     | 1.17  | 1.22   | 1.27   | 1.32   | 1.36   | 1.41   | 1.45   | 1.50   | 1.54   | 1.59   | 1.63   | 1.68   | 1.72   | 1.77   | 1.82   | 1.91   | 1.96   | 2.09   | 2.18   |
| 20     | 1.84  | 1.92   | 1.99   | 2.07   | 2.14   | 2.21   | 2.28   | 2.36   | 2.43   | 2.51   | 2.58   | 2.65   | 2.72   | 2.79   | 2.86   | 3.01   | 3.08   | 3.30   | 3.45   |
| 40     | 3.06  | 3.18   | 3.31   | 3.44   | 3.56   | 3.69   | 3.81   | 3.94   | 4.06   | 4.19   | 4.31   | 4.43   | 4.55   | 4.67   | 4.80   | 5.04   | 5.16   | 5.53   | 5.78   |
| 60     | 4.20  | 4.37   | 4.55   | 4.72   | 4.89   | 5.07   | 5.24   | 5.42   | 5.59   | 5.76   | 5.93   | 6.10   | 6.27   | 6.44   | 6.61   | 6.95   | 7.12   | 7.63   | 7.97   |
| 100    | 6.35  | 6.62   | 6.88   | 7.15   | 7.42   | 7.69   | 7.95   | 8.22   | 8.48   | 8.75   | 9.01   | 9.27   | 9.53   | 9.79   | 10.05  | 10.57  | 10.83  | 11.61  | 12.13  |
| 200    | 11.33   | 11.82  | 12.31  | 12.80  | 13.28  | 13.76  | 14.24  | 14.72  | 15.20  | 15.68  | 16.16  | 16.63  | 17.11  | 17.58  | 18.05  | 19.00  | 19.47  | 20.88  | 21.81  |
| 300    | 15.99   | 16.69  | 17.39  | 18.08  | 18.77  | 19.46  | 20.15  | 20.84  | 21.52  | 22.20  | 22.88  | 23.56  | 24.23  | 24.91  | 25.58  | 26.93  | 27.60  | 29.59  | 30.92  |
| 400    | 20.46   | 21.36  | 22.25  | 23.14  | 24.03  | 24.92  | 25.80  | 26.68  | 27.56  | 28.44  | 29.32  | 30.19  | 31.06  | 31.93  | 32.79  | 34.53  | 35.39  | 37.96  | 39.66  |
| 500    | 24.76   | 25.86  | 26.95  | 28.04  | 29.12  | 30.20  | 31.27  | 32.35  | 33.42  | 34.49  | 35.55  | 36.61  | 37.67  | 38.73  | 39.78  | 41.89  | 42.93  | 46.06  | 48.13  |
| 600    | 28.95   | 30.24  | 31.52  | 32.80  | 34.07  | 35.34  | 36.60  | 37.86  | 39.12  | 40.37  | 41.62  | 42.86  | 44.11  | 45.34  | 46.58  | 49.05  | 50.27  | 53.94  | 56.37  |
| 700    | 33.04   | 34.52  | 35.98  | 37.44  | 38.90  | 40.35  | 41.80  | 43.25  | 44.69  | 46.12  | 47.55  | 48.98  | 50.40  | 51.82  | 53.23  | 56.06  | 57.46  | 61.65  | 64.43  |
| 800    | 37.05   | 38.71  | 40.35  | 42.00  | 43.64  | 45.27  | 46.90  | 48.52  | 50.14  | 51.75  | 53.36  | 54.96  | 56.57  | 58.16  | 59.74  | 62.92  | 64.49  | 69.20  | 72.32  |
| 870    | 39.81   | 41.59  | 43.37  | 45.14  | 46.90  | 48.66  | 50.41  | 52.16  | 53.90  | 55.64  | 57.37  | 59.10  | 60.82  | 62.53  | 64.24  | 67.65  | 69.34  | 74.41  | 77.76  |
| 1000   | 44.84   | 46.86  | 48.86  | 50.86  | 52.85  | 54.84  | 56.82  | 58.79  | 60.76  | 62.72  | 64.68  | 66.62  | 68.57  | 70.50  | 72.42  | 76.28  | 78.18  | 83.90  | 87.67  |
| 1160   | 50.89   | 53.19  | 55.47  | 57.75  | 60.02  | 62.28  | 64.53  | 66.78  | 69.02  | 71.25  | 73.47  | 75.68  | 77.89  | 80.08  | 82.28  | 86.66  | 88.82  | 95.30  | 99.58  |
| 1200   | 52.38   | 54.75  | 57.10  | 59.44  | 61.78  | 64.11  | 66.43  | 68.74  | 71.05  | 73.34  | 75.63  | 77.91  | 80.19  | 82.44  | 84.70  | 89.21  | 91.43  | 98.11  | 102.52 |
| 1400   | 59.70   | 62.42  | 65.10  | 67.78  | 70.46  | 73.12  | 75.77  | 78.41  | 81.05  | 83.67  | 86.28  | 88.88  | 91.48  | 94.05  | 96.62  | 101.76 | 104.29 | 111.89 | 116.90 |
| 1600   | 66.84   | 69.89  | 72.91  | 75.92  | 78.91  | 81.89  | 84.87  | 87.83  | 90.78  | 93.72  | 96.65  | 99.55  | 102.46 | 105.33 | 108.21 | 113.97 | 116.79 | 125.28 | 130.87 |
| 1750   | 72.09   | 75.38  | 78.63  | 81.88  | 85.12  | 88.34  | 91.55  | 94.74  | 97.93  | 101.09 | 104.25 | 107.39 | 110.52 | 113.62 | 116.72 | 122.91 | 125.95 | 135.08 | 141.08 |
| 2000   | 80.63   | 84.32  | 87.96  | 91.60  | 95.23  | 98.83  | 102.43 | 105.99 | 109.55 | 113.08 | 116.61 | 120.11 | 123.61 | 127.06 | 130.51 | 137.41 | 140.79 | 150.94 | 157.60 |
| 2400   | 93.82   | 98.12  | 102.37 | 106.60 | 110.82 | 115.00 | 119.18 | 123.32 | 127.45 | 131.54 | 135.63 | 139.68 | 143.72 | 147.70 | 151.67 | 159.62 | 163.50 | 175.15 | 182.75 |
| 2800   | 106.48  | 111.36 | 116.18 | 120.97 | 125.75 | 130.48 | 135.20 | 139.87 | 144.53 | 149.14 | 153.74 | 158.28 | 162.83 | 167.27 | 171.72 | 180.63 | 184.95 | 197.93 |        |
| 3000   | 112.61  | 117.77 | 122.86 | 127.92 | 132.97 | 137.96 | 142.94 | 147.86 | 152.77 | 157.62 | 162.46 | 167.24 | 172.01 | 176.68 | 181.35 | 190.68 |        |        |        |
| 3500   | 127.41  | 133.22 | 138.96 | 144.65 | 150.32 | 155.91 | 161.49 | 166.98 | 172.47 | 177.87 | 183.26 | 188.56 | 193.86 |        |        |        |        |        |        |
| 4000   | 141.44  | 147.86 | 154.18 | 160.43 | 166.68 | 172.80 | 178.92 | 184.91 | 190.90 |        |        |        |        |        |        |        |        |        |        |

| 14M-20 | Rated Horsepower for Small Sprocket<br>(Number of Teeth and Pitch Diameter, Inches) |        |        |        |        |        |        |        |        |        |        | Additional HP required per belt for speed ratio of speed down drive |              |              |              |              |              |              |              |              |              |               |
|--------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|
|        | RPM Small Shaft   | 52     | 53     | 56     | 60     | 63     | 64     | 67     | 71     | 72     | 75     | 80  | 1.00 to 1.03 | 1.04 to 1.10 | 1.11 to 1.19 | 1.20 to 1.30 | 1.31 to 1.45 | 1.46 to 1.67 | 1.68 to 2.02 | 2.03 to 2.69 | 2.70 to 4.64 | 4.65 and over |
| 10     | 2.27  | 2.31   | 2.44   | 2.62   | 2.76   | 2.80   | 2.94   | 3.12   | 3.16   | 3.29   | 3.51   |   |              |              |              |              |              |              |              |              |              |               |
| 20     | 3.59  | 3.66   | 3.88   | 4.16   | 4.38   | 4.45   | 4.66   | 4.94   | 5.01   | 5.22   | 5.57   |   |              |              |              |              |              |              |              |              |              |               |
| 40     | 6.02  | 6.14   | 6.50   | 6.98   | 7.34   | 7.46   | 7.82   | 8.29   | 8.41   | 8.77   | 9.36   |   |              |              |              |              |              |              |              |              |              |               |
| 60     | 8.30  | 8.47   | 8.97   | 9.63   | 10.13  | 10.30  | 10.79  | 11.45  | 11.61  | 12.10  | 12.92  |   |              |              |              |              |              |              |              |              |              |               |
| 100    | 12.64   | 12.90  | 13.66  | 14.68  | 15.44  | 15.69  | 16.44  | 17.44  | 17.69  | 18.44  | 19.68  |   |              |              |              |              |              |              |              |              |              |               |
| 200    | 22.74   | 23.20  | 24.59  | 26.42  | 27.79  | 28.25  | 29.61  | 31.43  | 31.88  | 33.22  | 35.46  | 0.00  | 0.04         | 0.09         | 0.13         | 0.18         | 0.22         | 0.27         | 0.31         | 0.36         | 0.4          |               |
| 300    | 32.24   | 32.90  | 34.87  | 37.48  | 39.43  | 40.08  | 42.01  | 44.58  | 45.22  | 47.13  | 50.31  | 0.00  | 0.05         | 0.1          | 0.15         | 0.2          | 0.25         | 0.3          | 0.36         | 0.41         | 0.46         |               |
| 400    | 41.36   | 42.21  | 44.74  | 48.08  | 50.59  | 51.43  | 53.90  | 57.21  | 58.03  | 60.47  | 64.55  | 0.00  | 0.06         | 0.12         | 0.18         | 0.24         | 0.3          | 0.36         | 0.42         | 0.47         | 0.53         |               |
| 500    | 50.19   | 51.22  | 54.30  | 58.36  | 61.41  | 62.42  | 65.42  | 69.42  | 70.42  | 73.39  | 78.33  | 0.00  | 0.06         | 0.12         | 0.18         | 0.24         | 0.3          | 0.36         | 0.42         | 0.47         | 0.53         |               |
| 600    | 58.80   | 60.00  | 63.61  | 68.36  | 71.93  | 73.12  | 76.63  | 81.31  | 82.48  | 85.94  | 91.72  | 0.00  | 0.09         | 0.18         | 0.27         | 0.36         | 0.44         | 0.53         | 0.62         | 0.71         | 0.8          |               |
| 700    | 67.20   | 68.58  | 72.70  | 78.13  | 82.20  | 83.56  | 87.57  | 92.91  | 94.25  | 98.20  | 104.78 | 0.00  | 0.1          | 0.2          | 0.3          | 0.41         | 0.51         | 0.61         | 0.71         | 0.81         | 0.91         |               |
| 800    | 75.43   | 76.97  | 81.60  | 87.69  | 92.25  | 93.78  | 98.27  | 104.25 | 105.75 | 110.17 | 117.54 | 0.00  | 0.12         | 0.24         | 0.35         | 0.47         | 0.59         | 0.71         | 0.83         | 0.95         | 1.06         |               |
| 870    | 81.10   | 82.76  | 87.73  | 94.27  | 99.18  | 100.81 | 105.63 | 112.05 | 113.66 | 118.40 | 126.30 | 0.00  | 0.15         | 0.3          | 0.46         | 0.61         | 0.76         | 0.91         | 1.07         | 1.22         | 1.37         |               |
| 1000   | 91.44   | 93.31  | 98.91  | 106.26 | 111.78 | 113.62 | 119.03 | 126.25 | 128.05 | 133.36 | 142.21 | 0.00  | 0.18         | 0.36         | 0.53         | 0.71         | 0.89         | 1.07         | 1.24         | 1.42         | 1.6          |               |
| 1160   | 103.86  | 105.98 | 112.32 | 120.65 | 126.89 | 128.97 | 135.08 | 143.22 | 145.25 | 151.23 | 161.20 | 0.00  | 0.2          | 0.41         | 0.61         | 0.81         | 1.02         | 1.22         | 1.42         | 1.62         | 1.83         |               |
| 1200   | 106.92  | 109.10 | 115.62 | 124.18 | 130.60 | 132.74 | 139.01 | 147.38 | 149.47 | 155.61 | 165.85 | 0.00  | 0.25         | 0.51         | 0.76         | 1.02         | 1.27         | 1.52         | 1.78         | 2.03         | 2.28         |               |
| 1400   | 121.91  | 124.38 | 131.79 | 141.49 | 148.76 | 151.18 | 158.26 | 167.70 | 170.06 | 176.97 | 188.48 | 0.00  | 0.29         | 0.58         | 0.88         | 1.17         | 1.46         | 1.75         | 2.04         | 2.33         | 2.63         |               |
| 1600   | 136.45  | 139.20 | 147.45 | 158.21 | 166.28 | 168.98 | 176.80 | 187.24 | 189.85 | 197.44 | 210.10 | 0.00  | 0.3          | 0.61         | 0.91         | 1.22         | 1.52         | 1.83         | 2.13         | 2.44         | 2.74         |               |
| 1750   | 147.07  | 150.02 | 158.87 | 170.39 | 179.02 | 181.90 | 190.25 | 201.38 | 204.16 | 212.22 | 225.66 | 0.00  | 0.35         | 0.7          | 1.05         | 1.4          | 1.75         | 2.1          | 2.45         | 2.8          | 3.15         |               |
| 2000   | 164.24  | 167.51 | 177.29 | 189.97 | 199.47 | 202.65 |        |        |        |        |        | 0.00  | 0.36         | 0.71         | 1.07         | 1.42         | 1.78         | 2.13         | 2.49         | 2.84         | 3.2          |               |
| 2400   | 190.34  | 194.05 | 205.17 |        |        |        |        |        |        |        |        | 0.00  | 0.41         | 0.81         | 1.22         | 1.62         | 2.03         | 2.44         | 2.84         | 3.25         | 3.65         |               |
| 2800   |   |        |        |        |        |        |        |        |        |        |        | 0.00  | 0.44         | 0.88         | 1.32         | 1.77         | 2.21         | 2.65         | 3.09         | 3.53         | 3.97         |               |
| 3000   |   |        |        |        |        |        |        |        |        |        |        | 0.00  | 0.46         | 0.91         | 1.37         | 1.83         | 2.28         | 2.74         | 3.2          | 3.65         | 4.11         |               |
| 3500   |   |        |        |        |        |        |        |        |        |        |        | 0.00  | 0.51         | 1.01         | 1.52         | 2.03         | 2.54         | 3.04         | 3.55         | 4.06         | 4.57         |               |
| 4000   |   |        |        |        |        |        |        |        |        |        |        | 0.00  | 0.59         | 1.18         | 1.77         | 2.35         | 2.94         | 3.53         | 4.12         | 4.71         | 5.3          |               |
|        |   |        |        |        |        |        |        |        |        |        |        | 0.00  | 0.89         | 1.78         | 2.66         | 3.55         | 4.44         | 5.33         | 6.22         | 7.1          | 7.99         |               |
|        |   |        |        |        |        |        |        |        |        |        |        | 0.00  | 1.02         | 2.03         | 3.04         | 4.06         | 5.08         | 6.09         | 7.1          | 8.12         | 9.13         |               |
|        |   |        |        |        |        |        |        |        |        |        |        | 0.00  | 1.52         | 3.04         | 4.57         | 6.09         | 7.61         | 9.13         | 10.7         | 12.2         | 13.7         |               |
|        |   |        |        |        |        |        |        |        |        |        |        | 0.00  | 1.75         | 3.5          | 5.25         | 7            | 8.75         | 10.5         | 12.3         | 14           | 15.8         |               |
|        |   |        |        |        |        |        |        |        |        |        |        | 0.00  | 2.03         | 4.06         | 6.09         | 8.12         | 10.2         | 12.2         | 14.2         | 16.2         | 18.3         |               |

Selection program available online at [ptwizard.com](http://ptwizard.com)



# SELECTION



## HT500 Basic HP Ratings - 14mm

| 14M-37<br>RPM<br>Small Shaft | Rated Horsepower for Small Sprocket<br>(Number of Teeth and Pitch Diameter, Inches) |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|------------------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                              | 28  | 29     | 30     | 31     | 32     | 33     | 34     | 35     | 36     | 37     | 38     | 39     | 40     | 41     | 42     | 44     | 45     | 48     | 50     |
|                              | 4.912   | 5.088  | 5.263  | 5.439  | 5.614  | 5.790  | 5.965  | 6.141  | 6.316  | 6.492  | 6.667  | 6.842  | 7.018  | 7.193  | 7.369  | 7.720  | 7.895  | 8.421  | 8.772  |
| 10                           | 2.16  | 2.26   | 2.35   | 2.43   | 2.52   | 2.60   | 2.68   | 2.77   | 2.85   | 2.93   | 3.02   | 3.10   | 3.18   | 3.27   | 3.36   | 3.53   | 3.62   | 3.87   | 4.03   |
| 20                           | 3.40  | 3.55   | 3.68   | 3.82   | 3.96   | 4.09   | 4.22   | 4.36   | 4.50   | 4.63   | 4.77   | 4.90   | 5.03   | 5.17   | 5.30   | 5.57   | 5.70   | 6.11   | 6.37   |
| 40                           | 5.66  | 5.88   | 6.12   | 6.35   | 6.59   | 6.82   | 7.05   | 7.28   | 7.51   | 7.74   | 7.97   | 8.20   | 8.42   | 8.64   | 8.87   | 9.32   | 9.55   | 10.23  | 10.68  |
| 60                           | 7.77  | 8.08   | 8.42   | 8.73   | 9.05   | 9.37   | 9.69   | 10.02  | 10.34  | 10.66  | 10.97  | 11.28  | 11.60  | 11.91  | 12.23  | 12.86  | 13.17  | 14.12  | 14.74  |
| 100                          | 11.75   | 12.25  | 12.73  | 13.23  | 13.73  | 14.22  | 14.71  | 15.20  | 15.69  | 16.18  | 16.67  | 17.15  | 17.63  | 18.11  | 18.59  | 19.55  | 20.04  | 21.48  | 22.43  |
| 200                          | 20.96   | 21.87  | 22.77  | 23.67  | 24.57  | 25.46  | 26.34  | 27.23  | 28.12  | 29.01  | 29.90  | 30.77  | 31.65  | 32.53  | 33.40  | 35.15  | 36.02  | 38.63  | 40.35  |
| 300                          | 29.58   | 30.88  | 32.17  | 33.45  | 34.72  | 36.00  | 37.28  | 38.54  | 39.81  | 41.07  | 42.33  | 43.58  | 44.83  | 46.07  | 47.32  | 49.82  | 51.05  | 54.74  | 57.19  |
| 400                          | 37.85   | 39.52  | 41.16  | 42.81  | 44.46  | 46.09  | 47.73  | 49.36  | 50.99  | 52.61  | 54.24  | 55.85  | 57.46  | 59.06  | 60.67  | 63.88  | 65.47  | 70.23  | 73.37  |
| 500                          | 45.81   | 47.84  | 49.86  | 51.86  | 53.87  | 55.86  | 57.85  | 59.84  | 61.83  | 63.80  | 65.77  | 67.73  | 69.69  | 71.64  | 73.59  | 77.50  | 79.43  | 85.21  | 89.03  |
| 600                          | 53.56   | 55.94  | 58.31  | 60.68  | 63.03  | 65.37  | 67.71  | 70.04  | 72.37  | 74.68  | 77.00  | 79.30  | 81.60  | 83.89  | 86.17  | 90.74  | 93.00  | 99.79  | 104.29 |
| 700                          | 61.12   | 63.86  | 66.56  | 69.26  | 71.97  | 74.65  | 77.33  | 80.00  | 82.68  | 85.32  | 87.97  | 90.60  | 93.24  | 95.86  | 98.48  | 103.71 | 106.30 | 114.05 | 119.19 |
| 800                          | 68.54   | 71.61  | 74.65  | 77.70  | 80.73  | 83.75  | 86.77  | 89.76  | 92.76  | 95.74  | 98.72  | 101.68 | 104.65 | 107.59 | 110.52 | 116.40 | 119.30 | 128.02 | 133.79 |
| 870                          | 73.65   | 76.94  | 80.23  | 83.50  | 86.77  | 90.01  | 93.26  | 96.49  | 99.72  | 102.92 | 106.13 | 109.33 | 112.52 | 115.68 | 118.83 | 125.15 | 128.28 | 137.66 | 143.85 |
| 1000                         | 82.95   | 86.69  | 90.39  | 94.09  | 97.77  | 101.45 | 105.12 | 108.76 | 112.41 | 116.03 | 119.66 | 123.25 | 126.85 | 130.42 | 133.98 | 141.12 | 144.64 | 155.22 | 162.20 |
| 1160                         | 94.15   | 98.40  | 102.62 | 106.83 | 111.04 | 115.21 | 119.38 | 123.53 | 127.69 | 131.80 | 135.92 | 140.01 | 144.10 | 148.15 | 152.21 | 160.32 | 164.32 | 176.31 | 184.22 |
| 1200                         | 96.90   | 101.29 | 105.64 | 109.97 | 114.29 | 118.60 | 122.90 | 127.17 | 131.44 | 135.68 | 139.92 | 144.13 | 148.35 | 152.52 | 156.69 | 165.04 | 169.15 | 181.50 | 189.66 |
| 1400                         | 110.45  | 115.48 | 120.44 | 125.39 | 130.35 | 135.26 | 140.17 | 145.06 | 149.94 | 154.78 | 159.62 | 164.43 | 169.24 | 173.99 | 178.75 | 188.26 | 192.94 | 207.00 | 216.27 |
| 1600                         | 123.65  | 129.30 | 134.88 | 140.44 | 145.98 | 151.50 | 157.01 | 162.48 | 167.94 | 173.37 | 178.80 | 184.17 | 189.55 | 194.87 | 200.19 | 210.84 | 216.07 | 231.77 | 242.11 |
| 1750                         | 133.37  | 139.45 | 145.47 | 151.47 | 157.47 | 163.42 | 169.37 | 175.27 | 181.17 | 187.02 | 192.86 | 198.66 | 204.46 | 210.19 | 215.92 | 227.38 | 233.01 | 249.90 | 260.99 |
| 2000                         | 149.17  | 155.99 | 162.73 | 169.46 | 176.18 | 182.84 | 189.50 | 196.09 | 202.67 | 209.20 | 215.73 | 222.20 | 228.68 | 235.05 | 241.43 | 254.21 | 260.46 | 279.24 | 291.55 |
| 2400                         | 173.57  | 181.52 | 189.38 | 197.20 | 205.02 | 212.75 | 220.48 | 228.13 | 235.78 | 243.35 | 250.92 | 258.40 | 265.88 | 273.24 | 280.59 | 295.30 | 302.48 | 324.03 | 338.08 |
| 2800                         | 196.99  | 206.02 | 214.93 | 223.80 | 232.64 | 241.39 | 250.12 | 258.76 | 267.38 | 275.90 | 284.42 | 292.82 | 301.24 | 309.46 | 317.69 | 334.17 | 342.16 | 366.17 |        |
| 3000                         | 208.33  | 217.87 | 227.29 | 236.64 | 245.99 | 255.22 | 264.44 | 273.53 | 282.62 | 291.59 | 300.55 | 309.38 | 318.22 | 326.85 | 335.49 | 352.76 |        |        |        |
| 3500                         | 235.71  | 246.46 | 257.08 | 267.60 | 278.09 | 288.44 | 298.76 | 308.92 | 319.07 | 329.05 | 339.03 | 348.83 | 358.64 |        |        |        |        |        |        |
| 4000                         | 261.66  | 273.54 | 285.23 | 296.80 | 308.36 | 319.68 | 331.00 | 342.08 | 353.17 |        |        |        |        |        |        |        |        |        |        |

| 14M-37<br>RPM<br>Small Shaft | Rated Horsepower for Small Sprocket<br>(Number of Teeth and Pitch Diameter, Inches) |        |        |        |        |        |        |        |        |        |        | Additional HP required per belt for speed ratio of speed down drive |         |         |         |         |         |         |         |         |               |
|------------------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|---------|---------|---------|---------|---------|---------|---------|---------|---------------|
|                              | 52  | 53     | 56     | 60     | 63     | 64     | 67     | 71     | 72     | 75     | 80     | 1.00 to   | 1.04 to | 1.11 to | 1.20 to | 1.31 to | 1.46 to | 1.68 to | 2.03 to | 2.70 to | 4.65 and over |
|                              | 9.123   | 9.299  | 9.825  | 10.527 | 11.053 | 11.229 | 11.755 | 12.457 | 12.632 | 13.158 | 14.036 | 1.03  | 1.10    | 1.19    | 1.30    | 1.45    | 1.67    | 2.02    | 2.69    | 4.64    |               |
| 10                           | 4.20  | 4.28   | 4.51   | 4.85   | 5.10   | 5.18   | 5.43   | 5.76   | 5.85   | 6.09   | 6.49   |   |         |         |         |         |         |         |         |         |               |
| 20                           | 6.64  | 6.78   | 7.18   | 7.71   | 8.10   | 8.23   | 8.62   | 9.14   | 9.27   | 9.66   | 10.30  |   |         |         |         |         |         |         |         |         |               |
| 40                           | 11.14   | 11.36  | 12.03  | 12.91  | 13.58  | 13.80  | 14.46  | 15.34  | 15.56  | 16.22  | 17.32  |   |         |         |         |         |         |         |         |         |               |
| 60                           | 15.36   | 15.67  | 16.59  | 17.82  | 18.75  | 19.06  | 19.96  | 21.18  | 21.48  | 22.39  | 23.90  |   |         |         |         |         |         |         |         |         |               |
| 100                          | 23.38   | 23.86  | 25.27  | 27.15  | 28.56  | 29.03  | 30.41  | 32.26  | 32.73  | 34.11  | 36.41  |   |         |         |         |         |         |         |         |         |               |
| 200                          | 42.07   | 42.93  | 45.49  | 48.88  | 51.41  | 52.26  | 54.78  | 58.14  | 58.98  | 61.46  | 65.60  |   |         |         |         |         |         |         |         |         |               |
| 300                          | 59.64   | 60.86  | 64.51  | 69.33  | 72.94  | 74.15  | 77.71  | 82.47  | 83.66  | 87.19  | 93.07  | 0.00  | 0.08    | 0.17    | 0.25    | 0.33    | 0.41    | 0.5     | 0.58    | 0.66    | 0.74          |
| 400                          | 76.52   | 78.08  | 82.77  | 88.96  | 93.60  | 95.15  | 99.72  | 105.83 | 107.36 | 111.88 | 119.42 | 0.00  | 0.09    | 0.19    | 0.28    | 0.38    | 0.47    | 0.56    | 0.66    | 0.75    | 0.84          |
| 500                          | 92.85   | 94.75  | 100.46 | 107.97 | 113.60 | 115.48 | 121.03 | 128.43 | 130.28 | 135.76 | 144.91 | 0.00  | 0.11    | 0.22    | 0.33    | 0.44    | 0.55    | 0.66    | 0.77    | 0.88    | 0.99          |
| 600                          | 108.78  | 111.01 | 117.68 | 126.47 | 133.07 | 135.27 | 141.76 | 150.42 | 152.59 | 159.00 | 169.68 | 0.00  | 0.16    | 0.33    | 0.49    | 0.66    | 0.82    | 0.99    | 1.15    | 1.31    | 1.48          |
| 700                          | 124.32  | 126.86 | 134.50 | 144.54 | 152.07 | 154.59 | 162.00 | 171.89 | 174.36 | 181.67 | 193.84 | 0.00  | 0.19    | 0.38    | 0.56    | 0.75    | 0.94    | 1.13    | 1.31    | 1.5     | 1.69          |
| 800                          | 139.55  | 142.40 | 150.96 | 162.22 | 170.67 | 173.49 | 181.79 | 192.87 | 195.64 | 203.82 | 217.45 | 0.00  | 0.22    | 0.44    | 0.66    | 0.88    | 1.09    | 1.31    | 1.53    | 1.75    | 1.97          |
| 870                          | 150.04  | 153.10 | 162.30 | 174.40 | 183.47 | 186.50 | 195.41 | 207.30 | 210.27 | 219.04 | 233.66 | 0.00  | 0.28    | 0.56    | 0.84    | 1.13    | 1.41    | 1.69    | 1.97    | 2.25    | 2.53          |
| 1000                         | 169.16  | 172.62 | 182.98 | 196.59 | 206.79 | 210.20 | 220.20 | 233.56 | 236.89 | 246.72 | 263.09 | 0.00  | 0.33    | 0.66    | 0.99    | 1.31    | 1.64    | 1.97    | 2.3     | 2.63    | 2.96          |
| 1160                         | 192.14  | 196.05 | 207.79 | 223.19 | 234.74 | 238.59 | 249.89 | 264.95 | 268.71 | 279.78 | 298.22 | 0.00  | 0.38    | 0.75    | 1.13    | 1.5     | 1.88    | 2.25    | 2.63    | 3       | 3.38          |
| 1200                         | 197.80  | 201.83 | 213.90 | 229.73 | 241.60 | 245.57 | 257.17 | 272.65 | 276.52 | 287.88 | 306.82 | 0.00  | 0.47    | 0.94    | 1.41    | 1.88    | 2.35    | 2.82    | 3.29    | 3.75    | 4.22          |
| 1400                         | 225.53  | 230.10 | 243.81 | 261.75 | 275.20 | 279.68 | 292.78 | 310.25 | 314.61 | 327.39 | 348.69 | 0.00  | 0.54    | 1.08    | 1.62    | 2.16    | 2.7     | 3.24    | 3.78    | 4.32    | 4.86          |
| 1600                         | 252.43  | 257.52 | 272.78 | 292.69 | 307.62 | 312.61 | 327.09 | 346.40 | 351.22 | 365.27 | 388.69 | 0.00  | 0.56    | 1.13    | 1.69    | 2.25    | 2.82    | 3.38    | 3.94    | 4.51    | 5.07          |
| 1750                         | 272.08  | 277.54 | 293.91 | 315.21 | 331.19 | 336.52 | 351.96 | 372.55 | 377.70 | 392.61 | 417.47 | 0.00  | 0.65    | 1.3     | 1.94    | 2.59    | 3.24    | 3.89    | 4.53    | 5.18    | 5.83          |
| 2000                         | 303.84  | 309.89 | 327.99 | 351.44 | 369.03 | 374.90 |        |        |        |        |        | 0.00  | 0.66    | 1.31    | 1.97    | 2.63    | 3.29    | 3.94    | 4.6     | 5.26    | 5.91          |
| 2400                         | 352.13  | 358.99 | 379.56 |        |        |        |        |        |        |        |        | 0.00  | 0.75    | 1.5     | 2.25    | 3       | 3.76    | 4.51    | 5.26    | 6.01    | 6.76          |
| 2800                         |   |        |        |        |        |        |        |        |        |        |        | 0.00  | 0.82    | 1.63    | 2.45    | 3.27    | 4.08    | 4.9     | 5.72    | 6.53    | 7.35          |
| 3200                         |   |        |        |        |        |        |        |        |        |        |        | 0.00  | 0.85    | 1.69    | 2.53    | 3.38    | 4.23    | 5.07    | 5.91    | 6.76    | 7.6           |
| 3600                         |   |        |        |        |        |        |        |        |        |        |        | 0.00  | 0.94    | 1.88    | 2.82    | 3.76    | 4.69    | 5.63    | 6.57    | 7.51    | 8.45          |
| 4000                         |   |        |        |        |        |        |        |        |        |        |        | 0.00  | 1.09    | 2.18    | 3.27    | 4.36    | 5.45    | 6.53    | 7.62    | 8.71    | 9.8           |
|                              |   |        |        |        |        |        |        |        |        |        |        | 0.00  | 1.64    | 3.29    | 4.93    | 6.57    | 8.22    | 9.85    | 11.5    | 13.1    | 14.8          |
|                              |   |        |        |        |        |        |        |        |        |        |        | 0.00  | 1.88    | 3.76    | 5.63    | 7.51    | 9.39    | 11.3    | 13.1    | 15      | 16.9          |
|                              |   |        |        |        |        |        |        |        |        |        |        | 0.00  | 2.82    | 5.63    | 8.45    | 11.3    | 14.1    | 16.9    | 19.7    | 22.5    | 25.3          |
|                              |   |        |        |        |        |        |        |        |        |        |        | 0.00  | 3.24    | 6.48    | 9.71    | 13      | 16.2    | 19.4    | 22.7    | 25.9    | 29.1          |
|                              |   |        |        |        |        |        |        |        |        |        |        | 0.00  | 3.76    | 7.51    | 11.3    | 15      | 18.8    | 22.5    | 26.3    | 30      | 33.8          |





# SELECTION

## HT500 Basic HP Ratings - 14mm

| 14M-68<br>RPM<br>Small Shaft | Rated Horsepower for Small Sprocket<br>(Number of Teeth and Pitch Diameter, Inches) |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|------------------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                              | 28  | 29     | 30     | 31     | 32     | 33     | 34     | 35     | 36     | 37     | 38     | 39     | 40     | 41     | 42     | 44     | 45     | 48     | 50     |
|                              | 4.912   | 5.088  | 5.263  | 5.439  | 5.614  | 5.790  | 5.965  | 6.141  | 6.316  | 6.492  | 6.667  | 6.842  | 7.018  | 7.193  | 7.369  | 7.720  | 7.895  | 8.421  | 8.772  |
| 10                           | 3.98  | 4.15   | 4.32   | 4.47   | 4.62   | 4.78   | 4.93   | 5.08   | 5.24   | 5.39   | 5.54   | 5.70   | 5.85   | 6.01   | 6.17   | 6.49   | 6.65   | 7.11   | 7.41   |
| 20                           | 6.26  | 6.53   | 6.77   | 7.02   | 7.28   | 7.51   | 7.75   | 8.01   | 8.26   | 8.52   | 8.77   | 9.01   | 9.25   | 9.49   | 9.74   | 10.23  | 10.48  | 11.22  | 11.71  |
| 40                           | 10.40   | 10.81  | 11.25  | 11.68  | 12.10  | 12.53  | 12.95  | 13.38  | 13.80  | 14.23  | 14.65  | 15.06  | 15.47  | 15.89  | 16.30  | 17.14  | 17.55  | 18.80  | 19.64  |
| 60                           | 14.28   | 14.86  | 15.47  | 16.05  | 16.63  | 17.22  | 17.82  | 18.41  | 19.01  | 19.58  | 20.16  | 20.74  | 21.32  | 21.90  | 22.47  | 23.63  | 24.21  | 25.94  | 27.08  |
| 100                          | 21.59   | 22.51  | 23.39  | 24.31  | 25.23  | 26.13  | 27.03  | 27.93  | 28.83  | 29.73  | 30.63  | 31.52  | 32.40  | 33.29  | 34.17  | 35.94  | 36.82  | 39.47  | 41.23  |
| 200                          | 38.52   | 40.19  | 41.85  | 43.51  | 45.15  | 46.79  | 48.42  | 50.05  | 51.68  | 53.31  | 54.94  | 56.56  | 58.17  | 59.78  | 61.38  | 64.60  | 66.20  | 70.99  | 74.16  |
| 300                          | 54.37   | 56.75  | 59.13  | 61.47  | 63.82  | 66.16  | 68.51  | 70.84  | 73.17  | 75.48  | 77.79  | 80.09  | 82.38  | 84.68  | 86.97  | 91.56  | 93.82  | 100.61 | 105.11 |
| 400                          | 69.56   | 72.62  | 75.65  | 78.68  | 81.70  | 84.71  | 87.72  | 90.71  | 93.70  | 96.70  | 99.69  | 102.64 | 105.60 | 108.55 | 111.50 | 117.40 | 120.31 | 129.06 | 134.85 |
| 500                          | 84.18   | 87.92  | 91.63  | 95.32  | 99.01  | 102.66 | 106.32 | 109.97 | 113.63 | 117.25 | 120.87 | 124.47 | 128.08 | 131.67 | 135.25 | 142.43 | 145.97 | 156.60 | 163.63 |
| 600                          | 98.43   | 102.82 | 107.17 | 111.51 | 115.84 | 120.14 | 124.44 | 128.73 | 133.01 | 137.26 | 141.51 | 145.74 | 149.97 | 154.17 | 158.37 | 166.77 | 170.92 | 183.40 | 191.67 |
| 700                          | 112.34  | 117.37 | 122.33 | 127.30 | 132.26 | 137.19 | 142.12 | 147.03 | 151.95 | 156.81 | 161.67 | 166.52 | 171.36 | 176.17 | 180.98 | 190.60 | 195.36 | 209.61 | 219.05 |
| 800                          | 125.97  | 131.61 | 137.19 | 142.79 | 148.38 | 153.93 | 159.46 | 164.97 | 170.48 | 175.95 | 181.42 | 186.88 | 192.34 | 197.73 | 203.13 | 213.93 | 219.26 | 235.28 | 245.88 |
| 870                          | 135.35  | 141.41 | 147.46 | 153.46 | 159.46 | 165.43 | 171.39 | 177.33 | 183.26 | 189.16 | 195.06 | 200.92 | 206.79 | 212.59 | 218.40 | 230.01 | 235.76 | 252.99 | 264.37 |
| 1000                         | 152.46  | 159.32 | 166.12 | 172.92 | 179.69 | 186.45 | 193.19 | 199.89 | 206.58 | 213.25 | 219.91 | 226.52 | 233.14 | 239.68 | 246.24 | 259.35 | 265.82 | 285.26 | 298.09 |
| 1160                         | 173.03  | 180.85 | 188.60 | 196.33 | 204.07 | 211.74 | 219.40 | 227.04 | 234.67 | 242.23 | 249.80 | 257.31 | 264.83 | 272.28 | 279.74 | 294.64 | 301.99 | 324.02 | 338.57 |
| 1200                         | 178.09  | 186.15 | 194.14 | 202.11 | 210.05 | 217.97 | 225.86 | 233.72 | 241.57 | 249.36 | 257.14 | 264.89 | 272.65 | 280.30 | 287.97 | 303.31 | 310.87 | 333.57 | 348.56 |
| 1400                         | 202.98  | 212.23 | 221.34 | 230.45 | 239.56 | 248.59 | 257.62 | 266.59 | 275.57 | 284.46 | 293.35 | 302.19 | 311.03 | 319.77 | 328.51 | 345.98 | 354.59 | 380.43 | 397.46 |
| 1600                         | 227.26  | 237.63 | 247.89 | 258.11 | 268.29 | 278.44 | 288.56 | 298.61 | 308.65 | 318.63 | 328.61 | 338.48 | 348.36 | 358.14 | 367.92 | 387.50 | 397.10 | 425.95 | 444.96 |
| 1750                         | 245.11  | 256.29 | 267.34 | 278.38 | 289.41 | 300.34 | 311.27 | 322.12 | 332.96 | 343.71 | 354.45 | 365.11 | 375.77 | 386.30 | 396.83 | 417.89 | 428.24 | 459.27 | 479.66 |
| 2000                         | 274.14  | 286.69 | 299.06 | 311.45 | 323.78 | 336.04 | 348.26 | 360.37 | 372.47 | 384.47 | 396.47 | 408.37 | 420.27 | 431.99 | 443.72 | 467.19 | 478.68 | 513.20 | 535.83 |
| 2400                         | 318.99  | 333.61 | 348.06 | 362.42 | 376.79 | 391.00 | 405.21 | 419.27 | 433.33 | 447.24 | 461.14 | 474.90 | 488.65 | 502.16 | 515.68 | 542.71 | 555.91 | 595.51 | 621.33 |
| 2800                         | 362.03  | 378.62 | 395.01 | 411.31 | 427.55 | 443.64 | 459.68 | 475.55 | 491.40 | 507.06 | 522.72 | 538.16 | 553.62 | 568.73 | 583.86 | 614.14 | 628.83 | 672.96 |        |
| 3000                         | 382.87  | 400.42 | 417.72 | 434.91 | 452.10 | 469.05 | 486.00 | 502.71 | 519.42 | 535.89 | 552.36 | 568.60 | 584.83 | 600.70 | 616.57 | 648.31 |        |        |        |
| 3500                         | 433.19  | 452.95 | 472.46 | 491.81 | 511.09 | 530.10 | 549.07 | 567.75 | 586.40 | 604.74 | 623.08 | 641.09 | 659.12 | 677.15 | 695.18 |        |        |        |        |
| 4000                         | 480.90  | 502.72 | 524.21 | 545.46 | 566.71 | 587.52 | 608.33 | 628.69 | 649.06 | 669.53 |        |        |        |        |        |        |        |        |        |

| 14M-68<br>RPM<br>Small Shaft | Rated Horsepower for Small Sprocket<br>(Number of Teeth and Pitch Diameter, Inches) |        |        |        |        |        |        |        |        |        |        | Additional HP required per belt for speed ratio of speed down drive |         |         |         |         |         |         |         |         |               |
|------------------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|---------|---------|---------|---------|---------|---------|---------|---------|---------------|
|                              | 52  | 53     | 56     | 60     | 63     | 64     | 67     | 71     | 72     | 75     | 80     | 1.00 to   | 1.04 to | 1.11 to | 1.20 to | 1.31 to | 1.46 to | 1.68 to | 2.03 to | 2.70 to | 4.65 and over |
|                              | 9.123   | 9.299  | 9.825  | 10.527 | 11.053 | 11.229 | 11.755 | 12.457 | 12.632 | 13.158 | 14.036 | 1.03  | 1.10    | 1.19    | 1.30    | 1.45    | 1.67    | 2.02    | 2.69    | 4.64    |               |
| 10                           | 7.72  | 7.86   | 8.30   | 8.91   | 9.37   | 9.52   | 9.98   | 10.59  | 10.74  | 11.19  | 11.93  |   |         |         |         |         |         |         |         |         |               |
| 20                           | 12.21   | 12.45  | 13.19  | 14.16  | 14.89  | 15.13  | 15.84  | 16.80  | 17.03  | 17.75  | 18.94  |   |         |         |         |         |         |         |         |         |               |
| 40                           | 20.47   | 20.88  | 22.10  | 23.73  | 24.96  | 25.36  | 26.58  | 28.19  | 28.59  | 29.81  | 31.82  |   |         |         |         |         |         |         |         |         |               |
| 60                           | 28.22   | 28.79  | 30.50  | 32.76  | 34.45  | 35.02  | 36.69  | 38.92  | 39.47  | 41.14  | 43.93  |   |         |         |         |         |         |         |         |         |               |
| 100                          | 42.98   | 43.84  | 46.44  | 49.90  | 52.48  | 53.35  | 55.90  | 59.30  | 60.15  | 62.68  | 66.91  |   |         |         |         |         |         |         |         |         |               |
| 200                          | 77.32   | 78.89  | 83.61  | 89.83  | 94.49  | 96.05  | 100.68 | 106.85 | 108.39 | 112.96 | 120.56 | 0.00  | 0.15    | 0.3     | 0.46    | 0.61    | 0.76    | 0.91    | 1.06    | 1.21    | 1.37          |
| 300                          | 109.62  | 111.85 | 118.56 | 127.42 | 134.06 | 136.27 | 142.83 | 151.56 | 153.75 | 160.24 | 171.05 | 0.00  | 0.17    | 0.35    | 0.52    | 0.69    | 0.86    | 1.03    | 1.21    | 1.38    | 1.55          |
| 400                          | 140.62  | 143.50 | 152.12 | 163.49 | 172.01 | 174.86 | 183.27 | 194.50 | 197.30 | 205.61 | 219.47 | 0.00  | 0.2     | 0.4     | 0.61    | 0.81    | 1.01    | 1.21    | 1.41    | 1.61    | 1.82          |
| 500                          | 170.65  | 174.14 | 184.62 | 198.42 | 208.78 | 212.23 | 222.43 | 236.03 | 239.43 | 249.51 | 266.32 | 0.00  | 0.3     | 0.6     | 0.91    | 1.21    | 1.51    | 1.81    | 2.11    | 2.42    | 2.72          |
| 600                          | 199.92  | 204.01 | 216.27 | 232.44 | 244.56 | 248.61 | 260.54 | 276.46 | 280.43 | 292.21 | 311.85 | 0.00  | 0.35    | 0.69    | 1.03    | 1.38    | 1.73    | 2.07    | 2.42    | 2.76    | 3.11          |
| 700                          | 228.48  | 233.16 | 247.18 | 265.64 | 279.49 | 284.10 | 297.73 | 315.91 | 320.45 | 333.88 | 356.25 | 0.00  | 0.4     | 0.8     | 1.21    | 1.61    | 2.01    | 2.41    | 2.81    | 3.22    | 3.62          |
| 800                          | 256.46  | 261.71 | 277.44 | 298.14 | 313.66 | 318.85 | 334.11 | 354.46 | 359.55 | 374.58 | 399.64 | 0.00  | 0.52    | 1.04    | 1.55    | 2.07    | 2.59    | 3.1     | 3.62    | 4.14    | 4.66          |
| 870                          | 275.74  | 281.38 | 298.28 | 320.52 | 337.20 | 342.75 | 359.14 | 380.98 | 386.44 | 402.56 | 429.42 | 0.00  | 0.6     | 1.21    | 1.81    | 2.42    | 3.02    | 3.62    | 4.23    | 4.83    | 5.43          |
| 1000                         | 310.90  | 317.25 | 336.29 | 361.29 | 380.04 | 386.31 | 404.70 | 429.24 | 435.37 | 453.42 | 483.51 | 0.00  | 0.69    | 1.38    | 2.07    | 2.76    | 3.45    | 4.14    | 4.83    | 5.52    | 6.21          |
| 1160                         | 353.12  | 360.32 | 381.89 | 410.19 | 431.42 | 438.50 | 459.26 | 486.93 | 493.85 | 514.19 | 548.08 | 0.00  | 0.86    | 1.73    | 2.59    | 3.45    | 4.31    | 5.17    | 6.04    | 6.9     | 7.76          |
| 1200                         | 363.53  | 370.93 | 393.11 | 422.20 | 444.02 | 451.32 | 472.64 | 501.09 | 508.20 | 529.08 | 563.89 | 0.00  | 0.99    | 1.98    | 2.98    | 3.97    | 4.96    | 5.95    | 6.94    | 7.94    | 8.93          |
| 1400                         | 414.49  | 422.89 | 448.09 | 481.05 | 505.77 | 514.01 | 538.08 | 570.18 | 578.20 | 601.69 | 640.83 | 0.00  | 1.04    | 2.07    | 3.1     | 4.14    | 5.18    | 6.21    | 7.25    | 8.28    | 9.32          |
| 1600                         | 463.93  | 473.29 | 501.33 | 537.92 | 565.36 | 574.53 | 601.13 | 636.62 | 645.49 | 671.31 | 714.34 | 0.00  | 1.19    | 2.38    | 3.57    | 4.76    | 5.95    | 7.14    | 8.33    | 9.52    | 10.7          |
| 1750                         | 500.04  | 510.07 | 540.16 | 579.31 | 608.67 | 618.46 | 646.84 | 684.68 | 694.14 | 721.56 | 767.24 | 0.00  | 1.21    | 2.42    | 3.62    | 4.83    | 6.04    | 7.24    | 8.45    | 9.66    | 10.9          |
| 2000                         | 558.42  | 569.52 | 602.79 | 645.88 | 678.21 | 689.01 |        |        |        |        |        | 0.00  | 1.38    | 2.76    | 4.14    | 5.52    | 6.9     | 8.28    | 9.66    | 11      | 12.4          |
| 2400                         | 647.16  | 659.76 | 697.58 |        |        |        |        |        |        |        |        | 0.00  | 1.5     | 3       | 4.5     | 6       | 7.51    | 9       | 10.5    | 12      | 13.5          |
| 2800                         |   |        |        |        |        |        |        |        |        |        |        | 0.00  | 1.55    | 3.11    | 4.66    | 6.21    | 7.76    | 9.31    | 10.9    | 12.4    | 14            |
| 3000                         |   |        |        |        |        |        |        |        |        |        |        | 0.00  | 1.73    | 3.45    | 5.17    | 6.9     | 8.63    | 10.3    | 12.1    | 13.8    | 15.5          |
| 3500                         |   |        |        |        |        |        |        |        |        |        |        | 0.00  | 2       | 4       | 6       | 8.01    | 10      | 12      | 14      | 16      | 18            |
| 4000                         |   |        |        |        |        |        |        |        |        |        |        | 0.00  | 3.02    | 6.04    | 9.05    | 12.1    | 15.1    | 18.1    | 21.1    | 24.2    | 27.2          |
|                              |   |        |        |        |        |        |        |        |        |        |        | 0.00  | 3.45    | 6.9     | 10.3    | 13.8    | 17.3    | 20.7    | 24.2    | 27.6    | 31.1          |
|                              |   |        |        |        |        |        |        |        |        |        |        | 0.00  | 5.18    | 10.4    | 15.5    | 20.7    | 25.9    | 31      | 36.2    | 41.4    | 46.6          |
|                              |   |        |        |        |        |        |        |        |        |        |        | 0.00  | 5.96    | 11.9    | 17.9    | 23.8    | 29.8    | 35.7    | 41.7    | 47.6    | 53.6          |
|                              |   |        |        |        |        |        |        |        |        |        |        | 0.00  | 6.91    | 13.8    | 20.7    | 27.6    | 34.5    | 41.4    | 48.3    | 55.2    | 62.1          |

# SELECTION



## HT500 Basic HP Ratings - 14mm

| 14M-90<br>RPM<br>Small Shaft | Rated Horsepower for Small Sprocket<br>(Number of Teeth and Pitch Diameter, Inches) |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|------------------------------|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                              | 28<br>4.912   | 29<br>5.088 | 30<br>5.263 | 31<br>5.439 | 32<br>5.614 | 33<br>5.790 | 34<br>5.965 | 35<br>6.141 | 36<br>6.316 | 37<br>6.492 | 38<br>6.667 | 39<br>6.842 | 40<br>7.018 | 41<br>7.193 | 42<br>7.369 | 44<br>7.720 | 45<br>7.895 | 48<br>8.421 | 50<br>8.772 |
| 10                           | 5.27  | 5.49        | 5.72        | 5.92        | 6.12        | 6.32        | 6.53        | 6.73        | 6.93        | 7.13        | 7.34        | 7.54        | 7.74        | 7.95        | 8.17        | 8.60        | 8.80        | 9.41        | 9.81        |
| 20                           | 8.28  | 8.64        | 8.96        | 9.29        | 9.63        | 9.95        | 10.26       | 10.60       | 10.94       | 11.27       | 11.61       | 11.92       | 12.24       | 12.57       | 12.89       | 13.55       | 13.87       | 14.85       | 15.50       |
| 40                           | 13.77   | 14.31       | 14.90       | 15.46       | 16.02       | 16.58       | 17.15       | 17.71       | 18.27       | 18.83       | 19.40       | 19.94       | 20.48       | 21.03       | 21.58       | 22.68       | 23.23       | 24.89       | 25.99       |
| 60                           | 18.90   | 19.67       | 20.48       | 21.24       | 22.01       | 22.79       | 23.58       | 24.37       | 25.16       | 25.92       | 26.69       | 27.45       | 28.22       | 28.98       | 29.74       | 31.28       | 32.04       | 34.34       | 35.84       |
| 100                          | 28.58   | 29.79       | 30.96       | 32.18       | 33.39       | 34.58       | 35.78       | 36.97       | 38.16       | 39.35       | 40.55       | 41.72       | 42.89       | 44.06       | 45.23       | 47.57       | 48.74       | 52.25       | 54.56       |
| 200                          | 50.99   | 53.19       | 55.40       | 57.58       | 59.76       | 61.92       | 64.08       | 66.24       | 68.40       | 70.56       | 72.72       | 74.86       | 77.00       | 79.12       | 81.24       | 85.50       | 87.61       | 93.96       | 98.15       |
| 300                          | 71.96   | 75.11       | 78.26       | 81.36       | 84.47       | 87.57       | 90.68       | 93.76       | 96.84       | 99.90       | 102.96      | 106.00      | 109.04      | 112.07      | 115.11      | 121.19      | 124.18      | 133.16      | 139.12      |
| 400                          | 92.07   | 96.12       | 100.13      | 104.14      | 108.14      | 112.12      | 116.10      | 120.06      | 124.02      | 127.98      | 131.94      | 135.85      | 139.77      | 143.67      | 147.57      | 155.39      | 159.24      | 170.82      | 178.48      |
| 500                          | 111.42  | 116.37      | 121.28      | 126.16      | 131.04      | 135.88      | 140.72      | 145.55      | 150.39      | 155.18      | 159.98      | 164.75      | 169.52      | 174.26      | 179.01      | 188.51      | 193.20      | 207.27      | 216.56      |
| 600                          | 130.28  | 136.08      | 141.84      | 147.59      | 153.32      | 159.01      | 164.70      | 170.37      | 176.04      | 181.67      | 187.29      | 192.89      | 198.50      | 204.05      | 209.60      | 220.73      | 226.22      | 242.73      | 253.67      |
| 700                          | 148.68  | 155.34      | 161.91      | 168.48      | 175.05      | 181.58      | 188.10      | 194.60      | 201.11      | 207.54      | 213.98      | 220.39      | 226.80      | 233.17      | 239.54      | 252.27      | 258.56      | 277.43      | 289.91      |
| 800                          | 166.73  | 174.20      | 181.58      | 188.99      | 196.38      | 203.72      | 211.05      | 218.35      | 225.63      | 232.88      | 240.12      | 247.34      | 254.57      | 261.70      | 268.84      | 283.14      | 290.20      | 311.40      | 325.43      |
| 870                          | 179.15  | 187.16      | 195.17      | 203.11      | 211.05      | 218.95      | 226.85      | 234.70      | 242.55      | 250.36      | 258.17      | 265.93      | 273.69      | 281.37      | 289.06      | 304.43      | 312.03      | 334.85      | 349.90      |
| 1000                         | 201.78  | 210.87      | 219.87      | 228.86      | 237.83      | 246.77      | 255.69      | 264.56      | 273.42      | 282.24      | 291.06      | 299.81      | 308.57      | 317.23      | 325.90      | 343.26      | 351.82      | 377.55      | 394.53      |
| 1160                         | 229.01  | 239.36      | 249.62      | 259.85      | 270.09      | 280.24      | 290.39      | 300.49      | 310.59      | 320.60      | 330.62      | 340.56      | 350.51      | 360.37      | 370.24      | 389.97      | 399.69      | 428.85      | 448.11      |
| 1200                         | 235.71  | 246.38      | 256.95      | 267.50      | 278.01      | 288.49      | 298.94      | 309.34      | 319.73      | 330.03      | 340.34      | 350.59      | 360.86      | 370.99      | 381.14      | 401.45      | 411.45      | 441.50      | 461.34      |
| 1400                         | 268.65  | 280.89      | 292.95      | 305.01      | 317.07      | 329.02      | 340.97      | 352.85      | 364.73      | 376.49      | 388.26      | 399.96      | 411.66      | 423.23      | 434.79      | 457.92      | 469.32      | 503.51      | 526.05      |
| 1600                         | 300.78  | 314.51      | 328.10      | 341.62      | 355.10      | 368.52      | 381.92      | 395.22      | 408.51      | 421.72      | 434.93      | 447.99      | 461.07      | 474.00      | 486.95      | 512.87      | 525.58      | 563.76      | 588.92      |
| 1750                         | 324.41  | 339.21      | 353.84      | 368.44      | 383.04      | 397.51      | 411.98      | 426.33      | 440.69      | 454.91      | 469.13      | 483.23      | 497.34      | 511.28      | 525.22      | 553.10      | 566.79      | 607.86      | 634.84      |
| 2000                         | 362.84  | 379.44      | 395.82      | 412.21      | 428.54      | 444.76      | 460.94      | 476.97      | 492.98      | 508.86      | 524.75      | 540.49      | 556.25      | 571.75      | 587.27      | 618.35      | 633.55      | 679.23      | 709.18      |
| 2400                         | 422.19  | 441.54      | 460.67      | 479.68      | 498.69      | 517.50      | 536.31      | 554.92      | 573.53      | 591.93      | 610.34      | 628.54      | 646.74      | 664.63      | 682.52      | 718.29      | 735.76      | 788.18      | 822.35      |
| 2800                         | 479.16  | 501.12      | 522.81      | 544.38      | 565.88      | 587.17      | 608.40      | 629.41      | 650.39      | 671.11      | 691.83      | 712.27      | 732.74      | 752.74      | 772.76      | 812.84      | 832.28      | 890.69      |             |
| 3000                         | 506.75  | 529.97      | 552.87      | 575.62      | 598.37      | 620.80      | 643.23      | 665.35      | 687.47      | 709.27      | 731.07      | 752.56      | 774.05      | 795.05      | 816.05      | 858.06      |             |             |             |
| 3500                         | 573.35  | 599.49      | 625.32      | 650.93      | 676.44      | 701.61      | 726.71      | 751.43      | 776.12      | 800.39      | 824.67      | 848.51      | 872.37      |             |             |             |             |             |             |
| 4000                         | 636.48  | 665.37      | 693.81      | 721.94      | 750.06      | 777.60      | 805.14      | 832.10      | 859.05      |             |             |             |             |             |             |             |             |             |             |

| 14M-90<br>RPM<br>Small Shaft | Rated Horsepower for Small Sprocket<br>(Number of Teeth and Pitch Diameter, Inches) |             |             |              |              |              |              |              |              |              |              | Additional HP required per belt for speed ratio of speed down drive |              |              |              |              |              |              |              |              |               |
|------------------------------|---|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|
|                              | 52<br>9.123   | 53<br>9.299 | 56<br>9.825 | 60<br>10.527 | 63<br>11.053 | 64<br>11.229 | 67<br>11.755 | 71<br>12.457 | 72<br>12.632 | 75<br>13.158 | 80<br>14.036 | 1.00 to 1.03  | 1.04 to 1.10 | 1.11 to 1.19 | 1.20 to 1.30 | 1.31 to 1.45 | 1.46 to 1.67 | 1.68 to 2.02 | 2.03 to 2.69 | 2.70 to 4.64 | 4.65 and over |
| 10                           | 10.22   | 10.41       | 10.98       | 11.79        | 12.40        | 12.60        | 13.21        | 14.02        | 14.22        | 14.81        | 15.80        |   |              |              |              |              |              |              |              |              |               |
| 20                           | 16.16   | 16.48       | 17.46       | 18.74        | 19.70        | 20.03        | 20.97        | 22.23        | 22.55        | 23.49        | 25.07        |   |              |              |              |              |              |              |              |              |               |
| 40                           | 27.09   | 27.63       | 29.25       | 31.41        | 33.03        | 33.57        | 35.17        | 37.31        | 37.85        | 39.45        | 42.12        |   |              |              |              |              |              |              |              |              |               |
| 60                           | 37.35   | 38.10       | 40.37       | 43.36        | 45.60        | 46.35        | 48.56        | 51.51        | 52.25        | 54.46        | 58.14        |   |              |              |              |              |              |              |              |              |               |
| 100                          | 56.88   | 58.03       | 61.47       | 66.04        | 69.46        | 70.61        | 73.98        | 78.48        | 79.61        | 82.96        | 88.56        |   |              |              |              |              |              |              |              |              |               |
| 200                          | 102.33  | 104.41      | 110.66      | 118.89       | 125.06       | 127.13       | 133.25       | 141.42       | 143.46       | 149.50       | 159.57       | 0.00  | 0.2          | 0.4          | 0.6          | 0.8          | 1            | 1.21         | 1.41         | 1.61         | 1.81          |
| 300                          | 145.08  | 148.04      | 156.92      | 168.64       | 177.43       | 180.36       | 189.03       | 200.60       | 203.49       | 212.08       | 226.40       | 0.00  | 0.23         | 0.46         | 0.68         | 0.91         | 1.14         | 1.37         | 1.6          | 1.83         | 2.05          |
| 400                          | 186.12  | 189.93      | 201.33      | 216.38       | 227.66       | 231.44       | 242.57       | 257.42       | 261.14       | 272.14       | 290.48       | 0.00  | 0.27         | 0.53         | 0.8          | 1.07         | 1.34         | 1.6          | 1.87         | 2.14         | 2.4           |
| 500                          | 225.86  | 230.48      | 244.35      | 262.62       | 276.32       | 280.89       | 294.39       | 312.39       | 316.89       | 330.24       | 352.49       | 0.00  | 0.4          | 0.8          | 1.2          | 1.6          | 2            | 2.4          | 2.8          | 3.2          | 3.6           |
| 600                          | 264.60  | 270.02      | 286.25      | 307.64       | 323.68       | 329.04       | 344.83       | 365.90       | 371.16       | 386.75       | 412.74       | 0.00  | 0.4          | 0.8          | 1.2          | 1.6          | 2            | 2.4          | 2.8          | 3.2          | 3.6           |
| 700                          | 302.40  | 308.59      | 327.15      | 351.59       | 369.91       | 376.02       | 394.06       | 418.11       | 424.13       | 441.89       | 471.51       | 0.00  | 0.46         | 0.91         | 1.37         | 1.83         | 2.28         | 2.74         | 3.2          | 3.65         | 4.11          |
| 800                          | 339.44  | 346.38      | 367.20      | 394.60       | 415.14       | 422.01       | 442.20       | 469.14       | 475.88       | 495.77       | 528.93       | 0.00  | 0.53         | 1.06         | 1.6          | 2.13         | 2.66         | 3.19         | 3.72         | 4.26         | 4.79          |
| 870                          | 364.95  | 372.41      | 394.79      | 424.22       | 446.29       | 453.65       | 475.33       | 504.24       | 511.47       | 532.80       | 568.35       | 0.00  | 0.69         | 1.37         | 2.05         | 2.74         | 3.43         | 4.11         | 4.79         | 5.48         | 6.16          |
| 1000                         | 411.48  | 419.89      | 445.10      | 478.18       | 503.00       | 511.29       | 535.63       | 568.11       | 576.23       | 600.12       | 639.95       | 0.00  | 0.8          | 1.6          | 2.4          | 3.2          | 4            | 4.79         | 5.59         | 6.39         | 7.19          |
| 1160                         | 467.37  | 476.89      | 505.44      | 542.90       | 571.00       | 580.37       | 607.84       | 644.47       | 653.63       | 680.54       | 725.40       | 0.00  | 0.91         | 1.83         | 2.74         | 3.65         | 4.57         | 5.48         | 6.39         | 7.31         | 8.22          |
| 1200                         | 481.14  | 490.94      | 520.29      | 558.80       | 587.68       | 597.33       | 625.55       | 663.21       | 672.62       | 700.26       | 746.33       | 0.00  | 1.14         | 2.28         | 3.42         | 4.57         | 5.71         | 6.85         | 7.99         | 9.13         | 10.3          |
| 1400                         | 548.60  | 559.71      | 593.06      | 636.68       | 669.40       | 680.31       | 712.17       | 754.65       | 765.27       | 796.35       | 848.16       | 0.00  | 1.31         | 2.63         | 3.94         | 5.25         | 6.57         | 7.88         | 9.19         | 10.5         | 11.8          |
| 1600                         | 614.03  | 626.41      | 663.53      | 711.95       | 748.27       | 760.41       | 795.61       | 842.59       | 854.33       | 888.50       | 945.45       | 0.00  | 1.37         | 2.74         | 4.11         | 5.48         | 6.85         | 8.22         | 9.59         | 11           | 12.3          |
| 1750                         | 661.82  | 675.09      | 714.92      | 766.73       | 805.60       | 818.55       | 856.11       | 906.20       | 918.72       | 955.00       | 1015.47      | 0.00  | 1.58         | 3.15         | 4.73         | 6.3          | 7.88         | 9.45         | 11           | 12.6         | 14.2          |
| 2000                         | 739.08  | 753.77      | 797.81      | 854.85       | 897.63       | 911.93       |              |              |              |              |              | 0.00  | 1.6          | 3.2          | 4.79         | 6.39         | 7.99         | 9.59         | 11.2         | 12.8         | 14.4          |
| 2400                         | 856.53  | 873.21      | 923.27      |              |              |              |              |              |              |              |              | 0.00  | 1.83         | 3.65         | 5.48         | 7.31         | 9.14         | 11           | 12.8         | 14.6         | 16.4          |
| 2800                         |   |             |             |              |              |              |              |              |              |              |              | 0.00  | 1.99         | 3.97         | 5.96         | 7.95         | 9.93         | 11.9         | 13.9         | 15.9         | 17.9          |
| 3000                         |   |             |             |              |              |              |              |              |              |              |              | 0.00  | 2.06         | 4.11         | 6.16         | 8.22         | 10.3         | 12.3         | 14.4         | 16.4         | 18.5          |
| 3500                         |   |             |             |              |              |              |              |              |              |              |              | 0.00  | 2.29         | 4.57         | 6.85         | 9.13         | 11.4         | 13.7         | 16           | 18.3         | 20.5          |
| 4000                         |   |             |             |              |              |              |              |              |              |              |              | 0.00  | 2.65         | 5.3          | 7.94         | 10.6         | 13.2         | 15.9         | 18.5         | 21.2         | 23.8          |
|                              |   |             |             |              |              |              |              |              |              |              |              | 0.00  | 4            | 7.99         | 12           | 16           | 20           | 24           | 28           | 32           | 36            |
|                              |   |             |             |              |              |              |              |              |              |              |              | 0.00  | 4.57         | 9.13         | 13.7         | 18.3         | 22.8         | 27.4         | 32           | 36.5         | 41.1          |
|                              |   |             |             |              |              |              |              |              |              |              |              | 0.00  | 6.86         | 13.7         | 20.5         | 27.4         | 34.3         | 41.1         | 47.9         | 54.8         | 61.6          |
|                              |   |             |             |              |              |              |              |              |              |              |              | 0.00  | 7.88         | 15.8         | 23.6         | 31.5         | 39.4         | 47.3         | 55.1         | 63           | 70.9          |
|                              |   |             |             |              |              |              |              |              |              |              |              | 0.00  | 9.14         | 18.3         | 27.4         | 36.5         | 45.7         | 54.8         | 63.9         | 73.1         | 82.2          |



# SELECTION

## HT500 Basic HP Ratings - 14mm

| 14M-125 | Rated Horsepower for Small Sprocket<br>(Number of Teeth and Pitch Diameter, Inches) |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|---------|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|         | RPM<br>Small Shaft  | 28<br>4.912 | 29<br>5.088 | 30<br>5.263 | 31<br>5.439 | 32<br>5.614 | 33<br>5.790 | 34<br>5.965 | 35<br>6.141 | 36<br>6.316 | 37<br>6.492 | 38<br>6.667 | 39<br>6.842 | 40<br>7.018 | 41<br>7.193 | 42<br>7.369 | 44<br>7.720 | 45<br>7.895 | 48<br>8.421 |
| 10      | 7.31  | 7.63        | 7.94        | 8.22        | 8.50        | 8.78        | 9.06        | 9.34        | 9.63        | 9.91        | 10.19       | 10.47       | 10.75       | 11.05       | 11.34       | 11.94       | 12.22       | 13.06       | 13.63       |
| 20      | 11.50   | 12.00       | 12.44       | 12.91       | 13.38       | 13.81       | 14.25       | 14.72       | 15.19       | 15.66       | 16.13       | 16.56       | 17.00       | 17.45       | 17.91       | 18.81       | 19.27       | 20.63       | 21.53       |
| 40      | 19.13   | 19.88       | 20.69       | 21.47       | 22.25       | 23.03       | 23.81       | 24.59       | 25.38       | 26.16       | 26.94       | 27.69       | 28.44       | 29.20       | 29.97       | 31.50       | 32.27       | 34.56       | 36.09       |
| 60      | 26.25   | 27.31       | 28.44       | 29.50       | 30.56       | 31.66       | 32.75       | 33.84       | 34.94       | 36.00       | 37.06       | 38.12       | 39.19       | 40.25       | 41.31       | 43.44       | 44.50       | 47.69       | 49.78       |
| 100     | 39.69   | 41.38       | 43.00       | 44.69       | 46.38       | 48.03       | 49.69       | 51.34       | 53.00       | 54.66       | 56.31       | 57.94       | 59.56       | 61.19       | 62.81       | 66.06       | 67.69       | 72.56       | 75.78       |
| 200     | 70.81   | 73.88       | 76.94       | 79.97       | 83.00       | 86.00       | 89.00       | 92.00       | 95.00       | 98.00       | 101.00      | 103.97      | 106.94      | 109.89      | 112.84      | 118.75      | 121.68      | 130.50      | 136.32      |
| 300     | 99.94   | 104.31      | 108.69      | 113.00      | 117.31      | 121.63      | 125.94      | 130.22      | 134.50      | 138.75      | 143.00      | 147.22      | 151.44      | 155.66      | 159.88      | 168.31      | 172.47      | 184.94      | 193.22      |
| 400     | 127.88  | 133.50      | 139.06      | 144.64      | 150.19      | 155.73      | 161.25      | 166.75      | 172.25      | 177.75      | 183.25      | 188.68      | 194.13      | 199.54      | 204.96      | 215.81      | 221.17      | 237.25      | 247.88      |
| 500     | 154.75  | 161.63      | 168.44      | 175.22      | 182.00      | 188.72      | 195.44      | 202.16      | 208.88      | 215.53      | 222.19      | 228.81      | 235.44      | 242.03      | 248.63      | 261.81      | 268.33      | 287.88      | 300.78      |
| 600     | 180.94  | 189.00      | 197.00      | 204.98      | 212.94      | 220.85      | 228.75      | 236.63      | 244.50      | 252.31      | 260.13      | 267.90      | 275.69      | 283.40      | 291.11      | 306.56      | 314.20      | 337.13      | 352.33      |
| 700     | 206.50  | 215.75      | 224.88      | 234.00      | 243.13      | 252.19      | 261.25      | 270.28      | 279.31      | 288.25      | 297.19      | 306.09      | 315.00      | 323.84      | 332.69      | 350.38      | 359.11      | 385.31      | 402.66      |
| 800     | 231.56  | 241.94      | 252.19      | 262.49      | 272.75      | 282.95      | 293.13      | 303.26      | 313.38      | 323.44      | 333.50      | 343.53      | 353.56      | 363.47      | 373.39      | 393.25      | 403.05      | 432.50      | 451.99      |
| 870     | 248.81  | 259.94      | 271.06      | 282.09      | 293.13      | 304.09      | 315.06      | 325.97      | 336.88      | 347.72      | 358.56      | 369.34      | 380.13      | 390.80      | 401.47      | 422.81      | 433.38      | 465.06      | 485.97      |
| 1000    | 280.25  | 292.88      | 305.38      | 317.87      | 330.31      | 342.74      | 355.13      | 367.45      | 379.75      | 392.00      | 404.25      | 416.40      | 428.56      | 440.60      | 452.64      | 476.75      | 488.65      | 524.38      | 547.96      |
| 1160    | 318.06  | 332.44      | 346.69      | 360.91      | 375.13      | 389.22      | 403.31      | 417.34      | 431.38      | 445.28      | 459.19      | 473.00      | 486.81      | 500.52      | 514.22      | 541.63      | 555.13      | 595.63      | 622.38      |
| 1200    | 327.38  | 342.19      | 356.88      | 371.53      | 386.13      | 400.68      | 415.19      | 429.64      | 444.06      | 458.38      | 472.69      | 486.93      | 501.19      | 515.27      | 529.35      | 557.56      | 571.46      | 613.19      | 640.74      |
| 1400    | 373.13  | 390.13      | 406.88      | 423.63      | 440.38      | 456.97      | 473.56      | 490.06      | 506.56      | 522.91      | 539.25      | 555.50      | 571.75      | 587.81      | 603.88      | 636.00      | 651.83      | 699.31      | 730.63      |
| 1600    | 417.75  | 436.81      | 455.69      | 474.47      | 493.19      | 511.84      | 530.44      | 548.92      | 567.38      | 585.72      | 604.06      | 622.21      | 640.38      | 658.34      | 676.32      | 712.31      | 729.97      | 783.00      | 817.94      |
| 1750    | 450.56  | 471.13      | 491.44      | 511.72      | 532.00      | 552.09      | 572.19      | 592.13      | 612.06      | 631.81      | 651.56      | 671.16      | 690.75      | 710.11      | 729.47      | 768.19      | 787.20      | 844.25      | 881.72      |
| 2000    | 503.94  | 527.00      | 549.75      | 572.51      | 595.19      | 617.72      | 640.19      | 662.45      | 684.69      | 706.75      | 728.81      | 750.68      | 772.56      | 794.10      | 815.66      | 858.81      | 879.93      | 943.38      | 984.98      |
| 2400    | 586.38  | 613.25      | 639.81      | 666.22      | 692.63      | 718.75      | 744.88      | 770.72      | 796.56      | 822.13      | 847.69      | 872.97      | 898.25      | 923.09      | 947.94      | 997.63      | 1021.89     | 1094.69     | 1142.16     |
| 2800    | 665.50  | 696.00      | 726.13      | 756.09      | 785.94      | 815.51      | 845.00      | 874.18      | 903.31      | 932.10      | 960.88      | 989.27      | 1017.69     | 1045.47     | 1073.27     | 1128.94     | 1155.94     | 1237.06     |             |
| 3000    | 703.81  | 736.06      | 767.88      | 799.47      | 831.06      | 862.22      | 893.38      | 924.09      | 954.81      | 985.09      | 1015.38     | 1045.22     | 1075.06     | 1104.23     | 1133.41     | 1191.75     |             |             |             |
| 3500    | 796.31  | 832.63      | 868.50      | 904.07      | 939.50      | 974.45      | 1009.31     | 1043.65     | 1077.94     | 1111.66     | 1145.38     | 1178.48     | 1211.63     |             |             |             |             |             |             |
| 4000    | 884.00  | 924.13      | 963.63      | 1002.69     | 1041.75     | 1080.00     | 1118.25     | 1155.69     | 1193.13     | 596.56      |             |             |             |             |             |             |             |             |             |

| 14M-125 | Rated Horsepower for Small Sprocket<br>(Number of Teeth and Pitch Diameter, Inches) |             |             |             |              |              |              |              |              |              | Additional HP required per belt for speed ratio<br>of speed down drive |              |                 |                 |                 |                 |                 |                 |                 |                 |                 |                     |
|---------|---|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--|--------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------------|
|         | RPM<br>Small Shaft  | 52<br>9.123 | 53<br>9.299 | 56<br>9.825 | 60<br>10.527 | 63<br>11.053 | 64<br>11.229 | 67<br>11.755 | 71<br>12.457 | 72<br>12.632 | 75<br>13.158   | 80<br>14.036 | 1.00 to<br>1.03 | 1.04 to<br>1.10 | 1.11 to<br>1.19 | 1.20 to<br>1.30 | 1.31 to<br>1.45 | 1.46 to<br>1.67 | 1.68 to<br>2.02 | 2.03 to<br>2.69 | 2.70 to<br>4.64 | 4.65<br>and<br>over |
| 10      | 14.19   | 14.45       | 15.25       | 16.38       | 17.22        | 17.50        | 18.34        | 19.47        | 19.75        | 20.57        | 21.94  |              |                 |                 |                 |                 |                 |                 |                 |                 |                 |                     |
| 20      | 22.44   | 22.89       | 24.25       | 26.03       | 27.37        | 27.81        | 29.12        | 30.88        | 31.31        | 32.62        | 34.81  |              |                 |                 |                 |                 |                 |                 |                 |                 |                 |                     |
| 40      | 37.63   | 38.38       | 40.63       | 43.63       | 45.88        | 46.63        | 48.85        | 51.82        | 52.56        | 54.79        | 58.50  |              |                 |                 |                 |                 |                 |                 |                 |                 |                 |                     |
| 60      | 51.88   | 52.92       | 56.06       | 60.22       | 63.33        | 64.38        | 67.44        | 71.54        | 72.56        | 75.63        | 80.75  |              |                 |                 |                 |                 |                 |                 |                 |                 |                 |                     |
| 100     | 79.00   | 80.59       | 85.38       | 91.72       | 96.48        | 98.06        | 102.75       | 109.00       | 110.56       | 115.23       | 123.00   |              |                 |                 |                 |                 |                 |                 |                 |                 |                 |                     |
| 200     | 142.13  | 145.02      | 153.69      | 165.12      | 173.70       | 176.56       | 185.07       | 196.42       | 199.25       | 207.64       | 221.63   |              |                 |                 |                 |                 |                 |                 |                 |                 |                 |                     |
| 300     | 201.50  | 205.61      | 217.94      | 234.22      | 246.43       | 250.50       | 262.55       | 278.61       | 282.63       | 294.55       | 314.44   | 0.00         | 0.28            | 0.56            | 0.84            | 1.12            | 1.4             | 1.67            | 1.95            | 2.23            | 2.51            |                     |
| 400     | 258.50  | 263.79      | 279.63      | 300.52      | 316.20       | 321.44       | 336.90       | 357.53       | 362.69       | 377.97       | 403.44   | 0.00         | 0.32            | 0.63            | 0.95            | 1.27            | 1.59            | 1.9             | 2.22            | 2.54            | 2.85            |                     |
| 500     | 313.69  | 320.11      | 339.38      | 364.75      | 383.78       | 390.13       | 408.88       | 433.88       | 440.13       | 458.66       | 489.56   | 0.00         | 0.37            | 0.74            | 1.11            | 1.48            | 1.86            | 2.23            | 2.6             | 2.97            | 3.34            |                     |
| 600     | 367.50  | 375.02      | 397.56      | 427.27      | 449.55       | 457.00       | 478.93       | 508.19       | 515.50       | 537.16       | 573.25   | 0.00         | 0.56            | 1.11            | 1.66            | 2.22            | 2.78            | 3.33            | 3.88            | 4.44            | 4.99            |                     |
| 700     | 420.00  | 428.59      | 454.38      | 488.31      | 513.77       | 522.25       | 547.30       | 580.71       | 589.06       | 613.74       | 654.88   | 0.00         | 0.63            | 1.27            | 1.9             | 2.54            | 3.17            | 3.81            | 4.44            | 5.07            | 5.71            |                     |
| 800     | 471.44  | 481.09      | 510.00      | 548.05      | 576.59       | 586.13       | 614.17       | 651.59       | 660.94       | 688.57       | 734.63   | 0.00         | 0.74            | 1.48            | 2.22            | 2.96            | 3.7             | 4.43            | 5.17            | 5.91            | 6.65            |                     |
| 870     | 506.88  | 517.23      | 548.31      | 589.19      | 619.84       | 630.06       | 660.18       | 700.34       | 710.38       | 740.00       | 789.38   | 0.00         | 0.95            | 1.9             | 2.85            | 3.81            | 4.76            | 5.71            | 6.66            | 7.61            | 8.56            |                     |
| 1000    | 571.50  | 583.18      | 618.19      | 664.14      | 698.61       | 710.13       | 743.93       | 789.04       | 800.31       | 833.50       | 888.81   | 0.00         | 1.11            | 2.22            | 3.33            | 4.44            | 5.55            | 6.66            | 7.77            | 8.88            | 9.99            |                     |
| 1160    | 649.13  | 662.34      | 702.00      | 754.03      | 793.05       | 806.06       | 844.22       | 895.09       | 907.81       | 945.20       | 1007.50  | 0.00         | 1.27            | 2.54            | 3.8             | 5.08            | 6.34            | 7.61            | 8.88            | 10.1            | 11.4            |                     |
| 1200    | 668.25  | 681.86      | 722.63      | 776.11      | 816.22       | 829.63       | 868.82       | 921.12       | 934.19       | 972.58       | 1036.56  | 0.00         | 1.59            | 3.17            | 4.76            | 6.34            | 7.93            | 9.51            | 11.1            | 12.7            | 14.3            |                     |
| 1400    | 761.94  | 777.38      | 823.69      | 884.28      | 929.73       | 944.88       | 989.13       | 1048.13      | 1062.88      | 1106.05      | 1178.00  | 0.00         | 1.82            | 3.65            | 5.47            | 7.3             | 9.12            | 10.9            | 12.8            | 14.6            | 16.4            |                     |
| 1600    | 852.81  | 870.02      | 921.56      | 988.82      | 1039.27      | 1056.13      | 1105.02      | 1170.26      | 1186.56      | 1234.02      | 1313.13  | 0.00         | 1.9             | 3.81            | 5.71            | 7.61            | 9.52            | 11.4            | 13.3            | 15.2            | 17.1            |                     |
| 1750    | 919.19  | 937.63      | 992.94      | 1064.91     | 1118.88      | 1136.88      | 1189.05      | 1258.61      | 1276.00      | 1326.39      | 1410.38  | 0.00         | 2.19            | 4.38            | 6.56            | 8.75            | 10.9            | 13.1            | 15.3            | 17.5            | 19.7            |                     |
| 2000    | 1026.50   | 1046.91     | 1108.06     | 1187.29     | 1246.71      | 1266.56      |              |              |              |              |  | 0.00         | 2.22            | 4.44            | 6.66            | 8.88            | 11.1            | 13.3            | 15.5            | 17.8            | 20              |                     |
| 2400    | 1189.63   | 1212.80     | 1282.31     |             |              |              |              |              |              |              |  | 0.00         | 2.54            | 5.07            | 7.61            | 10.2            | 12.7            | 15.2            | 17.8            | 20.3            | 22.8            |                     |
| 2800    |   |             |             |             |              |              |              |              |              |              |  | 0.00         | 2.76            | 5.52            | 8.28            | 11              | 13.8            | 16.6            | 19.3            | 22.1            | 24.8            |                     |
| 3000    |   |             |             |             |              |              |              |              |              |              |  | 0.00         | 2.86            | 5.71            | 8.56            | 11.4            | 14.3            | 17.1            | 20              | 22.8            | 25.7            |                     |
| 3500    |   |             |             |             |              |              |              |              |              |              |  | 0.00         | 3.17            | 6.34            | 9.51            | 12.7            | 15.9            | 19              | 22.2            | 25.4            | 28.5            |                     |
| 4000    |   |             |             |             |              |              |              |              |              |              |  | 0.00         | 3.68            | 7.36            | 11              | 14.7            | 18.4            | 22.1            | 25.8            | 29.4            | 33.1            |                     |
|         |   |             |             |             |              |              |              |              |              |              |  | 0.00         | 5.55            | 11.1            | 16.6            | 22.2            | 27.8            | 33.3            | 38.8            | 44.4            | 49.9            |                     |
|         |   |             |             |             |              |              |              |              |              |              |  | 0.00         | 6.35            | 12.7            | 19              | 25.4            | 31.7            | 38.1            | 44.4            | 50.7            | 57.1            |                     |
|         |   |             |             |             |              |              |              |              |              |              |  | 0.00         | 9.52            | 19              | 28.5            | 38.1            | 47.6            | 57.1            | 66.6            | 76.1            | 85.6            |                     |
|         |   |             |             |             |              |              |              |              |              |              |  | 0.00         | 10.9            | 21.9            | 32.8            | 43.8            | 54.7            | 65.6            | 76.6            | 87.5            | 98.5            |                     |
|         |   |             |             |             |              |              |              |              |              |              |  | 0.00         | 12.7            | 25.4            | 38              | 50.8            | 63.4            | 76.1            | 88.8            | 101.5           | 114.2           |                     |

# SELECTION



## 8M HT500 Selection Table

| Speed Ratio | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|             | Driver                |                   | Driven       |                   | 640-8MX                 | 720-8MX     | 800-8MX     | 896-8MX     | 960-8MX     | 1000-8MX    | 1040-8MX    | 1120-8MX    | 1200-8MX    | 1224-8MX    | 1280-8MX    | 1440-8MX    | 1600-8MX    | 1760-8MX    |
|             | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |
|             | <b>Length Factor*</b> |                   |              |                   | <b>0.79</b>             | <b>0.83</b> | <b>0.87</b> | <b>0.91</b> | <b>0.94</b> | <b>0.96</b> | <b>0.97</b> | <b>1.00</b> | <b>1.03</b> | <b>1.03</b> | <b>1.05</b> | <b>1.10</b> | <b>1.14</b> | <b>1.17</b> |
| 1.000       | 22                    | 2.206             | 22           | 2.206             | 9.13                    | 10.71       | 12.28       | 14.17       | 15.43       | 16.22       | 17.00       | 18.58       | 20.15       | 20.63       | 21.73       | 24.88       | 28.03       | 31.18       |
| 1.000       | 25                    | 2.506             | 25           | 2.506             | 8.66                    | 10.24       | 11.81       | 13.70       | 14.96       | 15.75       | 16.53       | 18.11       | 19.68       | 20.16       | 21.26       | 24.41       | 27.56       | 30.71       |
| 1.000       | 26                    | 2.607             | 26           | 2.607             | 8.50                    | 10.08       | 11.65       | 13.54       | 14.80       | 15.59       | 16.37       | 17.95       | 19.52       | 20.00       | 21.10       | 24.25       | 27.40       | 30.55       |
| 1.000       | 27                    | 2.707             | 27           | 2.707             | 8.35                    | 9.92        | 11.50       | 13.39       | 14.65       | 15.43       | 16.22       | 17.79       | 19.37       | 19.84       | 20.94       | 24.09       | 27.24       | 30.39       |
| 1.000       | 28                    | 2.807             | 28           | 2.807             | 8.19                    | 9.77        | 11.34       | 13.23       | 14.49       | 15.28       | 16.06       | 17.64       | 19.21       | 19.69       | 20.79       | 23.94       | 27.09       | 30.24       |
| 1.000       | 29                    | 2.907             | 29           | 2.907             | 8.03                    | 9.61        | 11.18       | 13.07       | 14.33       | 15.12       | 15.90       | 17.48       | 19.05       | 19.53       | 20.63       | 23.78       | 26.93       | 30.08       |
| 1.000       | 30                    | 3.008             | 30           | 3.008             | 7.88                    | 9.45        | 11.03       | 12.92       | 14.18       | 14.96       | 15.75       | 17.32       | 18.90       | 19.37       | 20.47       | 23.62       | 26.77       | 29.92       |
| 1.000       | 31                    | 3.108             | 31           | 3.108             | 7.72                    | 9.29        | 10.87       | 12.76       | 14.02       | 14.80       | 15.59       | 17.16       | 18.74       | 19.21       | 20.31       | 23.46       | 26.61       | 29.76       |
| 1.000       | 32                    | 3.208             | 32           | 3.208             | 7.56                    | 9.14        | 10.71       | 12.60       | 13.86       | 14.65       | 15.43       | 17.01       | 18.58       | 19.06       | 20.16       | 23.31       | 26.46       | 29.61       |
| 1.000       | 33                    | 3.308             | 33           | 3.308             | 7.40                    | 8.98        | 10.55       | 12.44       | 13.70       | 14.49       | 15.27       | 16.85       | 18.42       | 18.90       | 20.00       | 23.15       | 26.30       | 29.45       |
| 1.000       | 34                    | 3.409             | 34           | 3.409             | 7.25                    | 8.82        | 10.40       | 12.29       | 13.55       | 14.33       | 15.12       | 16.69       | 18.27       | 18.74       | 19.84       | 22.99       | 26.14       | 29.29       |
| 1.000       | 35                    | 3.509             | 35           | 3.509             | 7.09                    | 8.66        | 10.24       | 12.13       | 13.39       | 14.17       | 14.96       | 16.53       | 18.11       | 18.58       | 19.68       | 22.83       | 25.98       | 29.13       |
| 1.000       | 36                    | 3.609             | 36           | 3.609             | 6.93                    | 8.51        | 10.08       | 11.97       | 13.23       | 14.02       | 14.80       | 16.38       | 17.95       | 18.43       | 19.53       | 22.68       | 25.83       | 28.98       |
| 1.000       | 37                    | 3.709             | 37           | 3.709             | 6.77                    | 8.35        | 9.92        | 11.81       | 13.07       | 13.86       | 14.64       | 16.22       | 17.79       | 18.27       | 19.37       | 22.52       | 25.67       | 28.82       |
| 1.000       | 38                    | 3.810             | 38           | 3.810             | 6.62                    | 8.19        | 9.77        | 11.66       | 12.92       | 13.70       | 14.49       | 16.06       | 17.64       | 18.11       | 19.21       | 22.36       | 25.51       | 28.66       |
| 1.000       | 39                    | 3.910             | 39           | 3.910             | 6.46                    | 8.03        | 9.61        | 11.50       | 12.76       | 13.54       | 14.33       | 15.90       | 17.48       | 17.95       | 19.05       | 22.20       | 25.35       | 28.50       |
| 1.000       | 40                    | 4.010             | 40           | 4.010             | 6.30                    | 7.88        | 9.45        | 11.34       | 12.60       | 13.39       | 14.17       | 15.75       | 17.32       | 17.80       | 18.90       | 22.05       | 25.20       | 28.35       |
| 1.000       | 41                    | 4.110             | 41           | 4.110             | 6.14                    | 7.72        | 9.29        | 11.18       | 12.44       | 13.23       | 14.01       | 15.59       | 17.16       | 17.64       | 18.74       | 21.89       | 25.04       | 28.19       |
| 1.000       | 42                    | 4.211             | 42           | 4.211             | 5.99                    | 7.56        | 9.14        | 11.03       | 12.29       | 13.07       | 13.86       | 15.43       | 17.01       | 17.48       | 18.58       | 21.73       | 24.88       | 28.03       |
| 1.000       | 45                    | 4.511             | 45           | 4.511             | 5.51                    | 7.09        | 8.66        | 10.55       | 11.81       | 12.60       | 13.38       | 14.96       | 16.53       | 17.01       | 18.11       | 21.26       | 24.41       | 27.56       |
| 1.000       | 48                    | 4.812             | 48           | 4.812             |                         | 6.62        | 8.19        | 10.08       | 11.34       | 12.13       | 12.91       | 14.49       | 16.06       | 16.54       | 17.64       | 20.79       | 23.94       | 27.09       |
| 1.000       | 50                    | 5.013             | 50           | 5.013             |                         | 6.30        | 7.88        | 9.77        | 11.03       | 11.81       | 12.60       | 14.17       | 15.75       | 16.22       | 17.32       | 20.47       | 23.62       | 26.77       |
| 1.000       | 53                    | 5.314             | 53           | 5.314             |                         | 5.83        | 7.40        | 9.29        | 10.55       | 11.34       | 12.12       | 13.70       | 15.27       | 15.75       | 16.85       | 20.00       | 23.15       | 26.30       |
| 1.000       | 56                    | 5.614             | 56           | 5.614             |                         |             | 6.93        | 8.82        | 10.08       | 10.87       | 11.65       | 13.23       | 14.80       | 15.28       | 16.38       | 19.53       | 22.68       | 25.83       |
| 1.000       | 60                    | 6.015             | 60           | 6.015             |                         |             |             | 8.19        | 9.45        | 10.24       | 11.02       | 12.60       | 14.17       | 14.65       | 15.75       | 18.90       | 22.05       | 25.20       |
| 1.000       | 63                    | 6.316             | 63           | 6.316             |                         |             |             | 7.72        | 8.98        | 9.76        | 10.55       | 12.12       | 13.70       | 14.17       | 15.27       | 18.42       | 21.57       | 24.72       |
| 1.000       | 67                    | 6.717             | 67           | 6.717             |                         |             |             |             | 8.35        | 9.13        | 9.92        | 11.49       | 13.07       | 13.54       | 14.64       | 17.79       | 20.94       | 24.09       |
| 1.000       | 71                    | 7.118             | 71           | 7.118             |                         |             |             |             | 7.72        | 8.50        | 9.29        | 10.86       | 12.44       | 12.91       | 14.01       | 17.16       | 20.31       | 23.46       |
| 1.000       | 75                    | 7.519             | 75           | 7.519             |                         |             |             |             |             |             | 8.66        | 10.23       | 11.81       | 12.28       | 13.38       | 16.53       | 19.68       | 22.83       |
| 1.000       | 80                    | 8.020             | 80           | 8.020             |                         |             |             |             |             |             |             | 9.45        | 11.02       | 11.50       | 12.60       | 15.75       | 18.90       | 22.05       |
| 1.024       | 41                    | 4.110             | 42           | 4.211             | 6.06                    | 7.64        | 9.21        | 11.10       | 12.36       | 13.15       | 13.93       | 15.51       | 17.08       | 17.56       | 18.66       | 21.81       | 24.96       | 28.11       |
| 1.025       | 40                    | 4.010             | 41           | 4.110             | 6.22                    | 7.80        | 9.37        | 11.26       | 12.52       | 13.31       | 14.09       | 15.67       | 17.24       | 17.72       | 18.82       | 21.97       | 25.12       | 28.27       |
| 1.026       | 38                    | 3.810             | 39           | 3.910             | 6.54                    | 8.11        | 9.69        | 11.58       | 12.84       | 13.62       | 14.41       | 15.98       | 17.56       | 18.03       | 19.13       | 22.28       | 25.43       | 28.58       |
| 1.026       | 39                    | 3.910             | 40           | 4.010             | 6.38                    | 7.95        | 9.53        | 11.42       | 12.68       | 13.46       | 14.25       | 15.82       | 17.40       | 17.87       | 18.97       | 22.12       | 25.27       | 28.42       |
| 1.027       | 37                    | 3.709             | 38           | 3.810             | 6.69                    | 8.27        | 9.84        | 11.73       | 12.99       | 13.78       | 14.56       | 16.14       | 17.71       | 18.19       | 19.29       | 22.44       | 25.59       | 28.74       |
| 1.028       | 36                    | 3.609             | 37           | 3.709             | 6.85                    | 8.43        | 10.00       | 11.89       | 13.15       | 13.94       | 14.72       | 16.30       | 17.87       | 18.35       | 19.45       | 22.60       | 25.75       | 28.90       |
| 1.029       | 34                    | 3.409             | 35           | 3.509             | 7.17                    | 8.74        | 10.32       | 12.21       | 13.47       | 14.25       | 15.04       | 16.61       | 18.19       | 18.66       | 19.76       | 22.91       | 26.06       | 29.21       |
| 1.029       | 35                    | 3.509             | 36           | 3.609             | 7.01                    | 8.58        | 10.16       | 12.05       | 13.31       | 14.09       | 14.88       | 16.45       | 18.03       | 18.50       | 19.60       | 22.75       | 25.90       | 29.05       |
| 1.030       | 33                    | 3.308             | 34           | 3.409             | 7.32                    | 8.90        | 10.47       | 12.36       | 13.62       | 14.41       | 15.19       | 16.77       | 18.34       | 18.82       | 19.92       | 23.07       | 26.22       | 29.37       |
| 1.031       | 32                    | 3.208             | 33           | 3.308             | 7.48                    | 9.06        | 10.63       | 12.52       | 13.78       | 14.57       | 15.35       | 16.93       | 18.50       | 18.98       | 20.08       | 23.23       | 26.38       | 29.53       |
| 1.032       | 31                    | 3.108             | 32           | 3.208             | 7.64                    | 9.21        | 10.79       | 12.68       | 13.94       | 14.72       | 15.51       | 17.08       | 18.66       | 19.13       | 20.23       | 23.38       | 26.53       | 29.68       |
| 1.033       | 30                    | 3.008             | 31           | 3.108             | 7.80                    | 9.37        | 10.95       | 12.84       | 14.10       | 14.88       | 15.67       | 17.24       | 18.82       | 19.29       | 20.39       | 23.54       | 26.69       | 29.84       |
| 1.034       | 29                    | 2.907             | 30           | 3.008             | 7.95                    | 9.53        | 11.10       | 12.99       | 14.25       | 15.04       | 15.82       | 17.40       | 18.97       | 19.45       | 20.55       | 23.70       | 26.85       | 30.00       |
| 1.036       | 28                    | 2.807             | 29           | 2.907             | 8.11                    | 9.69        | 11.26       | 13.15       | 14.41       | 15.20       | 15.98       | 17.56       | 19.13       | 19.61       | 20.71       | 23.86       | 27.01       | 30.16       |
| 1.037       | 27                    | 2.707             | 28           | 2.807             | 8.27                    | 9.84        | 11.42       | 13.31       | 14.57       | 15.35       | 16.14       | 17.71       | 19.29       | 19.76       | 20.86       | 24.01       | 27.16       | 30.31       |
| 1.038       | 26                    | 2.607             | 27           | 2.707             | 8.43                    | 10.00       | 11.58       | 13.47       | 14.73       | 15.51       | 16.30       | 17.87       | 19.45       | 19.92       | 21.02       | 24.17       | 27.32       | 30.47       |
| 1.040       | 25                    | 2.506             | 26           | 2.607             | 8.58                    | 10.16       | 11.73       | 13.62       | 14.88       | 15.67       | 16.45       | 18.03       | 19.60       | 20.08       | 21.18       | 24.33       | 27.48       | 30.63       |
| 1.042       | 48                    | 4.812             | 50           | 5.013             | 6.46                    | 8.03        | 9.92        | 11.18       | 11.97       | 12.75       | 14.33       | 15.90       | 17.48       | 17.95       | 19.05       | 22.60       | 25.75       | 28.90       |
| 1.050       | 40                    | 4.010             | 42           | 4.211             | 6.14                    | 7.72        | 9.29        | 11.18       | 12.44       | 13.23       | 14.01       | 15.59       | 17.16       | 17.64       | 18.74       | 21.89       | 25.04       | 28.19       |
| 1.050       | 60                    | 6.015             | 63           | 6.316             |                         |             |             | 7.95        | 9.21        | 10.00       | 10.78       | 12.36       | 13.93       | 14.41       | 15.51       | 18.66       | 21.81       | 24.96       |
| 1.051       | 39                    | 3.910             | 41           | 4.110             | 6.30                    | 7.88        | 9.45        | 11.34       | 12.60       | 13.39       | 14.17       | 15.75       | 17.32       | 17.80       | 18.90       | 22.05       | 25.20       | 28.35       |
| 1.053       | 38                    | 3.810             | 40           | 4.010             | 6.46                    | 8.03        | 9.61        | 11.50       | 12.76       | 13.54       | 14.33       | 15.90       | 17.48       | 17.95       | 19.05       | 22.20       | 25.35       | 28.50       |
| 1.054       | 37                    | 3.709             | 39           | 3.910             | 6.62                    | 8.19        | 9.77        | 11.66       | 12.92       | 13.70       | 14.49       | 16.06       | 17.64       | 18.11       | 19.21       | 22.36       | 25.51       | 28.66       |
| 1.056       | 36                    | 3.609             | 38           | 3.810             | 6.77                    | 8.35        | 9.92        | 11.81       | 13.07       | 13.86       | 14.64       | 16.22       | 17.79       | 18.27       | 19.37       | 22.52       | 25.67       | 28.82       |
| 1.056       | 71                    | 7.118             | 75           | 7.519             |                         |             |             |             | 8.19        | 8.97        | 9.76        | 11.34       | 12.91       | 13.38       | 14.48       | 17.63       | 20.78       | 23.93       |
| 1.057       | 35                    | 3.509             | 37           | 3.709             | 6.93                    | 8.51        | 10.08       | 11.97       | 13.23       | 14.02       | 14.80       | 16.38       | 17.95       | 18.43       | 19.53       | 22.68       | 25.83       | 28.98       |
| 1.057       | 53                    | 5.314             | 56           | 5.614             |                         |             |             | 7.17        | 9.06        | 10.32       | 11.10       | 11.89       | 13.46       | 15.04       | 16.61       | 19.76       | 22.91       | 26.06       |
| 1.059       | 34                    | 3.409             | 36           | 3.609             | 7.09                    | 8.66        | 10.24       | 12.13       | 13.39       | 14.17       | 14.96       | 16.53       | 18.11       | 18.58       | 19.68       | 22.83       | 25.98       | 29.13       |
| 1.060       | 50                    | 5.013             | 53           | 5.314             |                         |             |             | 6.06        | 7.64        | 9.53        | 10.79       | 11.57       | 12.36       | 13.93       | 15.51       | 18.08       | 21.25       | 24.40       |
| 1.060       | 67                    | 6.717             | 71           | 7.118             |                         |             |             |             | 8.03        | 8.82        | 9.60        | 11.18       | 12.75       | 13.23       | 14.33       | 17.48       | 20.63       | 23.78       |
| 1.061       | 33                    | 3.308             | 35           | 3.509             | 7.25                    | 8.82        | 10.40       | 12.29       | 13.55       | 14.33       | 15.12       | 16.69       | 18.27       | 18.74       | 19.84       | 22.99       | 26.14       | 29.29       |
| 1.063       | 32                    | 3.208             | 34           | 3.409             | 7.40                    | 8.98        | 10.55       | 12.44       | 13.70       | 14.49       | 15.27       | 16.85       | 18.42       | 18.90       | 20.00       | 23.15       | 26.30       | 29.45       |
| 1.063       | 63                    | 6.316             | 67           | 6.717             |                         |             |             | 7.40        | 8.66        | 9.45        | 10.23       | 11.81       | 13.38       | 13.86       | 14.96       | 18.11       | 21.26       | 24.41       |
| 1.065       | 31                    | 3.108             | 33           | 3.308             | 7.56                    | 9.14        | 10.71       | 12.60       | 13.86       | 14.65       | 15.43       | 17.01       | 18.58       | 19.06       | 20.16       | 23.31       | 26.46       | 29.61       |
| 1.067       | 30</                  |                   |              |                   |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |



# SELECTION

## 8M HT500 Selection Table (Continued)

| Speed Ratio | Sprocket Combinations |                   |              |                   | Center Distance, Inches |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-------------|-----------------------|-------------------|--------------|-------------------|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|             | Driver                |                   | Driven       |                   | 1792-8MX                | 2000-8MX | 2200-8MX | 2240-8MX | 2400-8MX | 2520-8MX | 2600-8MX | 2800-8MX | 2840-8MX | 3048-8MX | 3200-8MX | 3280-8MX | 3600-8MX | 4000-8MX | 4400-8MX | 4480-8MX |
|             | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|             | Length Factor*        |                   |              |                   | 1.18                    | 1.22     | 1.26     | 1.26     | 1.29     | 1.31     | 1.32     | 1.35     | 1.36     | 1.38     | 1.40     | 1.41     | 1.45     | 1.49     | 1.52     | 1.53     |
| 1.000       | 22                    | 2.206             | 22           | 2.206             | 31.81                   | 35.90    | 39.84    | 40.63    | 43.78    | 46.14    | 47.71    | 51.65    | 52.44    | 56.53    | 59.52    | 61.10    | 67.40    | 75.27    | 83.15    | 84.72    |
| 1.000       | 25                    | 2.506             | 25           | 2.506             | 31.34                   | 35.43    | 39.37    | 40.16    | 43.31    | 45.67    | 47.24    | 51.18    | 51.97    | 56.06    | 59.05    | 60.63    | 66.93    | 74.80    | 82.68    | 84.25    |
| 1.000       | 26                    | 2.607             | 26           | 2.607             | 31.18                   | 35.27    | 39.21    | 40.00    | 43.15    | 45.51    | 47.08    | 51.02    | 51.81    | 55.90    | 58.89    | 60.47    | 66.77    | 74.64    | 82.52    | 84.09    |
| 1.000       | 27                    | 2.707             | 27           | 2.707             | 31.02                   | 35.12    | 39.05    | 39.84    | 42.99    | 45.35    | 46.93    | 50.87    | 51.65    | 55.75    | 58.74    | 60.31    | 66.61    | 74.49    | 82.36    | 83.94    |
| 1.000       | 28                    | 2.807             | 28           | 2.807             | 30.87                   | 34.96    | 38.90    | 39.69    | 42.84    | 45.20    | 46.77    | 50.71    | 51.50    | 55.59    | 58.58    | 60.16    | 66.46    | 74.33    | 82.21    | 83.78    |
| 1.000       | 29                    | 2.907             | 29           | 2.907             | 30.71                   | 34.80    | 38.74    | 39.53    | 42.68    | 45.04    | 46.61    | 50.55    | 51.34    | 55.43    | 58.42    | 60.00    | 66.30    | 74.17    | 82.05    | 83.62    |
| 1.000       | 30                    | 3.008             | 30           | 3.008             | 30.55                   | 34.65    | 38.58    | 39.37    | 42.52    | 44.88    | 46.46    | 50.40    | 51.18    | 55.28    | 58.27    | 59.84    | 66.14    | 74.02    | 81.89    | 83.47    |
| 1.000       | 31                    | 3.108             | 31           | 3.108             | 30.39                   | 34.49    | 38.42    | 39.21    | 42.36    | 44.72    | 46.30    | 50.24    | 51.02    | 55.12    | 58.11    | 59.68    | 65.98    | 73.86    | 81.73    | 83.31    |
| 1.000       | 32                    | 3.208             | 32           | 3.208             | 30.24                   | 34.33    | 38.27    | 39.06    | 42.21    | 44.57    | 46.14    | 50.08    | 50.87    | 54.96    | 57.95    | 59.53    | 65.83    | 73.70    | 81.58    | 83.15    |
| 1.000       | 33                    | 3.308             | 33           | 3.308             | 30.08                   | 34.17    | 38.11    | 38.90    | 42.05    | 44.41    | 45.98    | 49.92    | 50.71    | 54.80    | 57.79    | 59.37    | 65.67    | 73.54    | 81.42    | 82.99    |
| 1.000       | 34                    | 3.409             | 34           | 3.409             | 29.92                   | 34.02    | 37.95    | 38.74    | 41.89    | 44.25    | 45.83    | 49.77    | 50.55    | 54.65    | 57.64    | 59.21    | 65.51    | 73.39    | 81.26    | 82.84    |
| 1.000       | 35                    | 3.509             | 35           | 3.509             | 29.76                   | 33.86    | 37.79    | 38.58    | 41.73    | 44.09    | 45.67    | 49.61    | 50.39    | 54.49    | 57.48    | 59.05    | 65.35    | 73.23    | 81.10    | 82.68    |
| 1.000       | 36                    | 3.609             | 36           | 3.609             | 29.61                   | 33.70    | 37.64    | 38.43    | 41.58    | 43.94    | 45.51    | 49.45    | 50.24    | 54.33    | 57.32    | 58.90    | 65.20    | 73.07    | 80.95    | 82.52    |
| 1.000       | 37                    | 3.709             | 37           | 3.709             | 29.45                   | 33.54    | 37.48    | 38.27    | 41.42    | 43.78    | 45.35    | 49.29    | 50.08    | 54.17    | 57.16    | 58.74    | 65.04    | 72.91    | 80.79    | 82.36    |
| 1.000       | 38                    | 3.810             | 38           | 3.810             | 29.29                   | 33.39    | 37.32    | 38.11    | 41.26    | 43.62    | 45.20    | 49.14    | 49.92    | 54.02    | 57.01    | 58.58    | 64.88    | 72.76    | 80.63    | 82.21    |
| 1.000       | 39                    | 3.910             | 39           | 3.910             | 29.13                   | 33.23    | 37.16    | 37.95    | 41.10    | 43.46    | 45.04    | 48.98    | 49.76    | 53.86    | 56.85    | 58.42    | 64.72    | 72.60    | 80.47    | 82.05    |
| 1.000       | 40                    | 4.010             | 40           | 4.010             | 28.98                   | 33.07    | 37.01    | 37.80    | 40.95    | 43.31    | 44.88    | 48.82    | 49.61    | 53.70    | 56.69    | 58.27    | 64.57    | 72.44    | 80.32    | 81.89    |
| 1.000       | 41                    | 4.110             | 41           | 4.110             | 28.82                   | 32.91    | 36.85    | 37.64    | 40.79    | 43.15    | 44.72    | 48.66    | 49.45    | 53.54    | 56.53    | 58.11    | 64.41    | 72.28    | 80.16    | 81.73    |
| 1.000       | 42                    | 4.211             | 42           | 4.211             | 28.66                   | 32.76    | 36.69    | 37.48    | 40.63    | 42.99    | 44.57    | 48.51    | 49.29    | 53.39    | 56.38    | 57.95    | 64.25    | 72.13    | 80.00    | 81.58    |
| 1.000       | 45                    | 4.511             | 45           | 4.511             | 28.19                   | 32.28    | 36.22    | 37.01    | 40.16    | 42.52    | 44.09    | 48.03    | 48.82    | 52.91    | 55.90    | 57.48    | 63.78    | 71.65    | 79.53    | 81.10    |
| 1.000       | 48                    | 4.812             | 48           | 4.812             | 27.72                   | 31.81    | 35.75    | 36.54    | 39.69    | 42.05    | 43.62    | 47.56    | 48.35    | 52.44    | 55.43    | 57.01    | 63.31    | 71.18    | 79.06    | 80.63    |
| 1.000       | 50                    | 5.013             | 50           | 5.013             | 27.40                   | 31.50    | 35.43    | 36.22    | 39.37    | 41.73    | 43.31    | 47.25    | 48.03    | 52.13    | 55.12    | 56.69    | 62.99    | 70.87    | 78.74    | 80.32    |
| 1.000       | 53                    | 5.314             | 53           | 5.314             | 26.93                   | 31.02    | 34.96    | 35.75    | 38.90    | 41.26    | 42.83    | 46.77    | 47.56    | 51.65    | 54.64    | 56.22    | 62.52    | 70.39    | 78.27    | 79.84    |
| 1.000       | 56                    | 5.614             | 56           | 5.614             | 26.46                   | 30.55    | 34.49    | 35.28    | 38.43    | 40.79    | 42.36    | 46.30    | 47.09    | 51.18    | 54.17    | 55.75    | 62.05    | 69.92    | 77.80    | 79.37    |
| 1.000       | 60                    | 6.015             | 60           | 6.015             | 25.83                   | 29.92    | 33.86    | 34.65    | 37.80    | 40.16    | 41.73    | 45.67    | 46.46    | 50.55    | 53.54    | 55.12    | 61.42    | 69.29    | 77.17    | 78.74    |
| 1.000       | 63                    | 6.316             | 63           | 6.316             | 25.35                   | 29.45    | 33.38    | 34.17    | 37.32    | 39.68    | 41.26    | 45.20    | 45.98    | 50.08    | 53.07    | 54.64    | 60.94    | 68.82    | 76.69    | 78.27    |
| 1.000       | 67                    | 6.717             | 67           | 6.717             | 24.72                   | 28.82    | 32.75    | 33.54    | 36.69    | 39.05    | 40.63    | 44.57    | 45.35    | 49.45    | 52.44    | 54.01    | 60.31    | 68.19    | 76.06    | 77.64    |
| 1.000       | 71                    | 7.118             | 71           | 7.118             | 24.09                   | 28.19    | 32.12    | 32.91    | 36.06    | 38.42    | 40.00    | 43.94    | 44.72    | 48.82    | 51.81    | 53.38    | 59.68    | 67.56    | 75.43    | 77.01    |
| 1.000       | 75                    | 7.519             | 75           | 7.519             | 23.46                   | 27.56    | 31.49    | 32.28    | 35.43    | 37.79    | 39.37    | 43.31    | 44.09    | 48.19    | 51.18    | 52.75    | 59.05    | 66.93    | 74.80    | 76.38    |
| 1.000       | 80                    | 8.020             | 80           | 8.020             | 22.68                   | 26.77    | 30.71    | 31.50    | 34.65    | 37.01    | 38.58    | 42.52    | 43.31    | 47.40    | 50.39    | 51.97    | 58.27    | 66.14    | 74.02    | 75.59    |
| 1.024       | 41                    | 4.110             | 42           | 4.211             | 28.74                   | 32.83    | 36.77    | 37.56    | 40.71    | 43.07    | 44.64    | 48.58    | 49.37    | 53.46    | 56.45    | 58.03    | 64.33    | 72.20    | 80.08    | 81.65    |
| 1.025       | 40                    | 4.010             | 41           | 4.110             | 28.90                   | 32.99    | 36.93    | 37.72    | 40.87    | 43.23    | 44.80    | 48.74    | 49.53    | 53.62    | 56.61    | 58.19    | 64.49    | 72.36    | 80.24    | 81.81    |
| 1.026       | 38                    | 3.810             | 39           | 3.910             | 29.21                   | 33.31    | 37.24    | 38.03    | 41.18    | 43.54    | 45.12    | 49.06    | 49.84    | 53.94    | 56.93    | 58.50    | 64.80    | 72.68    | 80.55    | 82.13    |
| 1.026       | 39                    | 3.910             | 40           | 4.010             | 29.05                   | 33.15    | 37.08    | 37.87    | 41.02    | 43.38    | 44.96    | 48.90    | 49.68    | 53.78    | 56.77    | 58.34    | 64.64    | 72.52    | 80.39    | 81.97    |
| 1.027       | 37                    | 3.709             | 38           | 3.810             | 29.37                   | 33.46    | 37.40    | 38.19    | 41.34    | 43.70    | 45.27    | 49.21    | 50.00    | 54.09    | 57.08    | 58.66    | 64.96    | 72.83    | 80.71    | 82.28    |
| 1.028       | 36                    | 3.609             | 37           | 3.709             | 29.53                   | 33.62    | 37.56    | 38.35    | 41.50    | 43.86    | 45.43    | 49.37    | 50.16    | 54.25    | 57.24    | 58.82    | 65.12    | 72.99    | 80.87    | 82.44    |
| 1.029       | 34                    | 3.409             | 35           | 3.509             | 29.84                   | 33.94    | 37.87    | 38.66    | 41.81    | 44.17    | 45.75    | 49.69    | 50.47    | 54.57    | 57.56    | 59.13    | 65.43    | 73.31    | 81.18    | 82.76    |
| 1.029       | 35                    | 3.509             | 36           | 3.609             | 29.68                   | 33.78    | 37.71    | 38.50    | 41.65    | 44.01    | 45.59    | 49.53    | 50.31    | 54.41    | 57.40    | 58.97    | 65.27    | 73.15    | 81.02    | 82.60    |
| 1.030       | 33                    | 3.308             | 34           | 3.409             | 30.00                   | 34.09    | 38.03    | 38.82    | 41.97    | 44.33    | 45.90    | 49.84    | 50.63    | 54.72    | 57.71    | 59.29    | 65.59    | 73.46    | 81.34    | 82.91    |
| 1.031       | 32                    | 3.208             | 33           | 3.308             | 30.16                   | 34.25    | 38.19    | 38.98    | 42.13    | 44.49    | 46.06    | 50.00    | 50.79    | 54.88    | 57.87    | 59.45    | 65.75    | 73.62    | 81.50    | 83.07    |
| 1.032       | 31                    | 3.108             | 32           | 3.208             | 30.31                   | 34.41    | 38.34    | 39.13    | 42.28    | 44.64    | 46.22    | 50.16    | 50.94    | 55.04    | 58.03    | 59.60    | 65.90    | 73.78    | 81.65    | 83.23    |
| 1.033       | 30                    | 3.008             | 31           | 3.108             | 30.47                   | 34.57    | 38.50    | 39.29    | 42.44    | 44.80    | 46.38    | 50.32    | 51.10    | 55.20    | 58.19    | 59.76    | 66.06    | 73.94    | 81.81    | 83.39    |
| 1.034       | 29                    | 2.907             | 30           | 3.008             | 30.63                   | 34.72    | 38.66    | 39.45    | 42.60    | 44.96    | 46.53    | 50.47    | 51.26    | 55.35    | 58.34    | 59.92    | 66.22    | 74.09    | 81.97    | 83.54    |
| 1.036       | 28                    | 2.807             | 29           | 2.907             | 30.79                   | 34.88    | 38.82    | 39.61    | 42.76    | 45.12    | 46.69    | 50.63    | 51.42    | 55.51    | 58.50    | 60.08    | 66.38    | 74.25    | 82.13    | 83.70    |
| 1.037       | 27                    | 2.707             | 28           | 2.807             | 30.94                   | 35.04    | 38.97    | 39.76    | 42.91    | 45.27    | 46.85    | 50.79    | 51.57    | 55.67    | 58.66    | 60.23    | 66.53    | 74.41    | 82.28    | 83.86    |
| 1.038       | 26                    | 2.607             | 27           | 2.707             | 31.10                   | 35.20    | 39.13    | 39.92    | 43.07    | 45.43    | 47.01    | 50.95    | 51.73    | 55.83    | 58.82    | 60.39    | 66.69    | 74.57    | 82.44    | 84.02    |
| 1.040       | 25                    | 2.506             | 26           | 2.607             | 31.26                   | 35.35    | 39.29    | 40.08    | 43.23    | 45.59    | 47.16    | 51.10    | 51.89    | 55.98    | 58.97    | 60.55    | 66.85    | 74.72    | 82.60    | 84.17    |
| 1.042       | 48                    | 4.812             | 50           | 5.013             | 27.56                   | 31.65    | 35.59    | 36.38    | 39.53    | 41.89    | 43.46    | 47.40    | 48.19    | 52.28    | 55.27    | 56.85    | 63.15    | 71.02    | 78.90    | 80.47    |
| 1.050       | 40                    | 4.010             | 42           | 4.211             | 28.82                   | 32.91    | 36.85    | 37.64    | 40.79    | 43.15    | 44.72    | 48.66    | 49.45    | 53.54    | 56.53    | 58.11    | 64.41    | 72.28    | 80.16    | 81.73    |
| 1.050       | 60                    | 6.015             | 63           | 6.316             | 25.59                   | 29.68    | 33.62    | 34.41    | 37.56    | 39.92    | 41.49    | 45.44    | 46.22    | 50.32    | 53.31    | 54.88    | 61.18    | 69.06    | 76.93    | 78.51    |
| 1.051       | 39                    | 3.910             | 41           | 4.110             | 28.98                   | 33.      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |



# SELECTION



## 8M HT500 Selection Table

| Speed Ratio | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|             | Driver                |                   | Driven       |                   | 640-8MX                 | 720-8MX     | 800-8MX     | 896-8MX     | 960-8MX     | 1000-8MX    | 1040-8MX    | 1120-8MX    | 1200-8MX    | 1224-8MX    | 1280-8MX    | 1440-8MX    | 1600-8MX    | 1760-8MX    |
|             | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |
|             | <b>Length Factor*</b> |                   |              |                   | <b>0.79</b>             | <b>0.83</b> | <b>0.87</b> | <b>0.91</b> | <b>0.94</b> | <b>0.96</b> | <b>0.97</b> | <b>1.00</b> | <b>1.03</b> | <b>1.03</b> | <b>1.05</b> | <b>1.10</b> | <b>1.14</b> | <b>1.17</b> |
| 1.083       | 36                    | 3.609             | 39           | 3.910             | 6.69                    | 8.27        | 9.84        | 11.73       | 12.99       | 13.78       | 14.56       | 16.14       | 17.71       | 18.19       | 19.29       | 22.44       | 25.59       | 28.74       |
| 1.086       | 35                    | 3.509             | 38           | 3.810             | 6.85                    | 8.43        | 10.00       | 11.89       | 13.15       | 13.94       | 14.72       | 16.30       | 17.87       | 18.35       | 19.45       | 22.60       | 25.75       | 28.90       |
| 1.088       | 34                    | 3.409             | 37           | 3.709             | 7.01                    | 8.58        | 10.16       | 12.05       | 13.31       | 14.09       | 14.88       | 16.45       | 18.03       | 18.50       | 19.60       | 22.75       | 25.90       | 29.05       |
| 1.091       | 33                    | 3.308             | 36           | 3.609             | 7.17                    | 8.74        | 10.32       | 12.21       | 13.47       | 14.25       | 15.04       | 16.61       | 18.19       | 18.66       | 19.76       | 22.91       | 26.06       | 29.21       |
| 1.094       | 32                    | 3.208             | 35           | 3.509             | 7.32                    | 8.90        | 10.47       | 12.36       | 13.62       | 14.41       | 15.19       | 16.77       | 18.34       | 18.82       | 19.92       | 23.07       | 26.22       | 29.37       |
| 1.097       | 31                    | 3.108             | 34           | 3.409             | 7.48                    | 9.06        | 10.63       | 12.52       | 13.78       | 14.57       | 15.35       | 16.93       | 18.50       | 18.98       | 20.08       | 23.23       | 26.38       | 29.53       |
| 1.098       | 41                    | 4.110             | 45           | 4.511             | 5.83                    | 7.40        | 8.98        | 10.87       | 12.13       | 12.91       | 13.70       | 15.27       | 16.85       | 17.32       | 18.42       | 21.57       | 24.72       | 27.87       |
| 1.100       | 30                    | 3.008             | 33           | 3.308             | 7.64                    | 9.21        | 10.79       | 12.68       | 13.94       | 14.72       | 15.51       | 17.08       | 18.66       | 19.13       | 20.23       | 23.38       | 26.53       | 29.68       |
| 1.103       | 29                    | 2.907             | 32           | 3.208             | 7.80                    | 9.37        | 10.95       | 12.84       | 14.10       | 14.88       | 15.67       | 17.24       | 18.82       | 19.29       | 20.39       | 23.54       | 26.69       | 29.84       |
| 1.104       | 48                    | 4.812             | 53           | 5.314             | 6.22                    | 7.79        | 9.68        | 10.94       | 11.73       | 12.51       | 14.09       | 15.67       | 16.14       | 17.24       | 20.39       | 23.54       | 26.69       |             |
| 1.105       | 38                    | 3.810             | 42           | 4.211             | 6.30                    | 7.87        | 9.45        | 11.34       | 12.60       | 13.38       | 14.17       | 15.74       | 17.32       | 17.79       | 18.89       | 22.04       | 25.19       | 28.34       |
| 1.107       | 28                    | 2.807             | 31           | 3.108             | 7.95                    | 9.53        | 11.10       | 12.99       | 14.25       | 15.04       | 15.82       | 17.40       | 18.97       | 19.45       | 20.55       | 23.70       | 26.85       | 30.00       |
| 1.108       | 37                    | 3.709             | 41           | 4.110             | 6.46                    | 8.03        | 9.61        | 11.50       | 12.76       | 13.54       | 14.33       | 15.90       | 17.48       | 17.95       | 19.05       | 22.20       | 25.35       | 28.50       |
| 1.111       | 27                    | 2.707             | 30           | 3.008             | 8.11                    | 9.69        | 11.26       | 13.15       | 14.41       | 15.20       | 15.98       | 17.56       | 19.13       | 19.61       | 20.71       | 23.86       | 27.01       | 30.16       |
| 1.111       | 36                    | 3.609             | 40           | 4.010             | 6.61                    | 8.19        | 9.76        | 11.65       | 12.91       | 13.70       | 14.48       | 16.06       | 17.63       | 18.11       | 19.21       | 22.36       | 25.51       | 28.66       |
| 1.111       | 45                    | 4.511             | 50           | 5.013             | 6.69                    | 8.27        | 10.16       | 11.42       | 12.20       | 12.99       | 14.56       | 16.14       | 16.61       | 17.71       | 20.86       | 24.01       | 27.16       |             |
| 1.114       | 35                    | 3.509             | 39           | 3.910             | 6.77                    | 8.35        | 9.92        | 11.81       | 13.07       | 13.86       | 14.64       | 16.22       | 17.79       | 18.27       | 19.37       | 22.52       | 25.67       | 28.82       |
| 1.115       | 26                    | 2.607             | 29           | 2.907             | 8.27                    | 9.84        | 11.42       | 13.31       | 14.57       | 15.35       | 16.14       | 17.71       | 19.29       | 19.76       | 20.86       | 24.01       | 27.16       | 30.31       |
| 1.117       | 60                    | 6.015             | 67           | 6.717             | 6.61                    | 8.19        | 9.76        | 11.65       | 12.91       | 13.70       | 14.48       | 16.06       | 17.63       | 18.11       | 19.21       | 22.36       | 25.51       | 28.66       |
| 1.118       | 34                    | 3.409             | 38           | 3.810             | 6.93                    | 8.50        | 10.08       | 11.97       | 13.23       | 14.01       | 14.80       | 16.37       | 17.95       | 18.42       | 19.52       | 22.67       | 25.82       | 28.97       |
| 1.119       | 67                    | 6.717             | 75           | 7.519             | 6.69                    | 8.27        | 10.16       | 11.42       | 12.20       | 12.99       | 14.56       | 16.14       | 16.61       | 17.71       | 20.86       | 24.01       | 27.16       |             |
| 1.120       | 25                    | 2.506             | 28           | 2.807             | 8.43                    | 10.00       | 11.58       | 13.47       | 14.73       | 15.51       | 16.30       | 17.87       | 19.45       | 19.92       | 21.02       | 24.17       | 27.32       | 30.47       |
| 1.120       | 50                    | 5.013             | 56           | 5.614             | 6.69                    | 8.27        | 10.16       | 11.42       | 12.20       | 12.99       | 14.56       | 16.14       | 16.61       | 17.71       | 20.86       | 24.01       | 27.16       |             |
| 1.121       | 33                    | 3.308             | 37           | 3.709             | 7.09                    | 8.66        | 10.24       | 12.13       | 13.39       | 14.17       | 14.96       | 16.53       | 18.11       | 18.58       | 19.68       | 22.83       | 25.98       | 29.13       |
| 1.125       | 32                    | 3.208             | 36           | 3.609             | 7.24                    | 8.82        | 10.39       | 12.28       | 13.54       | 14.33       | 15.11       | 16.69       | 18.26       | 18.74       | 19.84       | 22.99       | 26.14       | 29.29       |
| 1.125       | 40                    | 4.010             | 45           | 4.511             | 5.90                    | 7.48        | 9.05        | 10.94       | 12.21       | 12.99       | 13.78       | 15.35       | 16.93       | 17.40       | 18.50       | 21.65       | 24.80       | 27.95       |
| 1.125       | 56                    | 5.614             | 63           | 6.316             | 6.69                    | 8.27        | 10.16       | 11.42       | 12.20       | 12.99       | 14.56       | 16.14       | 16.61       | 17.71       | 20.86       | 24.01       | 27.16       |             |
| 1.125       | 80                    | 8.020             | 90           | 9.023             | 6.69                    | 8.27        | 10.16       | 11.42       | 12.20       | 12.99       | 14.56       | 16.14       | 16.61       | 17.71       | 20.86       | 24.01       | 27.16       |             |
| 1.127       | 63                    | 6.316             | 71           | 7.118             | 6.69                    | 8.27        | 10.16       | 11.42       | 12.20       | 12.99       | 14.56       | 16.14       | 16.61       | 17.71       | 20.86       | 24.01       | 27.16       |             |
| 1.127       | 71                    | 7.118             | 80           | 8.020             | 6.69                    | 8.27        | 10.16       | 11.42       | 12.20       | 12.99       | 14.56       | 16.14       | 16.61       | 17.71       | 20.86       | 24.01       | 27.16       |             |
| 1.129       | 31                    | 3.108             | 35           | 3.509             | 7.40                    | 8.98        | 10.55       | 12.44       | 13.70       | 14.49       | 15.27       | 16.85       | 18.42       | 18.90       | 20.00       | 23.15       | 26.30       | 29.45       |
| 1.132       | 53                    | 5.314             | 60           | 6.015             | 6.69                    | 8.27        | 10.16       | 11.42       | 12.20       | 12.99       | 14.56       | 16.14       | 16.61       | 17.71       | 20.86       | 24.01       | 27.16       |             |
| 1.133       | 30                    | 3.008             | 34           | 3.409             | 7.56                    | 9.13        | 10.71       | 12.60       | 13.86       | 14.64       | 15.43       | 17.00       | 18.58       | 19.05       | 20.15       | 23.30       | 26.45       | 29.60       |
| 1.135       | 37                    | 3.709             | 42           | 4.211             | 6.37                    | 7.95        | 9.53        | 11.42       | 12.68       | 13.46       | 14.25       | 15.82       | 17.40       | 17.87       | 18.97       | 22.12       | 25.27       | 28.42       |
| 1.136       | 22                    | 2.206             | 25           | 2.506             | 8.90                    | 10.47       | 12.05       | 13.94       | 15.20       | 15.98       | 16.77       | 18.34       | 19.92       | 20.39       | 21.49       | 24.64       | 27.79       | 30.94       |
| 1.138       | 29                    | 2.907             | 33           | 3.308             | 7.72                    | 9.29        | 10.87       | 12.76       | 14.02       | 14.80       | 15.59       | 17.16       | 18.74       | 19.21       | 20.31       | 23.46       | 26.61       | 29.76       |
| 1.139       | 36                    | 3.609             | 41           | 4.110             | 6.53                    | 8.11        | 9.68        | 11.57       | 12.84       | 13.62       | 14.41       | 15.98       | 17.56       | 18.03       | 19.13       | 22.28       | 25.43       | 28.58       |
| 1.143       | 28                    | 2.807             | 32           | 3.208             | 7.87                    | 9.45        | 11.02       | 12.91       | 14.17       | 14.96       | 15.74       | 17.32       | 18.89       | 19.37       | 20.47       | 23.62       | 26.77       | 29.92       |
| 1.143       | 35                    | 3.509             | 40           | 4.010             | 6.69                    | 8.27        | 9.84        | 11.73       | 12.99       | 13.78       | 14.56       | 16.14       | 17.71       | 18.19       | 19.29       | 22.44       | 25.59       | 28.74       |
| 1.143       | 42                    | 4.211             | 48           | 4.812             | 5.51                    | 7.08        | 8.66        | 10.55       | 11.81       | 12.59       | 13.38       | 14.96       | 16.53       | 17.01       | 18.11       | 21.26       | 24.41       | 27.56       |
| 1.147       | 34                    | 3.409             | 39           | 3.910             | 6.85                    | 8.42        | 10.00       | 11.89       | 13.15       | 13.93       | 14.72       | 16.29       | 17.87       | 18.34       | 19.45       | 22.60       | 25.75       | 28.90       |
| 1.148       | 27                    | 2.707             | 31           | 3.108             | 8.03                    | 9.61        | 11.18       | 13.07       | 14.33       | 15.12       | 15.90       | 17.48       | 19.05       | 19.53       | 20.63       | 23.78       | 26.93       | 30.08       |
| 1.152       | 33                    | 3.308             | 38           | 3.810             | 7.01                    | 8.58        | 10.16       | 12.05       | 13.31       | 14.09       | 14.88       | 16.45       | 18.03       | 18.50       | 19.60       | 22.75       | 25.90       | 29.05       |
| 1.154       | 26                    | 2.607             | 30           | 3.008             | 8.19                    | 9.76        | 11.34       | 13.23       | 14.49       | 15.27       | 16.06       | 17.63       | 19.21       | 19.68       | 20.78       | 23.93       | 27.08       | 30.23       |
| 1.154       | 39                    | 3.910             | 45           | 4.511             | 5.98                    | 7.56        | 9.13        | 11.02       | 12.28       | 13.07       | 13.85       | 15.43       | 17.00       | 17.48       | 18.58       | 21.73       | 24.88       | 28.03       |
| 1.156       | 32                    | 3.208             | 37           | 3.709             | 7.16                    | 8.74        | 10.31       | 12.20       | 13.47       | 14.25       | 15.04       | 16.61       | 18.19       | 18.66       | 19.76       | 22.91       | 26.06       | 29.21       |
| 1.160       | 25                    | 2.506             | 29           | 2.907             | 8.35                    | 9.92        | 11.50       | 13.39       | 14.65       | 15.43       | 16.22       | 17.79       | 19.37       | 19.84       | 20.94       | 24.09       | 27.24       | 30.39       |
| 1.161       | 31                    | 3.108             | 36           | 3.609             | 7.32                    | 8.90        | 10.47       | 12.36       | 13.62       | 14.41       | 15.19       | 16.77       | 18.34       | 18.82       | 19.92       | 23.07       | 26.22       | 29.37       |
| 1.167       | 30                    | 3.008             | 35           | 3.509             | 7.48                    | 9.05        | 10.63       | 12.52       | 13.78       | 14.56       | 15.35       | 16.92       | 18.50       | 18.97       | 20.07       | 23.22       | 26.37       | 29.52       |
| 1.167       | 36                    | 3.609             | 42           | 4.211             | 6.45                    | 8.03        | 9.60        | 11.49       | 12.75       | 13.54       | 14.33       | 15.90       | 17.48       | 17.95       | 19.05       | 22.20       | 25.35       | 28.50       |
| 1.167       | 48                    | 4.812             | 56           | 5.614             | 6.69                    | 8.27        | 10.16       | 11.42       | 12.20       | 12.99       | 14.56       | 16.14       | 16.61       | 17.71       | 20.86       | 24.01       | 27.16       |             |
| 1.171       | 35                    | 3.509             | 41           | 4.110             | 6.61                    | 8.19        | 9.76        | 11.65       | 12.91       | 13.70       | 14.48       | 16.06       | 17.63       | 18.11       | 19.21       | 22.36       | 25.51       | 28.66       |
| 1.171       | 41                    | 4.110             | 48           | 4.812             | 5.58                    | 7.16        | 8.74        | 10.63       | 11.89       | 12.67       | 13.46       | 15.03       | 16.61       | 17.08       | 18.18       | 21.33       | 24.49       | 27.64       |
| 1.172       | 29                    | 2.907             | 34           | 3.409             | 7.64                    | 9.21        | 10.79       | 12.68       | 13.94       | 14.72       | 15.51       | 17.08       | 18.66       | 19.13       | 20.23       | 23.38       | 26.53       | 29.68       |
| 1.176       | 34                    | 3.409             | 40           | 4.010             | 6.77                    | 8.34        | 9.92        | 11.81       | 13.07       | 13.85       | 14.64       | 16.22       | 17.79       | 18.27       | 19.37       | 22.52       | 25.67       | 28.82       |
| 1.178       | 45                    | 4.511             | 53           | 5.314             | 6.45                    | 8.02        | 9.92        | 11.18       | 11.96       | 12.75       | 14.32       | 15.90       | 16.37       | 17.47       | 20.62       | 23.78       | 26.93       |             |
| 1.179       | 28                    | 2.807             | 33           | 3.308             | 7.79                    | 9.37        | 10.94       | 12.83       | 14.10       | 14.88       | 15.67       | 17.24       | 18.82       | 19.29       | 20.39       | 23.54       | 26.69       | 29.84       |
| 1.182       | 22                    | 2.206             | 26           | 2.607             | 8.82                    | 10.39       | 11.97       | 13.86       | 15.12       | 15.90       | 16.69       | 18.26       | 19.84       | 20.31       | 21.41       | 24.56       | 27.71       | 30.86       |
| 1.182       | 33                    | 3.308             | 39           | 3.910             | 6.92                    | 8.50        | 10.08       | 11.97       | 13.23       | 14.01       | 14.80       | 16.37       | 17.95       | 18.42       | 19.52       | 22.67       | 25.82       | 28.97       |
| 1.183       | 60                    | 6.015             | 71           | 7.118             | 6.69                    | 8.27        | 10.16       | 11.42       | 12.20       | 12.99       | 14.56       | 16.14       | 16.61       | 17.71       | 20.86       | 24.01       | 27.16       |             |
| 1.184       | 38                    | 3.810             | 45           | 4.511             | 6.05                    | 7.63        | 9.21        | 11.10       | 12.36       | 13.15       | 13.93       | 15.51       | 17.08       | 17.56       | 18.66       | 21.81       | 24.96       | 28.11       |
| 1.185       | 27                    | 2.707             | 32           | 3.208             | 7.95                    | 9.53        | 11.10       | 12.99       | 14.25       | 15.04       | 15.82       | 17.40       | 18.97       | 19.45       | 20.55       | 23.70       | 26.85       | 30.00       |
| 1.188       | 32                    | 3.208             | 38           | 3.810             | 7.08                    | 8.66        | 10.23       | 12.12       | 13.38       | 14.17       |             |             |             |             |             |             |             |             |





# SELECTION

## 8M HT500 Selection Table (Continued)

| Speed Ratio | Sprocket Combinations |                   |              |                   | Center Distance, Inches |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-------------|-----------------------|-------------------|--------------|-------------------|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|             | Driver                |                   | Driven       |                   | 1792-8MX                | 2000-8MX | 2200-8MX | 2240-8MX | 2400-8MX | 2520-8MX | 2600-8MX | 2800-8MX | 2840-8MX | 3048-8MX | 3200-8MX | 3280-8MX | 3600-8MX | 4000-8MX | 4400-8MX | 4480-8MX |
|             | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|             | Length Factor*        |                   |              |                   | 1.18                    | 1.22     | 1.26     | 1.26     | 1.29     | 1.31     | 1.32     | 1.35     | 1.36     | 1.38     | 1.40     | 1.41     | 1.45     | 1.49     | 1.52     | 1.53     |
| 1.000       | 22                    | 2.206             | 22           | 2.206             | 29.37                   | 33.46    | 37.40    | 38.19    | 41.34    | 43.70    | 45.27    | 49.21    | 50.00    | 54.09    | 57.08    | 58.66    | 64.96    | 72.83    | 80.71    | 82.28    |
| 1.000       | 25                    | 2.506             | 25           | 2.506             | 29.53                   | 33.62    | 37.56    | 38.35    | 41.50    | 43.86    | 45.43    | 49.37    | 50.16    | 54.25    | 57.24    | 58.82    | 65.12    | 72.99    | 80.87    | 82.44    |
| 1.000       | 26                    | 2.607             | 26           | 2.607             | 29.68                   | 33.78    | 37.71    | 38.50    | 41.65    | 44.01    | 45.59    | 49.53    | 50.31    | 54.41    | 57.40    | 58.97    | 65.27    | 73.15    | 81.02    | 82.60    |
| 1.000       | 27                    | 2.707             | 27           | 2.707             | 29.84                   | 33.94    | 37.87    | 38.66    | 41.81    | 44.17    | 45.75    | 49.69    | 50.47    | 54.57    | 57.56    | 59.13    | 65.43    | 73.31    | 81.18    | 82.76    |
| 1.000       | 28                    | 2.807             | 28           | 2.807             | 30.00                   | 34.09    | 38.03    | 38.82    | 41.97    | 44.33    | 45.90    | 49.84    | 50.63    | 54.72    | 57.71    | 59.29    | 65.59    | 73.46    | 81.34    | 82.91    |
| 1.000       | 29                    | 2.907             | 29           | 2.907             | 30.16                   | 34.25    | 38.19    | 38.98    | 42.13    | 44.49    | 46.06    | 50.00    | 50.79    | 54.88    | 57.87    | 59.45    | 65.75    | 73.62    | 81.50    | 83.07    |
| 1.000       | 30                    | 3.008             | 30           | 3.008             | 28.50                   | 32.60    | 36.53    | 37.32    | 40.47    | 42.83    | 44.41    | 48.35    | 49.13    | 53.23    | 56.22    | 57.79    | 64.09    | 71.97    | 79.84    | 81.42    |
| 1.000       | 31                    | 3.108             | 31           | 3.108             | 30.31                   | 34.41    | 38.34    | 39.13    | 42.28    | 44.64    | 46.22    | 50.16    | 50.94    | 55.04    | 58.03    | 59.60    | 65.90    | 73.78    | 81.65    | 83.23    |
| 1.000       | 32                    | 3.208             | 32           | 3.208             | 30.47                   | 34.57    | 38.50    | 39.29    | 42.44    | 44.80    | 46.38    | 50.32    | 51.10    | 55.20    | 58.19    | 59.76    | 66.06    | 73.94    | 81.81    | 83.39    |
| 1.000       | 33                    | 3.308             | 33           | 3.308             | 27.32                   | 31.42    | 35.35    | 36.14    | 39.29    | 41.65    | 43.23    | 47.17    | 47.95    | 52.05    | 55.04    | 56.61    | 62.91    | 70.79    | 78.66    | 80.24    |
| 1.000       | 34                    | 3.409             | 34           | 3.409             | 28.97                   | 33.07    | 37.00    | 37.79    | 40.94    | 43.30    | 44.88    | 48.82    | 49.60    | 53.70    | 56.69    | 58.26    | 64.57    | 72.44    | 80.32    | 81.89    |
| 1.000       | 35                    | 3.509             | 35           | 3.509             | 30.63                   | 34.72    | 38.66    | 39.45    | 42.60    | 44.96    | 46.53    | 50.47    | 51.26    | 55.35    | 58.34    | 59.92    | 66.22    | 74.09    | 81.97    | 83.54    |
| 1.000       | 36                    | 3.609             | 36           | 3.609             | 29.13                   | 33.23    | 37.16    | 37.95    | 41.10    | 43.46    | 45.04    | 48.98    | 49.76    | 53.86    | 56.85    | 58.42    | 64.72    | 72.60    | 80.47    | 82.05    |
| 1.000       | 37                    | 3.709             | 37           | 3.709             | 30.79                   | 34.88    | 38.82    | 39.61    | 42.76    | 45.12    | 46.69    | 50.63    | 51.42    | 55.51    | 58.50    | 60.08    | 66.38    | 74.25    | 82.13    | 83.70    |
| 1.000       | 38                    | 3.810             | 38           | 3.810             | 29.29                   | 33.39    | 37.32    | 38.11    | 41.26    | 43.62    | 45.20    | 49.14    | 49.92    | 54.02    | 57.01    | 58.58    | 64.88    | 72.76    | 80.63    | 82.21    |
| 1.000       | 39                    | 3.910             | 39           | 3.910             | 27.79                   | 31.89    | 35.82    | 36.61    | 39.76    | 42.12    | 43.70    | 47.64    | 48.42    | 52.52    | 55.51    | 57.08    | 63.38    | 71.26    | 79.13    | 80.71    |
| 1.000       | 40                    | 4.010             | 40           | 4.010             | 29.45                   | 33.54    | 37.48    | 38.27    | 41.42    | 43.78    | 45.35    | 49.29    | 50.08    | 54.17    | 57.16    | 58.74    | 65.04    | 72.91    | 80.79    | 82.36    |
| 1.000       | 41                    | 4.110             | 41           | 4.110             | 30.94                   | 35.04    | 38.97    | 39.76    | 42.91    | 45.27    | 46.85    | 50.79    | 51.57    | 55.67    | 58.66    | 60.23    | 66.53    | 74.41    | 82.28    | 83.86    |
| 1.000       | 42                    | 4.211             | 42           | 4.211             | 25.27                   | 29.37    | 33.30    | 34.09    | 37.24    | 39.60    | 41.18    | 45.12    | 45.90    | 50.00    | 52.99    | 54.56    | 60.86    | 68.74    | 76.61    | 78.19    |
| 1.000       | 45                    | 4.511             | 45           | 4.511             | 29.60                   | 33.70    | 37.63    | 38.42    | 41.57    | 43.93    | 45.51    | 49.45    | 50.23    | 54.33    | 57.32    | 58.89    | 65.19    | 73.07    | 80.94    | 82.52    |
| 1.000       | 48                    | 4.812             | 48           | 4.812             | 24.09                   | 28.19    | 32.12    | 32.91    | 36.06    | 38.42    | 40.00    | 43.94    | 44.72    | 48.82    | 51.81    | 53.38    | 59.68    | 67.56    | 75.43    | 77.01    |
| 1.000       | 50                    | 5.013             | 50           | 5.013             | 31.10                   | 35.20    | 39.13    | 39.92    | 43.07    | 45.43    | 47.01    | 50.95    | 51.73    | 55.83    | 58.82    | 60.39    | 66.69    | 74.57    | 82.44    | 84.02    |
| 1.000       | 53                    | 5.314             | 53           | 5.314             | 26.93                   | 31.02    | 34.96    | 35.75    | 38.90    | 41.26    | 42.83    | 46.77    | 47.56    | 51.65    | 54.64    | 56.22    | 62.52    | 70.39    | 78.27    | 79.84    |
| 1.000       | 56                    | 5.614             | 56           | 5.614             | 29.76                   | 33.86    | 37.79    | 38.58    | 41.73    | 44.09    | 45.67    | 49.61    | 50.39    | 54.49    | 57.48    | 59.05    | 65.35    | 73.23    | 81.10    | 82.68    |
| 1.000       | 60                    | 6.015             | 60           | 6.015             | 29.92                   | 34.02    | 37.95    | 38.74    | 41.89    | 44.25    | 45.83    | 49.77    | 50.55    | 54.65    | 57.64    | 59.21    | 65.51    | 73.39    | 81.26    | 82.84    |
| 1.000       | 63                    | 6.316             | 63           | 6.316             | 28.58                   | 32.68    | 36.61    | 37.40    | 40.55    | 42.91    | 44.49    | 48.43    | 49.21    | 53.31    | 56.30    | 57.87    | 64.17    | 72.05    | 79.92    | 81.50    |
| 1.000       | 67                    | 6.717             | 67           | 6.717             | 25.90                   | 30.00    | 33.93    | 34.72    | 37.87    | 40.23    | 41.81    | 45.75    | 46.53    | 50.63    | 53.62    | 55.19    | 61.49    | 69.37    | 77.24    | 78.82    |
| 1.000       | 71                    | 7.118             | 71           | 7.118             | 21.88                   | 25.98    | 29.92    | 30.71    | 33.86    | 36.22    | 37.79    | 41.73    | 42.52    | 46.61    | 49.60    | 51.18    | 57.48    | 65.35    | 73.23    | 74.80    |
| 1.000       | 75                    | 7.519             | 75           | 7.519             | 24.72                   | 28.82    | 32.75    | 33.54    | 36.69    | 39.05    | 40.63    | 44.57    | 45.35    | 49.45    | 52.44    | 54.01    | 60.31    | 68.19    | 76.06    | 77.64    |
| 1.000       | 80                    | 8.020             | 80           | 8.020             | 23.38                   | 27.48    | 31.41    | 32.20    | 35.35    | 37.71    | 39.29    | 43.23    | 44.01    | 48.11    | 51.10    | 52.67    | 58.97    | 66.85    | 74.72    | 76.30    |
| 1.024       | 41                    | 4.110             | 42           | 4.211             | 30.08                   | 34.17    | 38.11    | 38.90    | 42.05    | 44.41    | 45.98    | 49.92    | 50.71    | 54.80    | 57.79    | 59.37    | 65.67    | 73.54    | 81.42    | 82.99    |
| 1.025       | 40                    | 4.010             | 41           | 4.110             | 26.37                   | 30.47    | 34.41    | 35.20    | 38.35    | 40.71    | 42.28    | 46.22    | 47.01    | 51.10    | 54.09    | 55.67    | 61.97    | 69.84    | 77.72    | 79.29    |
| 1.026       | 38                    | 3.810             | 39           | 3.910             | 30.23                   | 34.33    | 38.26    | 39.05    | 42.20    | 44.56    | 46.14    | 50.08    | 50.86    | 54.96    | 57.95    | 59.52    | 65.82    | 73.70    | 81.57    | 83.15    |
| 1.026       | 39                    | 3.910             | 40           | 4.010             | 29.05                   | 33.15    | 37.08    | 37.87    | 41.02    | 43.38    | 44.96    | 48.90    | 49.68    | 53.78    | 56.77    | 58.34    | 64.64    | 72.52    | 80.39    | 81.97    |
| 1.027       | 37                    | 3.709             | 38           | 3.810             | 31.57                   | 35.67    | 39.60    | 40.39    | 43.54    | 45.90    | 47.48    | 51.42    | 52.20    | 56.30    | 59.29    | 60.86    | 67.16    | 75.04    | 82.91    | 84.49    |
| 1.028       | 36                    | 3.609             | 37           | 3.709             | 30.39                   | 34.49    | 38.42    | 39.21    | 42.36    | 44.72    | 46.30    | 50.24    | 51.02    | 55.12    | 58.11    | 59.68    | 65.98    | 73.86    | 81.73    | 83.31    |
| 1.029       | 34                    | 3.409             | 35           | 3.509             | 29.21                   | 33.31    | 37.24    | 38.03    | 41.18    | 43.54    | 45.12    | 49.06    | 49.84    | 53.94    | 56.93    | 58.50    | 64.80    | 72.68    | 80.55    | 82.13    |
| 1.029       | 35                    | 3.509             | 36           | 3.609             | 30.55                   | 34.65    | 38.58    | 39.37    | 42.52    | 44.88    | 46.46    | 50.40    | 51.18    | 55.28    | 58.27    | 59.84    | 66.14    | 74.02    | 81.89    | 83.47    |
| 1.030       | 33                    | 3.308             | 34           | 3.409             | 29.37                   | 33.46    | 37.40    | 38.19    | 41.34    | 43.70    | 45.27    | 49.21    | 50.00    | 54.09    | 57.08    | 58.66    | 64.96    | 72.83    | 80.71    | 82.28    |
| 1.031       | 32                    | 3.208             | 33           | 3.308             | 28.19                   | 32.28    | 36.22    | 37.01    | 40.16    | 42.52    | 44.09    | 48.03    | 48.82    | 52.91    | 55.90    | 57.48    | 63.78    | 71.65    | 79.53    | 81.10    |
| 1.032       | 31                    | 3.108             | 32           | 3.208             | 29.53                   | 33.62    | 37.56    | 38.35    | 41.50    | 43.86    | 45.43    | 49.37    | 50.16    | 54.25    | 57.24    | 58.82    | 65.12    | 72.99    | 80.87    | 82.44    |
| 1.033       | 30                    | 3.008             | 31           | 3.108             | 30.71                   | 34.80    | 38.74    | 39.53    | 42.68    | 45.04    | 46.61    | 50.55    | 51.34    | 55.43    | 58.42    | 60.00    | 66.30    | 74.17    | 82.05    | 83.62    |
| 1.034       | 29                    | 2.907             | 30           | 3.008             | 29.68                   | 33.78    | 37.71    | 38.50    | 41.65    | 44.01    | 45.59    | 49.53    | 50.31    | 54.41    | 57.40    | 58.97    | 65.27    | 73.15    | 81.02    | 82.60    |
| 1.036       | 28                    | 2.807             | 29           | 2.907             | 30.86                   | 34.96    | 38.89    | 39.68    | 42.83    | 45.19    | 46.77    | 50.71    | 51.49    | 55.59    | 58.58    | 60.15    | 66.45    | 74.33    | 82.20    | 83.78    |
| 1.037       | 27                    | 2.707             | 28           | 2.807             | 28.66                   | 32.75    | 36.69    | 37.48    | 40.63    | 42.99    | 44.57    | 48.51    | 49.29    | 53.39    | 56.38    | 57.95    | 64.25    | 72.13    | 80.00    | 81.58    |
| 1.038       | 26                    | 2.607             | 27           | 2.707             | 29.84                   | 33.94    | 37.87    | 38.66    | 41.81    | 44.17    | 45.75    | 49.69    | 50.47    | 54.57    | 57.56    | 59.13    | 65.43    | 73.31    | 81.18    | 82.76    |
| 1.040       | 25                    | 2.506             | 26           | 2.607             | 31.02                   | 35.12    | 39.05    | 39.84    | 42.99    | 45.35    | 46.93    | 50.87    | 51.65    | 55.75    | 58.74    | 60.31    | 66.61    | 74.49    | 82.36    | 83.94    |
| 1.042       | 48                    | 4.812             | 50           | 5.013             | 30.00                   | 34.09    | 38.03    | 38.82    | 41.97    | 44.33    | 45.90    | 49.84    | 50.63    | 54.72    | 57.71    | 59.29    | 65.59    | 73.46    | 81.34    | 82.91    |
| 1.050       | 40                    | 4.010             | 42           | 4.211             | 30.16                   | 34.25    | 38.19    | 38.98    | 42.13    | 44.49    | 46.06    | 50.00    | 50.79    | 54.88    | 57.87    | 59.45    | 65.75    | 73.62    | 81.50    | 83.07    |
| 1.050       | 60                    | 6.015             | 63           | 6.316             | 29.13                   | 33.23    | 37.16    | 37.95    | 41.10    | 43.46    | 45.04    | 48.98    | 49.76    | 53.86    | 56.85    | 58.42    | 64.72    | 72.60    | 80.47    | 82.05    |
| 1.051       | 39                    | 3.910             | 41           | 4.110             | 27.08                   | 31.18    | 35.11    | 35.90    | 39.05    | 41.41    | 42.99    | 46.93    | 47.71    | 51.81    | 54.80    | 56.38    | 62.68    | 70.55    | 78.43    | 80.00    |
| 1.053       | 38                    | 3.810             | 40           | 4.010             | 29.29                   | 33.38    | 37.32    | 38.11    | 41.26    | 43.62    | 45.20    | 49.14    | 49.92    | 54.02    | 57.01    | 58.58    | 64.88    | 72.76    | 80.63    | 82.21    |
| 1.054       | 37                    | 3.709             | 39           | 3.910             | 28.27                   | 32.36    | 36.30    | 37.09    | 40.24    | 42.60    | 44.17    | 48.11    | 48.90    | 52.99    | 55.98    | 57.56    | 63.86    | 71.73    | 79.61    | 81.18    |
| 1.056       | 36                    | 3.609             | 38           | 3.810             | 30.31                   | 34.41    | 38.34    | 39.13    | 42.28    | 44.64    | 46.22    | 50.16    | 50.94    | 55.04    | 58.03    | 59.60    | 65.90    | 73.78    | 81.65    | 83.23    |
| 1.056       | 71                    | 7.118             | 75           | 7.519             | 29.45                   | 33.54    | 37.48    | 38.27    | 41.42    | 43.78    | 45.35    | 49.29    | 50.08    | 54.17    | 57.16    | 58.74    | 65.04    | 72.91    | 80.79    | 82.36    |
| 1.0         |                       |                   |              |                   |                         |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |

# SELECTION



## 8M HT500 Selection Table

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 640-8MX                 | 720-8MX     | 800-8MX     | 896-8MX     | 960-8MX     | 1000-8MX    | 1040-8MX    | 1120-8MX    | 1200-8MX    | 1224-8MX    | 1280-8MX    | 1440-8MX    | 1600-8MX    | 1760-8MX    |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.79</b>             | <b>0.83</b> | <b>0.87</b> | <b>0.91</b> | <b>0.94</b> | <b>0.96</b> | <b>0.97</b> | <b>1.00</b> | <b>1.03</b> | <b>1.03</b> | <b>1.05</b> | <b>1.10</b> | <b>1.14</b> | <b>1.17</b> |
| 1.207                 | 29                    | 2.907             | 35           | 3.509             | 7.55                    | 9.13        | 10.71       | 12.60       | 13.86       | 14.64       | 15.43       | 17.00       | 18.58       | 19.05       | 20.15       | 23.30       | 26.45       | 29.60       |
| 1.212                 | 33                    | 3.308             | 40           | 4.010             | 6.84                    | 8.42        | 10.00       | 11.89       | 13.15       | 13.93       | 14.72       | 16.29       | 17.87       | 18.34       | 19.44       | 22.59       | 25.75       | 28.90       |
| 1.214                 | 28                    | 2.807             | 34           | 3.409             | 7.71                    | 9.29        | 10.86       | 12.75       | 14.01       | 14.80       | 15.59       | 17.16       | 18.74       | 19.21       | 20.31       | 23.46       | 26.61       | 29.76       |
| 1.216                 | 37                    | 3.709             | 45           | 4.511             | 6.13                    | 7.71        | 9.29        | 11.18       | 12.44       | 13.22       | 14.01       | 15.58       | 17.16       | 17.63       | 18.73       | 21.89       | 25.04       | 28.19       |
| 1.219                 | 32                    | 3.208             | 39           | 3.910             | 7.00                    | 8.58        | 10.15       | 12.04       | 13.30       | 14.09       | 14.88       | 16.45       | 18.03       | 18.50       | 19.60       | 22.75       | 25.90       | 29.05       |
| 1.220                 | 41                    | 4.110             | 50           | 5.013             | 5.42                    | 7.00        | 8.57        | 10.47       | 11.73       | 12.51       | 13.30       | 14.87       | 16.45       | 16.92       | 18.02       | 21.17       | 24.33       | 27.48       |
| 1.222                 | 27                    | 2.707             | 33           | 3.308             | 7.87                    | 9.45        | 11.02       | 12.91       | 14.17       | 14.96       | 15.74       | 17.32       | 18.89       | 19.37       | 20.47       | 23.62       | 26.77       | 29.92       |
| 1.226                 | 31                    | 3.108             | 38           | 3.810             | 7.16                    | 8.73        | 10.31       | 12.20       | 13.46       | 14.25       | 15.03       | 16.61       | 18.18       | 18.66       | 19.76       | 22.91       | 26.06       | 29.21       |
| 1.227                 | 22                    | 2.206             | 27           | 2.707             | 8.74                    | 10.31       | 11.89       | 13.78       | 15.04       | 15.82       | 16.61       | 18.18       | 19.76       | 20.23       | 21.33       | 24.49       | 27.64       | 30.79       |
| 1.231                 | 26                    | 2.607             | 32           | 3.208             | 8.03                    | 9.60        | 11.18       | 13.07       | 14.33       | 15.11       | 15.90       | 17.48       | 19.05       | 19.53       | 20.63       | 23.78       | 26.93       | 30.08       |
| 1.231                 | 39                    | 3.910             | 48           | 4.812             | 5.73                    | 7.31        | 8.89        | 10.78       | 12.04       | 12.83       | 13.61       | 15.19       | 16.76       | 17.24       | 18.34       | 21.49       | 24.64       | 27.79       |
| 1.233                 | 30                    | 3.008             | 37           | 3.709             | 7.32                    | 8.89        | 10.47       | 12.36       | 13.62       | 14.41       | 15.19       | 16.77       | 18.34       | 18.82       | 19.92       | 23.07       | 26.22       | 29.37       |
| 1.235                 | 34                    | 3.409             | 42           | 4.211             | 6.60                    | 8.18        | 9.76        | 11.65       | 12.91       | 13.69       | 14.48       | 16.06       | 17.63       | 18.11       | 19.21       | 22.36       | 25.51       | 28.66       |
| 1.240                 | 25                    | 2.506             | 31           | 3.108             | 8.19                    | 9.76        | 11.34       | 13.23       | 14.49       | 15.27       | 16.06       | 17.63       | 19.21       | 19.68       | 20.78       | 23.93       | 27.08       | 30.23       |
| 1.241                 | 29                    | 2.907             | 36           | 3.609             | 7.47                    | 9.05        | 10.63       | 12.52       | 13.78       | 14.56       | 15.35       | 16.92       | 18.50       | 18.97       | 20.07       | 23.22       | 26.38       | 29.53       |
| 1.242                 | 33                    | 3.308             | 41           | 4.110             | 6.76                    | 8.34        | 9.92        | 11.81       | 13.07       | 13.85       | 14.64       | 16.21       | 17.79       | 18.26       | 19.36       | 22.52       | 25.67       | 28.82       |
| 1.244                 | 45                    | 4.511             | 56           | 5.614             | 6.20                    | 7.78        | 9.67        | 11.56       | 12.82       | 13.59       | 14.38       | 15.95       | 17.53       | 18.00       | 19.10       | 22.25       | 25.40       | 28.55       |
| 1.250                 | 28                    | 2.807             | 35           | 3.509             | 7.63                    | 9.21        | 10.78       | 12.67       | 13.93       | 14.72       | 15.51       | 17.08       | 18.66       | 19.13       | 20.23       | 23.38       | 26.53       | 29.68       |
| 1.250                 | 32                    | 3.208             | 40           | 4.010             | 6.92                    | 8.50        | 10.07       | 11.96       | 13.22       | 14.01       | 14.80       | 16.37       | 17.95       | 18.42       | 19.52       | 22.67       | 25.82       | 28.97       |
| 1.250                 | 36                    | 3.609             | 45           | 4.511             | 6.21                    | 7.78        | 9.36        | 11.25       | 12.51       | 13.30       | 14.09       | 15.66       | 17.24       | 17.71       | 18.81       | 21.96       | 25.11       | 28.26       |
| 1.250                 | 40                    | 4.010             | 50           | 5.013             | 5.49                    | 7.07        | 8.65        | 10.54       | 11.80       | 12.59       | 13.37       | 14.95       | 16.53       | 17.00       | 18.10       | 21.25       | 24.40       | 27.55       |
| 1.250                 | 48                    | 4.812             | 60           | 6.015             | 6.015                   | 7.22        | 9.12        | 11.01       | 12.38       | 13.17       | 13.95       | 15.53       | 17.11       | 17.58       | 18.68       | 21.83       | 24.98       | 28.13       |
| 1.250                 | 60                    | 6.015             | 75           | 7.519             |                         |             |             |             | 8.24        | 9.02        | 9.81        | 11.39       | 12.97       | 13.44       | 14.55       | 17.70       | 20.85       | 24.00       |
| 1.258                 | 31                    | 3.108             | 39           | 3.910             | 7.08                    | 8.65        | 10.23       | 12.12       | 13.38       | 14.17       | 14.95       | 16.53       | 18.10       | 18.58       | 19.68       | 22.83       | 25.98       | 29.13       |
| 1.259                 | 27                    | 2.707             | 34           | 3.409             | 7.79                    | 9.36        | 10.94       | 12.83       | 14.09       | 14.88       | 15.66       | 17.24       | 18.81       | 19.29       | 20.39       | 23.54       | 26.69       | 29.84       |
| 1.260                 | 50                    | 5.013             | 63           | 6.316             |                         |             | 6.82        | 8.72        | 9.98        | 10.77       | 11.55       | 13.13       | 14.71       | 15.18       | 16.28       | 19.44       | 22.59       | 25.74       |
| 1.262                 | 42                    | 4.211             | 53           | 5.314             |                         | 6.67        | 8.25        | 10.14       | 11.41       | 12.19       | 12.98       | 14.55       | 16.13       | 16.60       | 17.71       | 20.86       | 24.01       | 27.16       |
| 1.263                 | 38                    | 3.810             | 48           | 4.812             | 5.81                    | 7.39        | 8.96        | 10.86       | 12.12       | 12.90       | 13.69       | 15.27       | 16.84       | 17.32       | 18.42       | 21.57       | 24.72       | 27.87       |
| 1.264                 | 53                    | 5.314             | 67           | 6.717             |                         |             | 8.16        | 9.42        | 10.21       | 11.00       | 11.79       | 13.37       | 14.95       | 15.42       | 16.52       | 19.67       | 22.82       | 25.97       |
| 1.267                 | 30                    | 3.008             | 38           | 3.810             | 7.23                    | 8.81        | 10.39       | 12.28       | 13.54       | 14.32       | 15.11       | 16.69       | 18.26       | 18.74       | 19.84       | 22.99       | 26.14       | 29.29       |
| 1.268                 | 56                    | 5.614             | 71           | 7.118             |                         |             |             | 7.60        | 8.87        | 9.66        | 10.44       | 12.02       | 13.60       | 14.08       | 15.18       | 18.33       | 21.48       | 24.63       |
| 1.268                 | 71                    | 7.118             | 90           | 9.023             |                         |             |             |             |             |             |             | 9.32        | 10.90       | 11.38       | 12.48       | 15.64       | 18.79       | 21.95       |
| 1.269                 | 26                    | 2.607             | 33           | 3.308             | 7.95                    | 9.52        | 11.10       | 12.99       | 14.25       | 15.04       | 15.82       | 17.40       | 18.97       | 19.45       | 20.55       | 23.70       | 26.85       | 30.00       |
| 1.270                 | 63                    | 6.316             | 80           | 8.020             |                         |             |             |             |             | 8.38        | 9.17        | 10.75       | 12.33       | 12.81       | 13.91       | 17.06       | 20.22       | 23.37       |
| 1.273                 | 22                    | 2.206             | 28           | 2.807             | 8.66                    | 10.23       | 11.81       | 13.70       | 14.96       | 15.74       | 16.53       | 18.11       | 19.68       | 20.16       | 21.26       | 24.41       | 27.56       | 30.71       |
| 1.273                 | 33                    | 3.308             | 42           | 4.211             | 6.68                    | 8.26        | 9.83        | 11.73       | 12.99       | 13.77       | 14.56       | 16.13       | 17.71       | 18.18       | 19.28       | 22.44       | 25.59       | 28.74       |
| 1.276                 | 29                    | 2.907             | 37           | 3.709             | 7.39                    | 8.97        | 10.55       | 12.44       | 13.70       | 14.48       | 15.27       | 16.84       | 18.42       | 18.89       | 19.99       | 23.15       | 26.30       | 29.45       |
| 1.280                 | 25                    | 2.506             | 32           | 3.208             | 8.10                    | 9.68        | 11.26       | 13.15       | 14.41       | 15.19       | 15.98       | 17.55       | 19.13       | 19.60       | 20.70       | 23.85       | 27.00       | 30.16       |
| 1.281                 | 32                    | 3.208             | 41           | 4.110             | 6.84                    | 8.42        | 9.99        | 11.88       | 13.14       | 13.93       | 14.72       | 16.29       | 17.87       | 18.34       | 19.44       | 22.59       | 25.74       | 28.89       |
| 1.282                 | 39                    | 3.910             | 50           | 5.013             | 5.56                    | 7.15        | 8.72        | 10.62       | 11.88       | 12.66       | 13.45       | 15.03       | 16.60       | 17.08       | 18.18       | 21.33       | 24.48       | 27.63       |
| 1.286                 | 28                    | 2.807             | 36           | 3.609             | 7.55                    | 9.13        | 10.70       | 12.59       | 13.86       | 14.64       | 15.43       | 17.00       | 18.58       | 19.05       | 20.15       | 23.30       | 26.45       | 29.60       |
| 1.286                 | 35                    | 3.509             | 45           | 4.511             | 6.28                    | 7.86        | 9.44        | 11.33       | 12.59       | 13.38       | 14.16       | 15.74       | 17.31       | 17.79       | 18.89       | 22.04       | 25.19       | 28.34       |
| 1.290                 | 31                    | 3.108             | 40           | 4.010             | 6.99                    | 8.57        | 10.15       | 12.04       | 13.30       | 14.09       | 14.87       | 16.45       | 18.02       | 18.50       | 19.60       | 22.75       | 25.90       | 29.05       |
| 1.293                 | 41                    | 4.110             | 53           | 5.314             |                         | 6.75        | 8.33        | 10.22       | 11.48       | 12.27       | 13.05       | 14.63       | 16.21       | 16.68       | 17.78       | 20.93       | 24.09       | 27.24       |
| 1.296                 | 27                    | 2.707             | 35           | 3.509             | 7.71                    | 9.28        | 10.86       | 12.75       | 14.01       | 14.80       | 15.58       | 17.16       | 18.73       | 19.21       | 20.31       | 23.46       | 26.61       | 29.76       |
| 1.297                 | 37                    | 3.709             | 48           | 4.812             | 5.88                    | 7.46        | 9.04        | 10.93       | 12.20       | 12.98       | 13.77       | 15.34       | 16.92       | 17.39       | 18.49       | 21.65       | 24.80       | 27.95       |
| 1.300                 | 30                    | 3.008             | 39           | 3.910             | 7.15                    | 8.73        | 10.31       | 12.20       | 13.46       | 14.24       | 15.03       | 16.61       | 18.18       | 18.66       | 19.76       | 22.91       | 26.06       | 29.21       |
| 1.308                 | 26                    | 2.607             | 34           | 3.409             | 7.86                    | 9.44        | 11.02       | 12.91       | 14.17       | 14.95       | 15.74       | 17.32       | 18.89       | 19.37       | 20.47       | 23.62       | 26.77       | 29.92       |
| 1.310                 | 29                    | 2.907             | 38           | 3.810             | 7.31                    | 8.89        | 10.46       | 12.36       | 13.62       | 14.40       | 15.19       | 16.76       | 18.34       | 18.81       | 19.91       | 23.07       | 26.22       | 29.37       |
| 1.313                 | 42                    | 4.211             | 53           | 5.314             | 6.75                    | 8.33        | 9.91        | 11.80       | 13.06       | 13.85       | 14.63       | 16.21       | 17.79       | 18.26       | 19.36       | 22.51       | 25.66       | 28.81       |
| 1.313                 | 48                    | 4.812             | 63           | 6.316             |                         |             | 6.97        | 8.87        | 10.13       | 10.92       | 11.71       | 13.28       | 14.86       | 15.34       | 16.44       | 19.59       | 22.74       | 25.89       |
| 1.316                 | 38                    | 3.810             | 50           | 5.013             | 5.64                    | 7.22        | 8.80        | 10.69       | 11.96       | 12.74       | 13.53       | 15.10       | 16.68       | 17.15       | 18.26       | 21.41       | 24.56       | 27.71       |
| 1.318                 | 22                    | 2.206             | 29           | 2.907             | 8.58                    | 10.15       | 11.73       | 13.62       | 14.88       | 15.67       | 16.45       | 18.03       | 19.60       | 20.08       | 21.18       | 24.33       | 27.48       | 30.63       |
| 1.320                 | 25                    | 2.506             | 33           | 3.308             | 8.02                    | 9.60        | 11.18       | 13.07       | 14.33       | 15.11       | 15.90       | 17.47       | 19.05       | 19.52       | 20.62       | 23.78       | 26.93       | 30.08       |
| 1.321                 | 28                    | 2.807             | 37           | 3.709             | 7.47                    | 9.05        | 10.62       | 12.51       | 13.77       | 14.56       | 15.35       | 16.92       | 18.50       | 18.97       | 20.07       | 23.22       | 26.37       | 29.52       |
| 1.323                 | 31                    | 3.108             | 41           | 4.110             | 6.91                    | 8.49        | 10.07       | 11.96       | 13.22       | 14.01       | 14.79       | 16.37       | 17.94       | 18.42       | 19.52       | 22.67       | 25.82       | 28.97       |
| 1.324                 | 34                    | 3.409             | 45           | 4.511             | 6.36                    | 7.94        | 9.51        | 11.41       | 12.67       | 13.45       | 14.24       | 15.82       | 17.39       | 17.87       | 18.97       | 22.12       | 25.27       | 28.42       |
| 1.325                 | 40                    | 4.010             | 53           | 5.314             | 5.24                    | 6.82        | 8.40        | 10.30       | 11.56       | 12.34       | 13.13       | 14.71       | 16.28       | 16.76       | 17.86       | 21.01       | 24.16       | 27.31       |
| 1.333                 | 27                    | 2.707             | 36           | 3.609             | 7.63                    | 9.20        | 10.78       | 12.67       | 13.93       | 14.72       | 15.50       | 17.08       | 18.65       | 19.13       | 20.23       | 23.38       | 26.53       | 29.68       |
| 1.333                 | 30                    | 3.008             | 40           | 4.010             | 7.07                    | 8.65        | 10.23       | 12.12       | 13.38       | 14.16       | 14.95       | 16.53       | 18.10       | 18.58       | 19.68       | 22.83       | 25.98       | 29.13       |
| 1.333                 | 36                    | 3.609             | 48           | 4.812             | 5.96                    | 7.54        | 9.12        | 11.01       | 12.27       | 13.06       | 13.84       | 15.42       | 17.00       | 17.47       | 18.57       | 21.72       | 24.87       | 28.02       |
| 1.333                 | 42                    | 4.211             | 56           | 5.614             |                         | 6.42        | 8.00        | 9.90        | 11.16       | 11.95       | 12.73       | 14.31       | 15.89       | 16.36       | 17.46       | 20.62       | 23.77       | 26.92       |
| 1.333                 | 45                    | 4.511             | 60           | 6.015             |                         | 5.86        | 7.44        | 9.34        | 10.61       | 11.39       | 12.18       | 13.76       | 15.33       | 15.81       | 16.91       | 20.06       | 23.22       | 26.37       |
| 1.333                 | 60                    | 6.015             | 80           | 8.020             |                         |             |             |             | 7.81        | 8.60        | 9.          |             |             |             |             |             |             |             |



# SELECTION

## 8M HT500 Selection Table (Continued)

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 1792-8MX                | 2000-8MX    | 2200-8MX    | 2240-8MX    | 2400-8MX    | 2520-8MX    | 2600-8MX    | 2800-8MX    | 2840-8MX    | 3048-8MX    | 3200-8MX    | 3280-8MX    | 3600-8MX    | 4000-8MX    | 4400-8MX    | 4480-8MX    |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>1.18</b>             | <b>1.22</b> | <b>1.26</b> | <b>1.26</b> | <b>1.29</b> | <b>1.31</b> | <b>1.32</b> | <b>1.35</b> | <b>1.36</b> | <b>1.38</b> | <b>1.40</b> | <b>1.41</b> | <b>1.45</b> | <b>1.49</b> | <b>1.52</b> | <b>1.53</b> |
| 1.207                 | 29                    | 2.907             | 35           | 3.509             | 30.23                   | 34.33       | 38.26       | 39.05       | 42.20       | 44.56       | 46.14       | 50.08       | 50.86       | 54.96       | 57.95       | 59.53       | 65.83       | 73.70       | 81.58       | 83.15       |
| 1.212                 | 33                    | 3.308             | 40           | 4.010             | 29.53                   | 33.62       | 37.56       | 38.35       | 41.50       | 43.86       | 45.43       | 49.37       | 50.16       | 54.25       | 57.24       | 58.82       | 65.12       | 72.99       | 80.87       | 82.44       |
| 1.214                 | 28                    | 2.807             | 34           | 3.409             | 30.39                   | 34.49       | 38.42       | 39.21       | 42.36       | 44.72       | 46.30       | 50.24       | 51.02       | 55.12       | 58.11       | 59.68       | 65.98       | 73.86       | 81.73       | 83.31       |
| 1.216                 | 37                    | 3.709             | 45           | 4.511             | 28.82                   | 32.91       | 36.85       | 37.64       | 40.79       | 43.15       | 44.72       | 48.66       | 49.45       | 53.54       | 56.53       | 58.11       | 64.41       | 72.28       | 80.16       | 81.73       |
| 1.219                 | 32                    | 3.208             | 39           | 3.910             | 29.68                   | 33.78       | 37.71       | 38.50       | 41.65       | 44.01       | 45.59       | 49.53       | 50.31       | 54.41       | 57.40       | 58.97       | 65.27       | 73.15       | 81.02       | 82.60       |
| 1.220                 | 41                    | 4.110             | 50           | 5.013             | 28.11                   | 32.20       | 36.14       | 36.93       | 40.08       | 42.44       | 44.01       | 47.95       | 48.74       | 52.83       | 55.82       | 57.40       | 63.70       | 71.57       | 79.45       | 81.02       |
| 1.222                 | 27                    | 2.707             | 33           | 3.308             | 30.55                   | 34.64       | 38.58       | 39.37       | 42.52       | 44.88       | 46.45       | 50.39       | 51.18       | 55.28       | 58.27       | 59.84       | 66.14       | 74.02       | 81.89       | 83.47       |
| 1.226                 | 31                    | 3.108             | 38           | 3.810             | 29.84                   | 33.93       | 37.87       | 38.66       | 41.81       | 44.17       | 45.75       | 49.69       | 50.47       | 54.57       | 57.56       | 59.13       | 65.43       | 73.31       | 81.18       | 82.76       |
| 1.227                 | 22                    | 2.206             | 27           | 2.707             | 31.42                   | 35.51       | 39.45       | 40.24       | 43.39       | 45.75       | 47.32       | 51.26       | 52.05       | 56.14       | 59.13       | 60.71       | 67.01       | 74.88       | 82.76       | 84.33       |
| 1.231                 | 26                    | 2.607             | 32           | 3.208             | 30.71                   | 34.80       | 38.74       | 39.53       | 42.68       | 45.04       | 46.61       | 50.55       | 51.34       | 55.43       | 58.42       | 60.00       | 66.30       | 74.17       | 82.05       | 83.62       |
| 1.231                 | 39                    | 3.910             | 48           | 4.812             | 28.42                   | 32.52       | 36.45       | 37.24       | 40.39       | 42.75       | 44.33       | 48.27       | 49.05       | 53.15       | 56.14       | 57.71       | 64.01       | 71.89       | 79.76       | 81.34       |
| 1.233                 | 30                    | 3.008             | 37           | 3.709             | 30.00                   | 34.09       | 38.03       | 38.82       | 41.97       | 44.33       | 45.90       | 49.84       | 50.63       | 54.72       | 57.71       | 59.29       | 65.59       | 73.46       | 81.34       | 82.91       |
| 1.235                 | 34                    | 3.409             | 42           | 4.211             | 29.29                   | 33.38       | 37.32       | 38.11       | 41.26       | 43.62       | 45.19       | 49.13       | 49.92       | 54.01       | 57.00       | 58.58       | 64.88       | 72.75       | 80.63       | 82.20       |
| 1.240                 | 25                    | 2.506             | 31           | 3.108             | 30.86                   | 34.96       | 38.89       | 39.68       | 42.83       | 45.19       | 46.77       | 50.71       | 51.49       | 55.59       | 58.58       | 60.16       | 66.46       | 74.33       | 82.21       | 83.78       |
| 1.241                 | 29                    | 2.907             | 36           | 3.609             | 30.16                   | 34.25       | 38.19       | 38.98       | 42.13       | 44.49       | 46.06       | 50.00       | 50.79       | 54.88       | 57.87       | 59.45       | 65.75       | 73.62       | 81.50       | 83.07       |
| 1.242                 | 33                    | 3.308             | 41           | 4.110             | 29.45                   | 33.54       | 37.48       | 38.27       | 41.42       | 43.78       | 45.35       | 49.29       | 50.08       | 54.17       | 57.16       | 58.74       | 65.04       | 72.91       | 80.79       | 82.36       |
| 1.244                 | 45                    | 4.511             | 56           | 5.614             | 27.32                   | 31.41       | 35.35       | 36.14       | 39.29       | 41.65       | 43.22       | 47.16       | 47.95       | 52.04       | 55.04       | 56.61       | 62.91       | 70.79       | 78.66       | 80.24       |
| 1.250                 | 28                    | 2.807             | 35           | 3.509             | 30.31                   | 34.41       | 38.34       | 39.13       | 42.28       | 44.64       | 46.22       | 50.16       | 50.94       | 55.04       | 58.03       | 59.60       | 65.90       | 73.78       | 81.65       | 83.23       |
| 1.250                 | 32                    | 3.208             | 40           | 4.010             | 29.60                   | 33.70       | 37.63       | 38.42       | 41.57       | 43.93       | 45.51       | 49.45       | 50.23       | 54.33       | 57.32       | 58.89       | 65.19       | 73.07       | 80.95       | 82.52       |
| 1.250                 | 36                    | 3.609             | 45           | 4.511             | 28.89                   | 32.99       | 36.92       | 37.71       | 40.87       | 43.23       | 44.80       | 48.74       | 49.53       | 53.62       | 56.61       | 58.19       | 64.49       | 72.36       | 80.24       | 81.81       |
| 1.250                 | 40                    | 4.010             | 50           | 5.013             | 28.18                   | 32.28       | 36.21       | 37.00       | 40.16       | 42.52       | 44.09       | 48.03       | 48.82       | 52.91       | 55.90       | 57.48       | 63.78       | 71.65       | 79.53       | 81.10       |
| 1.250                 | 48                    | 4.812             | 60           | 6.015             | 26.76                   | 30.86       | 34.80       | 35.59       | 38.74       | 41.10       | 42.67       | 46.61       | 47.40       | 51.49       | 54.48       | 56.06       | 62.36       | 70.23       | 78.11       | 79.68       |
| 1.250                 | 60                    | 6.015             | 75           | 7.519             | 24.63                   | 28.73       | 32.67       | 33.46       | 36.61       | 38.97       | 40.54       | 44.48       | 45.27       | 49.36       | 52.36       | 53.93       | 60.23       | 68.11       | 75.98       | 77.56       |
| 1.258                 | 31                    | 3.108             | 39           | 3.910             | 29.76                   | 33.86       | 37.79       | 38.58       | 41.73       | 44.09       | 45.67       | 49.61       | 50.39       | 54.49       | 57.48       | 59.05       | 65.35       | 73.23       | 81.10       | 82.68       |
| 1.259                 | 27                    | 2.707             | 34           | 3.409             | 30.47                   | 34.56       | 38.50       | 39.29       | 42.44       | 44.80       | 46.38       | 50.32       | 51.10       | 55.20       | 58.19       | 59.76       | 66.06       | 73.94       | 81.81       | 83.39       |
| 1.260                 | 50                    | 5.013             | 63           | 6.316             | 26.37                   | 30.47       | 34.40       | 35.19       | 38.34       | 40.70       | 42.28       | 46.22       | 47.00       | 51.10       | 54.09       | 55.66       | 61.96       | 69.84       | 77.71       | 79.29       |
| 1.262                 | 42                    | 4.211             | 53           | 5.314             | 27.79                   | 31.88       | 35.82       | 36.61       | 39.76       | 42.12       | 43.70       | 47.64       | 48.42       | 52.52       | 55.51       | 57.08       | 63.38       | 71.26       | 79.13       | 80.71       |
| 1.263                 | 38                    | 3.810             | 48           | 4.812             | 28.50                   | 32.59       | 36.53       | 37.32       | 40.47       | 42.83       | 44.41       | 48.35       | 49.13       | 53.23       | 56.22       | 57.79       | 64.09       | 71.97       | 79.84       | 81.42       |
| 1.264                 | 53                    | 5.314             | 67           | 6.717             | 25.82                   | 29.91       | 33.85       | 34.64       | 37.79       | 40.15       | 41.72       | 45.67       | 46.45       | 50.55       | 53.54       | 55.11       | 61.41       | 69.29       | 77.16       | 78.74       |
| 1.267                 | 30                    | 3.008             | 38           | 3.810             | 29.92                   | 34.01       | 37.95       | 38.74       | 41.89       | 44.25       | 45.82       | 49.76       | 50.55       | 54.64       | 57.63       | 59.21       | 65.51       | 73.38       | 81.26       | 82.83       |
| 1.268                 | 56                    | 5.614             | 71           | 7.118             | 25.26                   | 29.36       | 33.30       | 34.09       | 37.24       | 39.60       | 41.17       | 45.11       | 45.90       | 49.99       | 52.98       | 54.56       | 60.86       | 68.74       | 76.61       | 78.19       |
| 1.268                 | 71                    | 7.118             | 90           | 9.023             | 22.58                   | 26.68       | 30.61       | 31.40       | 34.55       | 36.92       | 38.49       | 42.43       | 43.22       | 47.31       | 50.30       | 51.88       | 58.18       | 66.06       | 73.93       | 75.51       |
| 1.269                 | 26                    | 2.607             | 33           | 3.308             | 30.63                   | 34.72       | 38.66       | 39.45       | 42.60       | 44.96       | 46.53       | 50.47       | 51.26       | 55.35       | 58.34       | 59.92       | 66.22       | 74.09       | 81.97       | 83.54       |
| 1.270                 | 63                    | 6.316             | 80           | 8.020             | 24.00                   | 28.10       | 32.03       | 32.82       | 35.98       | 38.34       | 39.91       | 43.85       | 44.64       | 48.73       | 51.72       | 53.30       | 59.60       | 67.48       | 75.35       | 76.93       |
| 1.273                 | 22                    | 2.206             | 28           | 2.807             | 31.34                   | 35.43       | 39.37       | 40.16       | 43.31       | 45.67       | 47.24       | 51.18       | 51.97       | 56.06       | 59.05       | 60.63       | 66.93       | 74.80       | 82.68       | 84.25       |
| 1.273                 | 33                    | 3.308             | 42           | 4.211             | 29.37                   | 33.46       | 37.40       | 38.19       | 41.34       | 43.70       | 45.27       | 49.21       | 50.00       | 54.09       | 57.08       | 58.66       | 64.96       | 72.83       | 80.71       | 82.28       |
| 1.276                 | 29                    | 2.907             | 37           | 3.709             | 30.08                   | 34.17       | 38.11       | 38.90       | 42.05       | 44.41       | 45.98       | 49.92       | 50.71       | 54.80       | 57.79       | 59.37       | 65.67       | 73.54       | 81.42       | 82.99       |
| 1.280                 | 25                    | 2.506             | 32           | 3.208             | 30.79                   | 34.88       | 38.82       | 39.61       | 42.76       | 45.12       | 46.69       | 50.63       | 51.42       | 55.51       | 58.50       | 60.08       | 66.38       | 74.25       | 82.13       | 83.70       |
| 1.281                 | 32                    | 3.208             | 41           | 4.110             | 29.52                   | 33.62       | 37.55       | 38.34       | 41.50       | 43.86       | 45.43       | 49.37       | 50.16       | 54.25       | 57.24       | 58.82       | 65.12       | 72.99       | 80.87       | 82.44       |
| 1.282                 | 39                    | 3.910             | 50           | 5.013             | 28.26                   | 32.36       | 36.29       | 37.08       | 40.23       | 42.59       | 44.17       | 48.11       | 48.89       | 52.99       | 55.98       | 57.55       | 63.85       | 71.73       | 79.60       | 81.18       |
| 1.286                 | 28                    | 2.807             | 36           | 3.609             | 30.23                   | 34.33       | 38.26       | 39.05       | 42.20       | 44.56       | 46.14       | 50.08       | 50.86       | 54.96       | 57.95       | 59.52       | 65.82       | 73.70       | 81.57       | 83.15       |
| 1.286                 | 35                    | 3.509             | 45           | 4.511             | 28.97                   | 33.07       | 37.00       | 37.79       | 40.94       | 43.30       | 44.88       | 48.82       | 49.60       | 53.70       | 56.69       | 58.26       | 64.56       | 72.44       | 80.31       | 81.89       |
| 1.290                 | 31                    | 3.108             | 40           | 4.010             | 29.68                   | 33.78       | 37.71       | 38.50       | 41.65       | 44.01       | 45.59       | 49.53       | 50.31       | 54.41       | 57.40       | 58.97       | 65.27       | 73.15       | 81.02       | 82.60       |
| 1.293                 | 41                    | 4.110             | 53           | 5.314             | 27.87                   | 31.96       | 35.90       | 36.69       | 39.84       | 42.20       | 43.77       | 47.71       | 48.50       | 52.59       | 55.59       | 57.16       | 63.46       | 71.34       | 79.21       | 80.79       |
| 1.296                 | 27                    | 2.707             | 35           | 3.509             | 30.39                   | 34.49       | 38.42       | 39.21       | 42.36       | 44.72       | 46.30       | 50.24       | 51.02       | 55.12       | 58.11       | 59.68       | 65.98       | 73.86       | 81.73       | 83.31       |
| 1.297                 | 37                    | 3.709             | 48           | 4.812             | 28.58                   | 32.67       | 36.61       | 37.40       | 40.55       | 42.91       | 44.48       | 48.42       | 49.21       | 53.30       | 56.29       | 57.87       | 64.17       | 72.05       | 79.92       | 81.50       |
| 1.300                 | 30                    | 3.008             | 39           | 3.910             | 29.84                   | 33.93       | 37.87       | 38.66       | 41.81       | 44.17       | 45.74       | 49.68       | 50.47       | 54.56       | 57.55       | 59.13       | 65.43       | 73.31       | 81.18       | 82.76       |
| 1.308                 | 26                    | 2.607             | 34           | 3.409             | 30.55                   | 34.64       | 38.58       | 39.37       | 42.52       | 44.88       | 46.45       | 50.39       | 51.18       | 55.27       | 58.26       | 59.84       | 66.14       | 74.01       | 81.89       | 83.46       |
| 1.310                 | 29                    | 2.907             | 38           | 3.810             | 30.00                   | 34.09       | 38.03       | 38.82       | 41.97       | 44.33       | 45.90       | 49.84       | 50.63       | 54.72       | 57.71       | 59.29       | 65.59       | 73.46       | 81.34       | 82.91       |
| 1.313                 | 32                    | 3.208             | 42           | 4.211             | 29.44                   | 33.54       | 37.47       | 38.26       | 41.42       | 43.78       | 45.35       | 49.29       | 50.08       | 54.17       | 57.16       | 58.74       | 65.04       | 72.91       | 80.79       | 82.36       |
| 1.313                 | 48                    | 4.812             | 63           | 6.316             | 26.52                   | 30.62       | 34.56       | 35.35       | 38.50       | 40.86       | 42.43       | 46.37       | 47.16       | 51.25       | 54.24       | 55.82       | 62.12       | 70.00       | 77.87       | 79.45       |
| 1.316                 | 38                    | 3.810             | 50           | 5.013             | 28.34                   | 32.43       | 36.37       | 37.16       | 40.31       | 42.67       | 44.25       | 48.19       | 48.97       | 53.07       | 56.06       | 57.63       | 63.93       | 71.81       | 79.68       | 81.26       |
| 1.318                 | 22                    | 2.206             | 29           | 2.907             | 31.26                   | 35.35       | 39.29       | 40.08       | 43.23       | 45.59       | 47.16       | 51.10       | 51.89       | 55.98       | 58.97       | 60.55       | 66.85       | 74.72       | 82.60       | 84.17       |
| 1.320                 | 25                    | 2.506             | 33           | 3.308             | 30.71                   | 34.80       | 38.74       | 39.53       | 42.68       | 45.04       | 46.61       | 50.55       | 51.34       | 55.43       | 58.42       | 60.00       | 66.30       | 74.17       | 82.05       | 83.62       |
| 1.321                 | 28                    | 2.807             | 37           | 3.709             | 30.15                   | 34.25       | 38.18       | 38.97       | 42.12       | 44.49       | 46.06       | 50.00       | 50.79       | 54.88       | 57.87       | 59.45       | 65.75       | 73.62       | 81.50       | 83.07       |
| 1.323                 | 31                    | 3.108             | 41           | 4.110             | 29.60                   | 33.70       | 37.63       | 38.42       | 41.57       | 43.93       | 45.51       | 4           |             |             |             |             |             |             |             |             |

# SELECTION



## 8M HT500 Selection Table

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 640-8MX                 | 720-8MX     | 800-8MX     | 896-8MX     | 960-8MX     | 1000-8MX    | 1040-8MX    | 1120-8MX    | 1200-8MX    | 1224-8MX    | 1280-8MX    | 1440-8MX    | 1600-8MX    | 1760-8MX    |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.79</b>             | <b>0.83</b> | <b>0.87</b> | <b>0.91</b> | <b>0.94</b> | <b>0.96</b> | <b>0.97</b> | <b>1.00</b> | <b>1.03</b> | <b>1.03</b> | <b>1.05</b> | <b>1.10</b> | <b>1.14</b> | <b>1.17</b> |
| 1.366                 | 41                    | 4.110             | 56           | 5.614             |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |
| 1.367                 | 30                    | 3.008             | 41           | 4.110             | 6.99                    | 8.57        | 10.14       | 12.04       | 13.30       | 14.08       | 14.87       | 16.45       | 18.02       | 18.50       | 19.60       | 22.75       | 25.90       | 29.05       |
| 1.370                 | 27                    | 2.707             | 37           | 3.709             | 7.54                    | 9.12        | 10.70       | 12.59       | 13.85       | 14.64       | 15.42       | 17.00       | 18.57       | 19.05       | 20.15       | 23.30       | 26.45       | 29.60       |
| 1.371                 | 35                    | 3.509             | 48           | 4.812             | 6.03                    | 7.61        | 9.19        | 11.09       | 12.35       | 13.13       | 13.92       | 15.50       | 17.07       | 17.55       | 18.65       | 21.80       | 24.95       | 28.10       |
| 1.379                 | 29                    | 2.907             | 40           | 4.010             | 7.15                    | 8.72        | 10.30       | 12.19       | 13.46       | 14.24       | 15.03       | 16.60       | 18.18       | 18.65       | 19.75       | 22.91       | 26.06       | 29.21       |
| 1.385                 | 26                    | 2.607             | 36           | 3.609             | 7.70                    | 9.28        | 10.86       | 12.75       | 14.01       | 14.79       | 15.58       | 17.16       | 18.73       | 19.21       | 20.31       | 23.46       | 26.61       | 29.76       |
| 1.389                 | 36                    | 3.609             | 50           | 5.013             | 5.79                    | 7.37        | 8.95        | 10.85       | 12.11       | 12.89       | 13.68       | 15.26       | 16.83       | 17.31       | 18.41       | 21.56       | 24.71       | 27.86       |
| 1.393                 | 28                    | 2.807             | 39           | 3.910             | 7.30                    | 8.88        | 10.46       | 12.35       | 13.61       | 14.40       | 15.18       | 16.76       | 18.34       | 18.81       | 19.91       | 23.06       | 26.21       | 29.36       |
| 1.395                 | 38                    | 3.810             | 53           | 5.314             | 5.38                    | 6.97        | 8.55        | 10.45       | 11.71       | 12.50       | 13.28       | 14.86       | 16.44       | 16.91       | 18.01       | 21.17       | 24.32       | 27.47       |
| 1.396                 | 48                    | 4.812             | 67           | 6.717             |                         |             | 6.63        | 8.53        | 9.80        | 10.59       | 11.38       | 12.96       | 14.53       | 15.01       | 16.11       | 19.27       | 22.42       | 25.57       |
| 1.400                 | 25                    | 2.506             | 35           | 3.509             | 7.86                    | 9.44        | 11.01       | 12.91       | 14.17       | 14.95       | 15.74       | 17.31       | 18.89       | 19.36       | 20.46       | 23.62       | 26.77       | 29.92       |
| 1.400                 | 30                    | 3.008             | 42           | 4.211             | 6.90                    | 8.48        | 10.06       | 11.96       | 13.22       | 14.00       | 14.79       | 16.36       | 17.94       | 18.42       | 19.52       | 22.67       | 25.82       | 28.97       |
| 1.400                 | 40                    | 4.010             | 56           | 5.614             |                         |             | 8.15        | 10.05       | 11.31       | 12.10       | 12.89       | 14.46       | 16.04       | 16.52       | 17.62       | 20.77       | 23.92       | 27.07       |
| 1.400                 | 45                    | 4.511             | 63           | 6.316             |                         |             | 7.19        | 9.09        | 10.36       | 11.14       | 11.93       | 13.51       | 15.09       | 15.57       | 16.67       | 19.82       | 22.97       | 26.13       |
| 1.400                 | 80                    | 8.020             | 112          | 11.229            |                         |             |             |             |             |             |             |             |             |             | 9.95        | 13.13       | 16.30       | 19.46       |
| 1.406                 | 32                    | 3.208             | 45           | 4.511             | 6.50                    | 8.09        | 9.67        | 11.56       | 12.82       | 13.61       | 14.39       | 15.97       | 17.55       | 18.02       | 19.12       | 22.27       | 25.42       | 28.58       |
| 1.407                 | 27                    | 2.707             | 38           | 3.810             | 7.46                    | 9.04        | 10.62       | 12.51       | 13.77       | 14.56       | 15.34       | 16.92       | 18.49       | 18.97       | 20.07       | 23.22       | 26.37       | 29.52       |
| 1.409                 | 22                    | 2.206             | 31           | 3.108             | 8.41                    | 9.99        | 11.57       | 13.46       | 14.72       | 15.50       | 16.29       | 17.87       | 19.44       | 19.92       | 21.02       | 24.17       | 27.32       | 30.47       |
| 1.412                 | 34                    | 3.409             | 48           | 4.812             | 6.10                    | 7.69        | 9.27        | 11.16       | 12.42       | 13.21       | 14.00       | 15.57       | 17.15       | 17.62       | 18.73       | 21.88       | 25.03       | 28.18       |
| 1.414                 | 29                    | 2.907             | 41           | 4.110             | 7.06                    | 8.64        | 10.22       | 12.11       | 13.38       | 14.16       | 14.95       | 16.52       | 18.10       | 18.57       | 19.67       | 22.83       | 25.98       | 29.13       |
| 1.415                 | 53                    | 5.314             | 75           | 7.519             |                         |             |             | 7.48        | 8.75        | 9.54        | 10.33       | 11.91       | 13.50       | 13.97       | 15.08       | 18.23       | 21.39       | 24.54       |
| 1.420                 | 50                    | 5.013             | 71           | 7.118             |                         |             |             | 8.04        | 9.31        | 10.10       | 10.89       | 12.47       | 14.05       | 14.53       | 15.63       | 18.79       | 21.94       | 25.10       |
| 1.423                 | 26                    | 2.607             | 37           | 3.709             | 7.62                    | 9.20        | 10.78       | 12.67       | 13.93       | 14.71       | 15.50       | 17.08       | 18.65       | 19.13       | 20.23       | 23.38       | 26.53       | 29.68       |
| 1.429                 | 28                    | 2.807             | 40           | 4.010             | 7.22                    | 8.80        | 10.38       | 12.27       | 13.53       | 14.32       | 15.10       | 16.68       | 18.26       | 18.73       | 19.83       | 22.98       | 26.13       | 29.28       |
| 1.429                 | 35                    | 3.509             | 50           | 5.013             | 5.86                    | 7.44        | 9.03        | 10.92       | 12.18       | 12.97       | 13.76       | 15.33       | 16.91       | 17.39       | 18.49       | 21.64       | 24.79       | 27.94       |
| 1.429                 | 42                    | 4.211             | 60           | 6.015             |                         | 6.08        | 7.67        | 9.57        | 10.83       | 11.62       | 12.41       | 13.98       | 15.56       | 16.04       | 17.14       | 20.29       | 23.45       | 26.60       |
| 1.429                 | 56                    | 5.614             | 80           | 8.020             |                         |             |             |             | 8.10        | 8.90        | 9.69        | 11.27       | 12.86       | 13.33       | 14.44       | 17.60       | 20.75       | 23.91       |
| 1.429                 | 63                    | 6.316             | 90           | 9.023             |                         |             |             |             |             |             | 8.31        | 9.91        | 11.49       | 11.97       | 13.08       | 16.24       | 19.40       | 22.56       |
| 1.432                 | 37                    | 3.709             | 53           | 5.314             | 5.45                    | 7.04        | 8.63        | 10.52       | 11.79       | 12.57       | 13.36       | 14.94       | 16.51       | 16.99       | 18.09       | 21.24       | 24.40       | 27.55       |
| 1.436                 | 39                    | 3.910             | 56           | 5.614             |                         |             | 6.64        | 8.23        | 10.12       | 11.39       | 12.18       | 13.76       | 15.33       | 15.81       | 16.91       | 20.06       | 23.21       | 26.36       |
| 1.440                 | 25                    | 2.506             | 36           | 3.609             | 7.78                    | 9.36        | 10.93       | 12.83       | 14.09       | 14.87       | 15.66       | 17.23       | 18.81       | 19.28       | 20.38       | 23.54       | 26.69       | 29.84       |
| 1.444                 | 27                    | 2.707             | 39           | 3.910             | 7.38                    | 8.96        | 10.54       | 12.43       | 13.69       | 14.48       | 15.26       | 16.84       | 18.41       | 18.89       | 19.99       | 23.14       | 26.29       | 29.44       |
| 1.448                 | 29                    | 2.907             | 42           | 4.211             | 6.98                    | 8.56        | 10.14       | 12.03       | 13.29       | 14.08       | 14.87       | 16.44       | 18.02       | 18.49       | 19.59       | 22.75       | 25.90       | 29.05       |
| 1.452                 | 31                    | 3.108             | 45           | 4.511             | 6.58                    | 8.16        | 9.74        | 11.63       | 12.90       | 13.68       | 14.47       | 16.05       | 17.62       | 18.10       | 19.20       | 22.35       | 25.50       | 28.65       |
| 1.455                 | 22                    | 2.206             | 32           | 3.208             | 8.33                    | 9.91        | 11.49       | 13.38       | 14.64       | 15.42       | 16.21       | 17.79       | 19.36       | 19.84       | 20.94       | 24.09       | 27.24       | 30.39       |
| 1.455                 | 33                    | 3.308             | 48           | 4.812             | 6.18                    | 7.76        | 9.34        | 11.24       | 12.50       | 13.29       | 14.07       | 15.65       | 17.23       | 17.70       | 18.80       | 21.95       | 25.11       | 28.26       |
| 1.462                 | 26                    | 2.607             | 38           | 3.810             | 7.54                    | 9.12        | 10.69       | 12.59       | 13.85       | 14.63       | 15.42       | 16.99       | 18.57       | 19.05       | 20.15       | 23.30       | 26.45       | 29.60       |
| 1.463                 | 41                    | 4.110             | 60           | 6.015             |                         |             | 6.15        | 7.74        | 9.64        | 10.91       | 11.69       | 13.28       | 14.86       | 15.34       | 16.44       | 19.59       | 22.75       | 25.90       |
| 1.464                 | 28                    | 2.807             | 41           | 4.110             | 7.14                    | 8.72        | 10.30       | 12.19       | 13.45       | 14.24       | 15.02       | 16.60       | 18.18       | 18.65       | 19.75       | 22.90       | 26.05       | 29.21       |
| 1.471                 | 34                    | 3.409             | 50           | 5.013             | 5.93                    | 7.52        | 9.10        | 11.00       | 12.26       | 13.05       | 13.83       | 15.41       | 16.99       | 17.46       | 18.56       | 21.72       | 24.87       | 28.02       |
| 1.472                 | 36                    | 3.609             | 53           | 5.314             | 5.53                    | 7.12        | 8.70        | 10.60       | 11.86       | 12.65       | 13.43       | 15.01       | 16.59       | 17.07       | 18.17       | 21.32       | 24.47       | 27.62       |
| 1.474                 | 38                    | 3.810             | 56           | 5.614             |                         | 6.71        | 8.30        | 10.20       | 11.46       | 12.25       | 13.04       | 14.62       | 16.19       | 16.67       | 17.77       | 20.92       | 24.08       | 27.23       |
| 1.479                 | 48                    | 4.812             | 71           | 7.118             |                         |             |             | 8.19        | 9.46        | 10.25       | 11.04       | 12.62       | 14.20       | 14.68       | 15.78       | 18.94       | 22.10       | 25.25       |
| 1.480                 | 25                    | 2.506             | 37           | 3.709             | 7.70                    | 9.27        | 10.85       | 12.74       | 14.01       | 14.79       | 15.58       | 17.15       | 18.73       | 19.20       | 20.30       | 23.46       | 26.61       | 29.76       |
| 1.481                 | 27                    | 2.707             | 40           | 4.010             | 7.30                    | 8.88        | 10.45       | 12.35       | 13.61       | 14.39       | 15.18       | 16.76       | 18.33       | 18.81       | 19.91       | 23.06       | 26.21       | 29.36       |
| 1.489                 | 45                    | 4.511             | 67           | 6.717             |                         |             | 6.84        | 8.75        | 10.02       | 10.81       | 11.60       | 13.18       | 14.76       | 15.24       | 16.34       | 19.50       | 22.65       | 25.80       |
| 1.493                 | 75                    | 7.519             | 112          | 11.229            |                         |             |             |             |             |             |             |             |             |             | 10.30       | 13.49       | 16.67       | 19.83       |
| 1.500                 | 22                    | 2.206             | 33           | 3.308             | 8.25                    | 9.83        | 11.41       | 13.30       | 14.56       | 15.34       | 16.13       | 17.71       | 19.28       | 19.76       | 20.86       | 24.01       | 27.16       | 30.31       |
| 1.500                 | 26                    | 2.607             | 39           | 3.910             | 7.45                    | 9.03        | 10.61       | 12.50       | 13.77       | 14.55       | 15.34       | 16.91       | 18.49       | 18.97       | 20.07       | 23.22       | 26.37       | 29.52       |
| 1.500                 | 28                    | 2.807             | 42           | 4.211             | 7.05                    | 8.63        | 10.21       | 12.11       | 13.37       | 14.16       | 14.94       | 16.52       | 18.09       | 18.57       | 19.67       | 22.82       | 25.97       | 29.12       |
| 1.500                 | 30                    | 3.008             | 45           | 4.511             | 6.65                    | 8.24        | 9.82        | 11.71       | 12.97       | 13.76       | 14.55       | 16.12       | 17.70       | 18.17       | 19.27       | 22.43       | 25.58       | 28.73       |
| 1.500                 | 32                    | 3.208             | 48           | 4.812             | 6.25                    | 7.84        | 9.42        | 11.31       | 12.58       | 13.36       | 14.15       | 15.73       | 17.30       | 17.78       | 18.88       | 22.03       | 25.18       | 28.33       |
| 1.500                 | 40                    | 4.010             | 60           | 6.015             |                         |             | 6.22        | 7.81        | 9.71        | 11.08       | 11.77       | 13.35       | 14.93       | 15.41       | 16.51       | 19.66       | 22.81       | 25.96       |
| 1.500                 | 42                    | 4.211             | 63           | 6.316             |                         |             | 5.81        | 7.41        | 9.31        | 10.58       | 11.37       | 12.95       | 14.53       | 15.01       | 16.11       | 19.26       | 22.41       | 25.56       |
| 1.500                 | 50                    | 5.013             | 75           | 7.519             |                         |             |             | 7.70        | 8.97        | 9.76        | 10.55       | 12.14       | 13.72       | 14.20       | 15.30       | 18.46       | 21.62       | 24.77       |
| 1.500                 | 60                    | 6.015             | 90           | 9.023             |                         |             |             |             |             |             | 8.53        | 10.12       | 11.71       | 12.19       | 13.30       | 16.47       | 19.63       | 22.78       |
| 1.509                 | 53                    | 5.314             | 80           | 8.020             |                         |             |             |             | 8.32        | 9.11        | 9.90        | 11.49       | 13.08       | 13.55       | 14.66       | 17.82       | 20.98       | 24.13       |
| 1.514                 | 35                    | 3.509             | 53           | 5.314             | 5.60                    | 7.19        | 8.77        | 10.67       | 11.94       | 12.72       | 13.51       | 15.09       | 16.67       | 17.14       | 18.24       | 21.40       | 24.55       | 27.70       |
| 1.514                 | 37                    | 3.709             | 56           | 5.614             | 5.19                    | 6.79        | 8.37        | 10.27       | 11.54       | 12.33       | 13.11       | 14.69       | 16.27       | 16.75       | 17.85       | 21.00       | 24.15       | 27.31       |
| 1.515                 | 33                    | 3.308             | 50           | 5.013             | 6.00                    | 7.59        | 9.18        | 11.07       | 12.34       | 13.12       | 13.91       | 15.49       | 17.06       | 17.54       | 18.64       | 21.79       | 24.95       | 28.10       |
| 1.519                 | 27                    | 2.707             | 41           | 4.110             | 7.21                    | 8.79        | 10.37       | 12.27       | 13.53       | 14.31       | 15.10       | 16.68       | 18.25       | 18.73       | 19.83       | 22.98       | 26.13       | 29.28       |
| 1.520                 | 25                    | 2.506             | 38           | 3.810             | 7.61                    | 9.19        | 10.77       | 12.66       | 13.92       | 14.71       | 15.50       | 17.07       | 18.65       | 19.12       | 20.22       | 23.38       | 26.53       | 29.68       |
| 1.537                 | 41                    | 4.110             | 63           | 6.316             |                         |             | 5.88        | 7.48        | 9.39        | 10.65       | 11.44       | 13.02       | 14.60       | 15.07       | 16.17       | 19.32       | 22.47       | 25.62       |
| 1.538                 | 26                    | 2.607             | 40           | 4.010             | 7.37                    | 8.95        | 10.53       | 12.42       | 13.69       | 14.47       | 15.26       | 16.83       | 18.41       | 18.88       | 19.99       | 23.14       | 26.29       | 29.44       |
| 1.538                 | 39                    | 3.910             | 60           | 6.015             |                         |             | 6.29        | 7.88        | 9.79        | 11.05       | 11.84       | 13.42       | 15.00       | 15.47       | 16.57       | 19.72       | 22.87       | 26.02       |
| 1.54                  |                       |                   |              |                   |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |





# SELECTION

## 8M HT500 Selection Table (Continued)

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 1792-8MX                | 2000-8MX    | 2200-8MX    | 2240-8MX    | 2400-8MX    | 2520-8MX    | 2600-8MX    | 2800-8MX    | 2840-8MX    | 3048-8MX    | 3200-8MX    | 3280-8MX    | 3600-8MX    | 4000-8MX    | 4400-8MX    | 4480-8MX    |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>1.18</b>             | <b>1.22</b> | <b>1.26</b> | <b>1.26</b> | <b>1.29</b> | <b>1.31</b> | <b>1.32</b> | <b>1.35</b> | <b>1.36</b> | <b>1.38</b> | <b>1.40</b> | <b>1.41</b> | <b>1.45</b> | <b>1.49</b> | <b>1.52</b> | <b>1.53</b> |
| 1.366                 | 41                    | 4.110             | 56           | 5.614             | 27.63                   | 31.72       | 35.66       | 36.45       | 39.60       | 41.96       | 43.54       | 47.48       | 48.26       | 52.20       | 55.35       | 56.92       | 63.22       | 71.10       | 78.97       | 80.55       |
| 1.367                 | 30                    | 3.008             | 41           | 4.110             | 29.68                   | 33.78       | 37.71       | 38.50       | 41.65       | 44.01       | 45.59       | 49.53       | 50.31       | 54.25       | 57.40       | 58.97       | 65.27       | 73.15       | 81.02       | 82.60       |
| 1.370                 | 27                    | 2.707             | 37           | 3.709             | 30.23                   | 34.33       | 38.26       | 39.05       | 42.20       | 44.56       | 46.14       | 50.08       | 50.86       | 54.80       | 57.95       | 59.52       | 65.82       | 73.70       | 81.57       | 83.15       |
| 1.371                 | 35                    | 3.509             | 48           | 4.812             | 28.73                   | 32.83       | 36.76       | 37.55       | 40.70       | 43.06       | 44.64       | 48.58       | 49.37       | 53.30       | 56.45       | 58.03       | 64.33       | 72.20       | 80.08       | 81.65       |
| 1.379                 | 29                    | 2.907             | 40           | 4.010             | 29.84                   | 33.93       | 37.87       | 38.66       | 41.81       | 44.17       | 45.74       | 49.68       | 50.47       | 54.40       | 57.55       | 59.13       | 65.43       | 73.31       | 81.18       | 82.76       |
| 1.385                 | 26                    | 2.607             | 36           | 3.609             | 30.39                   | 34.48       | 38.42       | 39.21       | 42.36       | 44.72       | 46.30       | 50.24       | 51.02       | 54.96       | 58.11       | 59.68       | 65.98       | 73.86       | 81.73       | 83.31       |
| 1.389                 | 36                    | 3.609             | 50           | 5.013             | 28.49                   | 32.59       | 36.53       | 37.32       | 40.47       | 42.83       | 44.40       | 48.34       | 49.13       | 53.06       | 56.21       | 57.79       | 64.09       | 71.96       | 79.84       | 81.42       |
| 1.393                 | 28                    | 2.807             | 39           | 3.910             | 29.99                   | 34.09       | 38.03       | 38.82       | 41.97       | 44.33       | 45.90       | 49.84       | 50.63       | 54.56       | 57.71       | 59.29       | 65.59       | 73.46       | 81.34       | 82.91       |
| 1.395                 | 38                    | 3.810             | 53           | 5.314             | 28.10                   | 32.20       | 36.13       | 36.92       | 40.07       | 42.43       | 44.01       | 47.95       | 48.73       | 52.67       | 55.82       | 57.39       | 63.69       | 71.57       | 79.45       | 81.02       |
| 1.396                 | 48                    | 4.812             | 67           | 6.717             | 26.20                   | 30.30       | 34.24       | 35.03       | 38.18       | 40.54       | 42.11       | 46.06       | 46.84       | 50.78       | 53.93       | 55.50       | 61.80       | 69.68       | 77.55       | 79.13       |
| 1.400                 | 25                    | 2.506             | 35           | 3.509             | 30.55                   | 34.64       | 38.58       | 39.37       | 42.52       | 44.88       | 46.45       | 50.39       | 51.18       | 55.11       | 58.26       | 59.84       | 66.14       | 74.01       | 81.89       | 83.46       |
| 1.400                 | 30                    | 3.008             | 42           | 4.211             | 29.60                   | 33.69       | 37.63       | 38.42       | 41.57       | 43.93       | 45.51       | 49.45       | 50.23       | 54.17       | 57.32       | 58.89       | 65.19       | 73.07       | 80.94       | 82.52       |
| 1.400                 | 40                    | 4.010             | 56           | 5.614             | 27.70                   | 31.80       | 35.74       | 36.53       | 39.68       | 42.04       | 43.61       | 47.55       | 48.34       | 52.28       | 55.43       | 57.00       | 63.30       | 71.18       | 79.05       | 80.63       |
| 1.400                 | 45                    | 4.511             | 63           | 6.316             | 26.76                   | 30.85       | 34.79       | 35.58       | 38.73       | 41.09       | 42.67       | 46.61       | 47.39       | 51.33       | 54.48       | 56.05       | 62.35       | 70.23       | 78.11       | 79.68       |
| 1.400                 | 80                    | 8.020             | 112          | 11.229            | 20.09                   | 24.20       | 28.14       | 28.93       | 32.09       | 34.45       | 36.03       | 39.97       | 40.76       | 44.69       | 47.84       | 49.42       | 55.72       | 63.60       | 71.48       | 73.05       |
| 1.406                 | 32                    | 3.208             | 45           | 4.511             | 29.21                   | 33.30       | 37.24       | 38.03       | 41.18       | 43.54       | 45.11       | 49.05       | 49.84       | 53.77       | 56.92       | 58.50       | 64.80       | 72.67       | 80.55       | 82.12       |
| 1.407                 | 27                    | 2.707             | 38           | 3.810             | 30.15                   | 34.25       | 38.18       | 38.97       | 42.12       | 44.48       | 46.06       | 50.00       | 50.78       | 54.72       | 57.87       | 59.44       | 65.74       | 73.62       | 81.49       | 83.07       |
| 1.409                 | 22                    | 2.206             | 31           | 3.108             | 31.10                   | 35.19       | 39.13       | 39.92       | 43.07       | 45.43       | 47.00       | 50.94       | 51.73       | 55.66       | 58.81       | 60.39       | 66.69       | 74.57       | 82.44       | 84.02       |
| 1.412                 | 34                    | 3.409             | 48           | 4.812             | 28.81                   | 32.91       | 36.84       | 37.63       | 40.78       | 43.14       | 44.72       | 48.66       | 49.44       | 53.38       | 56.53       | 58.10       | 64.40       | 72.28       | 80.16       | 81.73       |
| 1.414                 | 29                    | 2.907             | 41           | 4.110             | 29.76                   | 33.85       | 37.79       | 38.58       | 41.73       | 44.09       | 45.66       | 49.61       | 50.39       | 54.33       | 57.48       | 59.05       | 65.35       | 73.23       | 81.10       | 82.68       |
| 1.415                 | 53                    | 5.314             | 75           | 7.519             | 25.17                   | 29.27       | 33.21       | 34.00       | 37.15       | 39.51       | 41.09       | 45.03       | 45.81       | 49.75       | 52.90       | 54.47       | 60.77       | 68.65       | 76.53       | 78.10       |
| 1.420                 | 50                    | 5.013             | 71           | 7.118             | 25.73                   | 29.82       | 33.76       | 34.55       | 37.70       | 40.06       | 41.64       | 45.58       | 46.37       | 50.30       | 53.45       | 55.03       | 61.33       | 69.20       | 77.08       | 78.66       |
| 1.423                 | 26                    | 2.607             | 37           | 3.709             | 30.31                   | 34.41       | 38.34       | 39.13       | 42.28       | 44.64       | 46.22       | 50.16       | 50.94       | 54.88       | 58.03       | 59.60       | 65.90       | 73.78       | 81.65       | 83.23       |
| 1.429                 | 28                    | 2.807             | 40           | 4.010             | 29.91                   | 34.01       | 37.95       | 38.74       | 41.89       | 44.25       | 45.82       | 49.76       | 50.55       | 54.48       | 57.63       | 59.21       | 65.51       | 73.38       | 81.26       | 82.83       |
| 1.429                 | 35                    | 3.509             | 50           | 5.013             | 28.57                   | 32.67       | 36.60       | 37.39       | 40.54       | 42.91       | 44.48       | 48.42       | 49.21       | 53.14       | 56.29       | 57.87       | 64.17       | 72.04       | 79.92       | 81.49       |
| 1.429                 | 42                    | 4.211             | 60           | 6.015             | 27.23                   | 31.33       | 35.26       | 36.05       | 39.20       | 41.56       | 43.14       | 47.08       | 47.87       | 51.80       | 54.95       | 56.53       | 62.83       | 70.70       | 78.58       | 80.15       |
| 1.429                 | 56                    | 5.614             | 80           | 8.020             | 24.54                   | 28.64       | 32.57       | 33.37       | 36.52       | 38.88       | 40.45       | 44.40       | 45.18       | 49.12       | 52.27       | 53.84       | 60.14       | 68.02       | 75.90       | 77.47       |
| 1.429                 | 63                    | 6.316             | 90           | 9.023             | 23.19                   | 27.29       | 31.23       | 32.02       | 35.17       | 37.53       | 39.11       | 43.05       | 43.84       | 47.77       | 50.92       | 52.50       | 58.80       | 66.68       | 74.56       | 76.13       |
| 1.432                 | 37                    | 3.709             | 53           | 5.314             | 28.18                   | 32.27       | 36.21       | 37.00       | 40.15       | 42.51       | 44.09       | 48.03       | 48.81       | 52.75       | 55.90       | 57.47       | 63.77       | 71.65       | 79.52       | 81.10       |
| 1.436                 | 39                    | 3.910             | 56           | 5.614             | 27.78                   | 31.88       | 35.81       | 36.60       | 39.76       | 42.12       | 43.69       | 47.63       | 48.42       | 52.35       | 55.50       | 57.08       | 63.38       | 71.25       | 79.13       | 80.71       |
| 1.440                 | 25                    | 2.506             | 36           | 3.609             | 30.47                   | 34.56       | 38.50       | 39.29       | 42.44       | 44.80       | 46.37       | 50.31       | 51.10       | 55.03       | 58.18       | 59.76       | 66.06       | 73.94       | 81.81       | 83.39       |
| 1.444                 | 27                    | 2.707             | 39           | 3.910             | 30.07                   | 34.17       | 38.10       | 38.89       | 42.04       | 44.40       | 45.98       | 49.92       | 50.70       | 54.64       | 57.79       | 59.36       | 65.67       | 73.54       | 81.42       | 82.99       |
| 1.448                 | 29                    | 2.907             | 42           | 4.211             | 29.68                   | 33.77       | 37.71       | 38.50       | 41.65       | 44.01       | 45.58       | 49.53       | 50.31       | 54.25       | 57.40       | 58.97       | 65.27       | 73.15       | 81.02       | 82.60       |
| 1.452                 | 31                    | 3.108             | 45           | 4.511             | 29.28                   | 33.38       | 37.31       | 38.10       | 41.26       | 43.62       | 45.19       | 49.13       | 49.92       | 53.85       | 57.00       | 58.58       | 64.88       | 72.75       | 80.63       | 82.20       |
| 1.455                 | 22                    | 2.206             | 32           | 3.208             | 31.02                   | 35.11       | 39.05       | 39.84       | 42.99       | 45.35       | 46.93       | 50.87       | 51.65       | 55.59       | 58.74       | 60.31       | 66.61       | 74.49       | 82.36       | 83.94       |
| 1.455                 | 33                    | 3.308             | 48           | 4.812             | 28.89                   | 32.98       | 36.92       | 37.71       | 40.86       | 43.22       | 44.80       | 48.74       | 49.52       | 53.46       | 56.61       | 58.18       | 64.48       | 72.36       | 80.23       | 81.81       |
| 1.462                 | 26                    | 2.607             | 38           | 3.810             | 30.23                   | 34.32       | 38.26       | 39.05       | 42.20       | 44.56       | 46.14       | 50.08       | 50.86       | 54.80       | 57.95       | 59.52       | 65.82       | 73.70       | 81.57       | 83.15       |
| 1.463                 | 41                    | 4.110             | 60           | 6.015             | 27.31                   | 31.40       | 35.34       | 36.13       | 39.28       | 41.64       | 43.22       | 47.16       | 47.94       | 51.88       | 55.03       | 56.60       | 62.91       | 70.78       | 78.66       | 80.23       |
| 1.464                 | 28                    | 2.807             | 41           | 4.110             | 29.84                   | 33.93       | 37.87       | 38.66       | 41.81       | 44.17       | 45.74       | 49.68       | 50.47       | 54.40       | 57.55       | 59.13       | 65.43       | 73.30       | 81.18       | 82.75       |
| 1.471                 | 34                    | 3.409             | 50           | 5.013             | 28.65                   | 32.75       | 36.68       | 37.47       | 40.62       | 42.98       | 44.56       | 48.50       | 49.28       | 53.22       | 56.37       | 57.94       | 64.25       | 72.12       | 80.00       | 81.57       |
| 1.472                 | 36                    | 3.609             | 53           | 5.314             | 28.25                   | 32.35       | 36.29       | 37.08       | 40.23       | 42.59       | 44.16       | 48.10       | 48.89       | 52.83       | 55.98       | 57.55       | 63.85       | 71.73       | 79.60       | 81.18       |
| 1.474                 | 38                    | 3.810             | 56           | 5.614             | 27.86                   | 31.96       | 35.89       | 36.68       | 39.83       | 42.19       | 43.77       | 47.71       | 48.50       | 52.43       | 55.58       | 57.16       | 63.46       | 71.33       | 79.21       | 80.78       |
| 1.479                 | 48                    | 4.812             | 71           | 7.118             | 25.88                   | 29.98       | 33.92       | 34.71       | 37.86       | 40.22       | 41.79       | 45.74       | 46.52       | 50.46       | 53.61       | 55.18       | 61.48       | 69.36       | 77.24       | 78.81       |
| 1.480                 | 25                    | 2.506             | 37           | 3.709             | 30.39                   | 34.48       | 38.42       | 39.21       | 42.36       | 44.72       | 46.29       | 50.24       | 51.02       | 54.96       | 58.11       | 59.68       | 65.98       | 73.86       | 81.73       | 83.31       |
| 1.481                 | 27                    | 2.707             | 40           | 4.010             | 29.99                   | 34.09       | 38.02       | 38.81       | 41.96       | 44.32       | 45.90       | 49.84       | 50.63       | 54.56       | 57.71       | 59.29       | 65.59       | 73.46       | 81.34       | 82.91       |
| 1.489                 | 45                    | 4.511             | 67           | 6.717             | 26.43                   | 30.53       | 34.47       | 35.26       | 38.41       | 40.77       | 42.35       | 46.29       | 47.07       | 51.01       | 54.16       | 55.74       | 62.04       | 69.91       | 77.79       | 79.36       |
| 1.493                 | 75                    | 7.519             | 112          | 11.229            | 20.47                   | 24.58       | 28.52       | 29.31       | 32.47       | 34.83       | 36.41       | 40.35       | 41.14       | 45.08       | 48.23       | 49.81       | 56.11       | 63.99       | 71.87       | 73.44       |
| 1.500                 | 22                    | 2.206             | 33           | 3.308             | 30.94                   | 35.03       | 38.97       | 39.76       | 42.91       | 45.27       | 46.85       | 50.79       | 51.57       | 55.51       | 58.66       | 60.23       | 66.53       | 74.41       | 82.28       | 83.86       |
| 1.500                 | 26                    | 2.607             | 39           | 3.910             | 30.15                   | 34.25       | 38.18       | 38.97       | 42.12       | 44.48       | 46.06       | 50.00       | 50.78       | 54.72       | 57.87       | 59.44       | 65.74       | 73.62       | 81.49       | 83.07       |
| 1.500                 | 28                    | 2.807             | 42           | 4.211             | 29.75                   | 33.85       | 37.79       | 38.58       | 41.73       | 44.09       | 45.66       | 49.60       | 50.39       | 54.32       | 57.47       | 59.05       | 65.35       | 73.22       | 81.10       | 82.68       |
| 1.500                 | 30                    | 3.008             | 45           | 4.511             | 29.36                   | 33.46       | 37.39       | 38.18       | 41.33       | 43.69       | 45.27       | 49.21       | 49.99       | 53.93       | 57.08       | 58.65       | 64.95       | 72.83       | 80.71       | 82.28       |
| 1.500                 | 32                    | 3.208             | 48           | 4.812             | 28.97                   | 33.06       | 37.00       | 37.79       | 40.94       | 43.30       | 44.87       | 48.81       | 49.60       | 53.54       | 56.69       | 58.26       | 64.56       | 72.44       | 80.31       | 81.89       |
| 1.500                 | 40                    | 4.010             | 60           | 6.015             | 27.38                   | 31.48       | 35.42       | 36.21       | 39.36       | 41.72       | 43.29       | 47.24       | 48.02       | 51.96       | 55.11       | 56.68       | 62.98       | 70.86       | 78.74       | 80.31       |
| 1.500                 | 42                    | 4.211             | 63           | 6.316             | 26.99                   | 31.08       | 35.02       | 35.81       | 38.96       | 41.32       | 42.90       | 46.84       | 47.63       | 51.56       | 54.71       | 56.29       | 62.59       | 70.46       | 78.34       | 79.92       |
| 1.500                 | 50                    | 5.013             | 75           | 7.519             | 25.40                   | 29.50       | 33.44       | 34.23       | 37.38       | 39.74       | 41.32       | 45.26       | 46.05       | 49.98       | 53.13       | 54.71       | 61.01       | 68.89       | 76.76       | 78.34       |
| 1.500                 | 60                    | 6.015             | 90           | 9.023             | 23.42                   | 27.52       | 31.46       | 32.25       | 35.40       | 37.76       | 39.34       |             |             |             |             |             |             |             |             |             |

# SELECTION



## 8M HT500 Selection Table

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 640-8MX                 | 720-8MX     | 800-8MX     | 896-8MX     | 960-8MX     | 1000-8MX    | 1040-8MX    | 1120-8MX    | 1200-8MX    | 1224-8MX    | 1280-8MX    | 1440-8MX    | 1600-8MX    | 1760-8MX    |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.79</b>             | <b>0.83</b> | <b>0.87</b> | <b>0.91</b> | <b>0.94</b> | <b>0.96</b> | <b>0.97</b> | <b>1.00</b> | <b>1.03</b> | <b>1.03</b> | <b>1.05</b> | <b>1.10</b> | <b>1.14</b> | <b>1.17</b> |
| 1.578                 | 45                    | 4.511             | 71           | 7.118             |                         |             | 6.49        | 8.41        | 9.68        | 10.47       | 11.26       | 12.85       | 14.43       | 14.90       | 16.01       | 19.17       | 22.32       | 25.48       |
| 1.579                 | 38                    | 3.810             | 60           | 6.015             |                         | 6.36        | 7.96        | 9.86        | 11.13       | 11.92       | 12.71       | 14.29       | 15.87       | 16.34       | 17.44       | 20.60       | 23.75       | 26.91       |
| 1.591                 | 22                    | 2.206             | 35           | 3.509             | 8.09                    | 9.66        | 11.24       | 13.14       | 14.40       | 15.18       | 15.97       | 17.54       | 19.12       | 19.60       | 20.70       | 23.85       | 27.00       | 30.15       |
| 1.595                 | 42                    | 4.211             | 67           | 6.717             |                         |             | 7.06        | 8.97        | 10.24       | 11.03       | 11.82       | 13.40       | 14.98       | 15.46       | 16.56       | 19.72       | 22.88       | 26.03       |
| 1.600                 | 25                    | 2.506             | 40           | 4.010             | 7.44                    | 9.03        | 10.61       | 12.50       | 13.76       | 14.55       | 15.33       | 16.91       | 18.49       | 18.96       | 20.06       | 23.22       | 26.37       | 29.52       |
| 1.600                 | 30                    | 3.008             | 48           | 4.812             | 6.39                    | 7.98        | 9.57        | 11.46       | 12.73       | 13.51       | 14.30       | 15.88       | 17.45       | 17.93       | 19.03       | 22.18       | 25.34       | 28.49       |
| 1.600                 | 35                    | 3.509             | 56           | 5.614             | 5.33                    | 6.93        | 8.52        | 10.42       | 11.69       | 12.48       | 13.26       | 14.84       | 16.42       | 16.90       | 18.00       | 21.15       | 24.31       | 27.46       |
| 1.600                 | 50                    | 5.013             | 80           | 8.020             |                         |             | 7.25        | 8.53        | 9.33        | 10.12       | 11.71       | 13.30       | 13.78       | 14.88       | 18.05       | 21.21       | 24.36       |             |
| 1.606                 | 33                    | 3.308             | 53           | 5.314             | 5.74                    | 7.33        | 8.92        | 10.82       | 12.09       | 12.87       | 13.66       | 15.24       | 16.82       | 17.29       | 18.40       | 21.55       | 24.70       | 27.86       |
| 1.607                 | 28                    | 2.807             | 45           | 4.511             | 6.80                    | 8.38        | 9.97        | 11.86       | 13.12       | 13.91       | 14.70       | 16.28       | 17.85       | 18.33       | 19.43       | 22.58       | 25.73       | 28.88       |
| 1.607                 | 56                    | 5.614             | 90           | 9.023             |                         |             |             |             | 8.01        | 8.81        | 10.41       | 12.00       | 12.48       | 13.59       | 16.76       | 19.93       | 23.09       |             |
| 1.613                 | 31                    | 3.108             | 50           | 5.013             | 6.15                    | 7.74        | 9.32        | 11.22       | 12.49       | 13.27       | 14.06       | 15.64       | 17.22       | 17.69       | 18.79       | 21.95       | 25.10       | 28.25       |
| 1.615                 | 26                    | 2.607             | 42           | 4.211             | 7.20                    | 8.78        | 10.36       | 12.26       | 13.52       | 14.31       | 15.09       | 16.67       | 18.25       | 18.72       | 19.82       | 22.98       | 26.13       | 29.28       |
| 1.615                 | 39                    | 3.910             | 63           | 6.316             |                         |             | 7.62        | 9.53        | 10.80       | 11.59       | 12.38       | 13.96       | 15.54       | 16.02       | 17.12       | 20.28       | 23.43       | 26.59       |
| 1.622                 | 37                    | 3.709             | 60           | 6.015             |                         | 6.43        | 8.03        | 9.94        | 11.20       | 11.99       | 12.78       | 14.36       | 15.94       | 16.42       | 17.52       | 20.68       | 23.83       | 26.98       |
| 1.634                 | 41                    | 4.110             | 67           | 6.717             |                         |             | 7.13        | 9.04        | 10.31       | 11.10       | 11.90       | 13.48       | 15.06       | 15.54       | 16.64       | 19.80       | 22.95       | 26.11       |
| 1.636                 | 22                    | 2.206             | 36           | 3.609             | 8.00                    | 9.58        | 11.16       | 13.05       | 14.32       | 15.10       | 15.89       | 17.46       | 19.04       | 19.52       | 20.62       | 23.77       | 26.92       | 30.07       |
| 1.640                 | 25                    | 2.506             | 41           | 4.110             | 7.36                    | 8.94        | 10.52       | 12.42       | 13.68       | 14.47       | 15.25       | 16.83       | 18.41       | 18.88       | 19.98       | 23.13       | 26.29       | 29.44       |
| 1.647                 | 34                    | 3.409             | 56           | 5.614             | 5.40                    | 7.00        | 8.59        | 10.50       | 11.76       | 12.55       | 13.34       | 14.92       | 16.50       | 16.97       | 18.07       | 21.23       | 24.38       | 27.54       |
| 1.655                 | 29                    | 2.907             | 48           | 4.812             | 6.47                    | 8.06        | 9.64        | 11.54       | 12.80       | 13.59       | 14.38       | 15.95       | 17.53       | 18.01       | 19.11       | 22.26       | 25.41       | 28.57       |
| 1.656                 | 32                    | 3.208             | 53           | 5.314             | 5.81                    | 7.41        | 9.00        | 10.90       | 12.16       | 12.95       | 13.74       | 15.32       | 16.89       | 17.37       | 18.47       | 21.63       | 24.78       | 27.93       |
| 1.658                 | 38                    | 3.810             | 63           | 6.316             |                         | 6.09        | 7.69        | 9.61        | 10.87       | 11.66       | 12.45       | 14.04       | 15.62       | 16.09       | 17.20       | 20.35       | 23.51       | 26.66       |
| 1.667                 | 27                    | 2.707             | 45           | 4.511             | 6.87                    | 8.46        | 10.04       | 11.94       | 13.20       | 13.99       | 14.77       | 16.35       | 17.93       | 18.40       | 19.51       | 22.66       | 25.81       | 28.96       |
| 1.667                 | 30                    | 3.008             | 50           | 5.013             | 6.22                    | 7.81        | 9.40        | 11.30       | 12.56       | 13.35       | 14.13       | 15.71       | 17.29       | 17.77       | 18.87       | 22.02       | 25.18       | 28.33       |
| 1.667                 | 36                    | 3.609             | 60           | 6.015             |                         | 6.50        | 8.10        | 10.01       | 11.28       | 12.07       | 12.85       | 14.44       | 16.02       | 16.49       | 17.60       | 20.75       | 23.91       | 27.06       |
| 1.667                 | 45                    | 4.511             | 75           | 7.519             |                         |             |             | 8.05        | 9.33        | 10.12       | 10.92       | 12.51       | 14.09       | 14.57       | 15.67       | 18.84       | 22.00       | 25.15       |
| 1.667                 | 48                    | 4.812             | 80           | 8.020             |                         |             |             | 7.39        | 8.67        | 9.47        | 10.27       | 11.86       | 13.45       | 13.92       | 15.03       | 18.20       | 21.36       | 24.51       |
| 1.672                 | 67                    | 6.717             | 112          | 11.229            |                         |             |             |             |             |             |             |             |             | 9.74        | 10.87       | 14.07       | 17.25       | 20.43       |
| 1.675                 | 40                    | 4.010             | 67           | 6.717             |                         |             |             |             |             |             |             |             |             | 15.61       | 16.72       | 19.87       | 23.03       | 26.19       |
| 1.680                 | 25                    | 2.506             | 42           | 4.211             | 7.27                    | 8.86        | 10.44       | 12.34       | 13.60       | 14.38       | 15.17       | 16.75       | 18.32       | 18.80       | 19.90       | 23.05       | 26.21       | 29.36       |
| 1.682                 | 22                    | 2.206             | 37           | 3.709             | 7.92                    | 9.50        | 11.08       | 12.97       | 14.23       | 15.02       | 15.81       | 17.38       | 18.96       | 19.43       | 20.54       | 23.69       | 26.84       | 29.99       |
| 1.690                 | 42                    | 4.211             | 71           | 7.118             |                         |             | 6.69        | 8.62        | 9.90        | 10.69       | 11.48       | 13.07       | 14.65       | 15.13       | 16.23       | 19.39       | 22.55       | 25.71       |
| 1.697                 | 33                    | 3.308             | 56           | 5.614             | 5.47                    | 7.07        | 8.67        | 10.57       | 11.84       | 12.62       | 13.41       | 14.99       | 16.57       | 17.05       | 18.15       | 21.31       | 24.46       | 27.61       |
| 1.698                 | 53                    | 5.314             | 90           | 9.023             |                         |             |             |             | 7.41        | 8.21        | 9.02        | 10.62       | 12.22       | 12.70       | 13.81       | 16.98       | 20.15       | 23.31       |
| 1.703                 | 37                    | 3.709             | 63           | 6.316             |                         | 6.16        | 7.77        | 9.68        | 10.95       | 11.74       | 12.53       | 14.11       | 15.69       | 16.17       | 17.27       | 20.43       | 23.59       | 26.74       |
| 1.710                 | 31                    | 3.108             | 53           | 5.314             | 5.88                    | 7.48        | 9.07        | 10.97       | 12.24       | 13.02       | 13.81       | 15.39       | 16.97       | 17.45       | 18.55       | 21.70       | 24.86       | 28.01       |
| 1.714                 | 28                    | 2.807             | 48           | 4.812             | 6.54                    | 8.13        | 9.71        | 11.61       | 12.88       | 13.66       | 14.45       | 16.03       | 17.61       | 18.08       | 19.18       | 22.34       | 25.49       | 28.64       |
| 1.714                 | 35                    | 3.509             | 60           | 6.015             |                         | 6.58        | 8.17        | 10.08       | 11.35       | 12.14       | 12.93       | 14.51       | 16.09       | 16.57       | 17.67       | 20.83       | 23.98       | 27.14       |
| 1.718                 | 39                    | 3.910             | 67           | 6.717             |                         |             | 7.27        | 9.19        | 10.46       | 11.25       | 12.04       | 13.63       | 15.21       | 15.69       | 16.79       | 19.95       | 23.11       | 26.26       |
| 1.724                 | 29                    | 2.907             | 50           | 5.013             | 6.29                    | 7.88        | 9.47        | 11.37       | 12.64       | 13.42       | 14.21       | 15.79       | 17.37       | 17.84       | 18.95       | 22.10       | 25.25       | 28.41       |
| 1.727                 | 22                    | 2.206             | 38           | 3.810             | 7.83                    | 9.42        | 11.00       | 12.89       | 14.15       | 14.94       | 15.72       | 17.30       | 18.88       | 19.35       | 20.45       | 23.61       | 26.76       | 29.91       |
| 1.731                 | 26                    | 2.607             | 45           | 4.511             | 6.94                    | 8.53        | 10.11       | 12.01       | 13.28       | 14.06       | 14.85       | 16.43       | 18.00       | 18.48       | 19.58       | 22.73       | 25.89       | 29.04       |
| 1.732                 | 41                    | 4.110             | 71           | 7.118             |                         |             | 6.76        | 8.69        | 9.97        | 10.76       | 11.55       | 13.14       | 14.72       | 15.20       | 16.31       | 19.47       | 22.63       | 25.78       |
| 1.750                 | 32                    | 3.208             | 56           | 5.614             | 5.54                    | 7.14        | 8.74        | 10.64       | 11.91       | 12.70       | 13.49       | 15.07       | 16.65       | 17.12       | 18.23       | 21.38       | 24.54       | 27.69       |
| 1.750                 | 36                    | 3.609             | 63           | 6.316             |                         | 6.23        | 7.84        | 9.75        | 11.02       | 11.81       | 12.60       | 14.19       | 15.77       | 16.24       | 17.35       | 20.51       | 23.66       | 26.82       |
| 1.750                 | 80                    | 8.020             | 140          | 14.036            |                         |             |             |             |             |             |             |             |             |             |             |             | 13.84       | 17.06       |
| 1.763                 | 38                    | 3.810             | 67           | 6.717             |                         |             | 7.34        | 9.26        | 10.53       | 11.32       | 12.11       | 13.70       | 15.28       | 15.76       | 16.86       | 20.02       | 23.18       | 26.34       |
| 1.765                 | 34                    | 3.409             | 60           | 6.015             |                         | 6.65        | 8.25        | 10.15       | 11.42       | 12.21       | 13.00       | 14.59       | 16.17       | 16.64       | 17.75       | 20.90       | 24.06       | 27.21       |
| 1.767                 | 30                    | 3.008             | 53           | 5.314             | 5.95                    | 7.55        | 9.14        | 11.04       | 12.31       | 13.10       | 13.89       | 15.47       | 17.04       | 17.52       | 18.62       | 21.78       | 24.93       | 28.09       |
| 1.773                 | 22                    | 2.206             | 39           | 3.910             | 7.75                    | 9.33        | 10.91       | 12.81       | 14.07       | 14.86       | 15.64       | 17.22       | 18.80       | 19.27       | 20.37       | 23.53       | 26.68       | 29.83       |
| 1.775                 | 40                    | 4.010             | 71           | 7.118             |                         |             | 6.83        | 8.76        | 10.04       | 10.83       | 11.63       | 13.21       | 14.80       | 15.28       | 16.38       | 19.54       | 22.70       | 25.86       |
| 1.778                 | 27                    | 2.707             | 48           | 4.812             | 6.61                    | 8.20        | 9.79        | 11.69       | 12.95       | 13.74       | 14.53       | 16.11       | 17.68       | 18.16       | 19.26       | 22.41       | 25.57       | 28.72       |
| 1.778                 | 45                    | 4.511             | 80           | 8.020             |                         |             |             | 7.59        | 8.88        | 9.68        | 10.48       | 12.08       | 13.67       | 14.14       | 15.25       | 18.42       | 21.58       | 24.74       |
| 1.778                 | 63                    | 6.316             | 112          | 11.229            |                         |             |             |             |             |             |             |             |             | 9.52        | 10.01       | 11.14       | 14.35       | 17.54       |
| 1.786                 | 28                    | 2.807             | 50           | 5.013             | 6.36                    | 7.96        | 9.54        | 11.44       | 12.71       | 13.50       | 14.29       | 15.86       | 17.44       | 17.92       | 19.02       | 22.18       | 25.33       | 28.48       |
| 1.786                 | 42                    | 4.211             | 75           | 7.519             |                         |             |             | 8.26        | 9.54        | 10.34       | 11.13       | 12.72       | 14.31       | 14.79       | 15.90       | 19.06       | 22.22       | 25.38       |
| 1.800                 | 25                    | 2.506             | 45           | 4.511             | 7.02                    | 8.61        | 10.19       | 12.09       | 13.35       | 14.14       | 14.93       | 16.50       | 18.08       | 18.56       | 19.66       | 22.81       | 25.96       | 29.12       |
| 1.800                 | 35                    | 3.509             | 63           | 6.316             |                         | 6.30        | 7.91        | 9.82        | 11.09       | 11.89       | 12.68       | 14.26       | 15.84       | 16.32       | 17.42       | 20.58       | 23.74       | 26.89       |
| 1.800                 | 50                    | 5.013             | 90           | 9.023             |                         |             |             |             | 7.61        | 8.42        | 9.23        | 10.84       | 12.43       | 12.92       | 14.03       | 17.20       | 20.37       | 23.54       |
| 1.806                 | 31                    | 3.108             | 56           | 5.614             | 5.61                    | 7.22        | 8.81        | 10.72       | 11.98       | 12.77       | 13.56       | 15.14       | 16.72       | 17.20       | 18.30       | 21.46       | 24.61       | 27.77       |
| 1.811                 | 37                    | 3.709             | 67           | 6.717             |                         |             | 5.79        | 7.41        | 9.33        | 10.60       | 11.40       | 12.99       | 14.57       | 15.05       | 16.15       | 19.30       | 22.45       | 25.61       |
| 1.818                 | 22                    | 2.206             | 40           | 4.010             | 7.66                    | 9.25        | 10.83       | 12.73       | 13.99       | 14.78       | 15.56       | 17.14       | 18.72       | 19.19       | 20.29       | 23.45       | 26.60       | 29.75       |
| 1.818                 | 33                    | 3.308             | 60           | 6.015             |                         | 6.72        | 8.32        | 10.23       | 11.50       | 12.29       | 13.08       | 14.66       | 16.24       | 16.72       | 17.82       | 20.98       | 24.13       | 27.29       |
| 1.821                 | 39                    | 3.910             | 71           | 7.118             |                         |             | 6.90        | 8.83        | 10.11       | 10.91       | 11.70       | 13.29       | 14.87       | 15.35       | 16.46       | 19.62       | 22.78       | 25.93       |
| 1.828                 | 29                    | 2.907             | 53           | 5.314             | 6.02                    | 7.62        | 9.21        | 11.12       | 12.38       | 13.17       | 13.96       | 15.54       | 17.12       | 17.60       | 18.70       | 21.86       | 25.01       | 28.16       |
| 1.829                 | 41                    | 4.110             | 75           | 7.519             |                         |             | 6.39        | 8.33        | 9.62</      |             |             |             |             |             |             |             |             |             |





# SELECTION

## 8M HT500 Selection Table (Continued)

| Speed Ratio | Sprocket Combinations |                   |              |                   | Center Distance, Inches |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-------------|-----------------------|-------------------|--------------|-------------------|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|             | Driver                |                   | Driven       |                   | 1792-8MX                | 2000-8MX | 2200-8MX | 2240-8MX | 2400-8MX | 2520-8MX | 2600-8MX | 2800-8MX | 2840-8MX | 3048-8MX | 3200-8MX | 3280-8MX | 3600-8MX | 4000-8MX | 4400-8MX | 4480-8MX |
|             | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|             | Length Factor*        |                   |              |                   | 1.18                    | 1.22     | 1.26     | 1.26     | 1.29     | 1.31     | 1.32     | 1.35     | 1.36     | 1.38     | 1.40     | 1.41     | 1.45     | 1.49     | 1.52     | 1.53     |
| 1.578       | 45                    | 4.511             | 71           | 7.118             | 26.11                   | 30.21    | 34.15    | 34.94    | 38.09    | 40.45    | 42.03    | 45.97    | 46.75    | 50.85    | 53.84    | 55.42    | 61.72    | 69.59    | 77.47    | 79.05    |
| 1.579       | 38                    | 3.810             | 60           | 6.015             | 27.54                   | 31.63    | 35.57    | 36.36    | 39.51    | 41.87    | 43.45    | 47.39    | 48.18    | 52.27    | 55.26    | 56.84    | 63.14    | 71.01    | 78.89    | 80.47    |
| 1.591       | 22                    | 2.206             | 35           | 3.509             | 30.78                   | 34.88    | 38.81    | 39.60    | 42.75    | 45.11    | 46.69    | 50.63    | 51.41    | 55.51    | 58.50    | 60.07    | 66.37    | 74.25    | 82.12    | 83.70    |
| 1.595       | 42                    | 4.211             | 67           | 6.717             | 26.66                   | 30.76    | 34.70    | 35.49    | 38.64    | 41.00    | 42.58    | 46.52    | 47.31    | 51.40    | 54.39    | 55.97    | 62.27    | 70.15    | 78.02    | 79.60    |
| 1.600       | 25                    | 2.506             | 40           | 4.010             | 30.15                   | 34.24    | 38.18    | 38.97    | 42.12    | 44.48    | 46.06    | 50.00    | 50.78    | 54.88    | 57.87    | 59.44    | 65.74    | 73.62    | 81.49    | 83.07    |
| 1.600       | 30                    | 3.008             | 48           | 4.812             | 29.12                   | 33.22    | 37.15    | 37.94    | 41.09    | 43.45    | 45.03    | 48.97    | 49.76    | 53.85    | 56.84    | 58.42    | 64.72    | 72.59    | 80.47    | 82.04    |
| 1.600       | 35                    | 3.509             | 56           | 5.614             | 28.09                   | 32.19    | 36.12    | 36.91    | 40.07    | 42.43    | 44.00    | 47.94    | 48.73    | 52.82    | 55.81    | 57.39    | 63.69    | 71.57    | 79.44    | 81.02    |
| 1.600       | 50                    | 5.013             | 80           | 8.020             | 24.99                   | 29.10    | 33.03    | 33.83    | 36.98    | 39.34    | 40.92    | 44.86    | 45.64    | 49.74    | 52.73    | 54.31    | 60.61    | 68.49    | 76.36    | 77.94    |
| 1.606       | 33                    | 3.308             | 53           | 5.314             | 28.49                   | 32.58    | 36.52    | 37.31    | 40.46    | 42.82    | 44.40    | 48.34    | 49.12    | 53.22    | 56.21    | 57.78    | 64.09    | 71.96    | 79.84    | 81.41    |
| 1.607       | 28                    | 2.807             | 45           | 4.511             | 29.52                   | 33.61    | 37.55    | 38.34    | 41.49    | 43.85    | 45.42    | 49.37    | 50.15    | 54.25    | 57.24    | 58.81    | 65.11    | 72.99    | 80.86    | 82.44    |
| 1.607       | 56                    | 5.614             | 90           | 9.023             | 23.72                   | 27.82    | 31.76    | 32.55    | 35.71    | 38.07    | 39.65    | 43.59    | 44.38    | 48.47    | 51.47    | 53.04    | 59.34    | 67.22    | 75.10    | 76.68    |
| 1.613       | 31                    | 3.108             | 50           | 5.013             | 28.88                   | 32.98    | 36.91    | 37.70    | 40.86    | 43.22    | 44.79    | 48.73    | 49.52    | 53.61    | 56.60    | 58.18    | 64.48    | 72.36    | 80.23    | 81.81    |
| 1.615       | 26                    | 2.607             | 42           | 4.211             | 29.91                   | 34.01    | 37.94    | 38.73    | 41.88    | 44.24    | 45.82    | 49.76    | 50.54    | 54.64    | 57.63    | 59.20    | 65.51    | 73.38    | 81.26    | 82.83    |
| 1.615       | 39                    | 3.910             | 63           | 6.316             | 27.22                   | 31.32    | 35.25    | 36.04    | 39.20    | 41.56    | 43.13    | 47.07    | 47.86    | 51.95    | 54.94    | 56.52    | 62.82    | 70.70    | 78.57    | 80.15    |
| 1.622       | 37                    | 3.709             | 60           | 6.015             | 27.61                   | 31.71    | 35.65    | 36.44    | 39.59    | 41.95    | 43.53    | 47.47    | 48.25    | 52.35    | 55.34    | 56.92    | 63.22    | 71.09    | 78.97    | 80.54    |
| 1.634       | 41                    | 4.110             | 67           | 6.717             | 26.74                   | 30.84    | 34.78    | 35.57    | 38.72    | 41.08    | 42.66    | 46.60    | 47.38    | 51.48    | 54.47    | 56.05    | 62.35    | 70.22    | 78.10    | 79.68    |
| 1.636       | 22                    | 2.206             | 36           | 3.609             | 30.70                   | 34.80    | 38.73    | 39.52    | 42.67    | 45.03    | 46.61    | 50.55    | 51.33    | 55.43    | 58.42    | 59.99    | 66.29    | 74.17    | 82.04    | 83.62    |
| 1.640       | 25                    | 2.506             | 41           | 4.110             | 30.07                   | 34.16    | 38.10    | 38.89    | 42.04    | 44.40    | 45.98    | 49.92    | 50.70    | 54.80    | 57.79    | 59.36    | 65.66    | 73.54    | 81.41    | 82.99    |
| 1.647       | 34                    | 3.409             | 56           | 5.614             | 28.17                   | 32.26    | 36.20    | 36.99    | 40.14    | 42.50    | 44.08    | 48.02    | 48.81    | 52.90    | 55.89    | 57.47    | 63.77    | 71.64    | 79.52    | 81.10    |
| 1.655       | 29                    | 2.907             | 48           | 4.812             | 29.20                   | 33.29    | 37.23    | 38.02    | 41.17    | 43.53    | 45.11    | 49.05    | 49.83    | 53.93    | 56.92    | 58.49    | 64.80    | 72.67    | 80.55    | 82.12    |
| 1.656       | 32                    | 3.208             | 53           | 5.314             | 28.56                   | 32.66    | 36.60    | 37.39    | 40.54    | 42.90    | 44.47    | 48.42    | 49.20    | 53.30    | 56.29    | 57.86    | 64.16    | 72.04    | 79.91    | 81.49    |
| 1.658       | 38                    | 3.810             | 63           | 6.316             | 27.29                   | 31.39    | 35.33    | 36.12    | 39.27    | 41.63    | 43.21    | 47.15    | 47.94    | 52.03    | 55.02    | 56.60    | 62.90    | 70.78    | 78.65    | 80.23    |
| 1.667       | 27                    | 2.707             | 45           | 4.511             | 29.59                   | 33.69    | 37.63    | 38.42    | 41.57    | 43.93    | 45.50    | 49.44    | 50.23    | 54.32    | 57.31    | 58.89    | 65.19    | 73.07    | 80.94    | 82.52    |
| 1.667       | 30                    | 3.008             | 50           | 5.013             | 28.96                   | 33.06    | 36.99    | 37.78    | 40.93    | 43.29    | 44.87    | 48.81    | 49.60    | 53.69    | 56.68    | 58.26    | 64.56    | 72.43    | 80.31    | 81.88    |
| 1.667       | 36                    | 3.609             | 60           | 6.015             | 27.69                   | 31.79    | 35.73    | 36.52    | 39.67    | 42.03    | 43.60    | 47.55    | 48.33    | 52.43    | 55.42    | 56.99    | 63.29    | 71.17    | 79.05    | 80.62    |
| 1.667       | 45                    | 4.511             | 75           | 7.519             | 25.78                   | 29.88    | 33.82    | 34.61    | 37.77    | 40.13    | 41.70    | 45.65    | 46.43    | 50.53    | 53.52    | 55.10    | 61.40    | 69.28    | 77.15    | 78.73    |
| 1.667       | 48                    | 4.812             | 80           | 8.020             | 25.15                   | 29.25    | 33.19    | 33.98    | 37.13    | 39.49    | 41.07    | 45.01    | 45.80    | 49.90    | 52.89    | 54.46    | 60.77    | 68.64    | 76.52    | 78.10    |
| 1.672       | 67                    | 6.717             | 112          | 11.229            | 21.06                   | 25.17    | 29.12    | 29.92    | 33.07    | 35.44    | 37.02    | 40.96    | 41.75    | 45.85    | 48.84    | 50.42    | 56.73    | 64.61    | 72.49    | 74.06    |
| 1.675       | 40                    | 4.010             | 67           | 6.717             | 26.82                   | 30.92    | 34.85    | 35.64    | 38.80    | 41.16    | 42.73    | 46.68    | 47.46    | 51.56    | 54.55    | 56.12    | 62.43    | 70.30    | 78.18    | 79.75    |
| 1.680       | 25                    | 2.506             | 42           | 4.211             | 29.99                   | 34.08    | 38.02    | 38.81    | 41.96    | 44.32    | 45.90    | 49.84    | 50.62    | 54.72    | 57.71    | 59.28    | 65.58    | 73.46    | 81.34    | 82.91    |
| 1.682       | 22                    | 2.206             | 37           | 3.709             | 30.62                   | 34.72    | 38.65    | 39.44    | 42.59    | 44.95    | 46.53    | 50.47    | 51.25    | 55.35    | 58.34    | 59.91    | 66.22    | 74.09    | 81.97    | 83.54    |
| 1.690       | 42                    | 4.211             | 71           | 7.118             | 26.34                   | 30.44    | 34.38    | 35.17    | 38.32    | 40.68    | 42.26    | 46.20    | 46.98    | 51.08    | 54.07    | 55.65    | 61.95    | 69.83    | 77.70    | 79.28    |
| 1.697       | 33                    | 3.308             | 56           | 5.614             | 28.24                   | 32.34    | 36.28    | 37.07    | 40.22    | 42.58    | 44.16    | 48.10    | 48.88    | 52.98    | 55.97    | 57.55    | 63.85    | 71.72    | 79.60    | 81.17    |
| 1.698       | 53                    | 5.314             | 90           | 9.023             | 23.94                   | 28.05    | 31.99    | 32.78    | 35.94    | 38.30    | 39.88    | 43.82    | 44.61    | 48.70    | 51.70    | 53.27    | 59.58    | 67.45    | 75.33    | 76.91    |
| 1.703       | 37                    | 3.709             | 63           | 6.316             | 27.37                   | 31.47    | 35.41    | 36.20    | 39.35    | 41.71    | 43.29    | 47.23    | 48.01    | 52.11    | 55.10    | 56.68    | 62.98    | 70.85    | 78.73    | 80.31    |
| 1.710       | 31                    | 3.108             | 53           | 5.314             | 28.64                   | 32.74    | 36.67    | 37.46    | 40.62    | 42.98    | 44.55    | 48.49    | 49.28    | 53.37    | 56.36    | 57.94    | 64.24    | 72.12    | 79.99    | 81.57    |
| 1.714       | 28                    | 2.807             | 48           | 4.812             | 29.27                   | 33.37    | 37.31    | 38.10    | 41.25    | 43.61    | 45.18    | 49.13    | 49.91    | 54.01    | 57.00    | 58.57    | 64.87    | 72.75    | 80.62    | 82.20    |
| 1.714       | 35                    | 3.509             | 60           | 6.015             | 27.77                   | 31.87    | 35.80    | 36.59    | 39.75    | 42.11    | 43.68    | 47.62    | 48.41    | 52.50    | 55.50    | 57.07    | 63.37    | 71.25    | 79.12    | 80.70    |
| 1.718       | 39                    | 3.910             | 67           | 6.717             | 26.89                   | 30.99    | 34.93    | 35.72    | 38.87    | 41.23    | 42.81    | 46.75    | 47.54    | 51.63    | 54.63    | 56.20    | 62.50    | 70.38    | 78.26    | 79.83    |
| 1.724       | 29                    | 2.907             | 50           | 5.013             | 29.04                   | 33.13    | 37.07    | 37.86    | 41.01    | 43.37    | 44.95    | 48.89    | 49.67    | 53.77    | 56.76    | 58.34    | 64.64    | 72.51    | 80.39    | 81.96    |
| 1.727       | 22                    | 2.206             | 38           | 3.810             | 30.54                   | 34.64    | 38.57    | 39.36    | 42.51    | 44.87    | 46.45    | 50.39    | 51.17    | 55.27    | 58.26    | 59.83    | 66.14    | 74.01    | 81.89    | 83.46    |
| 1.731       | 26                    | 2.607             | 45           | 4.511             | 29.67                   | 33.77    | 37.70    | 38.49    | 41.64    | 44.00    | 45.58    | 49.52    | 50.31    | 54.40    | 57.39    | 58.97    | 65.27    | 73.14    | 81.02    | 82.59    |
| 1.732       | 41                    | 4.110             | 71           | 7.118             | 26.41                   | 30.51    | 34.45    | 35.24    | 38.40    | 40.76    | 42.33    | 46.28    | 47.06    | 51.16    | 54.15    | 55.73    | 62.03    | 69.91    | 77.78    | 79.36    |
| 1.750       | 32                    | 3.208             | 56           | 5.614             | 28.32                   | 32.42    | 36.36    | 37.15    | 40.30    | 42.66    | 44.23    | 48.18    | 48.96    | 53.06    | 56.05    | 57.62    | 63.92    | 71.80    | 79.68    | 81.25    |
| 1.750       | 36                    | 3.609             | 63           | 6.316             | 27.45                   | 31.55    | 35.48    | 36.27    | 39.43    | 41.79    | 43.36    | 47.31    | 48.09    | 52.19    | 55.18    | 56.75    | 63.06    | 70.93    | 78.81    | 80.38    |
| 1.750       | 80                    | 8.020             | 140          | 14.036            | 17.70                   | 21.84    | 25.81    | 26.60    | 29.77    | 32.14    | 33.72    | 37.68    | 38.46    | 42.57    | 45.57    | 47.15    | 53.46    | 61.34    | 69.23    | 70.80    |
| 1.763       | 38                    | 3.810             | 67           | 6.717             | 26.97                   | 31.07    | 35.01    | 35.80    | 38.95    | 41.31    | 42.89    | 46.83    | 47.61    | 51.71    | 54.70    | 56.28    | 62.58    | 70.46    | 78.33    | 79.91    |
| 1.765       | 34                    | 3.409             | 60           | 6.015             | 27.84                   | 31.94    | 35.88    | 36.67    | 39.82    | 42.18    | 43.76    | 47.70    | 48.49    | 52.58    | 55.57    | 57.15    | 63.45    | 71.33    | 79.20    | 80.78    |
| 1.767       | 30                    | 3.008             | 53           | 5.314             | 28.72                   | 32.81    | 36.75    | 37.54    | 40.69    | 43.05    | 44.63    | 48.57    | 49.36    | 53.45    | 56.44    | 58.02    | 64.32    | 72.19    | 80.07    | 81.65    |
| 1.773       | 22                    | 2.206             | 39           | 3.910             | 30.46                   | 34.56    | 38.49    | 39.28    | 42.43    | 44.79    | 46.37    | 50.31    | 51.09    | 55.19    | 58.18    | 59.76    | 66.06    | 73.93    | 81.81    | 83.38    |
| 1.775       | 40                    | 4.010             | 71           | 7.118             | 26.49                   | 30.59    | 34.53    | 35.32    | 38.47    | 40.84    | 42.41    | 46.35    | 47.14    | 51.24    | 54.23    | 55.80    | 62.11    | 69.98    | 77.86    | 79.43    |
| 1.778       | 27                    | 2.707             | 48           | 4.812             | 29.35                   | 33.45    | 37.38    | 38.18    | 41.33    | 43.69    | 45.26    | 49.20    | 49.99    | 54.08    | 57.07    | 58.65    | 64.95    | 72.83    | 80.70    | 82.28    |
| 1.778       | 45                    | 4.511             | 80           | 8.020             | 25.37                   | 29.48    | 33.42    | 34.21    | 37.36    | 39.72    | 41.30    | 45.24    | 46.03    | 50.13    | 53.12    | 54.70    | 61.00    | 68.88    | 76.75    | 78.33    |
| 1.778       | 63                    | 6.316             | 112          | 11.229            | 21.35                   | 25.47    | 29.42    | 30.22    | 33.37    | 35.74    | 37.32    | 41.27    | 42.05    | 46.15    | 49.15    | 50.73    | 57.03    | 64.91    | 72.79    | 74.37    |
| 1.786       | 28                    | 2.807             | 50           | 5.013             | 29.11                   | 33.21    | 37.15    | 37.94    | 41.09    | 43.45    | 45.02    | 48.97    | 49.75    | 53.85    | 56.84    | 58.41    | 64.71    | 72.59    | 80.47    | 82.04    |
| 1.786       | 42                    | 4.211             | 75           | 7.519             | 26.01                   | 30.11    | 34.05    | 34.84    | 38.00    | 40.36    | 41.93    | 45.88    | 46.66    | 50.76    | 53.75    | 55.33    |          |          |          |          |

# SELECTION



## 8M HT500 Selection Table

| Speed Ratio | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|             | Driver                |                   | Driven       |                   | 640-8MX                 | 720-8MX     | 800-8MX     | 896-8MX     | 960-8MX     | 1000-8MX    | 1040-8MX    | 1120-8MX    | 1200-8MX    | 1224-8MX    | 1280-8MX    | 1440-8MX    | 1600-8MX    | 1760-8MX    |
|             | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |
|             | <b>Length Factor*</b> |                   |              |                   | <b>0.79</b>             | <b>0.83</b> | <b>0.87</b> | <b>0.91</b> | <b>0.94</b> | <b>0.96</b> | <b>0.97</b> | <b>1.00</b> | <b>1.03</b> | <b>1.03</b> | <b>1.05</b> | <b>1.10</b> | <b>1.14</b> | <b>1.17</b> |
| 1.893       | 28                    | 2.807             | 53           | 5.314             | 6.09                    | 7.69        | 9.29        | 11.19       | 12.46       | 13.25       | 14.04       | 15.62       | 17.20       | 17.67       | 18.77       | 21.93       | 25.09       | 28.24       |
| 1.905       | 42                    | 4.211             | 80           | 8.020             |                         |             |             | 7.80        | 9.09        | 9.89        | 10.69       | 12.29       | 13.88       | 14.36       | 15.47       | 18.64       | 21.81       | 24.97       |
| 1.909       | 22                    | 2.206             | 42           | 4.211             | 7.49                    | 9.08        | 10.66       | 12.56       | 13.82       | 14.61       | 15.40       | 16.98       | 18.55       | 19.03       | 20.13       | 23.28       | 26.44       | 29.59       |
| 1.909       | 33                    | 3.308             | 63           | 6.316             |                         | 6.44        | 8.05        | 9.97        | 11.24       | 12.03       | 12.82       | 14.41       | 15.99       | 16.47       | 17.57       | 20.73       | 23.89       | 27.04       |
| 1.914       | 35                    | 3.509             | 67           | 6.717             |                         | 5.93        | 7.55        | 9.47        | 10.75       | 11.54       | 12.33       | 13.92       | 15.51       | 15.98       | 17.09       | 20.25       | 23.41       | 26.57       |
| 1.919       | 37                    | 3.709             | 71           | 7.118             |                         |             | 7.04        | 8.97        | 10.25       | 11.05       | 11.84       | 13.43       | 15.02       | 15.50       | 16.60       | 19.77       | 22.93       | 26.09       |
| 1.920       | 25                    | 2.506             | 48           | 4.812             | 6.75                    | 8.35        | 9.94        | 11.84       | 13.10       | 13.89       | 14.68       | 16.26       | 17.84       | 18.31       | 19.41       | 22.57       | 25.72       | 28.87       |
| 1.923       | 26                    | 2.607             | 50           | 5.013             | 6.50                    | 8.10        | 9.69        | 11.59       | 12.86       | 13.65       | 14.44       | 16.02       | 17.59       | 18.07       | 19.17       | 22.33       | 25.48       | 28.63       |
| 1.923       | 39                    | 3.910             | 75           | 7.519             |                         |             | 6.52        | 8.47        | 9.76        | 10.55       | 11.35       | 12.94       | 14.53       | 15.01       | 16.12       | 19.28       | 22.45       | 25.61       |
| 1.931       | 29                    | 2.907             | 56           | 5.614             | 5.75                    | 7.36        | 8.96        | 10.86       | 12.13       | 12.92       | 13.71       | 15.29       | 16.87       | 17.35       | 18.45       | 21.61       | 24.77       | 27.92       |
| 1.935       | 31                    | 3.108             | 60           | 6.015             | 5.23                    | 6.86        | 8.46        | 10.37       | 11.64       | 12.43       | 13.22       | 14.81       | 16.39       | 16.87       | 17.97       | 21.13       | 24.29       | 27.44       |
| 1.951       | 41                    | 4.110             | 80           | 8.020             |                         |             |             | 7.87        | 9.16        | 9.97        | 10.77       | 12.36       | 13.96       | 14.44       | 15.55       | 18.72       | 21.88       | 25.04       |
| 1.963       | 27                    | 2.707             | 53           | 5.314             | 6.16                    | 7.77        | 9.36        | 11.26       | 12.53       | 13.32       | 14.11       | 15.69       | 17.27       | 17.75       | 18.85       | 22.01       | 25.16       | 28.32       |
| 1.969       | 32                    | 3.208             | 63           | 6.316             |                         | 6.51        | 8.12        | 10.04       | 11.31       | 12.10       | 12.90       | 14.48       | 16.06       | 16.54       | 17.65       | 20.81       | 23.96       | 27.12       |
| 1.971       | 34                    | 3.409             | 67           | 6.717             |                         | 5.99        | 7.62        | 9.54        | 10.82       | 11.61       | 12.41       | 13.99       | 15.58       | 16.06       | 17.16       | 20.32       | 23.48       | 26.64       |
| 1.972       | 36                    | 3.609             | 71           | 7.118             |                         |             | 7.11        | 9.04        | 10.33       | 11.12       | 11.92       | 13.51       | 15.09       | 15.57       | 16.68       | 19.84       | 23.00       | 26.16       |
| 1.972       | 71                    | 7.118             | 140          | 14.036            |                         |             |             |             |             |             |             |             |             |             |             | 11.19       | 14.47       | 17.69       |
| 1.974       | 38                    | 3.810             | 75           | 7.519             |                         |             | 6.59        | 8.54        | 9.83        | 10.62       | 11.42       | 13.01       | 14.60       | 15.08       | 16.19       | 19.36       | 22.52       | 25.68       |
| 2.000       | 25                    | 2.506             | 50           | 5.013             | 6.57                    | 8.17        | 9.76        | 11.67       | 12.93       | 13.72       | 14.51       | 16.09       | 17.67       | 18.15       | 19.25       | 22.40       | 25.56       | 28.71       |
| 2.000       | 28                    | 2.807             | 56           | 5.614             | 5.82                    | 7.43        | 9.03        | 10.94       | 12.21       | 13.00       | 13.78       | 15.37       | 16.95       | 17.42       | 18.53       | 21.69       | 24.84       | 28.00       |
| 2.000       | 30                    | 3.008             | 60           | 6.015             | 5.30                    | 6.92        | 8.53        | 10.44       | 11.72       | 12.51       | 13.30       | 14.88       | 16.46       | 16.94       | 18.05       | 21.21       | 24.36       | 27.52       |
| 2.000       | 40                    | 4.010             | 80           | 8.020             |                         |             |             | 7.94        | 9.23        | 10.04       | 10.84       | 12.43       | 14.03       | 14.51       | 15.62       | 18.79       | 21.96       | 25.12       |
| 2.000       | 45                    | 4.511             | 90           | 9.023             |                         |             |             |             | 7.95        | 8.76        | 9.57        | 11.19       | 12.79       | 13.27       | 14.39       | 17.57       | 20.74       | 23.91       |
| 2.000       | 56                    | 5.614             | 112          | 11.229            |                         |             |             |             |             |             |             |             | 9.99        | 10.49       | 11.63       | 14.85       | 18.05       | 21.23       |
| 2.027       | 37                    | 3.709             | 75           | 7.519             |                         |             | 6.66        | 8.61        | 9.90        | 10.70       | 11.49       | 13.09       | 14.68       | 15.16       | 16.26       | 19.43       | 22.60       | 25.76       |
| 2.029       | 35                    | 3.509             | 71           | 7.118             |                         |             | 7.18        | 9.11        | 10.40       | 11.19       | 11.99       | 13.58       | 15.17       | 15.64       | 16.75       | 19.92       | 23.08       | 26.24       |
| 2.030       | 33                    | 3.308             | 67           | 6.717             |                         | 6.06        | 7.69        | 9.61        | 10.89       | 11.69       | 12.48       | 14.07       | 15.65       | 16.13       | 17.24       | 20.40       | 23.56       | 26.72       |
| 2.032       | 31                    | 3.108             | 63           | 6.316             |                         | 6.58        | 8.19        | 10.11       | 11.39       | 12.18       | 12.97       | 14.55       | 16.14       | 16.62       | 17.72       | 20.88       | 24.04       | 27.20       |
| 2.038       | 26                    | 2.607             | 53           | 5.314             | 6.23                    | 7.84        | 9.43        | 11.34       | 12.61       | 13.40       | 14.18       | 15.77       | 17.35       | 17.82       | 18.93       | 22.08       | 25.24       | 28.39       |
| 2.045       | 22                    | 2.206             | 45           | 4.511             | 7.23                    | 8.82        | 10.41       | 12.31       | 13.58       | 14.36       | 15.15       | 16.73       | 18.31       | 18.78       | 19.89       | 23.04       | 26.19       | 29.35       |
| 2.051       | 39                    | 3.910             | 80           | 8.020             |                         |             |             | 8.00        | 9.30        | 10.11       | 10.91       | 12.51       | 14.10       | 14.58       | 15.69       | 18.86       | 22.03       | 25.19       |
| 2.069       | 29                    | 2.907             | 60           | 6.015             | 5.37                    | 6.99        | 8.60        | 10.52       | 11.79       | 12.58       | 13.37       | 14.96       | 16.54       | 17.02       | 18.12       | 21.28       | 24.44       | 27.59       |
| 2.074       | 27                    | 2.707             | 56           | 5.614             | 5.88                    | 7.50        | 9.10        | 11.01       | 12.28       | 13.07       | 13.86       | 15.44       | 17.02       | 17.50       | 18.60       | 21.76       | 24.92       | 28.07       |
| 2.083       | 36                    | 3.609             | 75           | 7.519             |                         |             | 6.72        | 8.68        | 9.97        | 10.77       | 11.56       | 13.16       | 14.75       | 15.23       | 16.34       | 19.51       | 22.67       | 25.83       |
| 2.088       | 34                    | 3.409             | 71           | 7.118             |                         |             | 7.24        | 9.18        | 10.47       | 11.26       | 12.06       | 13.65       | 15.24       | 15.72       | 16.82       | 19.99       | 23.15       | 26.31       |
| 2.090       | 67                    | 6.717             | 140          | 14.036            |                         |             |             |             |             |             |             |             |             |             |             | 11.46       | 14.74       | 17.97       |
| 2.094       | 32                    | 3.208             | 67           | 6.717             |                         | 6.13        | 7.76        | 9.69        | 10.96       | 11.76       | 12.55       | 14.14       | 15.73       | 16.20       | 17.31       | 20.47       | 23.63       | 26.79       |
| 2.100       | 30                    | 3.008             | 63           | 6.316             |                         | 6.65        | 8.26        | 10.18       | 11.46       | 12.25       | 13.04       | 14.63       | 16.21       | 16.69       | 17.80       | 20.96       | 24.12       | 27.27       |
| 2.105       | 38                    | 3.810             | 80           | 8.020             |                         |             |             | 8.07        | 9.37        | 10.18       | 10.98       | 12.58       | 14.17       | 14.65       | 15.76       | 18.94       | 22.10       | 25.27       |
| 2.113       | 53                    | 5.314             | 112          | 11.229            |                         |             |             |             |             |             |             |             | 10.20       | 10.69       | 11.83       | 15.06       | 18.26       | 21.45       |
| 2.120       | 25                    | 2.506             | 53           | 5.314             | 6.30                    | 7.91        | 9.50        | 11.41       | 12.68       | 13.47       | 14.26       | 15.84       | 17.42       | 17.90       | 19.00       | 22.16       | 25.31       | 28.47       |
| 2.143       | 28                    | 2.807             | 60           | 6.015             | 5.43                    | 7.06        | 8.67        | 10.59       | 11.86       | 12.65       | 13.45       | 15.03       | 16.61       | 17.09       | 18.20       | 21.36       | 24.51       | 27.67       |
| 2.143       | 35                    | 3.509             | 75           | 7.519             |                         |             | 6.79        | 8.75        | 10.04       | 10.84       | 11.64       | 13.23       | 14.82       | 15.30       | 16.41       | 19.58       | 22.75       | 25.91       |
| 2.143       | 42                    | 4.211             | 90           | 9.023             |                         |             |             |             | 8.15        | 8.97        | 9.78        | 11.40       | 13.00       | 13.49       | 14.60       | 17.79       | 20.96       | 24.13       |
| 2.152       | 33                    | 3.308             | 71           | 7.118             |                         |             | 7.31        | 9.25        | 10.54       | 11.34       | 12.13       | 13.72       | 15.31       | 15.79       | 16.90       | 20.07       | 23.23       | 26.39       |
| 2.154       | 26                    | 2.607             | 56           | 5.614             | 5.95                    | 7.57        | 9.17        | 11.08       | 12.35       | 13.14       | 13.93       | 15.52       | 17.10       | 17.57       | 18.68       | 21.84       | 24.99       | 28.15       |
| 2.161       | 31                    | 3.108             | 67           | 6.717             |                         | 6.19        | 7.82        | 9.76        | 11.04       | 11.83       | 12.62       | 14.21       | 15.80       | 16.28       | 17.38       | 20.55       | 23.71       | 26.87       |
| 2.162       | 37                    | 3.709             | 80           | 8.020             |                         |             |             | 8.14        | 9.44        | 10.25       | 11.05       | 12.65       | 14.24       | 14.73       | 15.84       | 19.01       | 22.18       | 25.34       |
| 2.172       | 29                    | 2.907             | 63           | 6.316             |                         | 6.71        | 8.33        | 10.25       | 11.53       | 12.32       | 13.12       | 14.70       | 16.29       | 16.76       | 17.87       | 21.03       | 24.19       | 27.35       |
| 2.182       | 22                    | 2.206             | 48           | 4.812             | 6.97                    | 8.56        | 10.15       | 12.06       | 13.32       | 14.11       | 14.90       | 16.48       | 18.06       | 18.54       | 19.64       | 22.80       | 25.95       | 29.10       |
| 2.195       | 41                    | 4.110             | 90           | 9.023             |                         |             |             | 6.88        | 8.22        | 9.03        | 9.85        | 11.47       | 13.07       | 13.56       | 14.67       | 17.86       | 21.04       | 24.21       |
| 2.206       | 34                    | 3.409             | 75           | 7.519             |                         |             | 6.86        | 8.82        | 10.11       | 10.91       | 11.71       | 13.30       | 14.90       | 15.37       | 16.48       | 19.65       | 22.82       | 25.98       |
| 2.219       | 32                    | 3.208             | 71           | 7.118             |                         | 5.73        | 7.38        | 9.32        | 10.61       | 11.41       | 12.20       | 13.80       | 15.39       | 15.86       | 16.97       | 20.14       | 23.30       | 26.46       |
| 2.222       | 27                    | 2.707             | 60           | 6.015             | 5.50                    | 7.13        | 8.74        | 10.66       | 11.93       | 12.73       | 13.52       | 15.10       | 16.69       | 17.17       | 18.27       | 21.43       | 24.59       | 27.75       |
| 2.222       | 36                    | 3.609             | 80           | 8.020             |                         |             |             | 8.21        | 9.51        | 10.31       | 11.12       | 12.72       | 14.32       | 14.80       | 15.91       | 19.08       | 22.25       | 25.42       |
| 2.222       | 63                    | 6.316             | 140          | 14.036            |                         |             |             |             |             |             |             |             |             |             |             | 11.72       | 15.01       | 18.25       |
| 2.233       | 30                    | 3.008             | 67           | 6.717             |                         | 6.26        | 7.89        | 9.83        | 11.11       | 11.90       | 12.70       | 14.29       | 15.87       | 16.35       | 17.46       | 20.62       | 23.78       | 26.94       |
| 2.240       | 25                    | 2.506             | 56           | 5.614             | 6.02                    | 7.64        | 9.24        | 11.15       | 12.43       | 13.22       | 14.01       | 15.59       | 17.17       | 17.65       | 18.75       | 21.91       | 25.07       | 28.22       |
| 2.240       | 50                    | 5.013             | 112          | 11.229            |                         |             |             |             |             |             |             | 8.73        | 10.40       | 10.89       | 12.03       | 15.27       | 18.48       | 21.67       |
| 2.250       | 28                    | 2.807             | 63           | 6.316             | 5.13                    | 6.78        | 8.40        |             |             |             |             |             |             |             |             |             |             |             |



# SELECTION

## 8M HT500 Selection Table (Continued)

| Speed Ratio | Sprocket Combinations |                   |              |                   | Center Distance, Inches |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-------------|-----------------------|-------------------|--------------|-------------------|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|             | Driver                |                   | Driven       |                   | 1792-8MX                | 2000-8MX | 2200-8MX | 2240-8MX | 2400-8MX | 2520-8MX | 2600-8MX | 2800-8MX | 2840-8MX | 3048-8MX | 3200-8MX | 3280-8MX | 3600-8MX | 4000-8MX | 4400-8MX | 4480-8MX |
|             | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|             | Length Factor*        |                   |              |                   | 1.18                    | 1.22     | 1.26     | 1.26     | 1.29     | 1.31     | 1.32     | 1.35     | 1.36     | 1.38     | 1.40     | 1.41     | 1.45     | 1.49     | 1.52     | 1.53     |
| 1.893       | 28                    | 2.807             | 53           | 5.314             | 28.87                   | 32.97    | 36.91    | 37.70    | 40.85    | 43.21    | 44.78    | 48.73    | 49.51    | 53.61    | 56.60    | 58.17    | 64.47    | 72.35    | 80.23    | 81.80    |
| 1.905       | 42                    | 4.211             | 80           | 8.020             | 25.60                   | 29.70    | 33.64    | 34.44    | 37.59    | 39.95    | 41.53    | 45.47    | 46.26    | 50.36    | 53.35    | 54.93    | 61.23    | 69.11    | 76.99    | 78.56    |
| 1.909       | 22                    | 2.206             | 42           | 4.211             | 30.22                   | 34.32    | 38.25    | 39.04    | 42.19    | 44.55    | 46.13    | 50.07    | 50.86    | 54.95    | 57.94    | 59.52    | 65.82    | 73.69    | 81.57    | 83.14    |
| 1.909       | 33                    | 3.308             | 63           | 6.316             | 27.68                   | 31.78    | 35.71    | 36.51    | 39.66    | 42.02    | 43.60    | 47.54    | 48.32    | 52.42    | 55.41    | 56.99    | 63.29    | 71.17    | 79.04    | 80.62    |
| 1.914       | 35                    | 3.509             | 67           | 6.717             | 27.20                   | 31.30    | 35.24    | 36.03    | 39.18    | 41.54    | 43.12    | 47.06    | 47.85    | 51.94    | 54.94    | 56.51    | 62.81    | 70.69    | 78.57    | 80.14    |
| 1.919       | 37                    | 3.709             | 71           | 7.118             | 26.72                   | 30.82    | 34.76    | 35.55    | 38.70    | 41.07    | 42.64    | 46.59    | 47.37    | 51.47    | 54.46    | 56.04    | 62.34    | 70.22    | 78.09    | 79.67    |
| 1.920       | 25                    | 2.506             | 48           | 4.812             | 29.50                   | 33.60    | 37.54    | 38.33    | 41.48    | 43.84    | 45.42    | 49.36    | 50.14    | 54.24    | 57.23    | 58.81    | 65.11    | 72.98    | 80.86    | 82.43    |
| 1.923       | 26                    | 2.607             | 50           | 5.013             | 29.27                   | 33.36    | 37.30    | 38.09    | 41.24    | 43.60    | 45.18    | 49.12    | 49.91    | 54.00    | 56.99    | 58.57    | 64.87    | 72.75    | 80.62    | 82.20    |
| 1.923       | 39                    | 3.910             | 75           | 7.519             | 26.24                   | 30.34    | 34.28    | 35.07    | 38.23    | 40.59    | 42.17    | 46.11    | 46.89    | 50.99    | 53.98    | 55.56    | 61.86    | 69.74    | 77.62    | 79.19    |
| 1.931       | 29                    | 2.907             | 56           | 5.614             | 28.55                   | 32.65    | 36.59    | 37.38    | 40.53    | 42.89    | 44.47    | 48.41    | 49.19    | 53.29    | 56.28    | 57.86    | 64.16    | 72.03    | 79.91    | 81.49    |
| 1.935       | 31                    | 3.108             | 60           | 6.015             | 28.07                   | 32.17    | 36.11    | 36.90    | 40.05    | 42.41    | 43.99    | 47.93    | 48.72    | 52.81    | 55.81    | 57.38    | 63.68    | 71.56    | 79.44    | 81.01    |
| 1.951       | 41                    | 4.110             | 80           | 8.020             | 25.67                   | 29.78    | 33.72    | 34.51    | 37.67    | 40.03    | 41.61    | 45.55    | 46.34    | 50.44    | 53.43    | 55.00    | 61.31    | 69.19    | 77.06    | 78.64    |
| 1.963       | 27                    | 2.707             | 53           | 5.314             | 28.95                   | 33.04    | 36.98    | 37.77    | 40.92    | 43.29    | 44.86    | 48.80    | 49.59    | 53.68    | 56.68    | 58.25    | 64.55    | 72.43    | 80.30    | 81.88    |
| 1.969       | 32                    | 3.208             | 63           | 6.316             | 27.75                   | 31.85    | 35.79    | 36.58    | 39.73    | 42.10    | 43.67    | 47.61    | 48.40    | 52.50    | 55.49    | 57.06    | 63.37    | 71.24    | 79.12    | 80.69    |
| 1.971       | 34                    | 3.409             | 67           | 6.717             | 27.27                   | 31.37    | 35.31    | 36.10    | 39.26    | 41.62    | 43.20    | 47.14    | 47.92    | 52.02    | 55.01    | 56.59    | 62.89    | 70.77    | 78.64    | 80.22    |
| 1.972       | 36                    | 3.609             | 71           | 7.118             | 26.79                   | 30.90    | 34.84    | 35.63    | 38.78    | 41.14    | 42.72    | 46.66    | 47.45    | 51.55    | 54.54    | 56.11    | 62.42    | 70.29    | 78.17    | 79.75    |
| 1.972       | 71                    | 7.118             | 140          | 14.036            | 18.33                   | 22.49    | 26.46    | 27.26    | 30.43    | 32.81    | 34.39    | 38.35    | 39.14    | 43.25    | 46.25    | 47.83    | 54.14    | 62.03    | 69.92    | 71.49    |
| 1.974       | 38                    | 3.810             | 75           | 7.519             | 26.31                   | 30.42    | 34.36    | 35.15    | 38.30    | 40.66    | 42.24    | 46.18    | 46.97    | 51.07    | 54.06    | 55.64    | 61.94    | 69.82    | 77.70    | 79.27    |
| 2.000       | 25                    | 2.506             | 50           | 5.013             | 29.34                   | 33.44    | 37.38    | 38.17    | 41.32    | 43.68    | 45.26    | 49.20    | 49.98    | 54.08    | 57.07    | 58.65    | 64.95    | 72.82    | 80.70    | 82.28    |
| 2.000       | 28                    | 2.807             | 56           | 5.614             | 28.63                   | 32.73    | 36.66    | 37.45    | 40.61    | 42.97    | 44.54    | 48.49    | 49.27    | 53.37    | 56.36    | 57.93    | 64.24    | 72.11    | 79.99    | 81.56    |
| 2.000       | 30                    | 3.008             | 60           | 6.015             | 28.15                   | 32.25    | 36.19    | 36.98    | 40.13    | 42.49    | 44.07    | 48.01    | 48.80    | 52.89    | 55.88    | 57.46    | 63.76    | 71.64    | 79.51    | 81.09    |
| 2.000       | 40                    | 4.010             | 80           | 8.020             | 25.75                   | 29.85    | 33.80    | 34.59    | 37.74    | 40.11    | 41.68    | 45.63    | 46.41    | 50.51    | 53.50    | 55.08    | 61.38    | 69.26    | 77.14    | 78.72    |
| 2.000       | 45                    | 4.511             | 90           | 9.023             | 24.54                   | 28.65    | 32.60    | 33.39    | 36.55    | 38.91    | 40.49    | 44.43    | 45.22    | 49.32    | 52.31    | 53.89    | 60.19    | 68.07    | 75.95    | 77.53    |
| 2.000       | 56                    | 5.614             | 112          | 11.229            | 21.87                   | 25.99    | 29.94    | 30.74    | 33.90    | 36.27    | 37.85    | 41.80    | 42.58    | 46.69    | 49.68    | 51.26    | 57.57    | 65.45    | 73.33    | 74.91    |
| 2.027       | 37                    | 3.709             | 75           | 7.519             | 26.39                   | 30.49    | 34.43    | 35.23    | 38.38    | 40.74    | 42.32    | 46.26    | 47.05    | 51.15    | 54.14    | 55.71    | 62.02    | 69.90    | 77.77    | 79.35    |
| 2.029       | 35                    | 3.509             | 71           | 7.118             | 26.87                   | 30.97    | 34.91    | 35.70    | 38.86    | 41.22    | 42.80    | 46.74    | 47.52    | 51.62    | 54.61    | 56.19    | 62.49    | 70.37    | 78.25    | 79.82    |
| 2.030       | 33                    | 3.308             | 67           | 6.717             | 27.35                   | 31.45    | 35.39    | 36.18    | 39.33    | 41.70    | 43.27    | 47.22    | 48.00    | 52.10    | 55.09    | 56.67    | 62.97    | 70.85    | 78.72    | 80.30    |
| 2.032       | 31                    | 3.108             | 63           | 6.316             | 27.83                   | 31.93    | 35.87    | 36.66    | 39.81    | 42.17    | 43.75    | 47.69    | 48.48    | 52.57    | 55.57    | 57.14    | 63.44    | 71.32    | 79.20    | 80.77    |
| 2.038       | 26                    | 2.607             | 53           | 5.314             | 29.02                   | 33.12    | 37.06    | 37.85    | 41.00    | 43.36    | 44.94    | 48.88    | 49.67    | 53.76    | 56.75    | 58.33    | 64.63    | 72.51    | 80.38    | 81.96    |
| 2.045       | 22                    | 2.206             | 45           | 4.511             | 29.98                   | 34.07    | 38.01    | 38.80    | 41.95    | 44.31    | 45.89    | 49.83    | 50.62    | 54.71    | 57.70    | 59.28    | 65.58    | 73.46    | 81.33    | 82.91    |
| 2.051       | 39                    | 3.910             | 80           | 8.020             | 25.82                   | 29.93    | 33.87    | 34.66    | 37.82    | 40.18    | 41.76    | 45.70    | 46.49    | 50.59    | 53.58    | 55.16    | 61.46    | 69.34    | 77.22    | 78.79    |
| 2.069       | 29                    | 2.907             | 60           | 6.015             | 28.22                   | 32.33    | 36.26    | 37.06    | 40.21    | 42.57    | 44.15    | 48.09    | 48.87    | 52.97    | 55.96    | 57.54    | 63.84    | 71.72    | 79.59    | 81.17    |
| 2.074       | 27                    | 2.707             | 56           | 5.614             | 28.70                   | 32.80    | 36.74    | 37.53    | 40.68    | 43.05    | 44.62    | 48.56    | 49.35    | 53.44    | 56.44    | 58.01    | 64.31    | 72.19    | 80.07    | 81.64    |
| 2.083       | 36                    | 3.609             | 75           | 7.519             | 26.46                   | 30.57    | 34.51    | 35.30    | 38.46    | 40.82    | 42.40    | 46.34    | 47.12    | 51.22    | 54.21    | 55.79    | 62.09    | 69.97    | 77.85    | 79.43    |
| 2.088       | 34                    | 3.409             | 71           | 7.118             | 26.94                   | 31.05    | 34.99    | 35.78    | 38.93    | 41.30    | 42.87    | 46.82    | 47.60    | 51.70    | 54.69    | 56.27    | 62.57    | 70.45    | 78.33    | 79.90    |
| 2.090       | 67                    | 6.717             | 140          | 14.036            | 18.61                   | 22.78    | 26.75    | 27.55    | 30.73    | 33.10    | 34.69    | 38.65    | 39.44    | 43.55    | 46.55    | 48.13    | 54.44    | 62.33    | 70.22    | 71.80    |
| 2.094       | 32                    | 3.208             | 67           | 6.717             | 27.42                   | 31.53    | 35.47    | 36.26    | 39.41    | 41.77    | 43.35    | 47.29    | 48.08    | 52.18    | 55.17    | 56.74    | 63.05    | 70.92    | 78.80    | 80.38    |
| 2.100       | 30                    | 3.008             | 63           | 6.316             | 27.90                   | 32.00    | 35.94    | 36.73    | 39.89    | 42.25    | 43.83    | 47.77    | 48.55    | 52.65    | 55.64    | 57.22    | 63.52    | 71.40    | 79.27    | 80.85    |
| 2.105       | 38                    | 3.810             | 80           | 8.020             | 25.90                   | 30.00    | 33.95    | 34.74    | 37.90    | 40.26    | 41.84    | 45.78    | 46.57    | 50.67    | 53.66    | 55.23    | 61.54    | 69.42    | 77.30    | 78.87    |
| 2.113       | 53                    | 5.314             | 112          | 11.229            | 22.08                   | 26.21    | 30.17    | 30.96    | 34.12    | 36.49    | 38.07    | 42.02    | 42.81    | 46.91    | 49.91    | 51.49    | 57.80    | 65.68    | 73.56    | 75.14    |
| 2.120       | 25                    | 2.506             | 53           | 5.314             | 29.10                   | 33.20    | 37.14    | 37.93    | 41.08    | 43.44    | 45.02    | 48.96    | 49.74    | 53.84    | 56.83    | 58.41    | 64.71    | 72.58    | 80.46    | 82.04    |
| 2.143       | 28                    | 2.807             | 60           | 6.015             | 28.30                   | 32.40    | 36.34    | 37.13    | 40.28    | 42.65    | 44.22    | 48.16    | 48.95    | 53.05    | 56.04    | 57.61    | 63.92    | 71.79    | 79.67    | 81.25    |
| 2.143       | 35                    | 3.509             | 75           | 7.519             | 26.54                   | 30.64    | 34.59    | 35.38    | 38.53    | 40.89    | 42.47    | 46.42    | 47.20    | 51.30    | 54.29    | 55.87    | 62.17    | 70.05    | 77.93    | 79.50    |
| 2.143       | 42                    | 4.211             | 90           | 9.023             | 24.76                   | 28.88    | 32.82    | 33.61    | 36.77    | 39.14    | 40.71    | 44.66    | 45.45    | 49.55    | 52.54    | 54.12    | 60.42    | 68.30    | 76.18    | 77.76    |
| 2.152       | 33                    | 3.308             | 71           | 7.118             | 27.02                   | 31.12    | 35.06    | 35.86    | 39.01    | 41.37    | 42.95    | 46.89    | 47.68    | 51.78    | 54.77    | 56.34    | 62.65    | 70.53    | 78.40    | 79.98    |
| 2.154       | 26                    | 2.607             | 56           | 5.614             | 28.78                   | 32.88    | 36.82    | 37.61    | 40.76    | 43.12    | 44.70    | 48.64    | 49.43    | 53.52    | 56.51    | 58.09    | 64.39    | 72.27    | 80.14    | 81.72    |
| 2.161       | 31                    | 3.108             | 67           | 6.717             | 27.50                   | 31.60    | 35.54    | 36.33    | 39.49    | 41.85    | 43.43    | 47.37    | 48.15    | 52.25    | 55.24    | 56.82    | 63.12    | 71.00    | 78.88    | 80.45    |
| 2.162       | 37                    | 3.709             | 80           | 8.020             | 25.97                   | 30.08    | 34.02    | 34.82    | 37.97    | 40.34    | 41.91    | 45.86    | 46.64    | 50.74    | 53.73    | 55.31    | 61.62    | 69.49    | 77.37    | 78.95    |
| 2.172       | 29                    | 2.907             | 63           | 6.316             | 27.98                   | 32.08    | 36.02    | 36.81    | 39.96    | 42.33    | 43.90    | 47.85    | 48.63    | 52.73    | 55.72    | 57.30    | 63.60    | 71.48    | 79.35    | 80.93    |
| 2.182       | 22                    | 2.206             | 48           | 4.812             | 29.73                   | 33.83    | 37.77    | 38.56    | 41.71    | 44.07    | 45.65    | 49.59    | 50.38    | 54.47    | 57.46    | 59.04    | 65.34    | 73.22    | 81.09    | 82.67    |
| 2.195       | 41                    | 4.110             | 90           | 9.023             | 24.84                   | 28.95    | 32.90    | 33.69    | 36.85    | 39.21    | 40.79    | 44.74    | 45.52    | 49.62    | 52.62    | 54.19    | 60.50    | 68.38    | 76.26    | 77.84    |
| 2.206       | 34                    | 3.409             | 75           | 7.519             | 26.61                   | 30.72    | 34.66    | 35.45    | 38.61    | 40.97    | 42.55    | 46.49    | 47.28    | 51.38    | 54.37    | 55.94    | 62.25    | 70.13    | 78.01    | 79.58    |
| 2.219       | 32                    | 3.208             | 71           | 7.118             | 27.09                   | 31.20    | 35.14    | 35.93    | 39.09    | 41.45    | 43.03    | 46.97    | 47.75    | 51.85    | 54.85    | 56.42    | 62.72    | 70.60    | 78.48    | 80.06    |
| 2.222       | 27                    | 2.707             | 60           | 6.015             | 28.38                   | 32.48    | 36.42    | 37.21    | 40.36    | 42.72    | 44.30    | 48.24    | 49.03    | 53.12    | 56.12    | 57.69    | 63.99    | 71.87    | 79.75    | 81.32    |
| 2.222       | 36                    | 3.609             | 80           | 8.020             | 26.05                   | 30.16    | 34.10    | 34.89    | 38.05    | 40.41    | 41.99    | 45.93    | 46.72    | 50.82    | 53.81    | 55.39    | 61.69    | 69.57    | 77.45    | 79.03    |
| 2.222       | 63                    | 6.316             | 140          | 14.036            | 18.89                   | 23.06    | 27.04    | 27.84    | 31.02    | 33.40    | 34.98    | 38.94    | 39.73    | 43.85    | 46.85    | 48.4     |          |          |          |          |

# SELECTION



## 8M HT500 Selection Table

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 640-8MX                 | 720-8MX     | 800-8MX     | 896-8MX     | 960-8MX     | 1000-8MX    | 1040-8MX    | 1120-8MX    | 1200-8MX    | 1224-8MX    | 1280-8MX    | 1440-8MX    | 1600-8MX    | 1760-8MX    |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.79</b>             | <b>0.83</b> | <b>0.87</b> | <b>0.91</b> | <b>0.94</b> | <b>0.96</b> | <b>0.97</b> | <b>1.00</b> | <b>1.03</b> | <b>1.03</b> | <b>1.05</b> | <b>1.10</b> | <b>1.14</b> | <b>1.17</b> |
| 2.400                 | 25                    | 2.506             | 60           | 6.015             | 5.63                    | 7.27        | 8.88        | 10.80       | 12.08       | 12.87       | 13.66       | 15.25       | 16.84       | 17.31       | 18.42       | 21.58       | 24.74       | 27.90       |
| 2.400                 | 75                    | 7.519             | 180          | 18.046            |                         |             |             |             |             |             |             |             |             |             |             |             |             | 13.53       |
| 2.409                 | 22                    | 2.206             | 53           | 5.314             | 6.51                    | 8.12        | 9.72        | 11.63       | 12.90       | 13.69       | 14.48       | 16.06       | 17.65       | 18.12       | 19.23       | 22.38       | 25.54       | 28.70       |
| 2.419                 | 31                    | 3.108             | 75           | 7.519             |                         |             | 7.06        | 9.02        | 10.32       | 11.12       | 11.92       | 13.52       | 15.11       | 15.59       | 16.70       | 19.88       | 23.04       | 26.21       |
| 2.423                 | 26                    | 2.607             | 63           | 6.316             | 5.26                    | 6.92        | 8.54        | 10.47       | 11.75       | 12.54       | 13.33       | 14.92       | 16.51       | 16.99       | 18.09       | 21.26       | 24.42       | 27.57       |
| 2.424                 | 33                    | 3.308             | 80           | 8.020             |                         |             | 6.42        | 8.41        | 9.72        | 10.52       | 11.33       | 12.93       | 14.53       | 15.01       | 16.13       | 19.30       | 22.47       | 25.64       |
| 2.432                 | 37                    | 3.709             | 90           | 9.023             |                         |             |             | 7.14        | 8.48        | 9.30        | 10.12       | 11.74       | 13.36       | 13.84       | 14.96       | 18.15       | 21.33       | 24.50       |
| 2.448                 | 29                    | 2.907             | 71           | 7.118             |                         | 5.92        | 7.58        | 9.53        | 10.82       | 11.62       | 12.42       | 14.01       | 15.60       | 16.08       | 17.19       | 20.36       | 23.53       | 26.69       |
| 2.481                 | 27                    | 2.707             | 67           | 6.717             |                         | 6.46        | 8.10        | 10.04       | 11.32       | 12.12       | 12.91       | 14.50       | 16.09       | 16.57       | 17.68       | 20.85       | 24.01       | 27.17       |
| 2.489                 | 45                    | 4.511             | 112          | 11.229            |                         |             |             |             |             |             |             | 9.05        | 10.73       | 11.23       | 12.37       | 15.62       | 18.83       | 22.03       |
| 2.500                 | 30                    | 3.008             | 75           | 7.519             |                         |             | 7.12        | 9.09        | 10.39       | 11.19       | 11.99       | 13.59       | 15.18       | 15.66       | 16.78       | 19.95       | 23.12       | 26.28       |
| 2.500                 | 32                    | 3.208             | 80           | 8.020             |                         |             | 6.48        | 8.48        | 9.78        | 10.59       | 11.40       | 13.00       | 14.60       | 15.08       | 16.20       | 19.38       | 22.55       | 25.71       |
| 2.500                 | 36                    | 3.609             | 90           | 9.023             |                         |             |             | 7.20        | 8.55        | 9.37        | 10.19       | 11.81       | 13.43       | 13.91       | 15.03       | 18.22       | 21.40       | 24.57       |
| 2.500                 | 56                    | 5.614             | 140          | 14.036            |                         |             |             |             |             |             |             |             |             |             |             | 12.18       | 15.49       | 18.74       |
| 2.520                 | 25                    | 2.506             | 63           | 6.316             | 5.33                    | 6.98        | 8.61        | 10.54       | 11.82       | 12.61       | 13.41       | 15.00       | 16.58       | 17.06       | 18.17       | 21.33       | 24.49       | 27.65       |
| 2.535                 | 71                    | 7.118             | 180          | 18.046            |                         |             |             |             |             |             |             |             |             |             |             |             |             | 13.78       |
| 2.536                 | 28                    | 2.807             | 71           | 7.118             |                         | 5.99        | 7.65        | 9.60        | 10.89       | 11.69       | 12.49       | 14.08       | 15.68       | 16.16       | 17.27       | 20.44       | 23.60       | 26.76       |
| 2.545                 | 22                    | 2.206             | 56           | 5.614             | 6.22                    | 7.85        | 9.45        | 11.37       | 12.64       | 13.43       | 14.23       | 15.81       | 17.39       | 17.87       | 18.98       | 22.14       | 25.30       | 28.45       |
| 2.571                 | 35                    | 3.509             | 90           | 9.023             |                         |             |             | 7.27        | 8.61        | 9.44        | 10.25       | 11.88       | 13.49       | 13.98       | 15.10       | 18.29       | 21.48       | 24.65       |
| 2.577                 | 26                    | 2.607             | 67           | 6.717             |                         | 6.53        | 8.17        | 10.11       | 11.39       | 12.19       | 12.98       | 14.58       | 16.17       | 16.64       | 17.75       | 20.92       | 24.08       | 27.24       |
| 2.581                 | 31                    | 3.108             | 80           | 8.020             |                         |             | 6.54        | 8.54        | 9.85        | 10.66       | 11.47       | 13.07       | 14.67       | 15.16       | 16.27       | 19.45       | 22.62       | 25.79       |
| 2.586                 | 29                    | 2.907             | 75           | 7.519             |                         |             | 7.19        | 9.16        | 10.46       | 11.26       | 12.06       | 13.66       | 15.26       | 15.74       | 16.85       | 20.02       | 23.19       | 26.36       |
| 2.630                 | 27                    | 2.707             | 71           | 7.118             |                         | 6.05        | 7.72        | 9.67        | 10.96       | 11.76       | 12.56       | 14.16       | 15.75       | 16.23       | 17.34       | 20.51       | 23.68       | 26.84       |
| 2.642                 | 53                    | 5.314             | 140          | 14.036            |                         |             |             |             |             |             |             |             |             |             |             | 12.37       | 15.69       | 18.94       |
| 2.647                 | 34                    | 3.409             | 90           | 9.023             |                         |             |             | 7.33        | 8.68        | 9.50        | 10.32       | 11.95       | 13.56       | 14.05       | 15.17       | 18.37       | 21.55       | 24.72       |
| 2.667                 | 30                    | 3.008             | 80           | 8.020             |                         |             | 6.61        | 8.61        | 9.92        | 10.73       | 11.54       | 13.14       | 14.75       | 15.23       | 16.34       | 19.52       | 22.70       | 25.86       |
| 2.667                 | 42                    | 4.211             | 112          | 11.229            |                         |             |             |             |             |             |             | 9.24        | 10.92       | 11.43       | 12.58       | 15.83       | 19.04       | 22.24       |
| 2.679                 | 28                    | 2.807             | 75           | 7.519             |                         |             | 7.25        | 9.23        | 10.53       | 11.33       | 12.13       | 13.73       | 15.33       | 15.81       | 16.92       | 20.10       | 23.27       | 26.43       |
| 2.680                 | 25                    | 2.506             | 67           | 6.717             |                         | 6.59        | 8.24        | 10.18       | 11.46       | 12.26       | 13.06       | 14.65       | 16.24       | 16.72       | 17.83       | 21.00       | 24.16       | 27.32       |
| 2.687                 | 67                    | 6.717             | 180          | 18.046            |                         |             |             |             |             |             |             |             |             |             |             |             |             | 14.04       |
| 2.727                 | 22                    | 2.206             | 60           | 6.015             | 5.83                    | 7.47        | 9.09        | 11.02       | 12.30       | 13.09       | 13.88       | 15.47       | 17.06       | 17.53       | 18.64       | 21.81       | 24.97       | 28.12       |
| 2.727                 | 33                    | 3.308             | 90           | 9.023             |                         |             |             | 7.40        | 8.74        | 9.57        | 10.39       | 12.02       | 13.63       | 14.12       | 15.24       | 18.44       | 21.62       | 24.80       |
| 2.731                 | 26                    | 2.607             | 71           | 7.118             |                         | 6.12        | 7.78        | 9.74        | 11.03       | 11.83       | 12.63       | 14.23       | 15.82       | 16.30       | 17.41       | 20.58       | 23.75       | 26.91       |
| 2.732                 | 41                    | 4.110             | 112          | 11.229            |                         |             |             |             |             |             |             | 9.31        | 10.99       | 11.49       | 12.64       | 15.90       | 19.12       | 22.31       |
| 2.759                 | 29                    | 2.907             | 80           | 8.020             |                         |             | 6.67        | 8.68        | 9.99        | 10.80       | 11.61       | 13.21       | 14.82       | 15.30       | 16.41       | 19.60       | 22.77       | 25.94       |
| 2.778                 | 27                    | 2.707             | 75           | 7.519             |                         | 5.62        | 7.32        | 9.30        | 10.59       | 11.40       | 12.20       | 13.80       | 15.40       | 15.88       | 16.99       | 20.17       | 23.34       | 26.50       |
| 2.800                 | 40                    | 4.010             | 112          | 11.229            |                         |             |             |             |             |             |             | 9.37        | 11.06       | 11.56       | 12.71       | 15.97       | 19.19       | 22.38       |
| 2.800                 | 50                    | 5.013             | 140          | 14.036            |                         |             |             |             |             |             |             |             |             |             |             | 12.56       | 15.89       | 19.15       |
| 2.800                 | 80                    | 8.020             | 224          | 22.457            |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |
| 2.813                 | 32                    | 3.208             | 90           | 9.023             |                         |             |             | 7.46        | 8.81        | 9.64        | 10.46       | 12.09       | 13.70       | 14.19       | 15.31       | 18.51       | 21.69       | 24.87       |
| 2.840                 | 25                    | 2.506             | 71           | 7.118             |                         | 6.18        | 7.85        | 9.81        | 11.10       | 11.90       | 12.70       | 14.30       | 15.89       | 16.37       | 17.48       | 20.66       | 23.82       | 26.99       |
| 2.857                 | 28                    | 2.807             | 80           | 8.020             |                         |             | 6.74        | 8.75        | 10.06       | 10.87       | 11.67       | 13.28       | 14.89       | 15.37       | 16.49       | 19.67       | 22.84       | 26.01       |
| 2.857                 | 63                    | 6.316             | 180          | 18.046            |                         |             |             |             |             |             |             |             |             |             |             |             |             | 14.29       |
| 2.864                 | 22                    | 2.206             | 63           | 6.316             | 5.52                    | 7.19        | 8.82        | 10.75       | 12.03       | 12.83       | 13.62       | 15.21       | 16.80       | 17.28       | 18.39       | 21.55       | 24.72       | 27.88       |
| 2.872                 | 39                    | 3.910             | 112          | 11.229            |                         |             |             |             |             |             |             | 9.44        | 11.12       | 11.62       | 12.78       | 16.04       | 19.26       | 22.46       |
| 2.885                 | 26                    | 2.607             | 75           | 7.519             |                         | 5.68        | 7.38        | 9.36        | 10.66       | 11.47       | 12.27       | 13.87       | 15.47       | 15.95       | 17.07       | 20.24       | 23.41       | 26.58       |
| 2.903                 | 31                    | 3.108             | 90           | 9.023             |                         |             |             | 7.52        | 8.87        | 9.70        | 10.52       | 12.16       | 13.77       | 14.26       | 15.38       | 18.58       | 21.77       | 24.94       |
| 2.917                 | 48                    | 4.812             | 140          | 14.036            |                         |             |             |             |             |             |             |             |             |             |             | 12.69       | 16.02       | 19.29       |
| 2.947                 | 38                    | 3.810             | 112          | 11.229            |                         |             |             |             |             |             |             | 9.50        | 11.19       | 11.69       | 12.84       | 16.10       | 19.33       | 22.53       |
| 2.963                 | 27                    | 2.707             | 80           | 8.020             |                         |             | 6.80        | 8.81        | 10.12       | 10.94       | 11.74       | 13.35       | 14.96       | 15.44       | 16.56       | 19.74       | 22.92       | 26.08       |
| 2.987                 | 75                    | 7.519             | 224          | 22.457            |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |
| 3.000                 | 25                    | 2.506             | 75           | 7.519             |                         | 5.75        | 7.45        | 9.43        | 10.73       | 11.54       | 12.34       | 13.95       | 15.54       | 16.02       | 17.14       | 20.32       | 23.49       | 26.65       |
| 3.000                 | 30                    | 3.008             | 90           | 9.023             |                         |             |             | 7.59        | 8.94        | 9.77        | 10.59       | 12.22       | 13.84       | 14.33       | 15.45       | 18.65       | 21.84       | 25.01       |
| 3.000                 | 60                    | 6.015             | 180          | 18.046            |                         |             |             |             |             |             |             |             |             |             |             |             |             | 14.48       |
| 3.027                 | 37                    | 3.709             | 112          | 11.229            |                         |             |             |             |             |             |             | 7.81        | 9.56        | 10.05       | 11.17       | 14.36       | 17.54       | 20.71       |
| 3.045                 | 22                    | 2.206             | 67           | 6.717             | 5.08                    | 6.79        | 8.44        | 10.39       | 11.67       | 12.47       | 13.27       | 14.87       | 16.46       | 16.94       | 18.05       | 21.22       | 24.38       | 27.54       |
| 3.077                 | 26                    | 2.607             | 80           | 8.020             |                         |             | 6.86        | 8.88        | 10.19       | 11.00       | 11.81       | 13.42       | 15.03       | 15.51       | 16.63       | 19.81       | 22.99       | 26.16       |
| 3.103                 | 29                    | 2.907             | 90           | 9.023             |                         |             |             | 7.65        | 9.01        | 9.84        | 10.66       | 12.29       | 13.91       | 14.40       | 15.52       | 18.72       | 21.91       | 25.09       |
| 3.111                 | 36                    | 3.609             | 112          | 11.229            |                         |             |             |             |             |             |             | 7.88        | 9.63        | 10.12       | 11.24       | 14.43       | 17.61       | 20.78       |
| 3.111                 | 45                    | 4.511             | 140          | 14.036            |                         |             |             |             |             |             |             |             |             |             |             | 12.89       | 16.22       | 19.49       |
| 3.155                 | 71                    | 7.118             | 224          | 22.457            |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |
| 3.200                 | 25                    | 2.506             | 80           | 8.020             |                         |             | 6.93        | 8.94        | 10.26       | 11.07       | 11.88       | 13.50       | 15.10       | 15.58       | 16.70       | 19.89       | 23.06       | 26.23       |
| 3.200                 | 35                    | 3.509             | 112          | 11.229            |                         |             |             |             |             |             |             | 7.94        | 9.69        | 10.18       | 11.30       | 14.49       | 17.66       | 20.83       |
| 3.214                 | 28                    | 2.807             | 90           | 9.023             |                         |             |             | 7.71        | 9.07        | 9.90        | 10.73       | 12.36       | 13.98       | 14.47       | 15.59       | 18.80       | 21.98       | 25.16       |
| 3.214                 |                       |                   |              |                   |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |





# SELECTION

## 8M HT500 Selection Table (Continued)

| Speed Ratio | Sprocket Combinations |                   |              |                   | Center Distance, Inches |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-------------|-----------------------|-------------------|--------------|-------------------|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|             | Driver                |                   | Driven       |                   | 1792-8MX                | 2000-8MX | 2200-8MX | 2240-8MX | 2400-8MX | 2520-8MX | 2600-8MX | 2800-8MX | 2840-8MX | 3048-8MX | 3200-8MX | 3280-8MX | 3600-8MX | 4000-8MX | 4400-8MX | 4480-8MX |
|             | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|             | Length Factor*        |                   |              |                   | 1.18                    | 1.22     | 1.26     | 1.26     | 1.29     | 1.31     | 1.32     | 1.35     | 1.36     | 1.38     | 1.40     | 1.41     | 1.45     | 1.49     | 1.52     | 1.53     |
| 2.400       | 25                    | 2.506             | 60           | 6.015             | 28.53                   | 32.63    | 36.57    | 37.36    | 40.51    | 42.88    | 44.45    | 48.40    | 49.18    | 53.28    | 56.27    | 57.85    | 64.15    | 72.03    | 79.90    | 81.48    |
| 2.400       | 75                    | 7.519             | 180          | 18.046            | 14.21                   | 18.54    | 22.61    | 23.42    | 26.64    | 29.05    | 30.65    | 34.64    | 35.43    | 39.57    | 42.59    | 44.17    | 50.51    | 58.42    | 66.33    | 67.91    |
| 2.409       | 22                    | 2.206             | 53           | 5.314             | 29.33                   | 33.43    | 37.37    | 38.16    | 41.31    | 43.67    | 45.25    | 49.19    | 49.97    | 54.07    | 57.06    | 58.64    | 64.94    | 72.82    | 80.69    | 82.27    |
| 2.419       | 31                    | 3.108             | 75           | 7.519             | 26.84                   | 30.94    | 34.89    | 35.68    | 38.84    | 41.20    | 42.78    | 46.72    | 47.51    | 51.61    | 54.60    | 56.18    | 62.48    | 70.36    | 78.24    | 79.81    |
| 2.423       | 26                    | 2.607             | 63           | 6.316             | 28.21                   | 32.31    | 36.25    | 37.04    | 40.19    | 42.56    | 44.13    | 48.08    | 48.86    | 52.96    | 55.95    | 57.53    | 63.83    | 71.71    | 79.59    | 81.16    |
| 2.424       | 33                    | 3.308             | 80           | 8.020             | 26.27                   | 30.38    | 34.33    | 35.12    | 38.28    | 40.64    | 42.22    | 46.16    | 46.95    | 51.05    | 54.04    | 55.62    | 61.92    | 69.80    | 77.68    | 79.26    |
| 2.432       | 37                    | 3.709             | 90           | 9.023             | 25.13                   | 29.25    | 33.20    | 33.99    | 37.15    | 39.52    | 41.09    | 45.04    | 45.83    | 49.93    | 52.92    | 54.50    | 60.81    | 68.69    | 76.57    | 78.15    |
| 2.448       | 29                    | 2.907             | 71           | 7.118             | 27.32                   | 31.43    | 35.37    | 36.16    | 39.32    | 41.68    | 43.26    | 47.20    | 47.99    | 52.08    | 55.08    | 56.66    | 62.96    | 70.84    | 78.71    | 80.29    |
| 2.481       | 27                    | 2.707             | 67           | 6.717             | 27.80                   | 31.91    | 35.85    | 36.64    | 39.79    | 42.16    | 43.73    | 47.68    | 48.46    | 52.56    | 55.55    | 57.13    | 63.43    | 71.31    | 79.19    | 80.76    |
| 2.489       | 45                    | 4.511             | 112          | 11.229            | 22.66                   | 26.80    | 30.76    | 31.55    | 34.72    | 37.09    | 38.67    | 42.63    | 43.41    | 47.52    | 50.52    | 52.09    | 58.41    | 66.29    | 74.18    | 75.75    |
| 2.500       | 30                    | 3.008             | 75           | 7.519             | 26.91                   | 31.02    | 34.96    | 35.75    | 38.91    | 41.28    | 42.85    | 46.80    | 47.58    | 51.68    | 54.68    | 56.25    | 62.56    | 70.44    | 78.31    | 79.89    |
| 2.500       | 32                    | 3.208             | 80           | 8.020             | 26.35                   | 30.46    | 34.40    | 35.19    | 38.35    | 40.72    | 42.29    | 46.24    | 47.02    | 51.12    | 54.12    | 55.69    | 62.00    | 69.88    | 77.76    | 79.34    |
| 2.500       | 36                    | 3.609             | 90           | 9.023             | 25.21                   | 29.32    | 33.27    | 34.07    | 37.23    | 39.59    | 41.17    | 45.12    | 45.90    | 50.01    | 53.00    | 54.58    | 60.88    | 68.77    | 76.65    | 78.22    |
| 2.500       | 56                    | 5.614             | 140          | 14.036            | 19.38                   | 23.56    | 27.55    | 28.35    | 31.53    | 33.91    | 35.50    | 39.46    | 40.25    | 44.37    | 47.37    | 48.95    | 55.25    | 63.17    | 71.06    | 72.63    |
| 2.520       | 25                    | 2.506             | 63           | 6.316             | 28.28                   | 32.39    | 36.33    | 37.12    | 40.27    | 42.63    | 44.21    | 48.15    | 48.94    | 53.04    | 56.03    | 57.60    | 63.91    | 71.79    | 79.66    | 81.24    |
| 2.535       | 71                    | 7.118             | 180          | 18.046            | 14.47                   | 18.81    | 22.89    | 23.70    | 26.92    | 29.33    | 30.93    | 34.93    | 35.72    | 39.86    | 42.88    | 44.47    | 50.81    | 58.72    | 66.63    | 68.21    |
| 2.536       | 28                    | 2.807             | 71           | 7.118             | 27.40                   | 31.50    | 35.44    | 36.24    | 39.39    | 41.75    | 43.33    | 47.28    | 48.06    | 52.16    | 55.15    | 56.73    | 63.03    | 70.91    | 78.79    | 80.37    |
| 2.545       | 22                    | 2.206             | 56           | 5.614             | 29.08                   | 33.18    | 37.12    | 37.91    | 41.07    | 43.43    | 45.01    | 48.95    | 49.73    | 53.83    | 56.82    | 58.40    | 64.70    | 72.58    | 80.46    | 82.03    |
| 2.571       | 35                    | 3.509             | 90           | 9.023             | 25.28                   | 29.40    | 33.35    | 34.14    | 37.30    | 39.67    | 41.25    | 45.19    | 45.98    | 50.08    | 53.08    | 54.65    | 60.96    | 68.84    | 76.72    | 78.30    |
| 2.577       | 26                    | 2.607             | 67           | 6.717             | 27.88                   | 31.98    | 35.92    | 36.71    | 39.87    | 42.23    | 43.81    | 47.75    | 48.54    | 52.64    | 55.63    | 57.21    | 63.51    | 71.39    | 79.27    | 80.84    |
| 2.581       | 31                    | 3.108             | 80           | 8.020             | 26.42                   | 30.53    | 34.48    | 35.27    | 38.43    | 40.79    | 42.37    | 46.31    | 47.10    | 51.20    | 54.19    | 55.77    | 62.08    | 69.96    | 77.84    | 79.41    |
| 2.586       | 29                    | 2.907             | 75           | 7.519             | 26.99                   | 31.10    | 35.04    | 35.83    | 38.99    | 41.35    | 42.93    | 46.87    | 47.66    | 51.76    | 54.75    | 56.33    | 62.63    | 70.51    | 78.39    | 79.97    |
| 2.630       | 27                    | 2.707             | 71           | 7.118             | 27.47                   | 31.58    | 35.52    | 36.31    | 39.47    | 41.83    | 43.41    | 47.35    | 48.14    | 52.24    | 55.23    | 56.81    | 63.11    | 70.99    | 78.87    | 80.44    |
| 2.642       | 53                    | 5.314             | 140          | 14.036            | 19.59                   | 23.77    | 27.76    | 28.56    | 31.75    | 34.13    | 35.72    | 39.68    | 40.47    | 44.59    | 47.59    | 49.17    | 55.50    | 63.39    | 71.28    | 72.86    |
| 2.647       | 34                    | 3.409             | 90           | 9.023             | 25.36                   | 29.47    | 33.42    | 34.22    | 37.38    | 39.74    | 41.32    | 45.27    | 46.06    | 50.16    | 53.15    | 54.73    | 61.04    | 68.92    | 76.80    | 78.38    |
| 2.667       | 30                    | 3.008             | 80           | 8.020             | 26.50                   | 30.61    | 34.55    | 35.34    | 38.50    | 40.87    | 42.44    | 46.39    | 47.18    | 51.28    | 54.27    | 55.85    | 62.15    | 70.03    | 77.91    | 79.49    |
| 2.667       | 42                    | 4.211             | 112          | 11.229            | 22.88                   | 27.02    | 30.98    | 31.77    | 34.94    | 37.31    | 38.90    | 42.85    | 43.64    | 47.74    | 50.74    | 52.32    | 58.63    | 66.52    | 74.41    | 75.98    |
| 2.679       | 28                    | 2.807             | 75           | 7.519             | 27.06                   | 31.17    | 35.12    | 35.91    | 39.06    | 41.43    | 43.01    | 46.95    | 47.74    | 51.84    | 54.83    | 56.41    | 62.71    | 70.59    | 78.47    | 80.05    |
| 2.680       | 25                    | 2.506             | 67           | 6.717             | 27.95                   | 32.06    | 36.00    | 36.79    | 39.95    | 42.31    | 43.89    | 47.83    | 48.62    | 52.71    | 55.71    | 57.28    | 63.59    | 71.47    | 79.34    | 80.92    |
| 2.687       | 67                    | 6.717             | 180          | 18.046            | 14.72                   | 19.07    | 23.16    | 23.97    | 27.20    | 29.61    | 31.22    | 35.21    | 36.01    | 40.15    | 43.17    | 44.76    | 51.10    | 59.02    | 66.93    | 68.51    |
| 2.727       | 22                    | 2.206             | 60           | 6.015             | 28.76                   | 32.86    | 36.80    | 37.59    | 40.74    | 43.11    | 44.68    | 48.63    | 49.41    | 53.51    | 56.50    | 58.08    | 64.38    | 72.26    | 80.14    | 81.71    |
| 2.727       | 33                    | 3.308             | 90           | 9.023             | 25.43                   | 29.55    | 33.50    | 34.29    | 37.45    | 39.82    | 41.40    | 45.35    | 46.13    | 50.23    | 53.23    | 54.81    | 61.11    | 69.00    | 76.88    | 78.45    |
| 2.731       | 26                    | 2.607             | 71           | 7.118             | 27.54                   | 31.65    | 35.60    | 36.39    | 39.54    | 41.91    | 43.48    | 47.43    | 48.21    | 52.31    | 55.31    | 56.88    | 63.19    | 71.07    | 78.94    | 80.52    |
| 2.732       | 41                    | 4.110             | 112          | 11.229            | 22.95                   | 27.09    | 31.05    | 31.85    | 35.02    | 37.39    | 38.97    | 42.93    | 43.71    | 47.82    | 50.82    | 52.40    | 58.71    | 66.60    | 74.48    | 76.06    |
| 2.759       | 29                    | 2.907             | 80           | 8.020             | 26.57                   | 30.68    | 34.63    | 35.42    | 38.58    | 40.94    | 42.52    | 46.47    | 47.25    | 51.35    | 54.35    | 55.92    | 62.23    | 70.11    | 77.99    | 79.57    |
| 2.778       | 27                    | 2.707             | 75           | 7.519             | 27.14                   | 31.25    | 35.19    | 35.98    | 39.14    | 41.50    | 43.08    | 47.03    | 47.81    | 51.91    | 54.91    | 56.48    | 62.79    | 70.67    | 78.55    | 80.12    |
| 2.800       | 40                    | 4.010             | 112          | 11.229            | 23.02                   | 27.16    | 31.13    | 31.92    | 35.09    | 37.46    | 39.04    | 43.00    | 43.79    | 47.90    | 50.89    | 52.47    | 58.79    | 66.67    | 74.56    | 76.14    |
| 2.800       | 50                    | 5.013             | 140          | 14.036            | 19.80                   | 23.98    | 27.98    | 28.78    | 31.97    | 34.35    | 35.94    | 39.90    | 40.69    | 44.81    | 47.82    | 49.40    | 55.72    | 63.62    | 71.51    | 73.09    |
| 2.800       | 80                    | 8.020             | 224          | 22.457            | 15.17                   | 19.54    | 23.64    | 24.45    | 27.69    | 30.10    | 31.71    | 35.71    | 36.51    | 40.66    | 43.68    | 45.27    | 51.62    | 59.54    | 67.45    | 69.03    |
| 2.813       | 32                    | 3.208             | 90           | 9.023             | 25.50                   | 29.62    | 33.57    | 34.37    | 37.53    | 39.89    | 41.47    | 45.42    | 46.21    | 50.31    | 53.30    | 54.88    | 61.19    | 69.07    | 76.95    | 78.53    |
| 2.840       | 25                    | 2.506             | 71           | 7.118             | 27.62                   | 31.73    | 35.67    | 36.46    | 39.62    | 41.98    | 43.56    | 47.51    | 48.29    | 52.39    | 55.38    | 56.96    | 63.26    | 71.14    | 79.02    | 80.60    |
| 2.857       | 28                    | 2.807             | 80           | 8.020             | 26.64                   | 30.76    | 34.70    | 35.50    | 38.65    | 41.02    | 42.60    | 46.54    | 47.33    | 51.43    | 54.42    | 56.00    | 62.31    | 70.19    | 78.07    | 79.64    |
| 2.857       | 63                    | 6.316             | 180          | 18.046            | 14.98                   | 19.34    | 23.43    | 24.25    | 27.48    | 29.89    | 31.50    | 35.50    | 36.30    | 40.44    | 43.46    | 45.05    | 51.40    | 59.32    | 67.23    | 68.81    |
| 2.864       | 22                    | 2.206             | 63           | 6.316             | 28.51                   | 32.61    | 36.55    | 37.35    | 40.50    | 42.86    | 44.44    | 48.38    | 49.17    | 53.27    | 56.26    | 57.84    | 64.14    | 72.02    | 79.90    | 81.47    |
| 2.872       | 39                    | 3.910             | 112          | 11.229            | 23.09                   | 27.23    | 31.20    | 32.00    | 35.16    | 37.54    | 39.12    | 43.07    | 43.86    | 47.97    | 50.97    | 52.55    | 58.86    | 66.75    | 74.64    | 76.21    |
| 2.885       | 26                    | 2.607             | 75           | 7.519             | 27.21                   | 31.32    | 35.27    | 36.06    | 39.22    | 41.58    | 43.16    | 47.10    | 47.89    | 51.99    | 54.98    | 56.56    | 62.86    | 70.74    | 78.62    | 80.20    |
| 2.903       | 31                    | 3.108             | 90           | 9.023             | 25.58                   | 29.69    | 33.65    | 34.44    | 37.60    | 39.97    | 41.55    | 45.50    | 46.28    | 50.39    | 53.38    | 54.96    | 61.27    | 69.15    | 77.03    | 78.61    |
| 2.917       | 48                    | 4.812             | 140          | 14.036            | 19.94                   | 24.12    | 28.12    | 28.92    | 32.11    | 34.49    | 36.08    | 40.05    | 40.84    | 44.96    | 47.96    | 49.55    | 55.87    | 63.77    | 71.66    | 73.24    |
| 2.947       | 38                    | 3.810             | 112          | 11.229            | 23.17                   | 27.31    | 31.27    | 32.07    | 35.24    | 37.61    | 39.19    | 43.15    | 43.94    | 48.05    | 51.04    | 52.62    | 58.94    | 66.83    | 74.71    | 76.29    |
| 2.963       | 27                    | 2.707             | 80           | 8.020             | 26.72                   | 30.83    | 34.78    | 35.57    | 38.73    | 41.09    | 42.67    | 46.62    | 47.41    | 51.51    | 54.50    | 56.08    | 62.38    | 70.26    | 78.14    | 79.72    |
| 2.987       | 75                    | 7.519             | 224          | 22.457            | 15.17                   | 19.54    | 23.64    | 24.45    | 27.69    | 30.10    | 31.71    | 35.71    | 36.51    | 40.66    | 43.68    | 45.27    | 51.62    | 59.54    | 67.45    | 69.03    |
| 3.000       | 25                    | 2.506             | 75           | 7.519             | 27.29                   | 31.40    | 35.34    | 36.13    | 39.29    | 41.66    | 43.23    | 47.18    | 47.97    | 52.07    | 55.06    | 56.64    | 62.94    | 70.82    | 78.70    | 80.28    |
| 3.000       | 30                    | 3.008             | 90           | 9.023             | 25.65                   | 29.77    | 33.72    | 34.51    | 37.68    | 40.04    | 41.62    | 45.57    | 46.36    | 50.46    | 53.46    | 55.03    | 61.34    | 69.23    | 77.11    | 78.68    |
| 3.000       | 60                    | 6.015             | 180          | 18.046            | 15.17                   | 19.54    | 23.64    | 24.45    | 27.69    | 30.10    | 31.71    | 35.71    | 36.51    | 40.66    | 43.68    | 45.27    | 51.62    | 59.54    | 67.45    | 69.03    |
| 3.027       | 37                    | 3.709             | 112          | 11.229            | 23.24                   | 27.38    | 31.35    | 32.14    | 35.31    | 37.68    | 39.27    | 43.22    | 44.01    | 48.12    | 51.12    | 52.70    | 59.01    | 66.90    | 74.79    | 76.37    |
| 3.045       | 22                    | 2.206             | 67           | 6.717             | 28.18                   | 32.28    | 36.23    | 37.02    | 40.17    | 42.54    | 44.11    | 48.06    | 48.84    |          |          |          |          |          |          |          |

# SELECTION

## 8M HT500 Selection Table

| Speed Ratio    | Sprocket Combinations |                   |              |                   | Center Distance, Inches |         |         |         |         |          |          |          |          |          |          |          |          |          |
|----------------|-----------------------|-------------------|--------------|-------------------|-------------------------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                | Driver                |                   | Driven       |                   | 640-8MX                 | 720-8MX | 800-8MX | 896-8MX | 960-8MX | 1000-8MX | 1040-8MX | 1120-8MX | 1200-8MX | 1224-8MX | 1280-8MX | 1440-8MX | 1600-8MX | 1760-8MX |
|                | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| Length Factor* |                       |                   |              |                   | 0.79                    | 0.83    | 0.87    | 0.91    | 0.94    | 0.96     | 0.97     | 1.00     | 1.03     | 1.03     | 1.05     | 1.10     | 1.14     | 1.17     |
| 3.556          | 63                    | 6.316             | 224          | 22.457            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 3.590          | 39                    | 3.910             | 140          | 14.036            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 3.600          | 25                    | 2.506             | 90           | 9.023             |                         |         |         | 7.90    | 9.27    | 10.10    | 10.93    | 12.57    | 14.19    | 14.68    | 15.80    | 19.01    | 22.20    | 25.38    |
| 3.600          | 50                    | 5.013             | 180          | 18.046            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 3.613          | 31                    | 3.108             | 112          | 11.229            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 3.636          | 22                    | 2.206             | 80           | 8.020             |                         |         | 7.12    | 9.14    | 10.46   | 11.28    | 12.09    | 13.70    | 15.31    | 15.80    | 16.91    | 20.10    | 23.28    | 26.45    |
| 3.684          | 38                    | 3.810             | 140          | 14.036            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 3.733          | 30                    | 3.008             | 112          | 11.229            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 3.733          | 60                    | 6.015             | 224          | 22.457            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 3.750          | 48                    | 4.812             | 180          | 18.046            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 3.784          | 37                    | 3.709             | 140          | 14.036            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 3.862          | 29                    | 2.907             | 112          | 11.229            |                         |         |         |         |         | 7.37     | 8.30     | 10.07    | 11.77    | 12.28    | 13.44    | 16.72    | 19.96    | 23.17    |
| 3.889          | 36                    | 3.609             | 140          | 14.036            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 4.000          | 28                    | 2.807             | 112          | 11.229            |                         |         |         |         |         | 7.43     | 8.36     | 10.13    | 11.84    | 12.35    | 13.51    | 16.79    | 20.03    | 23.24    |
| 4.000          | 35                    | 3.509             | 140          | 14.036            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 4.000          | 45                    | 4.511             | 180          | 18.046            |                         |         |         |         |         |          |          |          |          |          |          |          | 11.77    | 15.42    |
| 4.000          | 56                    | 5.614             | 224          | 22.457            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 4.091          | 22                    | 2.206             | 90           | 9.023             |                         |         | 5.92    | 8.09    | 9.46    | 10.30    | 11.12    | 12.77    | 14.40    | 14.88    | 16.01    | 19.22    | 22.42    | 25.60    |
| 4.118          | 34                    | 3.409             | 140          | 14.036            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 4.148          | 27                    | 2.707             | 112          | 11.229            |                         |         |         |         |         | 7.49     | 8.42     | 10.20    | 11.90    | 12.41    | 13.58    | 16.86    | 20.10    | 23.31    |
| 4.226          | 53                    | 5.314             | 224          | 22.457            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 4.242          | 33                    | 3.308             | 140          | 14.036            |                         |         |         |         |         |          |          |          |          |          | 10.11    | 13.66    | 17.02    | 20.31    |
| 4.286          | 42                    | 4.211             | 180          | 18.046            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 4.308          | 26                    | 2.607             | 112          | 11.229            |                         |         |         |         |         | 7.55     | 8.48     | 10.26    | 11.97    | 12.48    | 13.64    | 16.93    | 20.17    | 23.38    |
| 4.375          | 32                    | 3.208             | 140          | 14.036            |                         |         |         |         |         |          |          |          |          |          | 10.17    | 13.72    | 17.09    | 20.38    |
| 4.390          | 41                    | 4.110             | 180          | 18.046            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 4.480          | 25                    | 2.506             | 112          | 11.229            |                         |         |         |         |         | 7.61     | 8.54     | 10.32    | 12.03    | 12.54    | 13.71    | 16.99    | 20.24    | 23.45    |
| 4.480          | 50                    | 5.013             | 224          | 22.457            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 4.500          | 40                    | 4.010             | 180          | 18.046            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 4.516          | 31                    | 3.108             | 140          | 14.036            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 4.615          | 39                    | 3.910             | 180          | 18.046            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 4.667          | 30                    | 3.008             | 140          | 14.036            |                         |         |         |         |         |          |          |          |          |          | 8.95     | 10.29    | 13.85    | 17.12    |
| 4.667          | 48                    | 4.812             | 224          | 22.457            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 4.737          | 38                    | 3.810             | 180          | 18.046            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 4.828          | 29                    | 2.907             | 140          | 14.036            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 4.865          | 37                    | 3.709             | 180          | 18.046            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 4.978          | 45                    | 4.511             | 224          | 22.457            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 5.000          | 28                    | 2.807             | 140          | 14.036            |                         |         |         |         |         |          |          |          |          |          | 9.06     | 10.41    | 13.97    | 17.35    |
| 5.000          | 36                    | 3.609             | 180          | 18.046            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 5.091          | 22                    | 2.206             | 112          | 11.229            |                         |         |         |         |         | 7.78     | 8.72     | 10.51    | 12.23    | 12.74    | 13.90    | 17.20    | 20.44    | 23.66    |
| 5.143          | 35                    | 3.509             | 180          | 18.046            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 5.185          | 27                    | 2.707             | 140          | 14.036            |                         |         |         |         |         |          |          |          |          |          | 9.12     | 10.47    | 14.04    | 17.36    |
| 5.294          | 34                    | 3.409             | 180          | 18.046            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 5.333          | 42                    | 4.211             | 224          | 22.457            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 5.385          | 26                    | 2.607             | 140          | 14.036            |                         |         |         |         |         |          |          |          |          |          | 9.18     | 10.53    | 14.10    | 17.48    |
| 5.455          | 33                    | 3.308             | 180          | 18.046            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 5.463          | 41                    | 4.110             | 224          | 22.457            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 5.600          | 25                    | 2.506             | 140          | 14.036            |                         |         |         |         |         |          |          |          | 8.61     | 9.24     | 10.59    | 14.16    | 17.55    | 20.85    |
| 5.600          | 40                    | 4.010             | 224          | 22.457            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 5.625          | 32                    | 3.208             | 180          | 18.046            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 5.744          | 39                    | 3.910             | 224          | 22.457            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 5.806          | 31                    | 3.108             | 180          | 18.046            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 5.895          | 38                    | 3.810             | 224          | 22.457            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 6.000          | 30                    | 3.008             | 180          | 18.046            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 6.054          | 37                    | 3.709             | 224          | 22.457            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 6.207          | 29                    | 2.907             | 180          | 18.046            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 6.222          | 36                    | 3.609             | 224          | 22.457            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 6.364          | 22                    | 2.206             | 140          | 14.036            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 6.400          | 35                    | 3.509             | 224          | 22.457            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 6.429          | 28                    | 2.807             | 180          | 18.046            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 6.588          | 34                    | 3.409             | 224          | 22.457            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 6.667          | 27                    | 2.707             | 180          | 18.046            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 6.788          | 33                    | 3.308             | 224          | 22.457            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 6.923          | 26                    | 2.607             | 180          | 18.046            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 7.000          | 32                    | 3.208             | 224          | 22.457            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 7.200          | 25                    | 2.506             | 180          | 18.046            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 7.226          | 31                    | 3.108             | 224          | 22.457            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 7.467          | 30                    | 3.008             | 224          | 22.457            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 7.724          | 29                    | 2.907             | 224          | 22.457            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 8.000          | 28                    | 2.807             | 224          | 22.457            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 8.182          | 22                    | 2.206             | 180          | 18.046            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 8.296          | 27                    | 2.707             | 224          | 22.457            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 8.615          | 26                    | 2.607             | 224          | 22.457            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 8.960          | 25                    | 2.506             | 224          | 22.457            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| 10.182         | 22                    | 2.206             | 224          | 22.457            |                         |         |         |         |         |          |          |          |          |          |          |          |          |          |
| Length Factor* |                       |                   |              |                   | 0.79                    | 0.83    | 0.87    | 0.91    | 0.94    | 0.96     | 0.97     | 1.00     | 1.03     | 1.03     | 1.05     | 1.10     | 1.14     | 1.17     |

Center distance is greater than eight times the small sprocket and the large sprocket is not flanged. See Engineering Section for details.  
 \* The length correction factor must be used to determine the proper belt width.





# SELECTION

## 8M HT500 Selection Table (Continued)

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 1792-8MX                | 2000-8MX    | 2200-8MX    | 2240-8MX    | 2400-8MX    | 2520-8MX    | 2600-8MX    | 2800-8MX    | 2840-8MX    | 3048-8MX    | 3200-8MX    | 3280-8MX    | 3600-8MX    | 4000-8MX    | 4400-8MX    | 4480-8MX    |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>1.18</b>             | <b>1.22</b> | <b>1.26</b> | <b>1.26</b> | <b>1.29</b> | <b>1.31</b> | <b>1.32</b> | <b>1.35</b> | <b>1.36</b> | <b>1.38</b> | <b>1.40</b> | <b>1.41</b> | <b>1.45</b> | <b>1.49</b> | <b>1.52</b> | <b>1.53</b> |
| 3.556                 | 63                    | 6.316             | 224          | 22.457            | 20.55                   | 24.76       | 28.76       | 29.57       | 32.76       | 35.14       | 36.74       | 40.71       | 41.50       | 45.62       | 48.63       | 50.21       | 56.54       | 64.45       | 72.34       | 73.92       |
| 3.590                 | 39                    | 3.910             | 140          | 14.036            | 26.02                   | 30.14       | 34.09       | 34.89       | 38.05       | 40.42       | 42.00       | 45.95       | 46.74       | 50.84       | 53.84       | 55.41       | 61.72       | 69.61       | 77.49       | 79.07       |
| 3.600                 | 25                    | 2.506             | 90           | 9.023             | 18.046                  | 20.20       | 24.32       | 25.13       | 28.38       | 30.80       | 32.41       | 36.43       | 37.22       | 41.38       | 44.40       | 45.99       | 52.35       | 60.28       | 68.19       | 69.77       |
| 3.600                 | 50                    | 5.013             | 180          | 18.046            | 23.67                   | 27.81       | 31.79       | 32.58       | 35.75       | 38.13       | 39.71       | 43.67       | 44.46       | 48.57       | 51.57       | 53.15       | 59.47       | 67.36       | 75.25       | 76.82       |
| 3.613                 | 31                    | 3.108             | 112          | 11.229            | 27.09                   | 31.20       | 35.15       | 35.95       | 39.11       | 41.47       | 43.05       | 47.00       | 47.79       | 51.89       | 54.88       | 56.46       | 62.77       | 70.65       | 78.53       | 80.11       |
| 3.636                 | 22                    | 2.206             | 80           | 8.020             | 20.62                   | 24.83       | 28.83       | 29.64       | 32.83       | 35.22       | 36.81       | 40.78       | 41.57       | 45.70       | 48.71       | 50.29       | 56.62       | 64.52       | 72.42       | 74.00       |
| 3.684                 | 38                    | 3.810             | 140          | 14.036            | 23.74                   | 27.88       | 31.86       | 32.65       | 35.83       | 38.20       | 39.79       | 43.75       | 44.53       | 48.64       | 51.64       | 53.22       | 59.54       | 67.43       | 75.32       | 76.90       |
| 3.733                 | 30                    | 3.008             | 112          | 11.229            | 22.457                  | 26.57       | 30.52       | 31.32       | 34.49       | 36.86       | 38.45       | 42.41       | 43.20       | 47.31       | 50.31       | 51.89       | 58.21       | 66.10       | 73.99       | 75.57       |
| 3.733                 | 60                    | 6.015             | 224          | 22.457            | 15.93                   | 20.33       | 24.45       | 25.27       | 28.52       | 30.94       | 32.55       | 36.57       | 37.36       | 41.52       | 44.55       | 46.14       | 52.46       | 60.34       | 68.23       | 69.81       |
| 3.750                 | 48                    | 4.812             | 180          | 18.046            | 20.69                   | 24.90       | 28.91       | 29.71       | 32.90       | 35.29       | 36.88       | 40.86       | 41.65       | 45.77       | 48.78       | 50.36       | 56.69       | 64.60       | 72.49       | 74.07       |
| 3.784                 | 37                    | 3.709             | 140          | 14.036            | 23.81                   | 27.96       | 31.93       | 32.73       | 35.90       | 38.28       | 39.86       | 43.82       | 44.61       | 48.72       | 51.72       | 53.30       | 59.62       | 67.51       | 75.40       | 76.98       |
| 3.862                 | 29                    | 2.907             | 112          | 11.229            | 14.036                  | 20.76       | 24.97       | 25.78       | 28.97       | 31.36       | 32.95       | 36.93       | 37.72       | 41.83       | 44.83       | 46.41       | 52.74       | 60.63       | 68.52       | 70.10       |
| 3.889                 | 36                    | 3.609             | 140          | 14.036            | 23.88                   | 28.03       | 32.00       | 32.80       | 35.97       | 38.35       | 39.93       | 43.89       | 44.68       | 48.79       | 51.79       | 53.37       | 59.69       | 67.58       | 75.47       | 77.05       |
| 4.000                 | 28                    | 2.807             | 112          | 11.229            | 20.83                   | 25.03       | 29.05       | 29.85       | 33.03       | 35.43       | 37.03       | 41.00       | 41.79       | 45.92       | 48.93       | 50.51       | 56.84       | 64.75       | 72.64       | 74.22       |
| 4.000                 | 35                    | 3.509             | 140          | 14.036            | 16.12                   | 20.53       | 24.65       | 25.47       | 28.73       | 31.15       | 32.76       | 36.78       | 37.58       | 41.73       | 44.76       | 46.35       | 52.71       | 60.65       | 68.56       | 70.15       |
| 4.000                 | 45                    | 4.511             | 180          | 18.046            | 22.457                  | 26.57       | 30.52       | 31.32       | 34.49       | 36.86       | 38.45       | 42.41       | 43.20       | 47.31       | 50.31       | 51.89       | 58.21       | 66.10       | 73.99       | 75.57       |
| 4.000                 | 56                    | 5.614             | 224          | 22.457            | 14.87                   | 19.40       | 20.27       | 23.68       | 26.19       | 27.85       | 31.96       | 32.77       | 36.99       | 40.05       | 41.66       | 46.08       | 54.00       | 61.91       | 69.81       | 71.39       |
| 4.091                 | 22                    | 2.206             | 90           | 9.023             | 26.23                   | 30.36       | 34.32       | 35.11       | 38.27       | 40.64       | 42.22       | 46.17       | 46.96       | 51.07       | 54.06       | 55.64       | 61.95       | 69.84       | 77.72       | 79.30       |
| 4.118                 | 34                    | 3.409             | 140          | 14.036            | 20.89                   | 25.10       | 29.12       | 29.92       | 33.12       | 35.51       | 37.10       | 41.07       | 41.87       | 45.99       | 49.00       | 50.58       | 56.92       | 64.82       | 72.72       | 74.30       |
| 4.148                 | 27                    | 2.707             | 112          | 11.229            | 23.95                   | 28.10       | 32.08       | 32.87       | 36.05       | 38.42       | 40.01       | 43.97       | 44.76       | 48.87       | 51.87       | 53.45       | 59.77       | 67.66       | 75.55       | 77.13       |
| 4.226                 | 53                    | 5.314             | 224          | 22.457            | 15.04                   | 19.59       | 20.46       | 23.88       | 26.39       | 28.05       | 32.16       | 32.97       | 37.20       | 40.26       | 41.87       | 48.29       | 56.27       | 64.23       | 72.13       | 73.71       |
| 4.242                 | 33                    | 3.308             | 140          | 14.036            | 20.96                   | 25.17       | 29.19       | 29.99       | 33.19       | 35.58       | 37.17       | 41.15       | 41.94       | 46.07       | 49.07       | 50.66       | 56.99       | 64.90       | 72.80       | 74.37       |
| 4.286                 | 42                    | 4.211             | 180          | 18.046            | 16.30                   | 20.72       | 24.86       | 25.68       | 28.93       | 31.36       | 32.97       | 36.99       | 37.79       | 41.95       | 44.98       | 46.57       | 52.93       | 60.87       | 68.79       | 70.37       |
| 4.308                 | 26                    | 2.607             | 112          | 11.229            | 24.02                   | 28.17       | 32.15       | 32.95       | 36.12       | 38.50       | 40.08       | 44.04       | 44.83       | 48.94       | 51.94       | 53.52       | 59.84       | 67.74       | 75.63       | 77.20       |
| 4.375                 | 32                    | 3.208             | 140          | 14.036            | 21.03                   | 25.24       | 29.26       | 30.06       | 33.26       | 35.65       | 37.24       | 41.22       | 42.01       | 46.14       | 49.15       | 50.73       | 57.06       | 64.97       | 72.87       | 74.45       |
| 4.390                 | 41                    | 4.110             | 180          | 18.046            | 16.37                   | 20.79       | 24.92       | 25.74       | 29.00       | 31.43       | 33.04       | 37.06       | 37.86       | 42.02       | 45.05       | 46.64       | 53.01       | 60.94       | 68.86       | 70.44       |
| 4.480                 | 25                    | 2.506             | 112          | 11.229            | 24.09                   | 28.25       | 32.22       | 33.02       | 36.19       | 38.57       | 40.16       | 44.12       | 44.91       | 49.02       | 52.02       | 53.60       | 59.92       | 67.81       | 75.70       | 77.28       |
| 4.480                 | 50                    | 5.013             | 224          | 22.457            | 15.22                   | 19.77       | 20.65       | 24.07       | 26.59       | 28.25       | 32.36       | 33.18       | 37.40       | 40.47       | 42.08       | 48.50       | 56.49       | 64.45       | 72.34       | 73.92       |
| 4.500                 | 40                    | 4.010             | 180          | 18.046            | 16.43                   | 20.85       | 24.99       | 25.81       | 29.07       | 31.50       | 33.11       | 37.13       | 37.93       | 42.09       | 45.12       | 46.71       | 53.08       | 61.01       | 68.93       | 70.52       |
| 4.516                 | 31                    | 3.108             | 140          | 14.036            | 21.10                   | 25.31       | 29.33       | 30.13       | 33.33       | 35.72       | 37.31       | 41.29       | 42.08       | 46.21       | 49.22       | 50.81       | 57.14       | 65.05       | 72.95       | 74.52       |
| 4.615                 | 39                    | 3.910             | 180          | 18.046            | 16.49                   | 20.92       | 25.06       | 25.88       | 29.14       | 31.57       | 33.18       | 37.20       | 38.00       | 42.16       | 45.19       | 46.79       | 53.15       | 61.09       | 69.01       | 70.59       |
| 4.667                 | 30                    | 3.008             | 140          | 14.036            | 21.17                   | 25.38       | 29.40       | 30.20       | 33.40       | 35.79       | 37.39       | 41.37       | 42.16       | 46.28       | 49.29       | 50.88       | 57.21       | 65.12       | 73.02       | 74.60       |
| 4.667                 | 48                    | 4.812             | 224          | 22.457            | 15.34                   | 19.90       | 20.77       | 24.20       | 26.72       | 28.38       | 32.50       | 33.31       | 37.54       | 40.61       | 42.22       | 48.65       | 56.63       | 64.59       | 72.49       | 74.07       |
| 4.737                 | 38                    | 3.810             | 180          | 18.046            | 16.55                   | 20.99       | 25.12       | 25.95       | 29.21       | 31.64       | 33.25       | 37.27       | 38.07       | 42.23       | 45.26       | 46.86       | 53.22       | 61.16       | 69.08       | 70.67       |
| 4.828                 | 29                    | 2.907             | 140          | 14.036            | 21.23                   | 25.45       | 29.47       | 30.28       | 33.47       | 35.87       | 37.46       | 41.44       | 42.23       | 46.36       | 49.37       | 50.95       | 57.29       | 65.20       | 73.10       | 74.68       |
| 4.865                 | 37                    | 3.709             | 180          | 18.046            | 16.62                   | 21.05       | 25.19       | 26.01       | 29.28       | 31.70       | 33.32       | 37.34       | 38.14       | 42.30       | 45.34       | 46.93       | 53.30       | 61.23       | 69.16       | 70.74       |
| 4.978                 | 45                    | 4.511             | 224          | 22.457            | 15.51                   | 20.08       | 20.96       | 24.39       | 26.91       | 28.58       | 32.70       | 33.52       | 37.75       | 40.82       | 42.43       | 48.86       | 56.85       | 64.81       | 72.71       | 74.29       |
| 5.000                 | 28                    | 2.807             | 140          | 14.036            | 21.30                   | 25.52       | 29.54       | 30.35       | 33.55       | 35.94       | 37.53       | 41.51       | 42.30       | 46.43       | 49.44       | 51.03       | 57.36       | 65.27       | 73.17       | 74.75       |
| 5.000                 | 36                    | 3.609             | 180          | 18.046            | 16.68                   | 21.12       | 25.26       | 26.08       | 29.34       | 31.77       | 33.39       | 37.41       | 38.21       | 42.38       | 45.41       | 47.00       | 53.37       | 61.31       | 69.23       | 70.81       |
| 5.091                 | 22                    | 2.206             | 112          | 11.229            | 24.30                   | 28.46       | 32.44       | 33.24       | 36.41       | 38.79       | 40.38       | 44.34       | 45.13       | 49.24       | 52.24       | 53.82       | 60.14       | 68.04       | 75.93       | 77.51       |
| 5.143                 | 35                    | 3.509             | 180          | 18.046            | 16.74                   | 21.18       | 25.33       | 26.15       | 29.41       | 31.84       | 33.46       | 37.48       | 38.28       | 42.45       | 45.48       | 47.07       | 53.44       | 61.38       | 69.30       | 70.89       |
| 5.185                 | 27                    | 2.707             | 140          | 14.036            | 21.37                   | 25.59       | 29.61       | 30.42       | 33.62       | 36.06       | 37.60       | 41.58       | 42.38       | 46.50       | 49.52       | 51.10       | 57.44       | 65.34       | 73.25       | 74.83       |
| 5.294                 | 34                    | 3.409             | 180          | 18.046            | 16.80                   | 21.25       | 25.39       | 26.22       | 29.48       | 31.91       | 33.53       | 37.55       | 38.35       | 42.52       | 45.55       | 47.15       | 53.51       | 61.45       | 69.38       | 70.96       |
| 5.333                 | 42                    | 4.211             | 224          | 22.457            | 15.69                   | 20.27       | 21.15       | 24.59       | 27.11       | 28.78       | 32.90       | 33.72       | 37.95       | 41.03       | 42.64       | 49.07       | 57.06       | 65.03       | 72.93       | 74.51       |
| 5.385                 | 26                    | 2.607             | 140          | 14.036            | 21.44                   | 25.66       | 29.68       | 30.49       | 33.69       | 36.08       | 37.67       | 41.66       | 42.45       | 46.58       | 49.59       | 51.17       | 57.51       | 65.42       | 73.32       | 74.90       |
| 5.455                 | 33                    | 3.308             | 180          | 18.046            | 16.87                   | 21.31       | 25.46       | 26.28       | 29.55       | 31.98       | 33.60       | 37.62       | 38.42       | 42.59       | 45.62       | 47.22       | 53.59       | 61.53       | 69.45       | 71.04       |
| 5.463                 | 41                    | 4.110             | 224          | 22.457            | 15.75                   | 20.33       | 21.21       | 24.65       | 27.18       | 28.84       | 32.97       | 33.79       | 38.02       | 41.10       | 42.71       | 49.14       | 57.14       | 65.10       | 73.00       | 74.58       |
| 5.600                 | 25                    | 2.506             | 140          | 14.036            | 21.51                   | 25.73       | 29.75       | 30.56       | 33.76       | 36.15       | 37.75       | 41.73       | 42.52       | 46.65       | 49.66       | 51.25       | 57.58       | 65.49       | 73.40       | 74.98       |
| 5.600                 | 40                    | 4.010             | 224          | 22.457            | 15.81                   | 20.39       | 21.28       | 24.72       | 27.24       | 28.91       | 33.04       | 33.85       | 38.09       | 41.17       | 42.78       | 49.21       | 57.21       | 65.17       | 73.07       | 74.65       |
| 5.625                 | 32                    | 3.208             | 180          | 18.046            | 16.93                   | 21.38       | 25.53       | 26.35       | 29.62       | 32.05       | 33.67       | 37.69       | 38.49       | 42.66       | 45.69       | 47.29       | 53.66       | 61.60       | 69.53       | 71.11       |
| 5.744                 | 39                    | 3.910             | 224          | 22.457            | 15.86                   | 20.46       | 21.34       | 24.78       | 27.31       | 28.97       | 33.10       | 33.92       | 38.16       | 41.23       | 42.85       | 49.28       | 57.28       | 65.25       | 73.15       | 74.73       |
| 5.806                 | 31                    | 3.108             | 180          | 18.046            | 16.99                   | 21.44       | 25.59       | 26.42       | 29.69       | 32.12       | 33.74       | 37.76       | 38.57       | 42.73       | 45.76       | 47.36       | 53.73       | 61.67       | 69.60       | 71.18       |
| 5.895                 | 38                    | 3.810             | 224          | 22.457            | 15.92                   | 20.52       | 21.40       | 24.84       | 27.37       | 29.04       | 33.17       | 33.99       | 38.23       | 41.30       | 42.92       | 49.35       | 57.35       | 65.32       | 73.22       | 74.80       |
| 6.000                 | 30                    | 3.008             | 180          | 18.046            | 17.05                   | 21.51       | 25.66       | 26.48       | 29.75       | 32.19       | 33.80       | 37.83       | 38.64       | 42.80       | 45.84       | 47.43       | 53.80       | 61.75       | 69.67       | 71.26       |
| 6.054                 | 37                    | 3.709             | 224          | 22.457            |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |

# SELECTION



## 14M HT500 Selection Table

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 994-14MX                | 1120-14MX   | 1190-14MX   | 1260-14MX   | 1400-14MX   | 1568-14MX   | 1610-14MX   | 1750-14MX   | 1890-14MX   | 1960-14MX   | 2100-14MX   | 2240-14MX   | 2310-14MX   |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.68</b>             | <b>0.73</b> | <b>0.75</b> | <b>0.77</b> | <b>0.81</b> | <b>0.85</b> | <b>0.86</b> | <b>0.89</b> | <b>0.92</b> | <b>0.94</b> | <b>0.96</b> | <b>0.99</b> | <b>1.00</b> |
| 1.000                 | 28                    | 4.912             | 28           | 4.912             | 11.85                   | 14.33       | 15.71       | 17.09       | 19.84       | 23.15       | 23.98       | 26.73       | 29.49       | 30.87       | 33.62       | 36.38       | 37.75       |
| 1.000                 | 29                    | 5.088             | 29           | 5.088             | 11.57                   | 14.05       | 15.43       | 16.81       | 19.57       | 22.87       | 23.70       | 26.46       | 29.21       | 30.59       | 33.35       | 36.10       | 37.48       |
| 1.000                 | 30                    | 5.263             | 30           | 5.263             | 11.30                   | 13.78       | 15.16       | 16.54       | 19.29       | 22.60       | 23.43       | 26.18       | 28.94       | 30.32       | 33.07       | 35.83       | 37.20       |
| 1.000                 | 31                    | 5.439             | 31           | 5.439             | 11.02                   | 13.50       | 14.88       | 16.26       | 19.02       | 22.32       | 23.15       | 25.91       | 28.66       | 30.04       | 32.80       | 35.55       | 36.93       |
| 1.000                 | 32                    | 5.614             | 32           | 5.614             | 10.75                   | 13.23       | 14.61       | 15.99       | 18.74       | 22.05       | 22.88       | 25.63       | 28.39       | 29.77       | 32.52       | 35.28       | 36.65       |
| 1.000                 | 33                    | 5.790             | 33           | 5.790             | 10.47                   | 12.95       | 14.33       | 15.71       | 18.47       | 21.77       | 22.60       | 25.36       | 28.11       | 29.49       | 32.25       | 35.00       | 36.38       |
| 1.000                 | 34                    | 5.965             | 34           | 5.965             | 10.20                   | 12.68       | 14.06       | 15.44       | 18.19       | 21.50       | 22.33       | 25.08       | 27.84       | 29.22       | 31.97       | 34.73       | 36.10       |
| 1.000                 | 35                    | 6.141             | 35           | 6.141             | 9.92                    | 12.40       | 13.78       | 15.16       | 17.91       | 21.22       | 22.05       | 24.80       | 27.56       | 28.94       | 31.69       | 34.45       | 35.82       |
| 1.000                 | 36                    | 6.316             | 36           | 6.316             | 9.64                    | 12.12       | 13.50       | 14.88       | 17.64       | 20.94       | 21.77       | 24.53       | 27.28       | 28.66       | 31.42       | 34.17       | 35.55       |
| 1.000                 | 37                    | 6.492             | 37           | 6.492             | 9.37                    | 11.85       | 13.23       | 14.61       | 17.36       | 20.67       | 21.50       | 24.25       | 27.01       | 28.39       | 31.14       | 33.90       | 35.27       |
| 1.000                 | 38                    | 6.667             | 38           | 6.667             | 9.09                    | 11.57       | 12.95       | 14.33       | 17.09       | 20.39       | 21.22       | 23.98       | 26.73       | 28.11       | 30.87       | 33.62       | 35.00       |
| 1.000                 | 39                    | 6.842             | 39           | 6.842             | 8.82                    | 11.30       | 12.68       | 14.06       | 16.81       | 20.12       | 20.95       | 23.70       | 26.46       | 27.84       | 30.59       | 33.35       | 34.72       |
| 1.000                 | 40                    | 7.018             | 40           | 7.018             | 8.54                    | 11.02       | 12.40       | 13.78       | 16.54       | 19.84       | 20.67       | 23.43       | 26.18       | 27.56       | 30.32       | 33.07       | 34.45       |
| 1.000                 | 43                    | 7.544             | 43           | 7.544             | 10.19                   | 11.57       | 12.95       | 15.71       | 19.01       | 19.84       | 22.60       | 25.35       | 26.73       | 29.49       | 32.24       | 33.62       | 35.00       |
| 1.000                 | 45                    | 7.895             | 45           | 7.895             | 9.64                    | 11.02       | 12.40       | 15.16       | 18.46       | 19.29       | 22.05       | 24.80       | 26.18       | 28.94       | 31.69       | 33.07       | 34.45       |
| 1.000                 | 48                    | 8.421             | 48           | 8.421             |                         |             | 10.20       | 11.58       | 14.33       | 17.64       | 18.47       | 21.22       | 23.98       | 25.36       | 28.11       | 30.87       | 32.24       |
| 1.000                 | 50                    | 8.772             | 50           | 8.772             |                         |             | 9.65        | 11.03       | 13.78       | 17.09       | 17.92       | 20.67       | 23.43       | 24.81       | 27.56       | 30.32       | 31.69       |
| 1.000                 | 53                    | 9.299             | 53           | 9.299             |                         |             |             | 10.20       | 12.95       | 16.26       | 17.09       | 19.84       | 22.60       | 23.98       | 26.73       | 29.49       | 30.86       |
| 1.000                 | 56                    | 9.825             | 56           | 9.825             |                         |             |             | 12.13       | 15.43       | 16.26       | 19.02       | 21.77       | 23.15       | 25.91       | 28.66       | 30.04       | 31.41       |
| 1.000                 | 60                    | 10.527            | 60           | 10.527            |                         |             |             |             | 14.33       | 15.16       | 17.91       | 20.67       | 22.05       | 24.80       | 27.56       | 28.93       | 30.31       |
| 1.000                 | 63                    | 11.053            | 63           | 11.053            |                         |             |             |             | 13.50       | 14.33       | 17.09       | 19.84       | 21.22       | 23.98       | 26.73       | 28.11       | 29.49       |
| 1.000                 | 67                    | 11.755            | 67           | 11.755            |                         |             |             |             |             | 13.23       | 15.99       | 18.74       | 20.12       | 22.88       | 25.63       | 27.01       | 28.39       |
| 1.000                 | 71                    | 12.457            | 71           | 12.457            |                         |             |             |             |             |             | 14.88       | 17.64       | 19.02       | 21.77       | 24.53       | 25.91       | 27.29       |
| 1.000                 | 75                    | 13.158            | 75           | 13.158            |                         |             |             |             |             |             |             | 16.54       | 17.92       | 20.67       | 23.43       | 24.80       | 26.18       |
| 1.000                 | 80                    | 14.036            | 80           | 14.036            |                         |             |             |             |             |             |             | 15.16       | 16.54       | 19.29       | 22.05       | 23.42       | 24.80       |
| 1.026                 | 38                    | 6.667             | 39           | 6.842             | 8.95                    | 11.43       | 12.81       | 14.19       | 16.95       | 20.25       | 21.08       | 23.84       | 26.59       | 27.97       | 30.73       | 33.48       | 34.86       |
| 1.026                 | 39                    | 6.842             | 40           | 7.018             | 8.68                    | 11.16       | 12.54       | 13.92       | 16.67       | 19.98       | 20.81       | 23.56       | 26.32       | 27.70       | 30.45       | 33.21       | 34.58       |
| 1.027                 | 37                    | 6.492             | 38           | 6.667             | 9.23                    | 11.71       | 13.09       | 14.47       | 17.22       | 20.53       | 21.36       | 24.11       | 26.87       | 28.25       | 31.00       | 33.76       | 35.13       |
| 1.028                 | 36                    | 6.316             | 37           | 6.492             | 9.51                    | 11.99       | 13.37       | 14.75       | 17.50       | 20.81       | 21.64       | 24.39       | 27.15       | 28.53       | 31.28       | 34.04       | 35.41       |
| 1.029                 | 34                    | 5.965             | 35           | 6.141             | 10.06                   | 12.54       | 13.92       | 15.30       | 18.05       | 21.36       | 22.19       | 24.94       | 27.70       | 29.08       | 31.83       | 34.59       | 35.96       |
| 1.029                 | 35                    | 6.141             | 36           | 6.316             | 9.78                    | 12.26       | 13.64       | 15.02       | 17.78       | 21.08       | 21.91       | 24.67       | 27.42       | 28.80       | 31.56       | 34.31       | 35.69       |
| 1.030                 | 33                    | 5.790             | 34           | 5.965             | 10.33                   | 12.81       | 14.19       | 15.57       | 18.33       | 21.63       | 22.46       | 25.22       | 27.97       | 29.35       | 32.11       | 34.86       | 36.24       |
| 1.031                 | 32                    | 5.614             | 33           | 5.790             | 10.61                   | 13.09       | 14.47       | 15.85       | 18.60       | 21.91       | 22.74       | 25.49       | 28.25       | 29.63       | 32.38       | 35.14       | 36.51       |
| 1.032                 | 31                    | 5.439             | 32           | 5.614             | 10.88                   | 13.36       | 14.74       | 16.12       | 18.88       | 22.18       | 23.01       | 25.77       | 28.52       | 29.90       | 32.66       | 35.41       | 36.79       |
| 1.033                 | 30                    | 5.263             | 31           | 5.439             | 11.16                   | 13.64       | 15.02       | 16.40       | 19.15       | 22.46       | 23.29       | 26.04       | 28.80       | 30.18       | 32.93       | 35.69       | 37.06       |
| 1.034                 | 29                    | 5.088             | 30           | 5.263             | 11.44                   | 13.92       | 15.30       | 16.68       | 19.43       | 22.74       | 23.57       | 26.32       | 29.08       | 30.46       | 33.21       | 35.97       | 37.34       |
| 1.036                 | 28                    | 4.912             | 29           | 5.088             | 11.71                   | 14.19       | 15.57       | 16.95       | 19.71       | 23.01       | 23.84       | 26.60       | 29.35       | 30.73       | 33.49       | 36.24       | 37.62       |
| 1.042                 | 48                    | 8.421             | 50           | 8.772             |                         |             | 9.92        | 11.30       | 14.06       | 17.36       | 18.19       | 20.95       | 23.70       | 25.08       | 27.84       | 30.59       | 31.97       |
| 1.047                 | 43                    | 7.544             | 45           | 7.895             |                         | 9.92        | 11.30       | 12.68       | 15.43       | 18.74       | 19.57       | 22.32       | 25.08       | 26.46       | 29.21       | 31.97       | 33.34       |
| 1.050                 | 60                    | 10.527            | 63           | 11.053            |                         |             |             |             |             | 13.91       | 14.74       | 17.50       | 20.25       | 21.63       | 24.39       | 27.14       | 28.52       |
| 1.053                 | 38                    | 6.667             | 40           | 7.018             | 8.82                    | 11.30       | 12.68       | 14.06       | 16.81       | 20.12       | 20.95       | 23.70       | 26.46       | 27.84       | 30.59       | 33.35       | 34.72       |
| 1.054                 | 37                    | 6.492             | 39           | 6.842             | 9.09                    | 11.57       | 12.95       | 14.33       | 17.09       | 20.39       | 21.22       | 23.98       | 26.73       | 28.11       | 30.87       | 33.62       | 35.00       |
| 1.056                 | 36                    | 6.316             | 38           | 6.667             | 9.37                    | 11.85       | 13.23       | 14.61       | 17.36       | 20.67       | 21.50       | 24.25       | 27.01       | 28.39       | 31.14       | 33.90       | 35.27       |
| 1.056                 | 71                    | 12.457            | 75           | 13.158            |                         |             |             |             |             |             |             | 14.33       | 17.08       | 18.46       | 21.22       | 23.97       | 25.35       |
| 1.057                 | 35                    | 6.141             | 37           | 6.492             | 9.64                    | 12.12       | 13.50       | 14.88       | 17.64       | 20.94       | 21.77       | 24.53       | 27.28       | 28.66       | 31.42       | 34.17       | 35.55       |
| 1.057                 | 53                    | 9.299             | 56           | 9.825             |                         |             |             |             | 12.54       | 15.84       | 16.67       | 19.43       | 22.18       | 23.56       | 26.32       | 29.07       | 30.45       |
| 1.059                 | 34                    | 5.965             | 36           | 6.316             | 9.92                    | 12.40       | 13.78       | 15.16       | 17.91       | 21.22       | 22.05       | 24.80       | 27.56       | 28.94       | 31.69       | 34.45       | 35.82       |
| 1.060                 | 50                    | 8.772             | 53           | 9.299             |                         |             |             | 10.61       | 13.36       | 16.67       | 17.50       | 20.26       | 23.01       | 24.39       | 27.15       | 29.90       | 31.28       |
| 1.060                 | 67                    | 11.755            | 71           | 12.457            |                         |             |             |             |             |             |             | 15.43       | 18.19       | 19.57       | 22.32       | 25.08       | 26.45       |
| 1.061                 | 33                    | 5.790             | 35           | 6.141             | 10.19                   | 12.67       | 14.05       | 15.43       | 18.19       | 21.49       | 22.32       | 25.08       | 27.83       | 29.21       | 31.97       | 34.72       | 36.10       |
| 1.063                 | 32                    | 5.614             | 34           | 5.965             | 10.47                   | 12.95       | 14.33       | 15.71       | 18.47       | 21.77       | 22.60       | 25.36       | 28.11       | 29.49       | 32.25       | 35.00       | 36.38       |
| 1.063                 | 63                    | 11.053            | 67           | 11.755            |                         |             |             |             |             | 12.95       | 13.78       | 16.53       | 19.29       | 20.67       | 23.42       | 26.18       | 27.55       |
| 1.065                 | 31                    | 5.439             | 33           | 5.790             | 10.74                   | 13.22       | 14.60       | 15.98       | 18.74       | 22.05       | 22.88       | 25.63       | 28.39       | 29.77       | 32.52       | 35.28       | 36.65       |
| 1.067                 | 30                    | 5.263             | 32           | 5.614             | 11.02                   | 13.50       | 14.88       | 16.26       | 19.02       | 22.32       | 23.15       | 25.91       | 28.66       | 30.04       | 32.80       | 35.55       | 36.93       |
| 1.067                 | 45                    | 7.895             | 48           | 8.421             |                         | 9.23        | 10.61       | 11.99       | 14.74       | 18.05       | 18.88       | 21.63       | 24.39       | 25.77       | 28.52       | 31.28       | 32.65       |
| 1.067                 | 75                    | 13.158            | 80           | 14.036            |                         |             |             |             |             |             |             |             | 15.84       | 17.22       | 19.98       | 22.73       | 24.11       |
| 1.069                 | 29                    | 5.088             | 31           | 5.439             | 11.30                   | 13.78       | 15.16       | 16.54       | 19.29       | 22.60       | 23.43       | 26.18       | 28.94       | 30.32       | 33.07       | 35.83       | 37.20       |
| 1.071                 | 28                    | 4.912             | 30           | 5.263             | 11.57                   | 14.05       | 15.43       | 16.81       | 19.57       | 22.87       | 23.70       | 26.46       | 29.21       | 30.59       | 33.35       | 36.10       | 37.48       |
| 1.071                 | 56                    | 9.825             | 60           | 10.527            |                         |             |             |             | 11.57       | 14.88       | 15.71       | 18.46       | 21.22       | 22.60       | 25.35       | 28.11       | 29.48       |
| 1.075                 | 40                    | 7.018             | 43           | 7.544             | 8.12                    | 10.60       | 11.99       | 13.37       | 16.12       | 19.43       | 20.26       | 23.01       | 25.77       | 27.15       | 29.90       | 32.66       | 34.03       |
| 1.081                 | 37                    | 6.492             | 40           | 7.018             | 8.95                    | 11.43       | 12.81       | 14.19       | 16.95       | 20.25       | 21.08       | 23.84       | 26.59       | 27.97       | 30.73       | 33.48       | 34.86       |
| 1.083                 | 36                    | 6.316             | 39           | 6.842             | 9.23                    | 11.71       | 13.09       | 14.47       | 17.22       | 20.53       | 21.36       | 24.11       | 26.87       | 28.25       | 31.00       | 33.76       | 35.13       |
| 1.086                 | 35                    | 6.141             | 38           | 6.667             | 9.50                    | 11.98       | 13.36       | 14.74       | 17.50       | 20.80       | 21.63       | 24.39       | 27.14       | 28.52       | 31.28       | 34.03       | 35.41       |
| 1.088                 | 34                    | 5.965             | 37           | 6.492             | 9.78                    | 12.26       | 13.64       | 15.02       | 17.77       | 21.08       | 21.91       | 24.66       | 27.42       | 28.80       | 31.56       | 34.31       | 35.69       |
| 1.091                 | 33                    | 5.790             | 36           | 6.316             | 10.05                   | 12.53       | 13.91       | 15.29       | 18.05       | 21.36       | 22.19       | 24.94       | 27.70       | 29.08       | 31.83       | 34.59       | 35.96       |
| 1.094                 | 32                    | 5.614             | 35           | 6.141             | 10.33                   | 12.81       | 14.19       | 15.57       | 18.33       | 21.63       | 22.46       | 25.22       | 27.97       | 29.35       | 32.11       | 34.86       | 36.24       |
| 1.097                 | 31                    | 5.439             | 34           | 5.965             | 10.61                   | 13.09       | 14.47       | 15.85       | 18.60       | 21.91       | 22.74       | 25.49       | 28.25       | 29.63       | 32.38       | 35.14       | 36.51       |
| 1.100                 | 30                    | 5.263             | 33           | 5.790             | 10.88                   | 13.36       | 14.74       | 16.12       | 18.88       | 22.18       | 23.01       | 25.77       | 28.52       | 29.90       | 32.66       | 35.41       | 36.79       |
| 1.103                 | 29                    | 5.088             | 32           | 5.6               |                         |             |             |             |             |             |             |             |             |             |             |             |             |



# SELECTION

## 14M HT500 Selection Table (Continued)

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 2380-14MX               | 2450-14MX   | 2520-14MX   | 2590-14MX   | 2660-14MX   | 2800-14MX   | 3136-14MX   | 3304-14MX   | 3360-14MX   | 3500-14MX   | 3850-14MX   | 3920-14MX   | 4326-14MX   | 4410-14MX   |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>1.01</b>             | <b>1.02</b> | <b>1.03</b> | <b>1.04</b> | <b>1.05</b> | <b>1.07</b> | <b>1.12</b> | <b>1.14</b> | <b>1.14</b> | <b>1.16</b> | <b>1.19</b> | <b>1.20</b> | <b>1.24</b> | <b>1.25</b> |
| 1.000                 | 28                    | 4.912             | 28           | 4.912             | 39.13                   | 40.51       | 41.89       | 43.27       | 44.64       | 47.40       | 54.01       | 57.32       | 58.42       | 61.18       | 68.07       | 69.45       | 77.44       | 79.09       |
| 1.000                 | 29                    | 5.088             | 29           | 5.088             | 38.86                   | 40.24       | 41.61       | 42.99       | 44.37       | 47.13       | 53.74       | 57.05       | 58.15       | 60.90       | 67.79       | 69.17       | 77.16       | 78.82       |
| 1.000                 | 30                    | 5.263             | 30           | 5.263             | 38.58                   | 39.96       | 41.34       | 42.72       | 44.09       | 46.85       | 53.46       | 56.77       | 57.87       | 60.63       | 67.52       | 68.90       | 76.89       | 78.54       |
| 1.000                 | 31                    | 5.439             | 31           | 5.439             | 38.31                   | 39.69       | 41.06       | 42.44       | 43.82       | 46.58       | 53.19       | 56.50       | 57.60       | 60.35       | 67.24       | 68.62       | 76.61       | 78.27       |
| 1.000                 | 32                    | 5.614             | 32           | 5.614             | 38.03                   | 39.41       | 40.79       | 42.17       | 43.54       | 46.30       | 52.91       | 56.22       | 57.32       | 60.08       | 66.97       | 68.35       | 76.34       | 77.99       |
| 1.000                 | 33                    | 5.790             | 33           | 5.790             | 37.76                   | 39.14       | 40.51       | 41.89       | 43.27       | 46.03       | 52.64       | 55.95       | 57.05       | 59.80       | 66.69       | 68.07       | 76.06       | 77.72       |
| 1.000                 | 34                    | 5.965             | 34           | 5.965             | 37.48                   | 38.86       | 40.24       | 41.62       | 42.99       | 45.75       | 52.36       | 55.67       | 56.77       | 59.53       | 66.42       | 67.80       | 75.79       | 77.44       |
| 1.000                 | 35                    | 6.141             | 35           | 6.141             | 37.20                   | 38.58       | 39.96       | 41.34       | 42.71       | 45.47       | 52.08       | 55.39       | 56.49       | 59.25       | 66.14       | 67.52       | 75.51       | 77.16       |
| 1.000                 | 36                    | 6.316             | 36           | 6.316             | 36.93                   | 38.31       | 39.68       | 41.06       | 42.44       | 45.20       | 51.81       | 55.12       | 56.22       | 58.97       | 65.86       | 67.24       | 75.23       | 76.89       |
| 1.000                 | 37                    | 6.492             | 37           | 6.492             | 36.65                   | 38.03       | 39.41       | 40.79       | 42.16       | 44.92       | 51.53       | 54.84       | 55.94       | 58.70       | 65.59       | 66.97       | 74.96       | 76.61       |
| 1.000                 | 38                    | 6.667             | 38           | 6.667             | 36.38                   | 37.76       | 39.13       | 40.51       | 41.89       | 44.65       | 51.26       | 54.57       | 55.67       | 58.42       | 65.31       | 66.69       | 74.68       | 76.34       |
| 1.000                 | 39                    | 6.842             | 39           | 6.842             | 36.10                   | 37.48       | 38.86       | 40.24       | 41.61       | 44.37       | 50.98       | 54.29       | 55.39       | 58.15       | 65.04       | 66.42       | 74.41       | 76.06       |
| 1.000                 | 40                    | 7.018             | 40           | 7.018             | 35.83                   | 37.21       | 38.58       | 39.96       | 41.34       | 44.10       | 50.71       | 54.02       | 55.12       | 57.87       | 64.76       | 66.14       | 74.13       | 75.79       |
| 1.000                 | 43                    | 7.544             | 43           | 7.544             | 35.00                   | 36.38       | 37.75       | 39.13       | 40.51       | 43.27       | 49.88       | 53.19       | 54.29       | 57.04       | 63.93       | 65.31       | 73.30       | 74.96       |
| 1.000                 | 45                    | 7.895             | 45           | 7.895             | 34.45                   | 35.83       | 37.20       | 38.58       | 39.96       | 42.72       | 49.33       | 52.64       | 53.74       | 56.49       | 63.38       | 64.76       | 72.75       | 74.41       |
| 1.000                 | 48                    | 8.421             | 48           | 8.421             | 33.62                   | 35.00       | 36.38       | 37.76       | 39.13       | 41.89       | 48.50       | 51.81       | 52.91       | 55.67       | 62.56       | 63.94       | 71.93       | 73.58       |
| 1.000                 | 50                    | 8.772             | 50           | 8.772             | 33.07                   | 34.45       | 35.83       | 37.21       | 38.58       | 41.34       | 47.95       | 51.26       | 52.36       | 55.12       | 62.01       | 63.39       | 71.38       | 73.03       |
| 1.000                 | 53                    | 9.299             | 53           | 9.299             | 32.24                   | 33.62       | 35.00       | 36.38       | 37.75       | 40.51       | 47.12       | 50.43       | 51.53       | 54.29       | 61.18       | 62.56       | 70.55       | 72.20       |
| 1.000                 | 56                    | 9.825             | 56           | 9.825             | 31.42                   | 32.80       | 34.17       | 35.55       | 36.93       | 39.69       | 46.30       | 49.61       | 50.71       | 53.46       | 60.35       | 61.73       | 69.72       | 71.38       |
| 1.000                 | 60                    | 10.527            | 60           | 10.527            | 30.31                   | 31.69       | 33.07       | 34.45       | 35.82       | 38.58       | 45.19       | 48.50       | 49.60       | 52.36       | 59.25       | 60.63       | 68.62       | 70.27       |
| 1.000                 | 63                    | 11.053            | 63           | 11.053            | 29.49                   | 30.87       | 32.24       | 33.62       | 35.00       | 37.76       | 44.37       | 47.68       | 48.78       | 51.53       | 58.42       | 59.80       | 67.79       | 69.45       |
| 1.000                 | 67                    | 11.755            | 67           | 11.755            | 28.39                   | 29.77       | 31.14       | 32.52       | 33.90       | 36.66       | 43.27       | 46.58       | 47.68       | 50.43       | 57.32       | 58.70       | 66.69       | 68.35       |
| 1.000                 | 71                    | 12.457            | 71           | 12.457            | 27.28                   | 28.66       | 30.04       | 31.42       | 32.79       | 35.55       | 42.16       | 45.47       | 46.57       | 49.33       | 56.22       | 57.60       | 65.59       | 67.24       |
| 1.000                 | 75                    | 13.158            | 75           | 13.158            | 26.18                   | 27.56       | 28.94       | 30.32       | 31.69       | 34.45       | 41.06       | 44.37       | 45.47       | 48.23       | 55.12       | 56.50       | 64.49       | 66.14       |
| 1.000                 | 80                    | 14.036            | 80           | 14.036            | 24.80                   | 26.18       | 27.56       | 28.94       | 30.31       | 33.07       | 39.68       | 42.99       | 44.09       | 46.85       | 53.74       | 55.12       | 63.11       | 64.76       |
| 1.026                 | 38                    | 6.667             | 39           | 6.842             | 36.24                   | 37.62       | 38.99       | 40.37       | 41.75       | 44.51       | 51.12       | 54.43       | 55.53       | 58.28       | 65.17       | 66.55       | 74.55       | 76.20       |
| 1.026                 | 39                    | 6.842             | 40           | 7.018             | 35.96                   | 37.34       | 38.72       | 40.10       | 41.47       | 44.23       | 50.84       | 54.15       | 55.25       | 58.01       | 64.90       | 66.28       | 74.27       | 75.92       |
| 1.027                 | 37                    | 6.492             | 38           | 6.667             | 36.51                   | 37.89       | 39.27       | 40.65       | 42.02       | 44.78       | 51.39       | 54.70       | 55.80       | 58.56       | 65.45       | 66.83       | 74.82       | 76.47       |
| 1.028                 | 36                    | 6.316             | 37           | 6.492             | 36.79                   | 38.17       | 39.55       | 40.93       | 42.30       | 45.06       | 51.67       | 54.98       | 56.08       | 58.84       | 65.73       | 67.11       | 75.10       | 76.75       |
| 1.029                 | 34                    | 5.965             | 35           | 6.141             | 37.34                   | 38.72       | 40.10       | 41.48       | 42.85       | 45.61       | 52.22       | 55.53       | 56.63       | 59.39       | 66.28       | 67.66       | 75.65       | 77.30       |
| 1.029                 | 35                    | 6.141             | 36           | 6.316             | 37.07                   | 38.45       | 39.82       | 41.20       | 42.58       | 45.34       | 51.95       | 55.26       | 56.36       | 59.11       | 66.00       | 67.38       | 75.37       | 77.03       |
| 1.030                 | 33                    | 5.790             | 34           | 5.965             | 37.62                   | 39.00       | 40.37       | 41.75       | 43.13       | 45.89       | 52.50       | 55.81       | 56.91       | 59.66       | 66.55       | 67.93       | 75.92       | 77.58       |
| 1.031                 | 32                    | 5.614             | 33           | 5.790             | 37.89                   | 39.27       | 40.65       | 42.03       | 43.40       | 46.16       | 52.77       | 56.08       | 57.18       | 59.94       | 66.83       | 68.21       | 76.20       | 77.85       |
| 1.032                 | 31                    | 5.439             | 32           | 5.614             | 38.17                   | 39.55       | 40.92       | 42.30       | 43.68       | 46.44       | 53.05       | 56.36       | 57.46       | 60.21       | 67.10       | 68.48       | 76.47       | 78.13       |
| 1.033                 | 30                    | 5.263             | 31           | 5.439             | 38.44                   | 39.82       | 41.20       | 42.58       | 43.95       | 46.71       | 53.32       | 56.63       | 57.73       | 60.49       | 67.38       | 68.76       | 76.75       | 78.40       |
| 1.034                 | 29                    | 5.088             | 30           | 5.263             | 38.72                   | 40.10       | 41.48       | 42.86       | 44.23       | 46.99       | 53.60       | 56.91       | 58.01       | 60.77       | 67.66       | 69.04       | 77.03       | 78.68       |
| 1.036                 | 28                    | 4.912             | 29           | 5.088             | 39.00                   | 40.38       | 41.75       | 43.13       | 44.51       | 47.27       | 53.88       | 57.19       | 58.29       | 61.04       | 67.93       | 69.31       | 77.30       | 78.96       |
| 1.042                 | 48                    | 8.421             | 50           | 8.772             | 33.35                   | 34.73       | 36.10       | 37.48       | 38.86       | 41.62       | 48.23       | 51.54       | 52.64       | 55.39       | 62.28       | 63.66       | 71.65       | 73.31       |
| 1.047                 | 43                    | 7.544             | 45           | 7.895             | 34.72                   | 36.10       | 37.48       | 38.86       | 40.23       | 42.99       | 49.60       | 52.91       | 54.01       | 56.77       | 63.66       | 65.04       | 73.03       | 74.68       |
| 1.050                 | 60                    | 10.527            | 63           | 11.053            | 29.90                   | 31.28       | 32.66       | 34.04       | 35.41       | 38.17       | 44.78       | 48.09       | 49.19       | 51.95       | 58.84       | 60.22       | 68.21       | 69.86       |
| 1.053                 | 38                    | 6.667             | 40           | 7.018             | 36.10                   | 37.48       | 38.86       | 40.24       | 41.61       | 44.37       | 50.98       | 54.29       | 55.39       | 58.15       | 65.04       | 66.42       | 74.41       | 76.06       |
| 1.054                 | 37                    | 6.492             | 39           | 6.842             | 36.38                   | 37.76       | 39.13       | 40.51       | 41.89       | 44.65       | 51.26       | 54.57       | 55.67       | 58.42       | 65.31       | 66.69       | 74.68       | 76.34       |
| 1.056                 | 36                    | 6.316             | 38           | 6.667             | 36.65                   | 38.03       | 39.41       | 40.79       | 42.16       | 44.92       | 51.53       | 54.84       | 55.94       | 58.70       | 65.59       | 66.97       | 74.96       | 76.61       |
| 1.056                 | 71                    | 12.457            | 75           | 13.158            | 26.73                   | 28.11       | 29.48       | 30.87       | 32.24       | 35.00       | 41.61       | 44.92       | 46.02       | 48.78       | 55.67       | 57.05       | 65.04       | 66.69       |
| 1.057                 | 35                    | 6.141             | 37           | 6.492             | 36.93                   | 38.31       | 39.68       | 41.06       | 42.44       | 45.20       | 51.81       | 55.12       | 56.22       | 58.97       | 65.86       | 67.24       | 75.23       | 76.89       |
| 1.057                 | 53                    | 9.299             | 56           | 9.825             | 31.83                   | 33.21       | 34.58       | 35.96       | 37.34       | 40.10       | 46.71       | 50.02       | 51.12       | 53.87       | 60.76       | 62.14       | 70.13       | 71.79       |
| 1.059                 | 34                    | 5.965             | 36           | 6.316             | 37.20                   | 38.58       | 39.96       | 41.34       | 42.71       | 45.47       | 52.08       | 55.39       | 56.49       | 59.25       | 66.14       | 67.52       | 75.51       | 77.16       |
| 1.060                 | 50                    | 8.772             | 53           | 9.299             | 32.66                   | 34.04       | 35.41       | 36.79       | 38.17       | 40.93       | 47.54       | 50.85       | 51.95       | 54.70       | 61.59       | 62.97       | 70.96       | 72.62       |
| 1.060                 | 67                    | 11.755            | 71           | 12.457            | 27.83                   | 29.21       | 30.59       | 31.97       | 33.34       | 36.10       | 42.71       | 46.02       | 47.12       | 49.88       | 56.77       | 58.15       | 66.14       | 67.79       |
| 1.061                 | 33                    | 5.790             | 35           | 6.141             | 37.48                   | 38.86       | 40.23       | 41.61       | 42.99       | 45.75       | 52.36       | 55.67       | 56.77       | 59.52       | 66.41       | 67.79       | 75.78       | 77.44       |
| 1.063                 | 32                    | 5.614             | 34           | 5.965             | 37.76                   | 39.14       | 40.51       | 41.89       | 43.27       | 46.03       | 52.64       | 55.95       | 57.05       | 59.80       | 66.69       | 68.07       | 76.06       | 77.72       |
| 1.063                 | 63                    | 11.053            | 67           | 11.755            | 28.93                   | 30.31       | 31.69       | 33.07       | 34.44       | 37.20       | 43.82       | 47.13       | 48.23       | 50.98       | 57.87       | 59.25       | 67.24       | 68.90       |
| 1.065                 | 31                    | 5.439             | 33           | 5.790             | 38.03                   | 39.41       | 40.79       | 42.17       | 43.54       | 46.30       | 52.91       | 56.22       | 57.32       | 60.08       | 66.97       | 68.35       | 76.34       | 77.99       |
| 1.067                 | 30                    | 5.263             | 32           | 5.614             | 38.31                   | 39.69       | 41.06       | 42.44       | 43.82       | 46.58       | 53.19       | 56.50       | 57.60       | 60.35       | 67.24       | 68.62       | 76.61       | 78.27       |
| 1.067                 | 45                    | 7.895             | 48           | 8.421             | 34.03                   | 35.41       | 36.79       | 38.17       | 39.54       | 42.30       | 48.91       | 52.22       | 53.32       | 56.08       | 62.97       | 64.35       | 72.34       | 73.99       |
| 1.067                 | 75                    | 13.158            | 80           | 14.036            | 25.49                   |             |             |             |             |             |             |             |             |             |             |             |             |             |

## 14M HT500 Selection Table

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 994-14MX                | 1120-14MX   | 1190-14MX   | 1260-14MX   | 1400-14MX   | 1568-14MX   | 1610-14MX   | 1750-14MX   | 1890-14MX   | 1960-14MX   | 2100-14MX   | 2240-14MX   | 2310-14MX   |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.68</b>             | <b>0.73</b> | <b>0.75</b> | <b>0.77</b> | <b>0.81</b> | <b>0.85</b> | <b>0.86</b> | <b>0.89</b> | <b>0.92</b> | <b>0.94</b> | <b>0.96</b> | <b>0.99</b> | <b>1.00</b> |
| 1.107                 | 28                    | 4.912             | 31           | 5.439             | 11.43                   | 13.91       | 15.29       | 16.67       | 19.43       | 22.73       | 23.56       | 26.32       | 29.07       | 30.45       | 33.21       | 35.96       | 37.34       |
| 1.111                 | 36                    | 6.316             | 40           | 7.018             | 9.09                    | 11.57       | 12.95       | 14.33       | 17.08       | 20.39       | 21.22       | 23.97       | 26.73       | 28.11       | 30.87       | 33.62       | 35.00       |
| 1.111                 | 45                    | 7.895             | 50           | 8.772             |                         |             | 10.33       | 11.71       | 14.46       | 17.77       | 18.60       | 21.36       | 24.11       | 25.49       | 28.25       | 31.00       | 32.38       |
| 1.114                 | 35                    | 6.141             | 39           | 6.842             | 9.36                    | 11.84       | 13.22       | 14.60       | 17.36       | 20.67       | 21.50       | 24.25       | 27.01       | 28.39       | 31.14       | 33.90       | 35.27       |
| 1.116                 | 43                    | 7.544             | 48           | 8.421             |                         | 9.50        | 10.88       | 12.26       | 15.01       | 18.32       | 19.15       | 21.91       | 24.66       | 26.04       | 28.80       | 31.55       | 32.93       |
| 1.117                 | 60                    | 10.527            | 67           | 11.755            |                         |             |             |             |             | 13.35       | 14.18       | 16.94       | 19.70       | 21.08       | 23.83       | 26.59       | 27.96       |
| 1.118                 | 34                    | 5.965             | 38           | 6.667             | 9.64                    | 12.12       | 13.50       | 14.88       | 17.64       | 20.94       | 21.77       | 24.53       | 27.28       | 28.66       | 31.42       | 34.17       | 35.55       |
| 1.119                 | 67                    | 11.755            | 75           | 13.158            |                         |             |             |             |             |             |             | 14.87       | 17.62       | 19.01       | 21.76       | 24.52       | 25.89       |
| 1.120                 | 50                    | 8.772             | 56           | 9.825             |                         |             |             | 10.19       | 12.94       | 16.25       | 17.08       | 19.84       | 22.59       | 23.97       | 26.73       | 29.48       | 30.86       |
| 1.121                 | 33                    | 5.790             | 37           | 6.492             | 9.91                    | 12.39       | 13.77       | 15.15       | 17.91       | 21.22       | 22.05       | 24.80       | 27.56       | 28.94       | 31.69       | 34.45       | 35.82       |
| 1.125                 | 32                    | 5.614             | 36           | 6.316             | 10.19                   | 12.67       | 14.05       | 15.43       | 18.19       | 21.49       | 22.32       | 25.08       | 27.83       | 29.21       | 31.97       | 34.72       | 36.10       |
| 1.125                 | 40                    | 7.018             | 45           | 7.895             |                         | 10.32       | 11.70       | 13.09       | 15.84       | 19.15       | 19.98       | 22.73       | 25.49       | 26.87       | 29.62       | 32.38       | 33.75       |
| 1.125                 | 56                    | 9.825             | 63           | 11.053            |                         |             |             |             | 11.15       | 14.45       | 15.29       | 18.04       | 20.80       | 22.18       | 24.93       | 27.69       | 29.07       |
| 1.125                 | 80                    | 14.036            | 90           | 15.790            |                         |             |             |             |             |             |             |             |             |             | 17.89       | 20.65       | 22.03       |
| 1.127                 | 63                    | 11.053            | 71           | 12.457            |                         |             |             |             |             | 13.21       | 15.97       | 18.73       | 20.11       | 22.86       | 25.62       | 27.00       |             |
| 1.127                 | 71                    | 12.457            | 80           | 14.036            |                         |             |             |             |             |             |             | 16.38       | 17.76       | 20.52       | 23.27       | 24.65       |             |
| 1.129                 | 31                    | 5.439             | 35           | 6.141             | 10.46                   | 12.95       | 14.33       | 15.71       | 18.46       | 21.77       | 22.60       | 25.35       | 28.11       | 29.49       | 32.24       | 35.00       | 36.37       |
| 1.132                 | 38                    | 6.667             | 43           | 7.544             | 8.39                    | 10.87       | 12.26       | 13.64       | 16.39       | 19.70       | 20.53       | 23.28       | 26.04       | 27.42       | 30.18       | 32.93       | 34.31       |
| 1.132                 | 53                    | 9.299             | 60           | 10.527            |                         |             |             |             | 11.97       | 15.28       | 16.11       | 18.87       | 21.62       | 23.01       | 25.76       | 28.52       | 29.89       |
| 1.133                 | 30                    | 5.263             | 34           | 5.965             | 10.74                   | 13.22       | 14.60       | 15.98       | 18.74       | 22.04       | 22.87       | 25.63       | 28.38       | 29.76       | 32.52       | 35.27       | 36.65       |
| 1.138                 | 29                    | 5.088             | 33           | 5.790             | 11.02                   | 13.50       | 14.88       | 16.26       | 19.01       | 22.32       | 23.15       | 25.90       | 28.66       | 30.04       | 32.79       | 35.55       | 36.92       |
| 1.143                 | 28                    | 4.912             | 32           | 5.614             | 11.29                   | 13.77       | 15.15       | 16.53       | 19.29       | 22.60       | 23.43       | 26.18       | 28.94       | 30.32       | 33.07       | 35.83       | 37.20       |
| 1.143                 | 35                    | 6.141             | 40           | 7.018             | 9.22                    | 11.70       | 13.08       | 14.46       | 17.22       | 20.53       | 21.36       | 24.11       | 26.87       | 28.25       | 31.00       | 33.76       | 35.13       |
| 1.147                 | 34                    | 5.965             | 39           | 6.842             | 9.50                    | 11.98       | 13.36       | 14.74       | 17.50       | 20.80       | 21.63       | 24.39       | 27.14       | 28.52       | 31.28       | 34.03       | 35.41       |
| 1.152                 | 33                    | 5.790             | 38           | 6.667             | 9.77                    | 12.25       | 13.63       | 15.01       | 17.77       | 21.08       | 21.91       | 24.66       | 27.42       | 28.80       | 31.55       | 34.31       | 35.68       |
| 1.154                 | 39                    | 6.842             | 45           | 7.895             | 10.46                   | 12.95       | 14.33       | 15.71       | 18.46       | 21.77       | 22.60       | 25.35       | 28.11       | 29.49       | 32.24       | 35.00       | 36.37       |
| 1.156                 | 32                    | 5.614             | 37           | 6.492             | 10.05                   | 12.53       | 13.91       | 15.29       | 18.05       | 21.35       | 22.18       | 24.94       | 27.69       | 29.07       | 31.83       | 34.58       | 35.96       |
| 1.161                 | 31                    | 5.439             | 36           | 6.316             | 10.32                   | 12.81       | 14.19       | 15.57       | 18.32       | 21.63       | 22.46       | 25.21       | 27.97       | 29.35       | 32.10       | 34.86       | 36.23       |
| 1.162                 | 37                    | 6.492             | 43           | 7.544             | 8.52                    | 11.01       | 12.39       | 13.77       | 16.53       | 19.83       | 20.66       | 23.42       | 26.18       | 27.56       | 30.31       | 33.07       | 34.44       |
| 1.163                 | 43                    | 7.544             | 50           | 8.772             |                         | 9.21        | 10.59       | 11.97       | 14.73       | 18.04       | 18.87       | 21.63       | 24.38       | 25.76       | 28.52       | 31.27       | 32.65       |
| 1.167                 | 30                    | 5.263             | 35           | 6.141             | 10.60                   | 13.08       | 14.46       | 15.84       | 18.60       | 21.90       | 22.73       | 25.49       | 28.24       | 29.63       | 32.38       | 35.14       | 36.51       |
| 1.167                 | 48                    | 8.421             | 56           | 9.825             |                         |             |             | 10.45       | 13.21       | 16.52       | 17.35       | 20.11       | 22.86       | 24.24       | 27.00       | 29.76       | 31.13       |
| 1.172                 | 29                    | 5.088             | 34           | 5.965             | 10.88                   | 13.36       | 14.74       | 16.12       | 18.87       | 22.18       | 23.01       | 25.77       | 28.52       | 29.90       | 32.66       | 35.41       | 36.79       |
| 1.176                 | 34                    | 5.965             | 40           | 7.018             | 9.35                    | 11.84       | 13.22       | 14.60       | 17.36       | 20.66       | 21.49       | 24.25       | 27.00       | 28.38       | 31.14       | 33.89       | 35.27       |
| 1.178                 | 45                    | 7.895             | 53           | 9.299             |                         | 9.90        | 11.28       | 14.04       | 17.35       | 20.66       | 21.49       | 24.25       | 27.00       | 28.38       | 31.14       | 33.89       | 35.27       |
| 1.179                 | 28                    | 4.912             | 33           | 5.790             | 11.15                   | 13.63       | 15.01       | 16.39       | 19.15       | 22.46       | 23.29       | 26.04       | 28.80       | 30.18       | 32.93       | 35.69       | 37.06       |
| 1.182                 | 33                    | 5.790             | 39           | 6.842             | 9.63                    | 12.11       | 13.49       | 14.87       | 17.63       | 20.94       | 21.77       | 24.52       | 27.28       | 28.66       | 31.41       | 34.17       | 35.54       |
| 1.183                 | 60                    | 10.527            | 71           | 12.457            |                         |             |             |             | 12.78       | 16.11       | 16.94       | 19.69       | 22.45       | 23.83       | 26.58       | 29.34       | 30.71       |
| 1.184                 | 38                    | 6.667             | 45           | 7.895             | 8.10                    | 10.59       | 11.97       | 13.35       | 16.11       | 19.42       | 20.25       | 23.00       | 25.76       | 27.14       | 29.90       | 32.65       | 34.03       |
| 1.188                 | 32                    | 5.614             | 38           | 6.667             | 9.91                    | 12.39       | 13.77       | 15.15       | 17.91       | 21.21       | 22.04       | 24.80       | 27.56       | 28.94       | 31.69       | 34.45       | 35.82       |
| 1.189                 | 53                    | 9.299             | 63           | 11.053            |                         |             |             |             | 11.54       | 14.85       | 15.69       | 18.44       | 21.20       | 22.58       | 25.34       | 28.10       | 29.47       |
| 1.190                 | 63                    | 11.053            | 75           | 13.158            |                         |             |             |             |             |             |             | 15.40       | 18.16       | 19.54       | 22.30       | 25.06       | 26.43       |
| 1.194                 | 31                    | 5.439             | 37           | 6.492             | 10.18                   | 12.66       | 14.04       | 15.43       | 18.18       | 21.49       | 22.32       | 25.07       | 27.83       | 29.21       | 31.97       | 34.72       | 36.10       |
| 1.194                 | 36                    | 6.316             | 43           | 7.544             | 8.66                    | 11.14       | 12.52       | 13.91       | 16.66       | 19.97       | 20.80       | 23.56       | 26.31       | 27.69       | 30.45       | 33.20       | 34.58       |
| 1.194                 | 67                    | 11.755            | 80           | 14.036            |                         |             |             |             |             |             |             | 14.15       | 16.91       | 18.29       | 21.05       | 23.81       | 25.19       |
| 1.196                 | 56                    | 9.825             | 67           | 11.755            |                         |             |             |             |             | 13.88       | 14.71       | 17.47       | 20.23       | 21.61       | 24.37       | 27.13       | 28.50       |
| 1.200                 | 30                    | 5.263             | 36           | 6.316             | 10.46                   | 12.94       | 14.32       | 15.70       | 18.46       | 21.76       | 22.59       | 25.35       | 28.11       | 29.49       | 32.24       | 35.00       | 36.37       |
| 1.200                 | 40                    | 7.018             | 48           | 8.421             |                         | 9.89        | 11.28       | 12.66       | 15.42       | 18.73       | 19.56       | 22.31       | 25.07       | 26.45       | 29.21       | 31.96       | 33.34       |
| 1.200                 | 50                    | 8.772             | 60           | 10.527            |                         |             |             |             | 12.37       | 15.68       | 16.51       | 19.27       | 22.03       | 23.41       | 26.17       | 28.92       | 30.30       |
| 1.200                 | 75                    | 13.158            | 90           | 15.790            |                         |             |             |             |             |             |             |             |             | 15.79       | 18.56       | 21.32       | 22.70       |
| 1.207                 | 29                    | 5.088             | 35           | 6.141             | 10.73                   | 13.22       | 14.60       | 15.98       | 18.73       | 22.04       | 22.87       | 25.63       | 28.38       | 29.76       | 32.52       | 35.27       | 36.65       |
| 1.212                 | 33                    | 5.790             | 40           | 7.018             | 9.49                    | 11.97       | 13.35       | 14.73       | 17.49       | 20.80       | 21.63       | 24.38       | 27.14       | 28.52       | 31.27       | 34.03       | 35.41       |
| 1.214                 | 28                    | 4.912             | 34           | 5.965             | 11.01                   | 13.49       | 14.87       | 16.25       | 19.01       | 22.32       | 23.15       | 25.90       | 28.66       | 30.04       | 32.79       | 35.55       | 36.92       |
| 1.216                 | 37                    | 6.492             | 45           | 7.895             | 8.24                    | 10.72       | 12.11       | 13.49       | 16.25       | 19.55       | 20.38       | 23.14       | 25.90       | 27.28       | 30.03       | 32.79       | 34.16       |
| 1.219                 | 32                    | 5.614             | 39           | 6.842             | 9.76                    | 12.25       | 13.63       | 15.01       | 17.77       | 21.07       | 21.90       | 24.66       | 27.42       | 28.80       | 31.55       | 34.31       | 35.68       |
| 1.226                 | 31                    | 5.439             | 38           | 6.667             | 10.04                   | 12.52       | 13.90       | 15.28       | 18.04       | 21.35       | 22.18       | 24.93       | 27.69       | 29.07       | 31.83       | 34.58       | 35.96       |
| 1.229                 | 35                    | 6.141             | 43           | 7.544             | 8.79                    | 11.28       | 12.66       | 14.04       | 16.80       | 20.10       | 20.94       | 23.69       | 26.45       | 27.83       | 30.58       | 33.34       | 34.71       |
| 1.231                 | 39                    | 6.842             | 48           | 8.421             |                         | 10.03       | 11.41       | 12.79       | 15.55       | 18.86       | 19.69       | 22.45       | 25.21       | 26.59       | 29.34       | 32.10       | 33.47       |
| 1.233                 | 30                    | 5.263             | 37           | 6.492             | 10.31                   | 12.80       | 14.18       | 15.56       | 18.32       | 21.62       | 22.45       | 25.21       | 27.97       | 29.35       | 32.10       | 34.86       | 36.23       |
| 1.233                 | 43                    | 7.544             | 53           | 9.299             |                         | 10.16       | 11.54       | 14.30       | 17.61       | 20.92       | 21.75       | 24.50       | 27.26       | 28.64       | 31.39       | 34.15       | 35.52       |
| 1.241                 | 29                    | 5.088             | 36           | 6.316             | 10.59                   | 13.07       | 14.46       | 15.84       | 18.59       | 21.90       | 22.73       | 25.49       | 28.24       | 29.62       | 32.38       | 35.13       | 36.51       |
| 1.244                 | 45                    | 7.895             | 56           | 9.825             |                         |             |             | 10.84       | 13.61       | 16.92       | 17.75       | 20.51       | 23.27       | 24.65       | 27.41       | 30.16       | 31.54       |
| 1.250                 | 28                    | 4.912             | 35           | 6.141             | 10.87                   | 13.35       | 14.73       | 16.11       | 18.87       | 22.18       | 23.01       | 25.76       | 28.52       | 29.90       | 32.65       | 35.41       | 36.78       |
| 1.250                 | 32                    | 5.614             | 40           | 7.018             | 9.62                    | 12.10       | 13.49       | 14.87       | 17.62       | 20.93       | 21.76       | 24.52       | 27.27       | 28.66       | 31.41       | 34.17       | 35.54       |
| 1.250                 | 36                    | 6.316             | 45           | 7.895             | 8.37                    | 10.85       | 12.24       | 13.62       | 16.38       | 19.69       | 20.52       | 23.28       | 26.03       | 27.41       | 30.17       | 32.92       | 34.30       |
| 1.250                 | 40                    | 7.018             | 50           | 8.772             |                         | 9.60        | 10.99       | 12.37       | 15.13       | 18.44       | 19.27       | 22.03       | 24.79       | 26.17       | 28.93       | 31.68       | 33.06       |
| 1.250                 | 48                    | 8.421             | 60           | 10.527            |                         |             |             | 12.63       | 15.95       | 19.26       | 20.09       | 22.84       | 25.59       | 28.34       | 31.09       | 33.84       | 35.21       |
| 1.250                 | 60                    | 10.527            | 75           | 13.158            |                         |             |             |             | 13.03       | 16.34       | 17.17       | 19.92       | 22.67       | 25.42       | 28.17       | 30.92       | 32.27       |
| 1.258                 | 31                    | 5.439             | 39           | 6.842             | 9.89                    | 12.38       | 13.76       | 15.14       | 17.90       | 21.21       | 22.04       | 24.79       | 27.55       | 28.93       | 31.69       |             |             |





# SELECTION

## 14M HT500 Selection Table (Continued)

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 2380-14MX               | 2450-14MX   | 2520-14MX   | 2590-14MX   | 2660-14MX   | 2800-14MX   | 3136-14MX   | 3304-14MX   | 3360-14MX   | 3500-14MX   | 3850-14MX   | 3920-14MX   | 4326-14MX   | 4410-14MX   |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>1.01</b>             | <b>1.02</b> | <b>1.03</b> | <b>1.04</b> | <b>1.05</b> | <b>1.07</b> | <b>1.12</b> | <b>1.14</b> | <b>1.14</b> | <b>1.16</b> | <b>1.19</b> | <b>1.20</b> | <b>1.24</b> | <b>1.25</b> |
| 1.107                 | 28                    | 4.912             | 31           | 5.439             | 38.72                   | 40.10       | 41.47       | 42.85       | 44.23       | 46.99       | 53.60       | 56.91       | 58.01       | 60.76       | 67.65       | 69.03       | 77.02       | 78.68       |
| 1.111                 | 36                    | 6.316             | 40           | 7.018             | 36.38                   | 37.76       | 39.13       | 40.51       | 41.89       | 44.65       | 51.26       | 54.57       | 55.67       | 58.42       | 65.31       | 66.69       | 74.68       | 76.34       |
| 1.111                 | 45                    | 7.895             | 50           | 8.772             | 33.76                   | 35.14       | 36.51       | 37.89       | 39.27       | 42.03       | 48.64       | 51.95       | 53.05       | 55.80       | 62.69       | 64.07       | 72.06       | 73.72       |
| 1.114                 | 35                    | 6.141             | 39           | 6.842             | 36.65                   | 38.03       | 39.41       | 40.79       | 42.16       | 44.92       | 51.53       | 54.84       | 55.94       | 58.70       | 65.59       | 66.97       | 74.96       | 76.61       |
| 1.116                 | 43                    | 7.544             | 48           | 8.421             | 34.31                   | 35.69       | 37.06       | 38.44       | 39.82       | 42.58       | 49.19       | 52.50       | 53.60       | 56.35       | 63.24       | 64.62       | 72.61       | 74.27       |
| 1.117                 | 60                    | 10.527            | 67           | 11.755            | 29.34                   | 30.72       | 32.10       | 33.48       | 34.85       | 37.61       | 44.23       | 47.54       | 48.64       | 51.39       | 58.28       | 59.66       | 67.65       | 69.31       |
| 1.118                 | 34                    | 5.965             | 38           | 6.667             | 36.93                   | 38.31       | 39.68       | 41.06       | 42.44       | 45.20       | 51.81       | 55.12       | 56.22       | 58.97       | 65.86       | 67.24       | 75.23       | 76.89       |
| 1.119                 | 67                    | 11.755            | 75           | 13.158            | 27.27                   | 28.65       | 30.03       | 31.41       | 32.79       | 35.55       | 42.16       | 45.47       | 46.57       | 49.32       | 56.21       | 57.59       | 65.58       | 67.24       |
| 1.120                 | 50                    | 8.772             | 56           | 9.825             | 32.24                   | 33.62       | 34.99       | 36.38       | 37.75       | 40.51       | 47.12       | 50.43       | 51.53       | 54.29       | 61.18       | 62.56       | 70.55       | 72.20       |
| 1.121                 | 33                    | 5.790             | 37           | 6.492             | 37.20                   | 38.58       | 39.96       | 41.34       | 42.71       | 45.47       | 52.08       | 55.39       | 56.49       | 59.25       | 66.14       | 67.52       | 75.51       | 77.16       |
| 1.125                 | 32                    | 5.614             | 36           | 6.316             | 37.48                   | 38.86       | 40.23       | 41.61       | 42.99       | 45.75       | 52.36       | 55.67       | 56.77       | 59.52       | 66.41       | 67.79       | 75.78       | 77.44       |
| 1.125                 | 40                    | 7.018             | 45           | 7.895             | 35.13                   | 36.51       | 37.89       | 39.27       | 40.64       | 43.41       | 50.02       | 53.33       | 54.43       | 57.18       | 64.07       | 65.45       | 73.44       | 75.10       |
| 1.125                 | 56                    | 9.825             | 63           | 11.053            | 30.45                   | 31.83       | 33.20       | 34.58       | 35.96       | 38.72       | 45.33       | 48.64       | 49.74       | 52.49       | 59.38       | 60.76       | 68.75       | 70.41       |
| 1.125                 | 80                    | 14.036            | 90           | 15.790            | 23.41                   | 24.79       | 26.17       | 27.55       | 28.92       | 31.68       | 38.29       | 41.61       | 42.71       | 45.46       | 52.35       | 53.73       | 61.72       | 63.38       |
| 1.127                 | 63                    | 11.053            | 71           | 12.457            | 28.38                   | 29.76       | 31.13       | 32.51       | 33.89       | 36.65       | 43.26       | 46.57       | 47.67       | 50.43       | 57.32       | 58.70       | 66.69       | 68.34       |
| 1.127                 | 71                    | 12.457            | 80           | 14.036            | 26.03                   | 27.41       | 28.79       | 30.17       | 31.54       | 34.30       | 40.91       | 44.23       | 45.33       | 48.08       | 54.97       | 56.35       | 64.34       | 66.00       |
| 1.129                 | 31                    | 5.439             | 35           | 6.141             | 37.75                   | 39.13       | 40.51       | 41.89       | 43.26       | 46.02       | 52.63       | 55.94       | 57.04       | 59.80       | 66.69       | 68.07       | 76.06       | 77.71       |
| 1.132                 | 38                    | 6.667             | 43           | 7.544             | 35.49                   | 36.87       | 38.24       | 39.62       | 41.00       | 43.76       | 50.37       | 53.68       | 54.78       | 57.53       | 64.42       | 65.80       | 73.79       | 75.45       |
| 1.132                 | 53                    | 9.299             | 60           | 10.527            | 31.27                   | 32.65       | 34.03       | 35.41       | 36.78       | 39.54       | 46.15       | 49.46       | 50.56       | 53.32       | 60.21       | 61.59       | 69.58       | 71.24       |
| 1.133                 | 30                    | 5.263             | 34           | 5.965             | 38.03                   | 39.41       | 40.79       | 42.17       | 43.54       | 46.30       | 52.91       | 56.22       | 57.32       | 60.08       | 66.97       | 68.35       | 76.34       | 77.99       |
| 1.138                 | 29                    | 5.088             | 33           | 5.790             | 38.30                   | 39.68       | 41.06       | 42.44       | 43.82       | 46.58       | 53.19       | 56.50       | 57.60       | 60.35       | 67.24       | 68.62       | 76.61       | 78.27       |
| 1.143                 | 28                    | 4.912             | 32           | 5.614             | 38.58                   | 39.96       | 41.34       | 42.72       | 44.09       | 46.85       | 53.46       | 56.77       | 57.87       | 60.63       | 67.52       | 68.90       | 76.89       | 78.54       |
| 1.143                 | 35                    | 6.141             | 40           | 7.018             | 36.51                   | 37.89       | 39.27       | 40.65       | 42.02       | 44.78       | 51.39       | 54.70       | 55.80       | 58.56       | 65.45       | 66.83       | 74.82       | 76.47       |
| 1.147                 | 34                    | 5.965             | 39           | 6.842             | 36.79                   | 38.17       | 39.54       | 40.92       | 42.30       | 45.06       | 51.67       | 54.98       | 56.08       | 58.83       | 65.72       | 67.10       | 75.10       | 76.75       |
| 1.152                 | 33                    | 5.790             | 38           | 6.667             | 37.06                   | 38.44       | 39.82       | 41.20       | 42.57       | 45.33       | 51.94       | 55.25       | 56.35       | 59.11       | 66.00       | 67.38       | 75.37       | 77.03       |
| 1.154                 | 39                    | 6.842             | 45           | 7.895             | 35.27                   | 36.65       | 38.03       | 39.41       | 40.78       | 43.54       | 50.15       | 53.46       | 54.56       | 57.32       | 64.21       | 65.59       | 73.58       | 75.23       |
| 1.156                 | 32                    | 5.614             | 37           | 6.492             | 37.34                   | 38.72       | 40.09       | 41.47       | 42.85       | 45.61       | 52.22       | 55.53       | 56.63       | 59.39       | 66.28       | 67.66       | 75.65       | 77.30       |
| 1.161                 | 31                    | 5.439             | 36           | 6.316             | 37.62                   | 39.00       | 40.37       | 41.75       | 43.13       | 45.89       | 52.50       | 55.81       | 56.91       | 59.66       | 66.55       | 67.93       | 75.92       | 77.58       |
| 1.162                 | 37                    | 6.492             | 43           | 7.544             | 35.82                   | 37.20       | 38.58       | 39.96       | 41.33       | 44.09       | 50.70       | 54.01       | 55.11       | 57.87       | 64.76       | 66.14       | 74.13       | 75.78       |
| 1.163                 | 43                    | 7.544             | 50           | 8.772             | 34.03                   | 35.41       | 36.79       | 38.17       | 39.54       | 42.30       | 48.91       | 52.22       | 53.32       | 56.08       | 62.97       | 64.35       | 72.34       | 73.99       |
| 1.167                 | 30                    | 5.263             | 35           | 6.141             | 37.89                   | 39.27       | 40.65       | 42.03       | 43.40       | 46.16       | 52.77       | 56.08       | 57.18       | 59.94       | 66.83       | 68.21       | 76.20       | 77.85       |
| 1.167                 | 48                    | 8.421             | 56           | 9.825             | 32.51                   | 33.89       | 35.27       | 36.65       | 38.02       | 40.78       | 47.39       | 50.70       | 51.80       | 54.56       | 61.45       | 62.83       | 70.82       | 72.48       |
| 1.172                 | 29                    | 5.088             | 34           | 5.965             | 38.17                   | 39.55       | 40.92       | 42.30       | 43.68       | 46.44       | 53.05       | 56.36       | 57.46       | 60.21       | 67.10       | 68.48       | 76.47       | 78.13       |
| 1.176                 | 34                    | 5.965             | 40           | 7.018             | 36.65                   | 38.03       | 39.40       | 40.78       | 42.16       | 44.92       | 51.53       | 54.84       | 55.94       | 58.70       | 65.59       | 66.97       | 74.96       | 76.61       |
| 1.178                 | 45                    | 7.895             | 53           | 9.299             | 33.34                   | 34.72       | 36.09       | 37.47       | 38.85       | 41.61       | 48.22       | 51.53       | 52.63       | 55.39       | 62.28       | 63.66       | 71.65       | 73.30       |
| 1.179                 | 28                    | 4.912             | 33           | 5.790             | 38.44                   | 39.82       | 41.20       | 42.58       | 43.95       | 46.71       | 53.32       | 56.63       | 57.73       | 60.49       | 67.38       | 68.76       | 76.75       | 78.40       |
| 1.182                 | 33                    | 5.790             | 39           | 6.842             | 36.93                   | 38.31       | 39.68       | 41.06       | 42.44       | 45.20       | 51.81       | 55.12       | 56.22       | 58.97       | 65.86       | 67.24       | 75.23       | 76.89       |
| 1.183                 | 60                    | 10.527            | 71           | 12.457            | 28.78                   | 30.16       | 31.54       | 32.92       | 34.29       | 37.06       | 43.67       | 46.98       | 48.08       | 50.83       | 57.73       | 59.11       | 67.10       | 68.75       |
| 1.184                 | 38                    | 6.667             | 45           | 7.895             | 35.41                   | 36.79       | 38.16       | 39.54       | 40.92       | 43.68       | 50.29       | 53.60       | 54.70       | 57.45       | 64.35       | 65.73       | 73.72       | 75.37       |
| 1.188                 | 32                    | 5.614             | 38           | 6.667             | 37.20                   | 38.58       | 39.96       | 41.34       | 42.71       | 45.47       | 52.08       | 55.39       | 56.49       | 59.25       | 66.14       | 67.52       | 75.51       | 77.16       |
| 1.189                 | 53                    | 9.299             | 63           | 11.053            | 30.85                   | 32.23       | 33.61       | 34.99       | 36.37       | 39.13       | 45.74       | 49.05       | 50.15       | 52.90       | 59.79       | 61.17       | 69.17       | 70.82       |
| 1.190                 | 63                    | 11.053            | 75           | 13.158            | 27.81                   | 29.20       | 30.57       | 31.95       | 33.33       | 36.09       | 42.70       | 46.01       | 47.11       | 49.87       | 56.76       | 58.14       | 66.13       | 67.79       |
| 1.194                 | 31                    | 5.439             | 37           | 6.492             | 37.48                   | 38.86       | 40.23       | 41.61       | 42.99       | 45.75       | 52.36       | 55.67       | 56.77       | 59.52       | 66.41       | 67.79       | 75.78       | 77.44       |
| 1.194                 | 36                    | 6.316             | 43           | 7.544             | 35.96                   | 37.34       | 38.71       | 40.09       | 41.47       | 44.23       | 50.84       | 54.15       | 55.25       | 58.01       | 64.90       | 66.28       | 74.27       | 75.92       |
| 1.194                 | 67                    | 11.755            | 80           | 14.036            | 26.57                   | 27.95       | 29.33       | 30.71       | 32.08       | 34.85       | 41.46       | 44.77       | 45.87       | 48.63       | 55.52       | 56.90       | 64.89       | 66.54       |
| 1.196                 | 56                    | 9.825             | 67           | 11.755            | 29.89                   | 31.27       | 32.64       | 34.02       | 35.40       | 38.16       | 44.77       | 48.08       | 49.18       | 51.94       | 58.83       | 60.21       | 68.20       | 69.85       |
| 1.200                 | 30                    | 5.263             | 36           | 6.316             | 37.75                   | 39.13       | 40.51       | 41.89       | 43.26       | 46.02       | 52.63       | 55.94       | 57.04       | 59.80       | 66.69       | 68.07       | 76.06       | 77.71       |
| 1.200                 | 40                    | 7.018             | 48           | 8.421             | 34.72                   | 36.10       | 37.47       | 38.85       | 40.23       | 42.99       | 49.60       | 52.91       | 54.01       | 56.76       | 63.66       | 65.04       | 73.03       | 74.68       |
| 1.200                 | 50                    | 8.772             | 60           | 10.527            | 31.68                   | 33.06       | 34.44       | 35.82       | 37.19       | 39.95       | 46.56       | 49.87       | 50.98       | 53.73       | 60.62       | 62.00       | 69.99       | 71.65       |
| 1.200                 | 75                    | 13.158            | 90           | 15.790            | 24.08                   | 25.46       | 26.84       | 28.22       | 29.60       | 32.36       | 38.97       | 42.28       | 43.38       | 46.14       | 53.03       | 54.41       | 62.41       | 64.06       |
| 1.207                 | 29                    | 5.088             | 35           | 6.141             | 38.03                   | 39.41       | 40.78       | 42.16       | 43.54       | 46.30       | 52.91       | 56.22       | 57.32       | 60.07       | 66.96       | 68.34       | 76.33       | 77.99       |
| 1.212                 | 33                    | 5.790             | 40           | 7.018             | 36.79                   | 38.17       | 39.54       | 40.92       | 42.30       | 45.06       | 51.67       | 54.98       | 56.08       | 58.83       | 65.72       | 67.10       | 75.09       | 76.75       |
| 1.214                 | 28                    | 4.912             | 34           | 5.965             | 38.30                   | 39.68       | 41.06       | 42.44       | 43.81       | 46.57       | 53.18       | 56.49       | 57.59       | 60.35       | 67.24       | 68.62       | 76.61       | 78.27       |
| 1.216                 | 37                    | 6.492             | 45           | 7.895             | 35.54                   | 36.92       | 38.30       | 39.68       | 41.05       | 43.81       | 50.43       | 53.74       | 54.84       | 57.59       | 64.48       | 65.86       | 73.85       | 75.51       |
| 1.219                 | 32                    | 5.614             | 39           | 6.842             | 37.06                   | 38.44       | 39.82       | 41.20       | 42.57       | 45.33       | 51.94       | 55.25       | 56.35       | 59.11       | 66.00       | 67.38       | 75.37       | 77.02       |
| 1.226                 | 31                    | 5.439             | 38           | 6.667             | 37.34                   |             |             |             |             |             |             |             |             |             |             |             |             |             |

# SELECTION



## 14M HT500 Selection Table

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 994-14MX                | 1120-14MX   | 1190-14MX   | 1260-14MX   | 1400-14MX   | 1568-14MX   | 1610-14MX   | 1750-14MX   | 1890-14MX   | 1960-14MX   | 2100-14MX   | 2240-14MX   | 2310-14MX   |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.68</b>             | <b>0.73</b> | <b>0.75</b> | <b>0.77</b> | <b>0.81</b> | <b>0.85</b> | <b>0.86</b> | <b>0.89</b> | <b>0.92</b> | <b>0.94</b> | <b>0.96</b> | <b>0.99</b> | <b>1.00</b> |
| 1.264                 | 53                    | 9.299             | 67           | 11.755            |                         |             |             |             |             | 14.28       | 15.11       | 17.87       | 20.63       | 22.01       | 24.77       | 27.53       | 28.91       |
| 1.265                 | 34                    | 5.965             | 43           | 7.544             | 8.92                    | 11.41       | 12.79       | 14.17       | 16.93       | 20.24       | 21.07       | 23.83       | 26.58       | 27.96       | 30.72       | 33.48       | 34.85       |
| 1.267                 | 30                    | 5.263             | 38           | 6.667             | 10.17                   | 12.66       | 14.04       | 15.42       | 18.18       | 21.48       | 22.31       | 25.07       | 27.83       | 29.21       | 31.96       | 34.72       | 36.09       |
| 1.268                 | 56                    | 9.825             | 71           | 12.457            |                         |             |             |             |             | 13.30       | 14.13       | 16.90       | 19.66       | 21.04       | 23.80       | 26.56       | 27.94       |
| 1.268                 | 71                    | 12.457            | 90           | 15.790            |                         |             |             |             |             |             |             | 14.93       | 16.31       | 19.08       | 21.85       | 23.23       |             |
| 1.270                 | 63                    | 11.053            | 80           | 14.036            |                         |             |             |             |             |             |             | 14.67       | 17.44       | 18.82       | 21.58       | 24.34       | 25.72       |
| 1.276                 | 29                    | 5.088             | 37           | 6.492             | 10.45                   | 12.93       | 14.31       | 15.69       | 18.45       | 21.76       | 22.59       | 25.35       | 28.10       | 29.48       | 32.24       | 34.99       | 36.37       |
| 1.282                 | 39                    | 6.842             | 50           | 8.772             |                         | 9.73        | 11.12       | 12.50       | 15.27       | 18.58       | 19.41       | 22.17       | 24.92       | 26.30       | 29.06       | 31.82       | 33.19       |
| 1.286                 | 28                    | 4.912             | 36           | 6.316             | 10.72                   | 13.21       | 14.59       | 15.97       | 18.73       | 22.04       | 22.87       | 25.62       | 28.38       | 29.76       | 32.51       | 35.27       | 36.64       |
| 1.286                 | 35                    | 6.141             | 45           | 7.895             | 8.50                    | 10.99       | 12.37       | 13.75       | 16.51       | 19.82       | 20.65       | 23.41       | 26.17       | 27.55       | 30.30       | 33.06       | 34.43       |
| 1.290                 | 31                    | 5.439             | 40           | 7.018             | 9.75                    | 12.24       | 13.62       | 15.00       | 17.76       | 21.07       | 21.90       | 24.65       | 27.41       | 28.79       | 31.55       | 34.30       | 35.68       |
| 1.297                 | 37                    | 6.492             | 48           | 8.421             |                         | 10.29       | 11.67       | 13.06       | 15.82       | 19.13       | 19.96       | 22.72       | 25.47       | 26.86       | 29.61       | 32.37       | 33.74       |
| 1.300                 | 30                    | 5.263             | 39           | 6.842             | 10.03                   | 12.51       | 13.90       | 15.28       | 18.04       | 21.34       | 22.17       | 24.93       | 27.69       | 29.07       | 31.82       | 34.58       | 35.95       |
| 1.302                 | 43                    | 7.544             | 56           | 9.825             |                         | 9.72        | 11.10       | 13.87       | 17.19       | 18.02       | 20.78       | 23.54       | 24.92       | 27.67       | 30.43       | 31.81       |             |
| 1.303                 | 33                    | 5.790             | 43           | 7.544             | 9.05                    | 11.54       | 12.92       | 14.31       | 17.06       | 20.37       | 21.20       | 23.96       | 26.72       | 28.10       | 30.86       | 33.61       | 34.99       |
| 1.310                 | 29                    | 5.088             | 38           | 6.667             | 10.30                   | 12.79       | 14.17       | 15.55       | 18.31       | 21.62       | 22.45       | 25.21       | 27.96       | 29.34       | 32.10       | 34.85       | 36.23       |
| 1.313                 | 48                    | 8.421             | 63           | 11.053            |                         |             |             |             | 12.19       | 15.51       | 16.35       | 19.11       | 21.87       | 23.25       | 26.01       | 28.77       | 30.15       |
| 1.316                 | 38                    | 6.667             | 50           | 8.772             |                         | 9.86        | 11.25       | 12.64       | 15.40       | 18.71       | 19.54       | 22.30       | 25.06       | 26.44       | 29.20       | 31.95       | 33.33       |
| 1.321                 | 28                    | 4.912             | 37           | 6.492             | 10.58                   | 13.06       | 14.45       | 15.83       | 18.59       | 21.89       | 22.72       | 25.48       | 28.24       | 29.62       | 32.37       | 35.13       | 36.50       |
| 1.324                 | 34                    | 5.965             | 45           | 7.895             | 8.63                    | 11.12       | 12.50       | 13.89       | 16.65       | 19.96       | 20.79       | 23.54       | 26.30       | 27.68       | 30.44       | 33.20       | 34.57       |
| 1.325                 | 40                    | 7.018             | 53           | 9.299             |                         | 9.16        | 10.55       | 11.94       | 14.70       | 18.01       | 18.85       | 21.60       | 24.36       | 25.74       | 28.50       | 31.26       | 32.63       |
| 1.333                 | 30                    | 5.263             | 40           | 7.018             | 9.88                    | 12.37       | 13.75       | 15.13       | 17.89       | 21.20       | 22.03       | 24.79       | 27.55       | 28.93       | 31.68       | 34.44       | 35.81       |
| 1.333                 | 36                    | 6.316             | 48           | 8.421             |                         | 10.42       | 11.80       | 13.19       | 15.95       | 19.26       | 20.09       | 22.85       | 25.61       | 26.99       | 29.75       | 32.50       | 33.88       |
| 1.333                 | 45                    | 7.895             | 60           | 10.527            |                         |             |             | 10.25       | 13.02       | 16.34       | 17.18       | 19.94       | 22.70       | 24.08       | 26.84       | 29.60       | 30.97       |
| 1.333                 | 60                    | 10.527            | 80           | 14.036            |                         |             |             |             |             |             |             | 15.06       | 17.83       | 19.21       | 21.98       | 24.74       | 26.12       |
| 1.339                 | 56                    | 9.825             | 75           | 13.158            |                         |             |             |             |             | 12.70       | 13.54       | 16.31       | 19.08       | 20.47       | 23.23       | 25.99       | 27.37       |
| 1.340                 | 50                    | 8.772             | 67           | 11.755            |                         |             |             |             | 11.34       | 14.67       | 15.50       | 18.27       | 21.03       | 22.41       | 25.17       | 27.93       | 29.31       |
| 1.340                 | 53                    | 9.299             | 71           | 12.457            |                         |             |             |             |             | 13.69       | 14.52       | 17.29       | 20.06       | 21.44       | 24.20       | 26.96       | 28.34       |
| 1.343                 | 67                    | 11.755            | 90           | 15.790            |                         |             |             |             |             |             |             |             | 15.44       | 16.83       | 19.60       | 22.37       | 23.75       |
| 1.344                 | 32                    | 5.614             | 43           | 7.544             | 9.18                    | 11.67       | 13.06       | 14.44       | 17.20       | 20.51       | 21.34       | 24.10       | 26.85       | 28.23       | 30.99       | 33.75       | 35.12       |
| 1.345                 | 29                    | 5.088             | 39           | 6.842             | 10.16                   | 12.64       | 14.03       | 15.41       | 18.17       | 21.48       | 22.31       | 25.06       | 27.82       | 29.20       | 31.96       | 34.71       | 36.09       |
| 1.351                 | 37                    | 6.492             | 50           | 8.772             |                         | 9.99        | 11.38       | 12.77       | 15.53       | 18.84       | 19.67       | 22.43       | 25.19       | 26.57       | 29.33       | 32.09       | 33.46       |
| 1.357                 | 28                    | 4.912             | 38           | 6.667             | 10.43                   | 12.92       | 14.30       | 15.69       | 18.45       | 21.75       | 22.58       | 25.34       | 28.10       | 29.48       | 32.23       | 34.99       | 36.37       |
| 1.359                 | 39                    | 6.842             | 53           | 9.299             |                         | 9.29        | 10.68       | 12.07       | 14.83       | 18.15       | 18.98       | 21.74       | 24.50       | 25.88       | 28.64       | 31.39       | 32.77       |
| 1.364                 | 33                    | 5.790             | 45           | 7.895             | 8.75                    | 11.25       | 12.63       | 14.02       | 16.78       | 20.09       | 20.92       | 23.68       | 26.44       | 27.82       | 30.57       | 33.33       | 34.71       |
| 1.371                 | 35                    | 6.141             | 48           | 8.421             | 8.05                    | 10.55       | 11.93       | 13.32       | 16.08       | 19.39       | 20.23       | 22.98       | 25.74       | 27.12       | 29.88       | 32.64       | 34.01       |
| 1.379                 | 29                    | 5.088             | 40           | 7.018             | 10.01                   | 12.50       | 13.88       | 15.27       | 18.03       | 21.34       | 22.17       | 24.92       | 27.68       | 29.06       | 31.82       | 34.57       | 35.95       |
| 1.387                 | 31                    | 5.439             | 43           | 7.544             | 9.31                    | 11.80       | 13.19       | 14.57       | 17.33       | 20.64       | 21.47       | 24.23       | 26.99       | 28.37       | 31.13       | 33.88       | 35.26       |
| 1.389                 | 36                    | 6.316             | 50           | 8.772             |                         | 10.12       | 11.51       | 12.90       | 15.66       | 18.98       | 19.81       | 22.57       | 25.33       | 26.71       | 29.46       | 32.22       | 33.60       |
| 1.393                 | 28                    | 4.912             | 39           | 6.842             | 10.29                   | 12.78       | 14.16       | 15.54       | 18.30       | 21.61       | 22.44       | 25.20       | 27.96       | 29.34       | 32.09       | 34.85       | 36.23       |
| 1.395                 | 38                    | 6.667             | 53           | 9.299             |                         | 9.41        | 10.81       | 12.19       | 14.96       | 18.28       | 19.11       | 21.87       | 24.63       | 26.01       | 28.77       | 31.53       | 32.90       |
| 1.395                 | 43                    | 7.544             | 60           | 10.527            |                         |             |             | 10.51       | 13.28       | 16.61       | 17.44       | 20.20       | 22.96       | 24.35       | 27.11       | 29.86       | 31.24       |
| 1.396                 | 48                    | 8.421             | 67           | 11.755            |                         |             |             |             | 11.59       | 14.93       | 15.76       | 18.53       | 21.29       | 22.68       | 25.44       | 28.20       | 29.58       |
| 1.400                 | 40                    | 7.018             | 56           | 9.825             |                         |             | 10.10       | 11.49       | 14.26       | 17.58       | 18.41       | 21.18       | 23.94       | 25.32       | 28.08       | 30.83       | 32.21       |
| 1.400                 | 45                    | 7.895             | 63           | 11.053            |                         |             |             |             | 12.58       | 15.90       | 16.74       | 19.50       | 22.27       | 23.65       | 26.41       | 29.17       | 30.55       |
| 1.400                 | 80                    | 14.036            | 112          | 19.650            |                         |             |             |             |             |             |             |             |             |             |             | 17.41       | 18.80       |
| 1.406                 | 32                    | 5.614             | 45           | 7.895             | 8.88                    | 11.38       | 12.76       | 14.15       | 16.91       | 20.22       | 21.05       | 23.81       | 26.57       | 27.95       | 30.71       | 33.47       | 34.84       |
| 1.412                 | 34                    | 5.965             | 48           | 8.421             | 8.17                    | 10.68       | 12.06       | 13.45       | 16.21       | 19.53       | 20.36       | 23.12       | 25.88       | 27.26       | 30.02       | 32.77       | 34.15       |
| 1.415                 | 53                    | 9.299             | 75           | 13.158            |                         |             |             |             |             | 13.08       | 13.92       | 16.70       | 19.47       | 20.86       | 23.62       | 26.39       | 27.77       |
| 1.420                 | 50                    | 8.772             | 71           | 12.457            |                         |             |             |             |             | 14.07       | 14.91       | 17.68       | 20.45       | 21.83       | 24.60       | 27.36       | 28.74       |
| 1.429                 | 28                    | 4.912             | 40           | 7.018             | 10.14                   | 12.63       | 14.02       | 15.40       | 18.16       | 21.47       | 22.30       | 25.06       | 27.82       | 29.20       | 31.95       | 34.71       | 36.08       |
| 1.429                 | 35                    | 6.141             | 50           | 8.772             |                         | 10.25       | 11.64       | 13.03       | 15.79       | 19.11       | 19.94       | 22.70       | 25.46       | 26.84       | 29.60       | 32.36       | 33.73       |
| 1.429                 | 56                    | 9.825             | 80           | 14.036            |                         |             |             |             |             | 12.78       | 13.61       | 16.37       | 19.13       | 20.51       | 23.27       | 26.03       | 27.41       |
| 1.429                 | 63                    | 11.053            | 90           | 15.790            |                         |             |             |             |             |             |             | 15.57       | 18.33       | 19.71       | 22.47       | 25.23       | 26.61       |
| 1.432                 | 37                    | 6.492             | 53           | 9.299             |                         | 9.54        | 10.93       | 12.32       | 15.09       | 18.41       | 19.24       | 22.00       | 24.76       | 26.15       | 28.90       | 31.66       | 33.04       |
| 1.433                 | 30                    | 5.263             | 43           | 7.544             | 9.44                    | 11.93       | 13.32       | 14.70       | 17.46       | 20.78       | 21.61       | 24.36       | 27.12       | 28.50       | 31.26       | 34.02       | 35.39       |
| 1.436                 | 39                    | 6.842             | 56           | 9.825             |                         | 10.23       | 11.62       | 13.01       | 15.77       | 19.08       | 19.91       | 22.67       | 25.43       | 26.81       | 29.57       | 32.33       | 33.71       |
| 1.452                 | 31                    | 5.439             | 45           | 7.895             | 9.01                    | 11.51       | 12.89       | 14.28       | 17.04       | 20.36       | 21.19       | 23.95       | 26.70       | 28.08       | 30.84       | 33.60       | 34.98       |
| 1.455                 | 33                    | 5.790             | 48           | 8.421             | 8.30                    | 10.80       | 12.19       | 13.58       | 16.35       | 19.66       | 20.49       | 23.25       | 26.01       | 27.39       | 30.15       | 32.91       | 34.28       |
| 1.465                 | 43                    | 7.544             | 63           | 11.053            |                         |             |             | 10.05       | 12.83       | 16.16       | 17.00       | 19.77       | 22.53       | 23.91       | 26.68       | 29.44       | 30.81       |
| 1.471                 | 34                    | 5.965             | 50           | 8.772             |                         | 10.38       | 11.77       | 13.16       | 15.92       | 19.24       | 20.07       | 22.83       | 25.59       | 26.97       | 29.73       | 32.49       | 33.87       |
| 1.472                 | 36                    | 6.316             | 53           | 9.299             |                         | 9.67        | 11.06       | 12.45       | 15.22       | 18.54       | 19.37       | 22.14       | 24.90       | 26.28       | 29.04       | 31.80       | 33.17       |
| 1.474                 | 38                    | 6.667             | 56           | 9.825             |                         | 8.95        | 10.35       | 11.75       | 14.52       | 17.84       | 18.68       | 21.44       | 24.20       | 25.58       | 28.34       | 31.10       | 32.48       |
| 1.479                 | 48                    | 8.421             | 71           | 12.457            |                         |             |             |             | 14.33       | 15.16       | 17.94       | 20.71       | 23.47       | 24.85       | 27.62       | 30.38       | 31.76       |
| 1.483                 | 29                    | 5.088             | 43           | 7.544             | 9.56                    | 12.06       | 13.45       | 14.83       | 17.60       | 20.91       | 21.74       | 24.50       | 27.26       | 28.64       | 31.39       | 34.15       | 35.53       |
| 1.489                 | 45                    | 7.895             | 67           | 11.755            |                         |             |             |             | 11.97       | 15.31       | 16.15       | 18.92       | 21.69       | 23.07       | 25.83       | 28.60       | 29.97       |
| 1.493                 | 75                    | 13.158            | 112          | 19.650            |                         |             |             |             |             |             |             |             |             |             |             | 18.03       | 19.43       |
| 1.500                 | 30                    | 5.263             | 45           | 7.895             | 9.14                    | 11.64       | 13.02       | 14.41       | 17.18       | 20.49       | 21.32       | 24.08       | 26.84       | 28.22       | 30.98       | 33.74       | 35.11       |
| 1.500                 | 32                    | 5.614             | 48           | 8.421             | 8.42                    | 10.93       | 12.32       | 13.71       | 16.48       | 19.79       | 20.62       | 23.38       | 26.14       | 27.53       | 30.28       | 33.04       | 34.42       |
| 1.500                 | 40                    | 7.018             | 60           | 10.527            |                         |             | 9.48        | 10.88       | 13.67       | 16.99       | 17.83       | 20.60       | 23.36       | 24.74       | 27.50       | 30.26       | 31.64       |
| 1.500                 | 50                    | 8.7               |              |                   |                         |             |             |             |             |             |             |             |             |             |             |             |             |





# SELECTION

## 14M HT500 Selection Table (Continued)

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 2380-14MX               | 2450-14MX   | 2520-14MX   | 2590-14MX   | 2660-14MX   | 2800-14MX   | 3136-14MX   | 3304-14MX   | 3360-14MX   | 3500-14MX   | 3850-14MX   | 3920-14MX   | 4326-14MX   | 4410-14MX   |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>1.01</b>             | <b>1.02</b> | <b>1.03</b> | <b>1.04</b> | <b>1.05</b> | <b>1.07</b> | <b>1.12</b> | <b>1.14</b> | <b>1.14</b> | <b>1.16</b> | <b>1.19</b> | <b>1.20</b> | <b>1.24</b> | <b>1.25</b> |
| 1.264                 | 53                    | 9.299             | 67           | 11.755            | 30.29                   | 31.67       | 33.05       | 34.43       | 35.80       | 38.56       | 45.18       | 48.49       | 49.59       | 52.34       | 59.24       | 60.62       | 68.61       | 70.26       |
| 1.265                 | 34                    | 5.965             | 43           | 7.544             | 36.23                   | 37.61       | 38.99       | 40.37       | 41.74       | 44.50       | 51.11       | 54.42       | 55.52       | 58.28       | 65.17       | 66.55       | 74.54       | 76.20       |
| 1.267                 | 30                    | 5.263             | 38           | 6.667             | 37.47                   | 38.85       | 40.23       | 41.61       | 42.98       | 45.74       | 52.36       | 55.67       | 56.77       | 59.52       | 66.41       | 67.79       | 75.78       | 77.44       |
| 1.268                 | 56                    | 9.825             | 71           | 12.457            | 29.32                   | 30.70       | 32.08       | 33.46       | 34.83       | 37.60       | 44.21       | 47.52       | 48.62       | 51.38       | 58.27       | 59.65       | 67.64       | 69.30       |
| 1.268                 | 71                    | 12.457            | 90           | 15.790            | 24.61                   | 25.99       | 27.37       | 28.75       | 30.13       | 32.89       | 39.51       | 42.82       | 43.92       | 46.68       | 53.57       | 54.95       | 62.94       | 64.60       |
| 1.270                 | 63                    | 11.053            | 80           | 14.036            | 27.10                   | 28.49       | 29.86       | 31.24       | 32.62       | 35.38       | 42.00       | 45.31       | 46.41       | 49.17       | 56.06       | 57.44       | 65.43       | 67.09       |
| 1.276                 | 29                    | 5.088             | 37           | 6.492             | 37.75                   | 39.13       | 40.50       | 41.88       | 43.26       | 46.02       | 52.63       | 55.94       | 57.04       | 59.80       | 66.69       | 68.07       | 76.06       | 77.71       |
| 1.282                 | 39                    | 6.842             | 50           | 8.772             | 34.57                   | 35.95       | 37.33       | 38.71       | 40.09       | 42.85       | 49.46       | 52.77       | 53.87       | 56.62       | 63.51       | 64.89       | 72.88       | 74.54       |
| 1.286                 | 28                    | 4.912             | 36           | 6.316             | 38.03                   | 39.41       | 40.78       | 42.16       | 43.54       | 46.30       | 52.91       | 56.22       | 57.32       | 60.07       | 66.96       | 68.34       | 76.33       | 77.99       |
| 1.286                 | 35                    | 6.141             | 45           | 7.895             | 35.82                   | 37.20       | 38.57       | 39.95       | 41.33       | 44.09       | 50.70       | 54.01       | 55.11       | 57.86       | 64.76       | 66.14       | 74.13       | 75.78       |
| 1.290                 | 31                    | 5.439             | 40           | 7.018             | 37.06                   | 38.44       | 39.81       | 41.19       | 42.57       | 45.33       | 51.94       | 55.25       | 56.35       | 59.11       | 66.00       | 67.38       | 75.37       | 77.02       |
| 1.297                 | 37                    | 6.492             | 48           | 8.421             | 35.12                   | 36.50       | 37.88       | 39.26       | 40.64       | 43.40       | 50.01       | 53.32       | 54.42       | 57.17       | 64.07       | 65.45       | 73.44       | 75.09       |
| 1.300                 | 30                    | 5.263             | 39           | 6.842             | 37.33                   | 38.71       | 40.09       | 41.47       | 42.85       | 45.61       | 52.22       | 55.53       | 56.63       | 59.38       | 66.27       | 67.65       | 75.64       | 77.30       |
| 1.302                 | 43                    | 7.544             | 56           | 9.825             | 33.19                   | 34.57       | 35.95       | 37.33       | 38.70       | 41.46       | 48.07       | 51.39       | 52.49       | 55.24       | 62.13       | 63.51       | 71.50       | 73.16       |
| 1.303                 | 33                    | 5.790             | 43           | 7.544             | 36.37                   | 37.75       | 39.12       | 40.50       | 41.88       | 44.64       | 51.25       | 54.56       | 55.66       | 58.42       | 65.31       | 66.69       | 74.68       | 76.33       |
| 1.310                 | 29                    | 5.088             | 38           | 6.667             | 37.61                   | 38.99       | 40.36       | 41.75       | 43.12       | 45.88       | 52.49       | 55.80       | 56.90       | 59.66       | 66.55       | 67.93       | 75.92       | 77.57       |
| 1.313                 | 48                    | 8.421             | 63           | 11.053            | 31.53                   | 32.91       | 34.28       | 35.67       | 37.04       | 39.80       | 46.42       | 49.73       | 50.83       | 53.58       | 60.48       | 61.86       | 69.85       | 71.50       |
| 1.316                 | 38                    | 6.667             | 50           | 8.772             | 34.71                   | 36.09       | 37.46       | 38.84       | 40.22       | 42.98       | 49.59       | 52.90       | 54.00       | 56.76       | 63.65       | 65.03       | 73.02       | 74.68       |
| 1.321                 | 28                    | 4.912             | 37           | 6.492             | 37.89                   | 39.27       | 40.64       | 42.02       | 43.40       | 46.16       | 52.77       | 56.08       | 57.18       | 59.93       | 66.82       | 68.20       | 76.19       | 77.85       |
| 1.324                 | 34                    | 5.965             | 45           | 7.895             | 35.95                   | 37.33       | 38.71       | 40.09       | 41.46       | 44.22       | 50.84       | 54.15       | 55.25       | 58.00       | 64.89       | 66.27       | 74.26       | 75.92       |
| 1.325                 | 40                    | 7.018             | 53           | 9.299             | 34.02                   | 35.40       | 36.77       | 38.15       | 39.53       | 42.29       | 48.90       | 52.21       | 53.31       | 56.07       | 62.96       | 64.34       | 72.33       | 73.99       |
| 1.333                 | 30                    | 5.263             | 40           | 7.018             | 37.19                   | 38.57       | 39.95       | 41.33       | 42.71       | 45.47       | 52.08       | 55.39       | 56.49       | 59.24       | 66.13       | 67.51       | 75.50       | 77.16       |
| 1.333                 | 36                    | 6.316             | 48           | 8.421             | 35.26                   | 36.64       | 38.02       | 39.40       | 40.77       | 43.53       | 50.14       | 53.46       | 54.56       | 57.31       | 64.20       | 65.58       | 73.57       | 75.23       |
| 1.333                 | 45                    | 7.895             | 60           | 10.527            | 32.35                   | 33.74       | 35.11       | 36.49       | 37.87       | 40.63       | 47.24       | 50.55       | 51.65       | 54.41       | 61.30       | 62.68       | 70.67       | 72.33       |
| 1.333                 | 60                    | 10.527            | 80           | 14.036            | 27.50                   | 28.88       | 30.26       | 31.64       | 33.02       | 35.79       | 42.40       | 45.71       | 46.82       | 49.57       | 56.47       | 57.85       | 65.84       | 67.50       |
| 1.339                 | 56                    | 9.825             | 75           | 13.158            | 28.75                   | 30.13       | 31.51       | 32.89       | 34.27       | 37.03       | 43.65       | 46.96       | 48.06       | 50.82       | 57.71       | 59.09       | 67.08       | 68.74       |
| 1.340                 | 50                    | 8.772             | 67           | 11.755            | 30.69                   | 32.07       | 33.45       | 34.83       | 36.21       | 38.97       | 45.58       | 48.90       | 50.00       | 52.75       | 59.64       | 61.02       | 69.02       | 70.67       |
| 1.340                 | 53                    | 9.299             | 71           | 12.457            | 29.72                   | 31.10       | 32.48       | 33.86       | 35.24       | 38.00       | 44.61       | 47.93       | 49.03       | 51.78       | 58.68       | 60.06       | 68.05       | 69.70       |
| 1.343                 | 67                    | 11.755            | 90           | 15.790            | 25.14                   | 26.52       | 27.90       | 29.28       | 30.66       | 33.43       | 40.05       | 43.36       | 44.46       | 47.22       | 54.11       | 55.49       | 63.49       | 65.14       |
| 1.344                 | 32                    | 5.614             | 43           | 7.544             | 36.50                   | 37.88       | 39.26       | 40.64       | 42.01       | 44.78       | 51.39       | 54.70       | 55.80       | 58.55       | 65.44       | 66.82       | 74.81       | 76.47       |
| 1.345                 | 29                    | 5.088             | 39           | 6.842             | 37.47                   | 38.85       | 40.23       | 41.61       | 42.98       | 45.74       | 52.36       | 55.67       | 56.77       | 59.52       | 66.41       | 67.79       | 75.78       | 77.44       |
| 1.351                 | 37                    | 6.492             | 50           | 8.772             | 34.84                   | 36.22       | 37.60       | 38.98       | 40.36       | 43.12       | 49.73       | 53.04       | 54.14       | 56.90       | 63.79       | 65.17       | 73.16       | 74.81       |
| 1.357                 | 28                    | 4.912             | 38           | 6.667             | 37.75                   | 39.13       | 40.50       | 41.88       | 43.26       | 46.02       | 52.63       | 55.94       | 57.04       | 59.79       | 66.69       | 68.07       | 76.06       | 77.71       |
| 1.359                 | 39                    | 6.842             | 53           | 9.299             | 34.15                   | 35.53       | 36.91       | 38.29       | 39.66       | 42.43       | 49.04       | 52.35       | 53.45       | 56.20       | 63.10       | 64.48       | 72.47       | 74.12       |
| 1.364                 | 33                    | 5.790             | 45           | 7.895             | 36.09                   | 37.47       | 38.84       | 40.22       | 41.60       | 44.36       | 50.97       | 54.28       | 55.38       | 58.14       | 65.03       | 66.41       | 74.40       | 76.05       |
| 1.371                 | 35                    | 6.141             | 48           | 8.421             | 35.39                   | 36.78       | 38.15       | 39.53       | 40.91       | 43.67       | 50.28       | 53.59       | 54.69       | 57.45       | 64.34       | 65.72       | 73.71       | 75.36       |
| 1.379                 | 29                    | 5.088             | 40           | 7.018             | 37.33                   | 38.71       | 40.09       | 41.47       | 42.84       | 45.60       | 52.21       | 55.52       | 56.62       | 59.38       | 66.27       | 67.65       | 75.64       | 77.30       |
| 1.387                 | 31                    | 5.439             | 43           | 7.544             | 36.64                   | 38.02       | 39.39       | 40.77       | 42.15       | 44.91       | 51.52       | 54.83       | 55.93       | 58.69       | 65.58       | 66.96       | 74.95       | 76.61       |
| 1.389                 | 36                    | 6.316             | 50           | 8.772             | 34.98                   | 36.36       | 37.73       | 39.12       | 40.49       | 43.25       | 49.86       | 53.18       | 54.28       | 57.03       | 63.92       | 65.30       | 73.29       | 74.95       |
| 1.393                 | 28                    | 4.912             | 39           | 6.842             | 37.61                   | 38.99       | 40.36       | 41.74       | 43.12       | 45.88       | 52.49       | 55.80       | 56.90       | 59.66       | 66.55       | 67.93       | 75.92       | 77.57       |
| 1.395                 | 38                    | 6.667             | 53           | 9.299             | 34.29                   | 35.67       | 37.04       | 38.42       | 39.80       | 42.56       | 49.17       | 52.48       | 53.58       | 56.34       | 63.23       | 64.61       | 72.60       | 74.26       |
| 1.395                 | 43                    | 7.544             | 60           | 10.527            | 32.62                   | 34.00       | 35.38       | 36.76       | 38.14       | 40.90       | 47.51       | 50.83       | 51.93       | 54.68       | 61.57       | 62.95       | 70.95       | 72.60       |
| 1.396                 | 48                    | 8.421             | 67           | 11.755            | 30.96                   | 32.34       | 33.72       | 35.10       | 36.48       | 39.24       | 45.85       | 49.17       | 50.27       | 53.02       | 59.92       | 61.30       | 69.29       | 70.94       |
| 1.400                 | 40                    | 7.018             | 56           | 9.825             | 33.59                   | 34.97       | 36.35       | 37.73       | 39.11       | 41.87       | 48.48       | 51.79       | 52.89       | 55.65       | 62.54       | 63.92       | 71.91       | 73.57       |
| 1.400                 | 45                    | 7.895             | 63           | 11.053            | 31.93                   | 33.31       | 34.69       | 36.07       | 37.44       | 40.21       | 46.82       | 50.13       | 51.23       | 53.99       | 60.88       | 62.26       | 70.26       | 71.91       |
| 1.400                 | 80                    | 14.036            | 112          | 19.650            | 20.20                   | 21.59       | 22.98       | 24.37       | 25.75       | 28.52       | 35.16       | 38.48       | 39.58       | 42.35       | 49.25       | 50.63       | 58.63       | 60.29       |
| 1.406                 | 32                    | 5.614             | 45           | 7.895             | 36.22                   | 37.60       | 38.98       | 40.36       | 41.73       | 44.50       | 51.11       | 54.42       | 55.52       | 58.27       | 65.17       | 66.55       | 74.54       | 76.19       |
| 1.412                 | 34                    | 5.965             | 48           | 8.421             | 35.53                   | 36.91       | 38.29       | 39.67       | 41.04       | 43.80       | 50.42       | 53.73       | 54.83       | 57.58       | 64.47       | 65.85       | 73.85       | 75.50       |
| 1.415                 | 53                    | 9.299             | 75           | 13.158            | 29.15                   | 30.53       | 31.91       | 33.29       | 34.67       | 37.43       | 44.05       | 47.36       | 48.46       | 51.22       | 58.12       | 59.50       | 67.49       | 69.15       |
| 1.420                 | 50                    | 8.772             | 71           | 12.457            | 30.12                   | 31.50       | 32.88       | 34.26       | 35.64       | 38.40       | 45.02       | 48.33       | 49.43       | 52.19       | 59.08       | 60.46       | 68.46       | 70.11       |
| 1.429                 | 28                    | 4.912             | 40           | 7.018             | 37.47                   | 38.85       | 40.22       | 41.60       | 42.98       | 45.74       | 52.35       | 55.66       | 56.76       | 59.52       | 66.41       | 67.79       | 75.78       | 77.43       |
| 1.429                 | 35                    | 6.141             | 50           | 8.772             | 35.11                   | 36.49       | 37.87       | 39.25       | 40.63       | 43.39       | 50.00       | 53.31       | 54.41       | 57.17       | 64.06       | 65.44       | 73.43       | 75.09       |
| 1.429                 | 56                    | 9.825             | 80           | 14.036            | 28.03                   | 29.41       | 30.79       | 32.18       | 33.55       | 36.32       | 42.94       | 46.25       | 47.35       | 50.11       | 57.01       | 58.39       | 66.38       | 68.04       |
| 1.429                 | 63                    | 11.053            | 90           | 15.790            | 25.66                   | 27.04       | 28.42       | 29.81       | 31.19       | 33.95       | 40.58       | 43.89       | 45.00       | 47.75       | 54.65       | 56.03       | 64.03       | 65.68       |
| 1.432                 | 37                    | 6.492             | 53           | 9.299             | 34.42                   | 35.80       | 37.18       | 38.56       | 39.93       | 42.69       | 49.31       | 52.62       | 53.72       | 56.48       | 63.37       | 64.75       | 72.74       | 74.39       |
| 1.433                 | 30                    | 5.263             | 43           | 7.544             | 36.77                   | 38.15       | 39.53       | 40.91       | 42.29       | 45.05       | 51.66       | 54.97       | 56.07       | 58.83       | 65.72       | 67.10       | 75.09       | 76.74       |
| 1.436                 | 39                    | 6.842             | 56           | 9.825             | 33.73                   | 35.11       | 36.48       | 37.87       | 39.24       | 42.00       | 48.62       | 51.93       | 53.03       | 55.78       | 62.68       | 64.06       | 72.05       | 73.70       |
| 1.452                 | 31                    | 5.439             | 45           | 7.895             | 36.36                   | 37.74       | 39.11       | 40.49       | 41.87       | 44.63       | 51.24       | 54.55       | 55.65       | 58.41       | 65.30       | 66.68       | 74.67       | 76.33       |
| 1.455                 | 33                    | 5.790             | 48           | 8.421             | 35.66                   | 37.05       | 38.42       | 39.80       | 41.18       | 43.94       | 50.55       | 53.86       | 54.96       | 57.72       | 64.61       | 65.99       | 73.98       | 75.64       |
| 1.465                 | 43                    | 7.544             | 63           | 11.053            | 32.20                   | 33.58       | 34.95       | 36.34       | 37.71       | 40.48       | 47.09       | 50.40       | 51.50       | 54.26       | 61.15       | 62.53       | 70.53       | 72.18       |
| 1.471                 | 34                    | 5.965             | 50           | 8.772             | 35.25                   | 36.63       | 38.00       | 39.39       | 40.76       | 43.52       | 50.14       | 53.45       | 54.55       | 57.30       | 64.20       | 65.58       | 73.57       | 75.22       |
| 1.472                 | 36                    | 6.316             | 53           | 9.299             | 34.55                   | 35.94       | 37.31       | 38.69       | 40.0        |             |             |             |             |             |             |             |             |             |

# SELECTION



## 14M HT500 Selection Table

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 994-14MX                | 1120-14MX   | 1190-14MX   | 1260-14MX   | 1400-14MX   | 1568-14MX   | 1610-14MX   | 1750-14MX   | 1890-14MX   | 1960-14MX   | 2100-14MX   | 2240-14MX   | 2310-14MX   |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.68</b>             | <b>0.73</b> | <b>0.75</b> | <b>0.77</b> | <b>0.81</b> | <b>0.85</b> | <b>0.86</b> | <b>0.89</b> | <b>0.92</b> | <b>0.94</b> | <b>0.96</b> | <b>0.99</b> | <b>1.00</b> |
| 1.509                 | 53                    | 9.299             | 80           | 14.036            |                         |             |             |             |             |             | 13.15       | 15.95       | 18.73       | 20.12       | 22.89       | 25.66       | 27.04       |
| 1.514                 | 35                    | 6.141             | 53           | 9.299             |                         | 9.79        | 11.19       | 12.58       | 15.35       | 18.67       | 19.50       | 22.27       | 25.03       | 26.41       | 29.17       | 31.93       | 33.31       |
| 1.514                 | 37                    | 6.492             | 56           | 9.825             |                         | 9.08        | 10.48       | 11.87       | 14.65       | 17.97       | 18.81       | 21.57       | 24.33       | 25.72       | 28.48       | 31.24       | 32.61       |
| 1.515                 | 33                    | 5.790             | 50           | 8.772             | 7.99                    | 10.50       | 11.89       | 13.28       | 16.05       | 19.37       | 20.20       | 22.96       | 25.72       | 27.11       | 29.87       | 32.62       | 34.00       |
| 1.536                 | 28                    | 4.912             | 43           | 7.544             | 9.69                    | 12.19       | 13.58       | 14.96       | 17.73       | 21.04       | 21.87       | 24.63       | 27.39       | 28.77       | 31.53       | 34.29       | 35.66       |
| 1.538                 | 39                    | 6.842             | 60           | 10.527            |                         |             | 9.61        | 11.01       | 13.80       | 17.12       | 17.96       | 20.73       | 23.49       | 24.88       | 27.64       | 30.40       | 31.78       |
| 1.548                 | 31                    | 5.439             | 48           | 8.421             | 8.55                    | 11.06       | 12.45       | 13.84       | 16.61       | 19.92       | 20.76       | 23.52       | 26.28       | 27.66       | 30.42       | 33.18       | 34.55       |
| 1.552                 | 29                    | 5.088             | 45           | 7.895             | 9.26                    | 11.76       | 13.15       | 14.54       | 17.31       | 20.62       | 21.45       | 24.21       | 26.97       | 28.35       | 31.11       | 33.87       | 35.25       |
| 1.556                 | 36                    | 6.316             | 56           | 9.825             |                         | 9.20        | 10.60       | 12.00       | 14.78       | 18.10       | 18.94       | 21.70       | 24.46       | 25.85       | 28.61       | 31.37       | 32.75       |
| 1.558                 | 43                    | 7.544             | 67           | 11.755            |                         |             |             |             | 12.22       | 15.56       | 16.40       | 19.18       | 21.95       | 23.33       | 26.10       | 28.86       | 30.24       |
| 1.559                 | 34                    | 5.965             | 53           | 9.299             |                         | 9.92        | 11.31       | 12.71       | 15.48       | 18.80       | 19.64       | 22.40       | 25.16       | 26.54       | 29.30       | 32.06       | 33.44       |
| 1.563                 | 32                    | 5.614             | 50           | 8.772             | 8.11                    | 10.63       | 12.02       | 13.41       | 16.18       | 19.50       | 20.33       | 23.10       | 25.86       | 27.24       | 30.00       | 32.76       | 34.13       |
| 1.563                 | 48                    | 8.421             | 75           | 13.158            |                         |             |             |             | 13.71       | 14.55       | 17.34       | 20.12       | 21.51       | 24.28       | 27.04       | 28.42       | 29.80       |
| 1.575                 | 40                    | 7.018             | 63           | 11.053            |                         |             |             | 10.42       | 13.21       | 16.55       | 17.38       | 20.16       | 22.92       | 24.31       | 27.07       | 29.83       | 31.21       |
| 1.577                 | 71                    | 12.457            | 112          | 19.650            |                         |             |             |             |             |             |             |             |             |             |             | 18.53       | 19.93       |
| 1.578                 | 45                    | 7.895             | 71           | 12.457            |                         |             |             |             | 11.35       | 14.70       | 15.54       | 18.32       | 21.10       | 22.48       | 25.25       | 28.02       | 29.40       |
| 1.579                 | 38                    | 6.667             | 60           | 10.527            |                         |             | 9.73        | 11.13       | 13.92       | 17.25       | 18.09       | 20.86       | 23.62       | 25.01       | 27.77       | 30.53       | 31.91       |
| 1.600                 | 30                    | 5.263             | 48           | 8.421             | 8.67                    | 11.19       | 12.58       | 13.97       | 16.74       | 20.06       | 20.89       | 23.65       | 26.41       | 27.79       | 30.55       | 33.31       | 34.69       |
| 1.600                 | 35                    | 6.141             | 56           | 9.825             |                         | 9.32        | 10.73       | 12.13       | 14.91       | 18.23       | 19.07       | 21.83       | 24.60       | 25.98       | 28.74       | 31.50       | 32.88       |
| 1.600                 | 50                    | 8.772             | 80           | 14.036            |                         |             |             |             | 12.68       | 13.52       | 16.32       | 19.11       | 20.50       | 23.28       | 26.05       | 27.43       | 28.81       |
| 1.606                 | 33                    | 5.790             | 53           | 9.299             |                         | 10.04       | 11.44       | 12.83       | 15.61       | 18.93       | 19.77       | 22.53       | 25.29       | 26.68       | 29.44       | 32.20       | 33.57       |
| 1.607                 | 28                    | 4.912             | 45           | 7.895             | 9.39                    | 11.89       | 13.28       | 14.67       | 17.44       | 20.75       | 21.58       | 24.35       | 27.11       | 28.49       | 31.25       | 34.00       | 35.38       |
| 1.607                 | 56                    | 9.825             | 90           | 15.790            |                         |             |             |             |             |             | 14.01       | 16.82       | 18.22       | 21.01       | 23.79       | 25.18       | 26.56       |
| 1.613                 | 31                    | 5.439             | 50           | 8.772             | 8.23                    | 10.75       | 12.15       | 13.54       | 16.31       | 19.63       | 20.47       | 23.23       | 25.99       | 27.37       | 30.13       | 32.89       | 34.27       |
| 1.615                 | 39                    | 6.842             | 63           | 11.053            |                         |             |             | 10.54       | 13.34       | 16.68       | 17.51       | 20.29       | 23.05       | 24.44       | 27.20       | 29.97       | 31.34       |
| 1.622                 | 37                    | 6.492             | 60           | 10.527            |                         |             | 9.85        | 11.26       | 14.05       | 17.38       | 18.22       | 20.99       | 23.75       | 25.14       | 27.90       | 30.66       | 32.04       |
| 1.647                 | 34                    | 5.965             | 56           | 9.825             |                         | 9.45        | 10.85       | 12.25       | 15.03       | 18.36       | 19.20       | 21.96       | 24.73       | 26.11       | 28.87       | 31.63       | 33.01       |
| 1.651                 | 43                    | 7.544             | 71           | 12.457            |                         |             |             |             | 11.59       | 14.95       | 15.79       | 18.58       | 21.35       | 22.74       | 25.51       | 28.28       | 29.66       |
| 1.655                 | 29                    | 5.088             | 48           | 8.421             | 8.80                    | 11.31       | 12.71       | 14.10       | 16.87       | 20.19       | 21.02       | 23.78       | 26.54       | 27.93       | 30.68       | 33.44       | 34.82       |
| 1.656                 | 32                    | 5.614             | 53           | 9.299             |                         | 10.16       | 11.57       | 12.96       | 15.74       | 19.06       | 19.90       | 22.66       | 25.43       | 26.81       | 29.57       | 32.33       | 33.71       |
| 1.658                 | 38                    | 6.667             | 63           | 11.053            |                         |             |             | 10.66       | 13.46       | 16.80       | 17.64       | 20.41       | 23.18       | 24.57       | 27.33       | 30.10       | 31.48       |
| 1.667                 | 30                    | 5.263             | 50           | 8.772             | 8.36                    | 10.88       | 12.28       | 13.67       | 16.44       | 19.76       | 20.60       | 23.36       | 26.12       | 27.51       | 30.27       | 33.03       | 34.40       |
| 1.667                 | 36                    | 6.316             | 60           | 10.527            |                         |             | 9.97        | 11.38       | 14.17       | 17.51       | 18.35       | 21.12       | 23.88       | 25.27       | 28.03       | 30.79       | 32.17       |
| 1.667                 | 45                    | 7.895             | 75           | 13.158            |                         |             |             |             | 14.08       | 14.93       | 17.72       | 20.50       | 21.89       | 24.66       | 27.43       | 28.81       | 29.19       |
| 1.667                 | 48                    | 8.421             | 80           | 14.036            |                         |             |             |             | 12.92       | 13.77       | 16.57       | 19.36       | 20.76       | 23.53       | 26.31       | 27.69       | 28.07       |
| 1.672                 | 67                    | 11.755            | 112          | 19.650            |                         |             |             |             |             |             |             |             |             |             | 16.19       | 19.02       | 20.42       |
| 1.675                 | 40                    | 7.018             | 67           | 11.755            |                         |             |             |             | 12.59       | 15.94       | 16.78       | 19.56       | 22.34       | 23.72       | 26.49       | 29.25       | 30.63       |
| 1.697                 | 33                    | 5.790             | 56           | 9.825             |                         | 9.57        | 10.98       | 12.38       | 15.16       | 18.49       | 19.33       | 22.09       | 24.86       | 26.24       | 29.01       | 31.77       | 33.14       |
| 1.698                 | 53                    | 9.299             | 90           | 15.790            |                         |             |             |             |             |             | 14.38       | 17.19       | 18.60       | 21.39       | 24.17       | 25.56       | 25.94       |
| 1.703                 | 37                    | 6.492             | 63           | 11.053            |                         |             |             | 10.78       | 13.59       | 16.93       | 17.77       | 20.54       | 23.31       | 24.70       | 27.47       | 30.23       | 31.61       |
| 1.710                 | 31                    | 5.439             | 53           | 9.299             |                         | 10.29       | 11.69       | 13.09       | 15.87       | 19.19       | 20.03       | 22.79       | 25.56       | 26.94       | 29.70       | 32.46       | 33.84       |
| 1.714                 | 28                    | 4.912             | 48           | 8.421             | 8.92                    | 11.44       | 12.83       | 14.22       | 17.00       | 20.32       | 21.15       | 23.91       | 26.68       | 28.06       | 30.82       | 33.58       | 34.95       |
| 1.714                 | 35                    | 6.141             | 60           | 10.527            |                         |             | 10.09       | 11.50       | 14.30       | 17.64       | 18.47       | 21.25       | 24.01       | 25.40       | 28.16       | 30.93       | 32.30       |
| 1.718                 | 39                    | 6.842             | 67           | 11.755            |                         |             |             |             | 12.72       | 16.07       | 16.91       | 19.69       | 22.46       | 23.85       | 26.62       | 29.39       | 30.77       |
| 1.724                 | 29                    | 5.088             | 50           | 8.772             | 8.48                    | 11.00       | 12.40       | 13.80       | 16.57       | 19.89       | 20.73       | 23.49       | 26.25       | 27.64       | 30.40       | 33.16       | 34.54       |
| 1.744                 | 43                    | 7.544             | 75           | 13.158            |                         |             |             |             | 14.33       | 15.18       | 17.97       | 20.76       | 22.15       | 24.92       | 27.69       | 29.08       | 29.46       |
| 1.750                 | 32                    | 5.614             | 56           | 9.825             |                         | 9.69        | 11.10       | 12.50       | 15.29       | 18.62       | 19.46       | 22.22       | 24.99       | 26.38       | 29.14       | 31.90       | 33.28       |
| 1.750                 | 36                    | 6.316             | 63           | 11.053            |                         |             | 9.49        | 10.91       | 13.71       | 17.06       | 17.90       | 20.67       | 23.44       | 24.83       | 27.60       | 30.36       | 31.74       |
| 1.750                 | 80                    | 14.036            | 140          | 24.562            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 1.763                 | 38                    | 6.667             | 67           | 11.755            |                         |             |             | 10.01       | 12.84       | 16.20       | 17.04       | 19.82       | 22.59       | 23.98       | 26.75       | 29.52       | 30.90       |
| 1.765                 | 34                    | 5.965             | 60           | 10.527            |                         |             | 10.22       | 11.63       | 14.43       | 17.77       | 18.60       | 21.38       | 24.14       | 25.53       | 28.30       | 31.06       | 32.44       |
| 1.767                 | 30                    | 5.263             | 53           | 9.299             |                         | 10.41       | 11.82       | 13.21       | 16.00       | 19.32       | 20.16       | 22.92       | 25.69       | 27.07       | 29.83       | 32.60       | 33.97       |
| 1.775                 | 40                    | 7.018             | 71           | 12.457            |                         |             |             |             | 11.95       | 15.33       | 16.17       | 18.96       | 21.74       | 23.13       | 25.90       | 28.67       | 30.05       |
| 1.778                 | 45                    | 7.895             | 80           | 14.036            |                         |             |             |             |             | 13.28       | 14.14       | 16.95       | 19.74       | 21.14       | 23.92       | 26.69       | 28.08       |
| 1.778                 | 63                    | 11.053            | 112          | 19.650            |                         |             |             |             |             |             |             |             |             |             | 16.67       | 19.51       | 20.91       |
| 1.786                 | 28                    | 4.912             | 50           | 8.772             | 8.60                    | 11.13       | 12.53       | 13.92       | 16.70       | 20.02       | 20.86       | 23.62       | 26.39       | 27.77       | 30.53       | 33.29       | 34.67       |
| 1.800                 | 35                    | 6.141             | 63           | 11.053            |                         |             | 9.61        | 11.03       | 13.84       | 17.19       | 18.02       | 20.80       | 23.57       | 24.96       | 27.73       | 30.49       | 31.87       |
| 1.800                 | 50                    | 8.772             | 90           | 15.790            |                         |             |             |             |             |             | 14.74       | 17.56       | 18.97       | 21.77       | 24.55       | 25.94       | 26.32       |
| 1.806                 | 31                    | 5.439             | 56           | 9.825             |                         | 9.81        | 11.22       | 12.63       | 15.42       | 18.75       | 19.58       | 22.35       | 25.12       | 26.51       | 29.27       | 32.03       | 33.41       |
| 1.811                 | 37                    | 6.492             | 67           | 11.755            |                         |             |             | 10.13       | 12.96       | 16.32       | 17.16       | 19.94       | 22.72       | 24.11       | 26.88       | 29.65       | 31.03       |
| 1.818                 | 33                    | 5.790             | 60           | 10.527            |                         | 8.91        | 10.34       | 11.75       | 14.55       | 17.89       | 18.73       | 21.50       | 24.27       | 25.66       | 28.43       | 31.19       | 32.57       |
| 1.821                 | 39                    | 6.842             | 71           | 12.457            |                         |             |             |             | 12.07       | 15.45       | 16.30       | 19.09       | 21.87       | 23.26       | 26.03       | 28.80       | 30.18       |
| 1.828                 | 29                    | 5.088             | 53           | 9.299             | 7.99                    | 10.53       | 11.94       | 13.34       | 16.12       | 19.45       | 20.29       | 23.05       | 25.82       | 27.20       | 29.97       | 32.73       | 34.11       |
| 1.853                 | 34                    | 5.965             | 63           | 11.053            |                         |             | 9.72        | 11.15       | 13.96       | 17.31       | 18.15       | 20.93       | 23.70       | 25.09       | 27.86       | 30.62       | 32.00       |
| 1.860                 | 43                    | 7.544             | 80           | 14.036            |                         |             |             |             | 13.52       | 14.38       | 17.19       | 19.99       | 21.39       | 24.17       | 26.95       | 28.33       | 28.71       |
| 1.861                 | 36                    | 6.316             | 67           | 11.755            |                         |             |             | 10.25       | 13.08       | 16.45       | 17.29       | 20.07       | 22.85       | 24.24       | 27.01       | 29.78       | 31.16       |
| 1.867                 | 30                    | 5.263             | 56           | 9.825             |                         | 9.93        | 11.34       | 12.75       | 15.54       | 18.88       | 19.71       | 22.48       | 25.25       | 26.64       | 29.40       | 32.16       | 33.54       |
| 1.867                 | 60                    | 10.527            | 112          | 19.650            |                         |             |             |             |             |             |             |             |             |             | 17.02       | 19.87       | 21.28       |
| 1.867                 | 75                    | 13.158            | 140          | 24.562            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 1.868                 | 38                    | 6.667             | 71           | 12.457            |                         |             |             |             | 12.19       | 15.58       | 16.42       | 19.21       | 21.99       | 23.39       | 26.16       | 28.93       | 30.31       |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.68</b>             | <b>0.73</b> | <b>0.75</b> | <b>0.77</b> | <b>0.81</b> | <b>0.85</b> | <b>0.86</b> | <b>0.89</b> | <b>0.92</b> | <b>0.94</b> | <b>0.96</b> | <b>0.99</b> | <b>1.00</b> |

\* The length correction factor must be used to determine the proper belt width.



# SELECTION

## 14M HT500 Selection Table (Continued)

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 2380-14MX               | 2450-14MX   | 2520-14MX   | 2590-14MX   | 2660-14MX   | 2800-14MX   | 3136-14MX   | 3304-14MX   | 3360-14MX   | 3500-14MX   | 3850-14MX   | 3920-14MX   | 4326-14MX   | 4410-14MX   |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>1.01</b>             | <b>1.02</b> | <b>1.03</b> | <b>1.04</b> | <b>1.05</b> | <b>1.07</b> | <b>1.12</b> | <b>1.14</b> | <b>1.14</b> | <b>1.16</b> | <b>1.19</b> | <b>1.20</b> | <b>1.24</b> | <b>1.25</b> |
| 1.509                 | 53                    | 9.299             | 80           | 14.036            | 28.42                   | 29.81       | 31.19       | 32.57       | 33.95       | 36.72       | 43.34       | 46.65       | 47.75       | 50.51       | 57.41       | 58.79       | 66.79       | 68.44       |
| 1.514                 | 35                    | 6.141             | 53           | 9.299             | 34.69                   | 36.07       | 37.45       | 38.83       | 40.20       | 42.96       | 49.58       | 52.89       | 53.99       | 56.75       | 63.64       | 65.02       | 73.01       | 74.67       |
| 1.514                 | 37                    | 6.492             | 56           | 9.825             | 33.99                   | 35.38       | 36.75       | 38.13       | 39.51       | 42.27       | 48.89       | 52.20       | 53.30       | 56.05       | 62.95       | 64.33       | 72.32       | 73.98       |
| 1.515                 | 33                    | 5.790             | 50           | 8.772             | 35.38                   | 36.76       | 38.14       | 39.52       | 40.90       | 43.66       | 50.27       | 53.58       | 54.68       | 57.44       | 64.33       | 65.71       | 73.70       | 75.36       |
| 1.536                 | 28                    | 4.912             | 43           | 7.544             | 37.04                   | 38.42       | 39.80       | 41.18       | 42.56       | 45.32       | 51.93       | 55.24       | 56.34       | 59.10       | 65.99       | 67.37       | 75.36       | 77.02       |
| 1.538                 | 39                    | 6.842             | 60           | 10.527            | 33.16                   | 34.54       | 35.92       | 37.30       | 38.67       | 41.44       | 48.05       | 51.37       | 52.47       | 55.22       | 62.12       | 63.50       | 71.49       | 73.15       |
| 1.548                 | 31                    | 5.439             | 48           | 8.421             | 35.93                   | 37.31       | 38.69       | 40.07       | 41.45       | 44.21       | 50.82       | 54.13       | 55.23       | 57.99       | 64.88       | 66.26       | 74.25       | 75.91       |
| 1.552                 | 29                    | 5.088             | 45           | 7.895             | 36.63                   | 38.01       | 39.38       | 40.76       | 42.14       | 44.90       | 51.51       | 54.83       | 55.93       | 58.68       | 65.57       | 66.95       | 74.95       | 76.60       |
| 1.556                 | 36                    | 6.316             | 56           | 9.825             | 34.13                   | 35.51       | 36.89       | 38.27       | 39.64       | 42.41       | 49.02       | 52.33       | 53.43       | 56.19       | 63.08       | 64.46       | 72.46       | 74.11       |
| 1.558                 | 43                    | 7.544             | 67           | 11.755            | 31.62                   | 33.01       | 34.38       | 35.77       | 37.14       | 39.91       | 46.52       | 49.84       | 50.94       | 53.70       | 60.59       | 61.97       | 69.97       | 71.62       |
| 1.559                 | 34                    | 5.965             | 53           | 9.299             | 34.82                   | 36.20       | 37.58       | 38.96       | 40.34       | 43.10       | 49.71       | 53.03       | 54.13       | 56.88       | 63.77       | 65.15       | 73.15       | 74.80       |
| 1.563                 | 32                    | 5.614             | 50           | 8.772             | 35.52                   | 36.90       | 38.27       | 39.65       | 41.03       | 43.79       | 50.41       | 53.72       | 54.82       | 57.57       | 64.47       | 65.85       | 73.84       | 75.49       |
| 1.563                 | 48                    | 8.421             | 75           | 13.158            | 29.81                   | 31.19       | 32.57       | 33.95       | 35.33       | 38.10       | 44.72       | 48.03       | 49.13       | 51.89       | 58.79       | 60.17       | 68.17       | 69.82       |
| 1.575                 | 40                    | 7.018             | 63           | 11.053            | 32.59                   | 33.98       | 35.35       | 36.74       | 38.11       | 40.88       | 47.49       | 50.81       | 51.91       | 54.66       | 61.56       | 62.94       | 70.93       | 72.59       |
| 1.577                 | 71                    | 12.457            | 112          | 19.650            | 21.33                   | 22.73       | 24.12       | 25.51       | 26.90       | 29.69       | 36.34       | 39.66       | 40.76       | 43.53       | 50.44       | 51.82       | 59.83       | 61.49       |
| 1.578                 | 45                    | 7.895             | 71           | 12.457            | 30.78                   | 32.16       | 33.54       | 34.93       | 36.30       | 39.07       | 45.69       | 49.00       | 50.10       | 52.86       | 59.76       | 61.14       | 69.13       | 70.79       |
| 1.579                 | 38                    | 6.667             | 60           | 10.527            | 33.29                   | 34.67       | 36.05       | 37.43       | 38.81       | 41.57       | 48.19       | 51.50       | 52.60       | 55.36       | 62.25       | 63.63       | 71.62       | 73.28       |
| 1.600                 | 30                    | 5.263             | 48           | 8.421             | 36.07                   | 37.45       | 38.83       | 40.21       | 41.58       | 44.34       | 50.96       | 54.27       | 55.37       | 58.13       | 65.02       | 66.40       | 74.39       | 76.05       |
| 1.600                 | 35                    | 6.141             | 56           | 9.825             | 34.26                   | 35.64       | 37.02       | 38.40       | 39.78       | 42.54       | 49.16       | 52.47       | 53.57       | 56.33       | 63.22       | 64.60       | 72.59       | 74.25       |
| 1.600                 | 50                    | 8.772             | 80           | 14.036            | 28.82                   | 30.20       | 31.58       | 32.97       | 34.35       | 37.11       | 43.74       | 47.05       | 48.15       | 50.91       | 57.81       | 59.19       | 67.19       | 68.85       |
| 1.606                 | 33                    | 5.790             | 53           | 9.299             | 34.96                   | 36.34       | 37.71       | 39.09       | 40.47       | 43.23       | 49.85       | 53.16       | 54.26       | 57.02       | 63.91       | 65.29       | 73.28       | 74.94       |
| 1.607                 | 28                    | 4.912             | 45           | 7.895             | 36.76                   | 38.14       | 39.52       | 40.90       | 42.28       | 45.04       | 51.65       | 54.96       | 56.06       | 58.82       | 65.71       | 67.09       | 75.08       | 76.74       |
| 1.607                 | 56                    | 9.825             | 90           | 15.790            | 26.56                   | 27.95       | 29.34       | 30.72       | 32.10       | 34.87       | 41.50       | 44.82       | 45.93       | 48.69       | 55.59       | 56.97       | 64.97       | 66.63       |
| 1.613                 | 31                    | 5.439             | 50           | 8.772             | 35.65                   | 37.03       | 38.41       | 39.79       | 41.16       | 43.93       | 50.54       | 53.85       | 54.95       | 57.71       | 64.60       | 65.98       | 73.97       | 75.63       |
| 1.615                 | 39                    | 6.842             | 63           | 11.053            | 32.73                   | 34.11       | 35.49       | 36.87       | 38.25       | 41.01       | 47.63       | 50.94       | 52.04       | 54.80       | 61.69       | 63.07       | 71.07       | 72.72       |
| 1.622                 | 37                    | 6.492             | 60           | 10.527            | 33.42                   | 34.80       | 36.18       | 37.56       | 38.94       | 41.70       | 48.32       | 51.63       | 52.73       | 55.49       | 62.39       | 63.77       | 71.76       | 73.42       |
| 1.647                 | 34                    | 5.965             | 56           | 9.825             | 34.39                   | 35.78       | 37.15       | 38.54       | 39.91       | 42.67       | 49.29       | 52.60       | 53.70       | 56.46       | 63.35       | 64.73       | 72.73       | 74.38       |
| 1.651                 | 43                    | 7.544             | 71           | 12.457            | 31.04                   | 32.43       | 33.81       | 35.19       | 36.57       | 39.33       | 45.95       | 49.27       | 50.37       | 53.13       | 60.03       | 61.41       | 69.40       | 71.06       |
| 1.655                 | 29                    | 5.088             | 48           | 8.421             | 36.20                   | 37.58       | 38.96       | 40.34       | 41.72       | 44.48       | 51.09       | 54.40       | 55.51       | 58.26       | 65.15       | 66.53       | 74.53       | 76.18       |
| 1.656                 | 32                    | 5.614             | 53           | 9.299             | 35.09                   | 36.47       | 37.85       | 39.23       | 40.61       | 43.37       | 49.98       | 53.30       | 54.40       | 57.15       | 64.05       | 65.43       | 73.42       | 75.07       |
| 1.658                 | 38                    | 6.667             | 63           | 11.053            | 32.86                   | 34.24       | 35.62       | 37.00       | 38.38       | 41.14       | 47.76       | 51.08       | 52.18       | 54.93       | 61.83       | 63.21       | 71.20       | 72.86       |
| 1.667                 | 30                    | 5.263             | 50           | 8.772             | 35.78                   | 37.17       | 38.54       | 39.92       | 41.30       | 44.06       | 50.68       | 53.99       | 55.09       | 57.85       | 64.74       | 66.12       | 74.11       | 75.77       |
| 1.667                 | 36                    | 6.316             | 60           | 10.527            | 33.56                   | 34.94       | 36.32       | 37.70       | 39.07       | 41.84       | 48.46       | 51.77       | 52.87       | 55.63       | 62.52       | 63.90       | 71.90       | 73.55       |
| 1.667                 | 45                    | 7.895             | 75           | 13.158            | 30.20                   | 31.59       | 32.96       | 34.35       | 35.73       | 38.50       | 45.12       | 48.43       | 49.54       | 52.29       | 59.19       | 60.57       | 68.57       | 70.23       |
| 1.667                 | 48                    | 8.421             | 80           | 14.036            | 29.08                   | 30.46       | 31.84       | 33.23       | 34.61       | 37.38       | 44.00       | 47.32       | 48.42       | 51.18       | 58.08       | 59.46       | 67.46       | 69.12       |
| 1.672                 | 67                    | 11.755            | 112          | 19.650            | 21.83                   | 23.23       | 24.62       | 26.02       | 27.41       | 30.20       | 36.85       | 40.18       | 41.29       | 44.05       | 50.97       | 52.35       | 60.36       | 62.02       |
| 1.675                 | 40                    | 7.018             | 67           | 11.755            | 32.02                   | 33.40       | 34.78       | 36.16       | 37.54       | 40.31       | 46.93       | 50.24       | 51.34       | 54.10       | 60.99       | 62.38       | 70.37       | 72.03       |
| 1.697                 | 33                    | 5.790             | 56           | 9.825             | 34.53                   | 35.91       | 37.29       | 38.67       | 40.05       | 42.81       | 49.42       | 52.74       | 53.84       | 56.60       | 63.49       | 64.87       | 72.86       | 74.52       |
| 1.698                 | 53                    | 9.299             | 90           | 15.790            | 26.95                   | 28.34       | 29.72       | 31.11       | 32.49       | 35.27       | 41.90       | 45.22       | 46.32       | 49.08       | 55.99       | 57.37       | 65.37       | 67.03       |
| 1.703                 | 37                    | 6.492             | 63           | 11.053            | 32.99                   | 34.37       | 35.75       | 37.14       | 38.51       | 41.28       | 47.90       | 51.21       | 52.31       | 55.07       | 61.96       | 63.34       | 71.34       | 72.99       |
| 1.710                 | 31                    | 5.439             | 53           | 9.299             | 35.22                   | 36.60       | 37.98       | 39.36       | 40.74       | 43.50       | 50.12       | 53.43       | 54.53       | 57.29       | 64.18       | 65.56       | 73.55       | 75.21       |
| 1.714                 | 28                    | 4.912             | 48           | 8.421             | 36.34                   | 37.72       | 39.09       | 40.48       | 41.85       | 44.61       | 51.23       | 54.54       | 55.64       | 58.40       | 65.29       | 66.67       | 74.66       | 76.32       |
| 1.714                 | 35                    | 6.141             | 60           | 10.527            | 33.69                   | 35.07       | 36.45       | 37.83       | 39.21       | 41.97       | 48.59       | 51.90       | 53.00       | 55.76       | 62.66       | 64.04       | 72.03       | 73.69       |
| 1.718                 | 39                    | 6.842             | 67           | 11.755            | 32.15                   | 33.53       | 34.91       | 36.30       | 37.67       | 40.44       | 47.06       | 50.37       | 51.48       | 54.23       | 61.13       | 62.51       | 70.51       | 72.16       |
| 1.724                 | 29                    | 5.088             | 50           | 8.772             | 35.92                   | 37.30       | 38.68       | 40.06       | 41.43       | 44.20       | 50.81       | 54.12       | 55.22       | 57.98       | 64.87       | 66.25       | 74.25       | 75.90       |
| 1.744                 | 43                    | 7.544             | 75           | 13.158            | 30.46                   | 31.85       | 33.23       | 34.61       | 35.99       | 38.76       | 45.38       | 48.70       | 49.80       | 52.56       | 59.46       | 60.84       | 68.84       | 70.49       |
| 1.750                 | 32                    | 5.614             | 56           | 9.825             | 34.66                   | 36.04       | 37.42       | 38.80       | 40.18       | 42.94       | 49.56       | 52.87       | 53.97       | 56.73       | 63.62       | 65.00       | 73.00       | 74.65       |
| 1.750                 | 36                    | 6.316             | 63           | 11.053            | 33.12                   | 34.51       | 35.89       | 37.27       | 38.65       | 41.41       | 48.03       | 51.34       | 52.44       | 55.20       | 62.10       | 63.48       | 71.47       | 73.13       |
| 1.750                 | 80                    | 14.036            | 140          | 24.562            | 24.562                  | 25.94       | 27.32       | 28.70       | 30.08       | 32.84       | 39.46       | 42.77       | 43.87       | 46.63       | 53.53       | 54.91       | 62.91       | 64.57       |
| 1.763                 | 38                    | 6.667             | 67           | 11.755            | 32.28                   | 33.67       | 35.04       | 36.43       | 37.81       | 40.57       | 47.19       | 50.51       | 51.61       | 54.37       | 61.26       | 62.64       | 70.64       | 72.30       |
| 1.765                 | 34                    | 5.965             | 60           | 10.527            | 33.82                   | 35.20       | 36.58       | 37.96       | 39.34       | 42.11       | 48.72       | 52.04       | 53.14       | 55.90       | 62.79       | 64.17       | 72.17       | 73.82       |
| 1.767                 | 30                    | 5.263             | 53           | 9.299             | 35.36                   | 36.74       | 38.11       | 39.50       | 40.87       | 43.64       | 50.25       | 53.57       | 54.67       | 57.42       | 64.32       | 65.70       | 73.69       | 75.35       |
| 1.775                 | 40                    | 7.018             | 71           | 12.457            | 31.44                   | 32.82       | 34.20       | 35.59       | 36.96       | 39.73       | 46.35       | 49.67       | 50.77       | 53.53       | 60.43       | 61.81       | 69.81       | 71.46       |
| 1.778                 | 45                    | 7.895             | 80           | 14.036            | 29.47                   | 30.85       | 32.23       | 33.62       | 35.00       | 37.77       | 44.40       | 47.72       | 48.82       | 51.58       | 58.48       | 59.86       | 67.86       | 69.52       |
| 1.778                 | 63                    | 11.053            | 112          | 19.650            | 22.32                   | 23.73       | 25.12       | 26.52       | 27.91       | 30.70       | 37.37       | 40.70       | 41.80       | 44.57       | 51.49       | 52.88       | 60.89       | 62.55       |
| 1.786                 | 28                    | 4.912             | 50           | 8.                |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |

# SELECTION



## 14M HT500 Selection Table

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 994-14MX                | 1120-14MX   | 1190-14MX   | 1260-14MX   | 1400-14MX   | 1568-14MX   | 1610-14MX   | 1750-14MX   | 1890-14MX   | 1960-14MX   | 2100-14MX   | 2240-14MX   | 2310-14MX   |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.68</b>             | <b>0.73</b> | <b>0.75</b> | <b>0.77</b> | <b>0.81</b> | <b>0.85</b> | <b>0.86</b> | <b>0.89</b> | <b>0.92</b> | <b>0.94</b> | <b>0.96</b> | <b>0.99</b> | <b>1.00</b> |
| 1.875                 | 32                    | 5.614             | 60           | 10.527            |                         |             |             | 11.87       | 14.68       | 18.02       | 18.86       | 21.63       | 24.40       | 25.79       | 28.56       | 31.32       | 32.70       |
| 1.875                 | 40                    | 7.018             | 75           | 13.158            |                         | 9.03        | 10.46       |             | 11.29       | 14.70       | 15.54       | 18.35       | 21.14       | 22.53       | 25.31       | 28.08       | 29.46       |
| 1.875                 | 48                    | 8.421             | 90           | 15.790            |                         |             |             |             |             |             |             | 14.98       | 17.81       | 19.22       | 22.02       | 24.81       | 26.20       |
| 1.893                 | 28                    | 4.912             | 53           | 9.299             | 8.11                    | 10.66       | 12.06       | 13.46       | 16.25       | 19.58       | 20.42       | 23.18       | 25.95       | 27.34       | 30.10       | 32.86       | 34.24       |
| 1.909                 | 33                    | 5.790             | 63           | 11.053            |                         |             |             | 9.84        | 11.27       | 14.09       | 17.44       | 18.28       | 21.06       | 23.83       | 25.22       | 27.99       | 30.75       |
| 1.914                 | 35                    | 6.141             | 67           | 11.755            |                         |             |             |             | 10.37       | 13.21       | 16.57       | 17.41       | 20.20       | 22.98       | 24.37       | 27.14       | 29.91       |
| 1.919                 | 37                    | 6.492             | 71           | 12.457            |                         |             |             |             |             | 12.31       | 15.70       | 16.54       | 19.34       | 22.12       | 23.51       | 26.29       | 29.06       |
| 1.923                 | 39                    | 6.842             | 75           | 13.158            |                         |             |             |             |             | 11.41       | 14.82       | 15.67       | 18.47       | 21.26       | 22.66       | 25.44       | 28.21       |
| 1.931                 | 29                    | 5.088             | 56           | 9.825             |                         | 10.05       | 11.47       | 12.87       | 15.67       | 19.00       | 19.84       | 22.61       | 25.38       | 26.77       | 29.53       | 32.30       | 33.67       |
| 1.935                 | 31                    | 5.439             | 60           | 10.527            |                         |             |             | 9.15        | 10.58       | 11.99       | 14.80       | 18.15       | 18.98       | 21.76       | 24.53       | 25.92       | 28.69       |
| 1.969                 | 32                    | 5.614             | 63           | 11.053            |                         |             |             |             | 9.96        | 11.39       | 14.21       | 17.56       | 18.40       | 21.18       | 23.96       | 25.35       | 28.12       |
| 1.971                 | 34                    | 5.965             | 67           | 11.755            |                         |             |             |             | 10.49       | 13.33       | 16.70       | 17.54       | 20.33       | 23.11       | 24.50       | 27.27       | 30.04       |
| 1.972                 | 36                    | 6.316             | 71           | 12.457            |                         |             |             |             |             | 12.43       | 15.82       | 16.67       | 19.46       | 22.25       | 23.64       | 26.42       | 29.19       |
| 1.972                 | 71                    | 12.457            | 140          | 24.562            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 1.974                 | 38                    | 6.667             | 75           | 13.158            |                         |             |             |             |             | 11.53       | 14.94       | 15.79       | 18.60       | 21.39       | 22.78       | 25.56       | 28.34       |
| 2.000                 | 28                    | 4.912             | 56           | 9.825             |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 2.000                 | 30                    | 5.263             | 60           | 10.527            |                         | 10.17       | 11.59       | 13.00       | 15.79       | 19.13       | 19.97       | 22.74       | 25.51       | 26.90       | 29.66       | 32.43       | 33.81       |
| 2.000                 | 40                    | 7.018             | 80           | 14.036            |                         | 9.27        | 10.70       | 12.12       | 14.93       |             |             |             |             |             |             |             |             |
| 2.000                 | 45                    | 7.895             | 90           | 15.790            |                         |             |             |             |             |             |             | 12.46       | 15.34       | 18.17       | 19.58       | 22.39       | 25.18       |
| 2.000                 | 56                    | 9.825             | 112          | 19.650            |                         |             |             |             |             |             |             |             |             |             | 17.50       | 20.35       | 21.76       |
| 2.027                 | 37                    | 6.492             | 75           | 13.158            |                         |             |             |             |             | 11.65       | 15.06       | 15.91       | 18.72       | 21.51       | 22.91       | 25.69       | 28.47       |
| 2.029                 | 35                    | 6.141             | 71           | 12.457            |                         |             |             |             |             | 12.55       | 15.94       | 16.79       | 19.59       | 22.37       | 23.77       | 26.55       | 29.32       |
| 2.030                 | 33                    | 5.790             | 67           | 11.755            |                         |             |             |             | 10.60       | 13.45       | 16.82       | 17.66       | 20.45       | 23.23       | 24.62       | 27.40       | 30.17       |
| 2.032                 | 31                    | 5.439             | 63           | 11.053            |                         |             | 10.08       | 11.51       | 14.33       | 17.69       | 18.53       | 21.31       | 24.09       | 25.48       | 28.25       | 31.02       | 32.40       |
| 2.051                 | 39                    | 6.842             | 80           | 14.036            |                         |             |             |             |             | 14.00       | 14.86       | 17.69       | 20.49       | 21.89       | 24.68       | 27.46       | 28.85       |
| 2.069                 | 29                    | 5.088             | 60           | 10.527            |                         | 9.38        | 10.82       | 12.24       | 15.05       | 18.40       | 19.24       | 22.02       | 24.79       | 26.18       | 28.95       | 31.71       | 33.09       |
| 2.083                 | 36                    | 6.316             | 75           | 13.158            |                         |             |             |             |             | 11.76       | 15.18       | 16.03       | 18.84       | 21.64       | 23.04       | 25.82       | 28.60       |
| 2.088                 | 34                    | 5.965             | 71           | 12.457            |                         |             |             |             |             | 12.67       | 16.07       | 16.91       | 19.71       | 22.50       | 23.90       | 26.67       | 29.45       |
| 2.090                 | 67                    | 11.755            | 140          | 24.562            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 2.093                 | 43                    | 7.544             | 90           | 15.790            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 2.094                 | 32                    | 5.614             | 67           | 11.755            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 2.100                 | 30                    | 5.263             | 63           | 11.053            |                         |             | 10.20       | 10.72       | 13.57       | 16.94       | 17.79       | 20.58       | 23.36       | 24.75       | 27.53       | 30.30       | 31.68       |
| 2.100                 | 80                    | 14.036            | 168          | 29.475            |                         |             |             |             |             | 17.81       | 18.66       | 21.44       | 24.22       | 25.61       | 28.38       | 31.15       | 32.53       |
| 2.105                 | 38                    | 6.667             | 80           | 14.036            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 2.113                 | 53                    | 9.299             | 112          | 19.650            |                         |             |             |             |             | 14.12       | 14.98       | 17.81       | 20.61       | 22.02       | 24.81       | 27.59       | 28.98       |
| 2.143                 | 28                    | 4.912             | 60           | 10.527            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 2.143                 | 35                    | 6.141             | 75           | 13.158            |                         | 9.50        | 10.94       | 12.36       | 15.17       | 18.53       | 19.37       | 22.15       | 24.92       | 26.31       | 29.08       | 31.85       | 33.23       |
| 2.152                 | 33                    | 5.790             | 71           | 12.457            |                         |             |             |             |             | 11.88       | 15.30       | 16.16       | 18.97       | 21.76       | 23.16       | 25.95       | 28.72       |
| 2.161                 | 31                    | 5.439             | 67           | 11.755            |                         |             |             |             |             | 9.91        | 12.79       | 17.04       | 19.84       | 22.63       | 24.02       | 26.80       | 29.58       |
| 2.162                 | 37                    | 6.492             | 80           | 14.036            |                         |             |             |             |             | 10.84       | 13.69       | 17.07       | 19.91       | 20.70       | 23.49       | 26.66       | 30.43       |
| 2.172                 | 29                    | 5.088             | 63           | 11.053            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 2.172                 | 29                    | 5.088             | 63           | 11.053            |                         | 8.86        | 10.31       | 11.75       | 14.58       | 17.94       | 18.78       | 21.57       | 24.34       | 25.73       | 28.51       | 31.28       | 32.66       |
| 2.206                 | 34                    | 5.965             | 75           | 13.158            |                         |             |             |             |             | 12.00       | 15.42       | 16.28       | 19.09       | 21.89       | 23.29       | 26.07       | 28.85       |
| 2.219                 | 32                    | 5.614             | 71           | 12.457            |                         |             |             |             |             | 10.02       | 12.91       | 16.31       | 17.16       | 19.96       | 22.75       | 25.53       | 28.31       |
| 2.222                 | 36                    | 6.316             | 80           | 14.036            |                         |             |             |             |             | 10.88       | 14.36       | 15.22       | 18.05       | 20.86       | 22.27       | 25.06       | 27.84       |
| 2.222                 | 63                    | 11.053            | 140          | 24.562            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 2.233                 | 30                    | 5.263             | 67           | 11.755            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 2.240                 | 50                    | 8.772             | 112          | 19.650            |                         |             |             |             |             |             |             |             |             |             | 15.28       | 18.20       | 21.07       |
| 2.240                 | 75                    | 13.158            | 168          | 29.475            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 2.250                 | 28                    | 4.912             | 63           | 11.053            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 2.250                 | 40                    | 7.018             | 90           | 15.790            |                         | 8.98        | 10.43       | 11.87       | 14.70       | 18.06       | 18.91       | 21.69       | 24.47       | 25.86       | 28.64       | 31.41       | 32.79       |
| 2.250                 | 80                    | 14.036            | 180          | 31.580            |                         |             |             |             |             | 12.15       | 13.04       | 15.93       | 18.78       | 20.19       | 23.01       | 25.81       | 27.20       |
| 2.273                 | 33                    | 5.790             | 75           | 13.158            |                         |             |             |             |             | 12.11       | 15.54       | 16.40       | 19.21       | 22.01       | 23.41       | 26.20       | 28.98       |
| 2.286                 | 35                    | 6.141             | 80           | 14.036            |                         |             |             |             |             | 11.00       | 14.48       | 15.34       | 18.17       | 20.99       | 22.39       | 25.18       | 27.97       |
| 2.290                 | 31                    | 5.439             | 71           | 12.457            |                         |             |             |             |             | 13.03       | 16.43       | 17.28       | 20.09       | 22.88       | 24.28       | 27.06       | 29.83       |
| 2.308                 | 39                    | 6.842             | 90           | 15.790            |                         |             |             |             |             | 10.14       | 13.03       | 16.43       | 17.28       | 20.09       | 22.88       | 24.28       | 27.06       |
| 2.310                 | 29                    | 5.088             | 67           | 11.755            |                         |             | 9.61        | 11.07       | 13.93       | 17.31       | 18.16       | 20.96       | 23.74       | 25.14       | 27.91       | 30.69       | 32.07       |
| 2.333                 | 48                    | 8.421             | 112          | 19.650            |                         |             |             |             |             |             |             |             |             |             | 15.51       | 18.43       | 21.30       |
| 2.333                 | 60                    | 10.527            | 140          | 24.562            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 2.344                 | 32                    | 5.614             | 75           | 13.158            |                         |             |             |             |             | 12.23       | 15.67       | 16.52       | 19.34       | 22.14       | 23.54       | 26.33       | 29.11       |
| 2.353                 | 34                    | 5.965             | 80           | 14.036            |                         |             |             |             |             | 11.11       | 14.59       | 15.46       | 18.29       | 21.11       | 22.51       | 25.31       | 28.10       |
| 2.366                 | 71                    | 12.457            | 168          | 29.475            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 2.367                 | 30                    | 5.263             | 71           | 12.457            |                         |             |             |             |             | 10.25       | 13.15       | 16.56       | 17.40       | 20.21       | 23.01       | 24.40       | 27.18       |
| 2.368                 | 38                    | 6.667             | 90           | 15.790            |                         |             |             |             |             |             |             | 12.38       | 13.27       | 16.16       | 19.02       | 20.44       | 23.25       |
| 2.393                 | 28                    | 4.912             | 67           | 11.755            |                         |             |             |             |             | 9.73        | 11.19       | 14.05       | 17.44       | 21.08       | 24.26       | 28.04       | 30.81       |
| 2.400                 | 75                    | 13.158            | 180          | 31.580            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 2.419                 | 31                    | 5.439             | 75           | 13.158            |                         |             |             |             |             | 12.35       | 15.78       | 16.64       | 19.46       | 22.26       | 23.66       | 26.45       | 29.23       |
| 2.424                 | 33                    | 5.790             | 80           | 14.036            |                         |             |             |             |             | 11.22       | 14.71       | 15.57       | 18.42       | 21.23       | 22.64       | 25.43       | 28.22       |
| 2.432                 | 37                    | 6.492             | 90           | 15.790            |                         |             |             |             |             |             |             | 12.49       | 13.38       | 16.28       | 19.14       | 20.56       | 23.38       |
| 2.448                 | 29                    | 5.088             | 71           | 12.457            |                         |             |             |             |             | 10.36       | 13.27       | 16.68       | 17.53       | 20.34       | 23.13       | 24.53       | 27.31       |
| 2.489                 | 45                    | 7.895             | 112          | 19.650            |                         |             |             |             |             |             |             |             |             | 14.35       | 15.85       | 18.78       | 21.66       |
| 2.500                 | 30                    | 5.263             | 75           | 13.158            |                         |             |             |             |             | 12.46       | 15.90       | 16.76       | 19.58       | 22.39       | 23.79       | 26.58       | 29.36       |
| 2.500                 | 32                    | 5.614             | 80           | 14.036            |                         |             |             |             |             | 11.34       | 14.83       | 15.69       | 18.54       | 21.36       | 22.76       | 25.56       | 28.35       |
| 2.500                 | 36                    | 6.316             | 90           | 15.790            |                         |             |             |             |             |             | 12.60       | 13.49       | 16.40       | 19.26       | 20.68       | 23.50       | 26.31       |
| 2.500                 | 56                    | 9.825             | 140          | 24.562            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 2.500                 | 80                    | 14.036            | 200          | 35.089            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.68</b>             | <b>0.73</b> | <b>0.75</b> | <b>0.77</b> | <b>0.81</b> | <b>0.85</b> | <b>0.86</b> | <b>0.89</b> | <b>0.92</b> | <b>0.94</b> | <b>0.96</b> | <b>0.99</b> | <b>1.00</b> |

\* The length correction factor must be used to determine the proper belt width.



# SELECTION

## 14M HT500 Selection Table (Continued)

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 2380-14MX               | 2450-14MX   | 2520-14MX   | 2590-14MX   | 2660-14MX   | 2800-14MX   | 3136-14MX   | 3304-14MX   | 3360-14MX   | 3500-14MX   | 3850-14MX   | 3920-14MX   | 4326-14MX   | 4410-14MX   |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>1.01</b>             | <b>1.02</b> | <b>1.03</b> | <b>1.04</b> | <b>1.05</b> | <b>1.07</b> | <b>1.12</b> | <b>1.14</b> | <b>1.14</b> | <b>1.16</b> | <b>1.19</b> | <b>1.20</b> | <b>1.24</b> | <b>1.25</b> |
| 1.875                 | 32                    | 5.614             | 60           | 10.527            | 34.08                   | 35.47       | 36.85       | 38.23       | 39.61       | 42.37       | 48.99       | 52.31       | 53.41       | 56.16       | 63.06       | 64.44       | 72.44       | 74.09       |
| 1.875                 | 40                    | 7.018             | 75           | 13.158            | 30.85                   | 32.24       | 33.62       | 35.00       | 36.38       | 39.15       | 45.78       | 49.10       | 50.20       | 52.96       | 59.86       | 61.24       | 69.24       | 70.90       |
| 1.875                 | 48                    | 8.421             | 90           | 15.790            | 27.59                   | 28.98       | 30.37       | 31.76       | 33.14       | 35.92       | 42.56       | 45.88       | 46.98       | 49.74       | 56.65       | 58.03       | 66.04       | 67.69       |
| 1.893                 | 28                    | 4.912             | 53           | 9.299             | 35.62                   | 37.00       | 38.38       | 39.76       | 41.14       | 43.90       | 50.52       | 53.83       | 54.93       | 57.69       | 64.59       | 65.97       | 73.96       | 75.62       |
| 1.909                 | 33                    | 5.790             | 63           | 11.053            | 33.52                   | 34.90       | 36.28       | 37.66       | 39.04       | 41.81       | 48.43       | 51.74       | 52.85       | 55.60       | 62.50       | 63.88       | 71.88       | 73.53       |
| 1.914                 | 35                    | 6.141             | 67           | 11.755            | 32.67                   | 34.06       | 35.44       | 36.82       | 38.20       | 40.97       | 47.59       | 50.91       | 52.01       | 54.77       | 61.67       | 63.05       | 71.04       | 72.70       |
| 1.919                 | 37                    | 6.492             | 71           | 12.457            | 31.83                   | 33.21       | 34.59       | 35.98       | 37.36       | 40.13       | 46.75       | 50.07       | 51.17       | 53.93       | 60.83       | 62.21       | 70.21       | 71.87       |
| 1.923                 | 39                    | 6.842             | 75           | 13.158            | 30.98                   | 32.37       | 33.75       | 35.14       | 36.52       | 39.29       | 45.91       | 49.23       | 50.33       | 53.09       | 59.99       | 61.38       | 69.38       | 71.03       |
| 1.931                 | 29                    | 5.088             | 56           | 9.825             | 35.06                   | 36.44       | 37.82       | 39.20       | 40.58       | 43.34       | 49.96       | 53.27       | 54.38       | 57.13       | 64.03       | 65.41       | 73.40       | 75.06       |
| 1.935                 | 31                    | 5.439             | 60           | 10.527            | 34.22                   | 35.60       | 36.98       | 38.36       | 39.74       | 42.50       | 49.12       | 52.44       | 53.54       | 56.30       | 63.19       | 64.58       | 72.57       | 74.23       |
| 1.969                 | 32                    | 5.614             | 63           | 11.053            | 33.65                   | 35.03       | 36.41       | 37.80       | 39.18       | 41.94       | 48.56       | 51.88       | 52.98       | 55.74       | 62.64       | 64.02       | 72.01       | 73.67       |
| 1.971                 | 34                    | 5.965             | 67           | 11.755            | 32.80                   | 34.19       | 35.57       | 36.95       | 38.33       | 41.10       | 47.72       | 51.04       | 52.14       | 54.90       | 61.80       | 63.18       | 71.18       | 72.84       |
| 1.972                 | 36                    | 6.316             | 71           | 12.457            | 31.96                   | 33.34       | 34.72       | 36.11       | 37.49       | 40.26       | 46.88       | 50.20       | 51.30       | 54.06       | 60.96       | 62.35       | 70.34       | 72.00       |
| 1.972                 | 71                    | 12.457            | 140          | 24.562            | 19.59                   | 21.03       | 22.46       | 23.89       | 25.32       | 32.08       | 35.45       | 36.56       | 39.35       | 46.31       | 47.71       | 55.75       | 57.42       |             |
| 1.974                 | 38                    | 6.667             | 75           | 13.158            | 31.11                   | 32.50       | 33.88       | 35.27       | 36.65       | 39.42       | 46.05       | 49.36       | 50.47       | 53.23       | 60.13       | 61.51       | 69.51       | 71.17       |
| 2.000                 | 28                    | 4.912             | 56           | 9.825             | 35.19                   | 36.57       | 37.95       | 39.33       | 40.71       | 43.48       | 50.10       | 53.41       | 54.51       | 57.27       | 64.16       | 65.54       | 73.54       | 75.20       |
| 2.000                 | 30                    | 5.263             | 60           | 10.527            | 34.35                   | 35.73       | 37.11       | 38.49       | 39.87       | 42.64       | 49.26       | 52.57       | 53.67       | 56.43       | 63.33       | 64.71       | 72.71       | 74.36       |
| 2.000                 | 40                    | 7.018             | 80           | 14.036            | 30.11                   | 31.50       | 32.88       | 34.27       | 35.65       | 38.42       | 45.06       | 48.38       | 49.48       | 52.24       | 59.15       | 60.53       | 68.53       | 70.19       |
| 2.000                 | 45                    | 7.895             | 90           | 15.790            | 27.97                   | 29.36       | 30.75       | 32.14       | 33.53       | 36.30       | 42.95       | 46.27       | 47.37       | 50.14       | 57.05       | 58.43       | 66.44       | 68.09       |
| 2.000                 | 56                    | 9.825             | 112          | 19.650            | 23.18                   | 24.59       | 25.99       | 27.39       | 28.79       | 31.59       | 38.26       | 41.60       | 42.71       | 45.48       | 52.40       | 53.79       | 61.81       | 63.47       |
| 2.027                 | 37                    | 6.492             | 75           | 13.158            | 31.24                   | 32.63       | 34.01       | 35.39       | 36.78       | 39.55       | 46.18       | 49.49       | 50.60       | 53.36       | 60.26       | 61.64       | 69.64       | 71.30       |
| 2.029                 | 35                    | 6.141             | 71           | 12.457            | 32.09                   | 33.47       | 34.86       | 36.24       | 37.62       | 40.39       | 47.02       | 50.33       | 51.44       | 54.20       | 61.10       | 62.48       | 70.48       | 72.13       |
| 2.030                 | 33                    | 5.790             | 67           | 11.755            | 32.94                   | 34.32       | 35.70       | 37.09       | 38.46       | 41.23       | 47.86       | 51.17       | 52.28       | 55.03       | 61.93       | 63.31       | 71.31       | 72.97       |
| 2.032                 | 31                    | 5.439             | 63           | 11.053            | 33.78                   | 35.17       | 36.54       | 37.93       | 39.31       | 42.07       | 48.70       | 52.01       | 53.11       | 55.87       | 62.77       | 64.15       | 72.15       | 73.80       |
| 2.051                 | 39                    | 6.842             | 80           | 14.036            | 30.24                   | 31.63       | 33.01       | 34.40       | 35.78       | 38.55       | 45.19       | 48.51       | 49.61       | 52.37       | 59.28       | 60.66       | 68.66       | 70.32       |
| 2.069                 | 29                    | 5.088             | 60           | 10.527            | 34.48                   | 35.86       | 37.24       | 38.63       | 40.00       | 42.77       | 49.39       | 52.71       | 53.81       | 56.57       | 63.46       | 64.84       | 72.84       | 74.50       |
| 2.083                 | 36                    | 6.316             | 75           | 13.158            | 31.37                   | 32.76       | 34.14       | 35.53       | 36.91       | 39.68       | 46.31       | 49.63       | 50.73       | 53.49       | 60.39       | 61.78       | 69.78       | 71.43       |
| 2.088                 | 34                    | 5.965             | 71           | 12.457            | 32.22                   | 33.60       | 34.99       | 36.37       | 37.75       | 40.52       | 47.15       | 50.47       | 51.57       | 54.33       | 61.23       | 62.61       | 70.61       | 72.27       |
| 2.090                 | 67                    | 11.755            | 140          | 24.562            | 18.59                   | 20.05       | 21.50       | 22.94       | 24.38       | 31.14       | 34.51       | 35.62       | 38.41       | 45.31       | 46.70       | 54.70       | 56.37       | 64.37       |
| 2.093                 | 43                    | 7.544             | 90           | 15.790            | 28.22                   | 29.62       | 31.00       | 32.40       | 33.78       | 36.56       | 43.21       | 46.53       | 47.63       | 50.40       | 57.31       | 58.69       | 66.70       | 68.36       |
| 2.094                 | 32                    | 5.614             | 67           | 11.755            | 33.07                   | 34.45       | 35.83       | 37.22       | 38.60       | 41.36       | 47.99       | 51.31       | 52.41       | 55.17       | 62.07       | 63.45       | 71.45       | 73.10       |
| 2.100                 | 30                    | 5.263             | 63           | 11.053            | 33.91                   | 35.30       | 36.68       | 38.06       | 39.44       | 42.21       | 48.83       | 52.15       | 53.25       | 56.01       | 62.90       | 64.29       | 72.29       | 73.94       |
| 2.100                 | 80                    | 14.036            | 168          | 29.475            | 23.54                   | 24.95       | 26.36       | 27.76       | 29.16       | 31.96       | 38.61       | 41.98       | 43.09       | 45.87       | 52.79       | 54.18       | 62.20       | 63.86       |
| 2.105                 | 38                    | 6.667             | 80           | 14.036            | 30.37                   | 31.76       | 33.14       | 34.53       | 35.91       | 38.68       | 45.32       | 48.64       | 49.74       | 52.51       | 59.41       | 60.79       | 68.80       | 70.45       |
| 2.113                 | 53                    | 9.299             | 112          | 19.650            | 23.54                   | 24.95       | 26.36       | 27.76       | 29.16       | 31.96       | 38.61       | 41.98       | 43.09       | 45.87       | 52.79       | 54.18       | 62.20       | 63.86       |
| 2.143                 | 28                    | 4.912             | 60           | 10.527            | 34.61                   | 35.99       | 37.37       | 38.76       | 40.14       | 42.90       | 49.52       | 52.84       | 53.94       | 56.70       | 63.60       | 64.98       | 72.98       | 74.63       |
| 2.143                 | 35                    | 6.141             | 75           | 13.158            | 31.50                   | 32.89       | 34.27       | 35.65       | 37.04       | 39.81       | 46.44       | 49.76       | 50.86       | 53.62       | 60.53       | 61.91       | 69.91       | 71.57       |
| 2.152                 | 33                    | 5.790             | 71           | 12.457            | 32.35                   | 33.73       | 35.12       | 36.50       | 37.88       | 40.65       | 47.28       | 50.60       | 51.70       | 54.46       | 61.36       | 62.75       | 70.75       | 72.40       |
| 2.161                 | 31                    | 5.439             | 67           | 11.755            | 33.20                   | 34.58       | 35.96       | 37.35       | 38.73       | 41.50       | 48.12       | 51.44       | 52.54       | 55.30       | 62.20       | 63.58       | 71.58       | 73.24       |
| 2.162                 | 37                    | 6.492             | 80           | 14.036            | 30.49                   | 31.88       | 33.27       | 34.66       | 36.04       | 38.81       | 45.45       | 48.77       | 49.87       | 52.64       | 59.54       | 60.93       | 68.93       | 70.59       |
| 2.172                 | 29                    | 5.088             | 63           | 11.053            | 34.04                   | 35.43       | 36.81       | 38.19       | 39.57       | 42.34       | 48.96       | 52.28       | 53.38       | 56.14       | 63.04       | 64.42       | 72.42       | 74.07       |
| 2.206                 | 34                    | 5.965             | 75           | 13.158            | 31.63                   | 33.01       | 34.40       | 35.78       | 37.17       | 39.94       | 46.57       | 49.89       | 50.99       | 53.76       | 60.66       | 62.04       | 70.04       | 71.70       |
| 2.219                 | 32                    | 5.614             | 71           | 12.457            | 32.48                   | 33.86       | 35.25       | 36.63       | 38.01       | 40.78       | 47.41       | 50.73       | 51.83       | 54.59       | 61.50       | 62.88       | 70.88       | 72.54       |
| 2.222                 | 36                    | 6.316             | 80           | 14.036            | 30.62                   | 32.01       | 33.40       | 34.79       | 36.17       | 38.94       | 45.58       | 48.90       | 50.01       | 52.77       | 59.68       | 61.06       | 69.06       | 70.72       |
| 2.222                 | 63                    | 11.053            | 140          | 24.562            | 19.05                   | 20.51       | 21.97       | 23.41       | 24.87       | 27.67       | 34.30       | 37.64       | 38.75       | 41.50       | 48.43       | 49.82       | 57.82       | 59.48       |
| 2.233                 | 30                    | 5.263             | 67           | 11.755            | 33.33                   | 34.71       | 36.09       | 37.48       | 38.86       | 41.63       | 48.25       | 51.57       | 52.67       | 55.43       | 62.33       | 63.72       | 71.72       | 73.37       |
| 2.240                 | 50                    | 8.772             | 112          | 19.650            | 23.91                   | 25.32       | 26.73       | 28.14       | 29.54       | 32.34       | 39.03       | 42.37       | 43.48       | 46.25       | 53.15       | 54.57       | 62.60       | 64.26       |
| 2.240                 | 75                    | 13.158            | 168          | 29.475            | 23.91                   | 25.32       | 26.73       | 28.14       | 29.54       | 32.34       | 39.03       | 42.37       | 43.48       | 46.25       | 53.15       | 54.57       | 62.60       | 64.26       |
| 2.250                 | 28                    | 4.912             | 63           | 11.053            | 34.17                   | 35.56       | 36.94       | 38.32       | 39.70       | 42.47       | 49.10       | 52.41       | 53.51       | 56.27       | 63.17       | 64.55       | 72.55       | 74.21       |
| 2.250                 | 40                    | 7.018             | 90           | 15.790            | 28.60                   | 30.00       | 31.38       | 32.78       | 34.16       | 36.95       | 43.60       | 46.92       | 48.03       | 50.79       | 57.70       | 59.09       | 67.10       | 68.76       |
| 2.250                 | 80                    | 14.036            | 180          | 31.580            | 23.91                   | 25.32       | 26.73       | 28.14       | 29.54       | 32.34       | 39.03       | 42.37       | 43.48       | 46.25       | 53.15       | 54.57       | 62.60       | 64.26       |
| 2.273                 | 33                    | 5.790             | 75           | 13.158            | 31.75                   | 33.14       | 34.53       | 35.91       | 37.30       | 40.07       | 46.70       | 50.02       | 51.13       | 53.89       | 60.79       | 62.17       | 70.18       | 71.83       |
| 2.286                 | 35                    | 6.141             | 80           | 14.036            | 30.75                   | 32.14       | 33.53       | 34.91       | 36.30       | 39.07       | 45.71       | 49.03       | 50.14       | 52.90       | 59.81       | 61.19       | 69.20       | 70.85       |
| 2.290                 | 31                    | 5.439             | 71           | 12.457            | 32.61                   | 33.99       | 35.38       | 36.76       | 38.14       | 40.91       | 47.54       | 50.86       | 51.97       | 54.73       | 61.63       | 63.01       | 71.01       | 72.67       |
| 2.308                 | 39                    | 6.842             | 90           | 15.790            | 28.73                   | 30.12       | 31.51       | 32.91       | 34.29       | 37.07       | 43.73       | 47.05       | 48.16       | 50.92       | 57.84       | 59.22       | 67.23       | 68.89       |
| 2.310                 | 29                    |                   |              |                   |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |





## 14M HT500 Selection Table

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 994-14MX                | 1120-14MX   | 1190-14MX   | 1260-14MX   | 1400-14MX   | 1568-14MX   | 1610-14MX   | 1750-14MX   | 1890-14MX   | 1960-14MX   | 2100-14MX   | 2240-14MX   | 2310-14MX   |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.68</b>             | <b>0.73</b> | <b>0.75</b> | <b>0.77</b> | <b>0.81</b> | <b>0.85</b> | <b>0.86</b> | <b>0.89</b> | <b>0.92</b> | <b>0.94</b> | <b>0.96</b> | <b>0.99</b> | <b>1.00</b> |
| 2.507                 | 67                    | 11.755            | 168          | 29.475            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 2.535                 | 71                    | 12.457            | 180          | 31.580            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 2.536                 | 28                    | 4.912             | 71           | 12.457            |                         |             |             | 10.48       | 13.38       | 16.80       | 17.65       | 20.46       | 23.26       | 24.65       | 27.44       | 30.22       | 31.60       |
| 2.571                 | 35                    | 6.141             | 90           | 15.790            |                         |             |             |             |             | 12.71       | 13.61       | 16.52       | 19.38       | 20.80       | 23.62       | 26.43       | 27.83       |
| 2.581                 | 31                    | 5.439             | 80           | 14.036            |                         |             |             |             |             | 11.45       | 14.95       | 15.81       | 18.66       | 21.48       | 22.88       | 25.68       | 28.47       |
| 2.586                 | 29                    | 5.088             | 75           | 13.158            |                         |             |             |             |             | 12.58       | 16.02       | 16.88       | 19.71       | 22.51       | 23.91       | 26.70       | 29.49       |
| 2.605                 | 43                    | 7.544             | 112          | 19.650            |                         |             |             |             |             |             |             |             | 14.57       | 16.07       | 19.01       | 21.89       | 30.88       |
| 2.642                 | 53                    | 9.299             | 140          | 24.562            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 2.647                 | 34                    | 5.965             | 90           | 15.790            |                         |             |             |             |             |             | 12.83       | 13.72       | 16.63       | 19.50       | 20.92       | 23.74       | 27.95       |
| 2.667                 | 30                    | 5.263             | 80           | 14.036            |                         |             |             |             |             | 11.56       | 15.06       | 15.93       | 18.78       | 21.60       | 23.01       | 25.81       | 29.99       |
| 2.667                 | 63                    | 11.053            | 168          | 29.475            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 2.667                 | 75                    | 13.158            | 200          | 35.089            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 2.679                 | 28                    | 4.912             | 75           | 13.158            |                         |             |             |             |             | 12.69       | 16.14       | 17.00       | 19.83       | 22.64       | 24.04       | 26.83       | 31.00       |
| 2.687                 | 67                    | 11.755            | 180          | 31.580            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 2.727                 | 33                    | 5.790             | 90           | 15.790            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 2.759                 | 29                    | 5.088             | 80           | 14.036            |                         |             |             |             |             | 11.67       | 15.18       | 16.05       | 18.90       | 21.72       | 23.13       | 25.93       | 30.12       |
| 2.800                 | 40                    | 7.018             | 112          | 19.650            |                         |             |             |             |             |             |             |             | 14.90       | 16.41       | 19.36       | 22.25       | 23.68       |
| 2.800                 | 50                    | 8.772             | 140          | 24.562            |                         |             |             |             |             |             |             |             |             |             |             |             | 17.47       |
| 2.800                 | 60                    | 10.527            | 168          | 29.475            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 2.800                 | 80                    | 14.036            | 224          | 39.300            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 2.813                 | 32                    | 5.614             | 90           | 15.790            |                         |             |             |             |             |             | 13.05       | 13.95       | 16.87       | 19.73       | 21.16       | 23.99       | 28.20       |
| 2.817                 | 71                    | 12.457            | 200          | 35.089            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 2.857                 | 28                    | 4.912             | 80           | 14.036            |                         |             |             |             |             | 11.78       | 15.30       | 16.17       | 19.02       | 21.85       | 23.25       | 26.06       | 30.24       |
| 2.857                 | 63                    | 11.053            | 180          | 31.580            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 2.872                 | 39                    | 6.842             | 112          | 19.650            |                         |             |             |             |             |             |             |             | 15.01       | 16.52       | 19.47       | 22.36       | 23.80       |
| 2.903                 | 31                    | 5.439             | 90           | 15.790            |                         |             |             |             |             |             | 13.16       | 14.06       | 16.98       | 19.85       | 21.28       | 24.11       | 28.32       |
| 2.917                 | 48                    | 8.421             | 140          | 24.562            |                         |             |             |             |             |             |             |             |             |             |             |             | 17.69       |
| 2.947                 | 38                    | 6.667             | 112          | 19.650            |                         |             |             |             |             |             |             |             | 15.12       | 16.63       | 19.58       | 22.48       | 23.91       |
| 2.985                 | 67                    | 11.755            | 200          | 35.089            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 2.987                 | 75                    | 13.158            | 224          | 39.300            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 3.000                 | 30                    | 5.263             | 90           | 15.790            |                         |             |             |             |             |             | 13.27       | 14.17       | 17.10       | 19.97       | 21.40       | 24.23       | 28.45       |
| 3.000                 | 56                    | 9.825             | 168          | 29.475            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 3.000                 | 60                    | 10.527            | 180          | 31.580            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 3.027                 | 37                    | 6.492             | 112          | 19.650            |                         |             |             |             |             |             |             |             | 15.23       | 16.74       | 19.70       | 22.60       | 24.03       |
| 3.103                 | 29                    | 5.088             | 90           | 15.790            |                         |             |             |             |             |             | 13.38       | 14.28       | 17.21       | 20.09       | 21.52       | 24.35       | 28.57       |
| 3.111                 | 36                    | 6.316             | 112          | 19.650            |                         |             |             |             |             |             |             |             |             | 15.34       | 16.85       | 19.81       | 22.72       |
| 3.111                 | 45                    | 7.895             | 140          | 24.562            |                         |             |             |             |             |             |             |             |             |             |             |             | 18.01       |
| 3.155                 | 71                    | 12.457            | 224          | 39.300            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 3.170                 | 53                    | 9.299             | 168          | 29.475            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 3.175                 | 63                    | 11.053            | 200          | 35.089            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 3.200                 | 35                    | 6.141             | 112          | 19.650            |                         |             |             |             |             |             |             |             |             | 15.45       | 16.97       | 19.93       | 22.83       |
| 3.214                 | 28                    | 4.912             | 90           | 15.790            |                         |             |             |             |             |             | 13.49       | 14.40       | 17.33       | 20.21       | 21.64       | 24.47       | 27.29       |
| 3.214                 | 56                    | 9.825             | 180          | 31.580            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 3.256                 | 43                    | 7.544             | 140          | 24.562            |                         |             |             |             |             |             |             |             |             |             |             | 16.65       | 18.23       |
| 3.294                 | 34                    | 5.965             | 112          | 19.650            |                         |             |             |             |             |             |             |             | 15.56       | 17.08       | 20.04       | 22.95       | 24.39       |
| 3.333                 | 60                    | 10.527            | 200          | 35.089            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 3.343                 | 67                    | 11.755            | 224          | 39.300            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 3.360                 | 50                    | 8.772             | 168          | 29.475            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 3.394                 | 33                    | 5.790             | 112          | 19.650            |                         |             |             |             |             |             |             |             | 15.66       | 17.19       | 20.16       | 23.07       | 24.50       |
| 3.396                 | 53                    | 9.299             | 180          | 31.580            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 3.500                 | 32                    | 5.614             | 112          | 19.650            |                         |             |             |             |             |             |             |             | 15.77       | 17.30       | 20.27       | 23.18       | 24.62       |
| 3.500                 | 40                    | 7.018             | 140          | 24.562            |                         |             |             |             |             |             |             |             |             |             |             | 16.97       | 18.55       |
| 3.500                 | 48                    | 8.421             | 168          | 29.475            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 3.556                 | 63                    | 11.053            | 224          | 39.300            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 3.571                 | 56                    | 9.825             | 200          | 35.089            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 3.590                 | 39                    | 6.842             | 140          | 24.562            |                         |             |             |             |             |             |             |             |             |             |             | 17.08       | 18.66       |
| 3.600                 | 50                    | 8.772             | 180          | 31.580            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 3.613                 | 31                    | 5.439             | 112          | 19.650            |                         |             |             |             |             |             |             |             | 15.88       | 17.41       | 20.38       | 23.30       | 24.74       |
| 3.684                 | 38                    | 6.667             | 140          | 24.562            |                         |             |             |             |             |             |             |             |             |             |             | 17.18       | 18.77       |
| 3.733                 | 30                    | 5.263             | 112          | 19.650            |                         |             |             |             |             |             |             |             | 15.99       | 17.52       | 20.50       | 23.41       | 24.85       |
| 3.733                 | 45                    | 7.895             | 168          | 29.475            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 3.733                 | 60                    | 10.527            | 224          | 39.300            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 3.750                 | 48                    | 8.421             | 180          | 31.580            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 3.774                 | 53                    | 9.299             | 200          | 35.089            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 3.784                 | 37                    | 6.492             | 140          | 24.562            |                         |             |             |             |             |             |             |             |             |             |             | 17.29       | 18.87       |
| 3.862                 | 29                    | 5.088             | 112          | 19.650            |                         |             |             |             |             |             |             | 12.91       | 16.10       | 17.63       | 20.61       | 23.53       | 24.97       |
| 3.889                 | 36                    | 6.316             | 140          | 24.562            |                         |             |             |             |             |             |             |             |             |             |             | 17.39       | 18.98       |
| 3.907                 | 43                    | 7.544             | 168          | 29.475            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 4.000                 | 28                    | 4.912             | 112          | 19.650            |                         |             |             |             |             |             |             |             | 13.01       | 16.21       | 17.74       | 20.72       | 23.65       |
| 4.000                 | 35                    | 6.141             | 140          | 24.562            |                         |             |             |             |             |             |             |             |             |             |             | 17.50       | 19.09       |
| 4.000                 | 45                    | 7.895             | 180          | 31.580            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 4.000                 | 50                    | 8.772             | 200          | 35.089            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 4.000                 | 56                    | 9.825             | 224          | 39.300            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.68</b>             | <b>0.73</b> | <b>0.75</b> | <b>0.77</b> | <b>0.81</b> | <b>0.85</b> | <b>0.86</b> | <b>0.89</b> | <b>0.92</b> | <b>0.94</b> | <b>0.96</b> | <b>0.99</b> | <b>1.00</b> |

\* The length correction factor must be used to determine the proper belt width.





# SELECTION

## 14M HT500 Selection Table (Continued)

| Speed Ratio    | Sprocket Combinations |                   |              |                   | Center Distance, Inches |           |           |           |           |           |           |           |           |           |           |           |           |           |       |
|----------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
|                | Driver                |                   | Driven       |                   | 2380-14MX               | 2450-14MX | 2520-14MX | 2590-14MX | 2660-14MX | 2800-14MX | 3136-14MX | 3304-14MX | 3360-14MX | 3500-14MX | 3850-14MX | 3920-14MX | 4326-14MX | 4410-14MX |       |
|                | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |           |           |           |           |           |           |           |           |           |           |           |           |           |       |
| Length Factor* |                       |                   |              |                   | 1.01                    | 1.02      | 1.03      | 1.04      | 1.05      | 1.07      | 1.12      | 1.14      | 1.14      | 1.16      | 1.19      | 1.20      | 1.24      | 1.25      |       |
| 2.507          | 67                    | 11.755            | 168          | 29.475            |                         |           |           |           |           |           | 27.93     | 31.40     | 32.54     | 35.40     | 42.48     | 43.89     | 52.02     | 53.70     |       |
| 2.535          | 71                    | 12.457            | 180          | 31.580            |                         |           |           |           |           |           | 25.32     | 28.85     | 30.02     | 32.91     | 40.05     | 41.47     | 49.64     | 51.33     |       |
| 2.536          | 28                    | 4.912             | 71           | 12.457            | 32.99                   | 34.38     | 35.76     | 37.15     | 38.53     | 41.31     | 47.94     | 51.26     | 52.36     | 55.12     | 62.03     | 63.41     | 71.41     | 73.07     |       |
| 2.571          | 35                    | 6.141             | 90           | 15.790            | 29.23                   | 30.62     | 32.02     | 33.41     | 34.80     | 37.59     | 44.24     | 47.57     | 48.68     | 51.44     | 58.36     | 59.75     | 67.76     | 69.42     |       |
| 2.581          | 31                    | 5.439             | 80           | 14.036            | 31.26                   | 32.65     | 34.04     | 35.43     | 36.81     | 39.59     | 46.23     | 49.56     | 50.66     | 53.43     | 60.34     | 61.72     | 69.73     | 71.38     |       |
| 2.586          | 29                    | 5.088             | 75           | 13.158            | 32.27                   | 33.66     | 35.04     | 36.43     | 37.81     | 40.59     | 47.23     | 50.55     | 51.65     | 54.41     | 61.32     | 62.70     | 70.71     | 72.37     |       |
| 2.605          | 43                    | 7.544             | 112          | 19.650            | 24.75                   | 26.17     | 27.58     | 28.99     | 30.40     | 33.21     | 39.91     | 43.26     | 44.37     | 47.15     | 54.09     | 55.48     | 63.51     | 65.17     |       |
| 2.642          | 53                    | 9.299             | 140          | 24.562            | 18.67                   | 20.17     | 21.65     | 23.12     | 24.57     | 27.46     | 34.28     | 37.67     | 38.79     | 41.60     | 48.59     | 49.99     | 58.06     | 59.73     |       |
| 2.647          | 34                    | 5.965             | 90           | 15.790            | 29.35                   | 30.75     | 32.14     | 33.54     | 34.93     | 37.71     | 44.37     | 47.70     | 48.81     | 51.57     | 58.49     | 59.88     | 67.89     | 69.55     |       |
| 2.667          | 30                    | 5.263             | 80           | 14.036            | 31.39                   | 32.78     | 34.17     | 35.56     | 36.94     | 39.72     | 46.36     | 49.69     | 50.79     | 53.56     | 60.47     | 61.85     | 69.86     | 71.52     |       |
| 2.667          | 63                    | 11.053            | 168          | 29.475            |                         |           |           |           |           | 21.26     | 28.39     | 31.87     | 33.02     | 35.88     | 42.96     | 44.37     | 52.51     | 54.19     |       |
| 2.667          | 75                    | 13.158            | 200          | 35.089            |                         |           |           |           |           |           | 24.67     | 25.89     | 28.90     | 36.22     | 37.66     | 45.95     | 47.65     |           |       |
| 2.679          | 28                    | 4.912             | 75           | 13.158            | 32.40                   | 33.79     | 35.17     | 36.56     | 37.94     | 40.72     | 47.36     | 50.68     | 51.78     | 54.55     | 61.45     | 62.84     | 70.84     | 72.50     |       |
| 2.687          | 67                    | 11.755            | 180          | 31.580            |                         |           |           |           |           |           | 25.76     | 29.31     | 30.48     | 33.38     | 40.53     | 41.95     | 50.14     | 51.82     |       |
| 2.727          | 33                    | 5.790             | 90           | 15.790            | 29.48                   | 30.88     | 32.27     | 33.66     | 35.05     | 37.84     | 44.50     | 47.83     | 48.94     | 51.70     | 58.62     | 60.01     | 68.02     | 69.68     |       |
| 2.759          | 29                    | 5.088             | 80           | 14.036            | 31.51                   | 32.91     | 34.29     | 35.68     | 37.07     | 39.85     | 46.49     | 49.82     | 50.92     | 53.69     | 60.60     | 61.98     | 69.99     | 71.65     |       |
| 2.800          | 40                    | 7.018             | 112          | 19.650            | 25.11                   | 26.53     | 27.94     | 29.36     | 30.76     | 33.58     | 40.29     | 43.64     | 44.75     | 47.53     | 54.47     | 55.86     | 63.90     | 65.56     |       |
| 2.800          | 50                    | 8.772             | 140          | 24.562            | 19.00                   | 20.51     | 21.99     | 23.46     | 24.92     | 27.81     | 34.65     | 38.04     | 39.16     | 41.97     | 48.97     | 50.36     | 58.44     | 60.11     |       |
| 2.800          | 60                    | 10.527            | 168          | 29.475            |                         |           |           |           |           | 21.59     | 28.74     | 32.22     | 33.37     | 36.23     | 43.33     | 44.74     | 52.89     | 54.57     |       |
| 2.800          | 80                    | 14.036            | 224          | 39.300            |                         |           |           |           |           |           |           |           |           |           | 31.31     | 32.81     | 41.32     | 43.05     |       |
| 2.813          | 32                    | 5.614             | 90           | 15.790            | 29.60                   | 31.00     | 32.39     | 33.79     | 35.18     | 37.97     | 44.63     | 47.96     | 49.07     | 51.83     | 58.75     | 60.14     | 68.15     | 69.81     |       |
| 2.817          | 71                    | 12.457            | 200          | 35.089            |                         |           |           |           |           |           |           | 25.10     | 26.33     | 29.34     | 36.68     | 38.13     | 46.43     | 48.13     |       |
| 2.857          | 28                    | 4.912             | 80           | 14.036            | 31.64                   | 33.03     | 34.42     | 35.81     | 37.20     | 39.98     | 46.62     | 49.95     | 51.05     | 53.82     | 60.73     | 62.12     | 70.12     | 71.78     |       |
| 2.857          | 63                    | 11.053            | 180          | 31.580            |                         |           |           |           |           |           | 26.21     | 29.77     | 30.94     | 33.84     | 41.01     | 42.43     | 50.63     | 52.32     |       |
| 2.872          | 39                    | 6.842             | 112          | 19.650            | 25.23                   | 26.65     | 28.06     | 29.48     | 30.89     | 33.70     | 40.41     | 43.76     | 44.88     | 47.66     | 54.60     | 55.99     | 64.03     | 65.69     |       |
| 2.903          | 31                    | 5.439             | 90           | 15.790            | 29.73                   | 31.13     | 32.52     | 33.92     | 35.31     | 38.09     | 44.76     | 48.09     | 49.19     | 51.96     | 58.88     | 60.27     | 68.29     | 69.95     |       |
| 2.917          | 48                    | 8.421             | 140          | 24.562            | 19.22                   | 20.73     | 22.22     | 23.69     | 25.15     | 28.05     | 34.89     | 38.28     | 39.41     | 42.22     | 49.22     | 50.62     | 58.69     | 60.36     |       |
| 2.947          | 38                    | 6.667             | 112          | 19.650            | 25.34                   | 26.77     | 28.18     | 29.60     | 31.01     | 33.83     | 40.54     | 43.89     | 45.00     | 47.78     | 54.73     | 56.12     | 64.16     | 65.82     |       |
| 2.985          | 67                    | 11.755            | 200          | 35.089            |                         |           |           |           |           |           |           | 25.53     | 26.76     | 29.79     | 37.15     | 38.60     | 46.91     | 48.61     |       |
| 2.987          | 75                    | 13.158            | 224          | 39.300            |                         |           |           |           |           |           |           |           |           |           | 31.86     | 33.37     | 41.90     | 43.64     |       |
| 3.000          | 30                    | 5.263             | 90           | 15.790            | 29.85                   | 31.25     | 32.64     | 34.04     | 35.43     | 38.22     | 44.89     | 48.22     | 49.32     | 52.09     | 59.02     | 60.40     | 68.42     | 70.08     |       |
| 3.000          | 56                    | 9.825             | 168          | 29.475            |                         |           |           |           |           | 22.02     | 29.19     | 32.69     | 33.84     | 36.71     | 43.81     | 45.23     | 53.38     | 55.06     |       |
| 3.000          | 60                    | 10.527            | 180          | 31.580            |                         |           |           |           |           |           | 26.54     | 30.11     | 31.28     | 34.19     | 41.37     | 42.79     | 50.99     | 52.68     |       |
| 3.027          | 37                    | 6.492             | 112          | 19.650            | 25.46                   | 26.89     | 28.31     | 29.72     | 31.13     | 33.95     | 40.66     | 44.02     | 45.13     | 47.91     | 54.86     | 56.25     | 64.29     | 65.95     |       |
| 3.103          | 29                    | 5.088             | 90           | 15.790            | 29.97                   | 31.38     | 32.77     | 34.17     | 35.56     | 38.35     | 45.01     | 48.35     | 49.45     | 52.22     | 59.15     | 60.53     | 68.55     | 70.21     |       |
| 3.111          | 36                    | 6.316             | 112          | 19.650            | 25.58                   | 27.01     | 28.43     | 29.84     | 31.25     | 34.07     | 40.79     | 44.14     | 45.25     | 48.04     | 54.99     | 56.38     | 64.42     | 66.08     |       |
| 3.111          | 45                    | 7.895             | 140          | 24.562            | 19.55                   | 21.07     | 22.56     | 24.03     | 25.49     | 28.40     | 35.25     | 38.65     | 39.77     | 42.59     | 49.59     | 50.99     | 59.07     | 60.75     |       |
| 3.155          | 71                    | 12.457            | 224          | 39.300            |                         |           |           |           |           |           |           |           |           |           | 32.30     | 33.81     | 42.36     | 44.10     |       |
| 3.170          | 53                    | 9.299             | 168          | 29.475            |                         |           |           |           |           |           | 22.35     | 29.54     | 33.03     | 34.19     | 37.06     | 44.18     | 45.59     | 53.75     | 55.44 |
| 3.175          | 63                    | 11.053            | 200          | 35.089            |                         |           |           |           |           |           |           | 25.97     | 27.20     | 30.23     | 37.61     | 39.06     | 47.38     | 49.09     |       |
| 3.200          | 35                    | 6.141             | 112          | 19.650            | 25.70                   | 27.13     | 28.55     | 29.96     | 31.37     | 34.19     | 40.91     | 44.27     | 45.38     | 48.16     | 55.11     | 56.50     | 64.55     | 66.21     |       |
| 3.214          | 28                    | 4.912             | 90           | 15.790            | 30.10                   | 31.50     | 32.90     | 34.29     | 35.69     | 38.48     | 45.14     | 48.48     | 49.58     | 52.35     | 59.28     | 60.66     | 68.68     | 70.34     |       |
| 3.214          | 56                    | 9.825             | 180          | 31.580            |                         |           |           |           |           |           | 26.99     | 30.56     | 31.74     | 34.65     | 41.84     | 43.27     | 51.48     | 53.17     |       |
| 3.256          | 43                    | 7.544             | 140          | 24.562            | 19.77                   | 21.29     | 22.78     | 24.26     | 25.72     | 28.63     | 35.49     | 38.89     | 40.02     | 42.83     | 49.84     | 51.24     | 59.33     | 61.00     |       |
| 3.294          | 34                    | 5.965             | 112          | 19.650            | 25.82                   | 27.25     | 28.67     | 30.09     | 31.50     | 34.32     | 41.04     | 44.39     | 45.51     | 48.29     | 55.24     | 56.63     | 64.67     | 66.34     |       |
| 3.333          | 60                    | 10.527            | 200          | 35.089            |                         |           |           |           |           |           |           | 26.29     | 27.53     | 30.57     | 37.95     | 39.41     | 47.74     | 49.45     |       |
| 3.343          | 67                    | 11.755            | 224          | 39.300            |                         |           |           |           |           |           |           |           |           |           | 32.74     | 34.26     | 42.82     | 44.57     |       |
| 3.360          | 50                    | 8.772             | 168          | 29.475            |                         |           |           |           |           |           | 22.67     | 29.88     | 33.38     | 34.54     | 41.54     | 42.96     | 51.12     | 52.81     |       |
| 3.394          | 33                    | 5.790             | 112          | 19.650            | 25.94                   | 27.37     | 28.79     | 30.21     | 31.62     | 34.44     | 41.16     | 44.52     | 45.63     | 48.42     | 55.37     | 56.76     | 64.80     | 66.47     |       |
| 3.396          | 53                    | 9.299             | 180          | 31.580            |                         |           |           |           |           |           | 27.32     | 30.90     | 32.08     | 35.00     | 42.20     | 43.63     | 51.85     | 53.54     |       |
| 3.500          | 32                    | 5.614             | 112          | 19.650            | 26.06                   | 27.49     | 28.91     | 30.33     | 31.74     | 34.56     | 41.29     | 44.64     | 45.76     | 48.54     | 55.50     | 56.89     | 64.93     | 66.60     |       |
| 3.500          | 40                    | 7.018             | 140          | 24.562            | 20.10                   | 21.62     | 23.12     | 24.60     | 26.07     | 28.98     | 35.85     | 39.25     | 40.38     | 43.20     | 50.21     | 51.61     | 59.71     | 61.38     |       |
| 3.500          | 48                    | 8.421             | 168          | 29.475            |                         |           |           |           |           | 19.71     | 22.89     | 30.11     | 33.61     | 34.77     | 37.65     | 44.78     | 46.20     | 54.37     | 56.06 |
| 3.556          | 63                    | 11.053            | 224          | 39.300            |                         |           |           |           |           |           |           |           |           |           | 33.18     | 34.70     | 43.28     | 45.03     |       |
| 3.571          | 56                    | 9.825             | 200          | 35.089            |                         |           |           |           |           |           | 22.87     | 26.72     | 27.96     | 31.01     | 38.41     | 39.87     | 48.22     | 49.93     |       |
| 3.590          | 39                    | 6.842             | 140          | 24.562            | 20.21                   | 21.73     | 23.23     | 24.71     | 26.18     | 29.10     | 35.97     | 39.37     | 40.50     | 43.32     | 50.34     | 51.74     | 59.83     | 61.51     |       |
| 3.600          | 50                    | 8.772             | 180          | 31.580            |                         |           |           |           |           |           | 27.65     | 31.24     | 32.42     | 35.35     | 42.56     | 43.99     | 52.21     | 53.91     |       |
| 3.613          | 31                    | 5.439             | 112          | 19.650            | 26.17                   | 27.61     | 29.03     | 30.45     | 31.86     | 34.68     | 41.41     | 44.77     | 45.88     | 48.67     | 55.63     | 57.02     | 65.06     | 66.73     |       |
| 3.684          | 38                    | 6.667             | 140          | 24.562            | 20.32                   | 21.84     | 23.34     | 24.83     | 26.30     | 29.21     | 36.09     | 39.49     | 40.62     | 43.44     | 50.46     | 51.86     | 59.96     | 61.63     |       |
| 3.733          | 30                    | 5.263             | 112          | 19.650            | 26.29                   | 27.72     | 29.15     | 30.57     | 31.98     | 34.81     | 41.54     | 44.90     | 46.01     | 48.80     | 55.75     | 57.15     | 65.19     | 66.86     |       |
| 3.733          | 45                    | 7.895             | 168          | 29.475            |                         |           |           |           |           | 20.03     | 23.21     | 30.45     | 33.96     | 35.12     | 38.00     | 45.14     | 46.56     | 54.74     | 56.42 |
| 3.733          | 60                    | 10.527            | 224          | 39.300            |                         |           |           |           |           |           |           |           |           |           | 33.51     | 35.03     | 43.63     | 45.38     |       |
| 3.750          | 48                    | 8.421             | 180          | 31.580            |                         |           |           |           |           |           | 27.87     | 31.47     | 32.65     | 35.58     | 42.79     | 44.22     | 52.45     | 54.15     |       |
| 3.774          | 53                    | 9.299             | 200          | 35.089            |                         |           |           |           |           |           | 23.18     | 27.04     | 28.28     | 31.34     | 38.76     | 40.22     | 48.57     | 50.29     |       |
| 3.784          | 37                    | 6.492             | 140          | 24.562            | 20.43                   | 21.95     | 23.45     | 24.94     | 26.41     | 29.33     | 36.21     | 39.62     | 40.74     | 43.56     | 50.59     | 51.99     | 60.08     | 61.76     |       |
| 3.862          | 29                    | 5.088             | 112          | 19.650            | 26.41                   | 27.84     | 29.27     | 30.69     | 32.10     | 34.93     | 41.66     | 45.02     | 46.14     | 48.92     | 55.88     | 57.27     | 65.32     | 66.98     |       |
| 3.889          | 36                    | 6.316             | 140          | 24.562            | 20.54                   | 22.06     | 23.56     | 25.05     | 26.52     | 29.44     | 36.33     | 39.74     | 40.87     | 43.69     | 50.71     | 52.11     | 60.21     | 61.88     |       |
| 3.907          | 43                    | 7.544             | 168          | 29.475            |                         |           |           |           | </        |           |           |           |           |           |           |           |           |           |       |

# SELECTION



## 14M HT500 Selection Table

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 994-14MX                | 1120-14MX   | 1190-14MX   | 1260-14MX   | 1400-14MX   | 1568-14MX   | 1610-14MX   | 1750-14MX   | 1890-14MX   | 1960-14MX   | 2100-14MX   | 2240-14MX   | 2310-14MX   |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.68</b>             | <b>0.73</b> | <b>0.75</b> | <b>0.77</b> | <b>0.81</b> | <b>0.85</b> | <b>0.86</b> | <b>0.89</b> | <b>0.92</b> | <b>0.94</b> | <b>0.96</b> | <b>0.99</b> | <b>1.00</b> |
| 4.118                 | 34                    | 5.965             | 140          | 24.562            |                         |             |             |             |             |             |             |             |             |             |             | 17.60       | 19.19       |
| 4.167                 | 48                    | 8.421             | 200          | 35.089            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 4.186                 | 43                    | 7.544             | 180          | 31.580            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 4.200                 | 40                    | 7.018             | 168          | 29.475            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 4.226                 | 53                    | 9.299             | 224          | 39.300            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 4.242                 | 33                    | 5.790             | 140          | 24.562            |                         |             |             |             |             |             |             |             |             |             |             | 17.70       | 19.30       |
| 4.308                 | 39                    | 6.842             | 168          | 29.475            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 4.375                 | 32                    | 5.614             | 140          | 24.562            |                         |             |             |             |             |             |             |             |             |             |             | 17.81       | 19.41       |
| 4.421                 | 38                    | 6.667             | 168          | 29.475            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 4.444                 | 45                    | 7.895             | 200          | 35.089            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 4.480                 | 50                    | 8.772             | 224          | 39.300            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 4.500                 | 40                    | 7.018             | 180          | 31.580            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 4.516                 | 31                    | 5.439             | 140          | 24.562            |                         |             |             |             |             |             |             |             |             |             |             | 17.91       | 19.51       |
| 4.541                 | 37                    | 6.492             | 168          | 29.475            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 4.615                 | 39                    | 6.842             | 180          | 31.580            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 4.651                 | 43                    | 7.544             | 200          | 35.089            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 4.667                 | 30                    | 5.263             | 140          | 24.562            |                         |             |             |             |             |             |             |             |             |             |             | 18.02       | 19.62       |
| 4.667                 | 36                    | 6.316             | 168          | 29.475            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 4.667                 | 48                    | 8.421             | 224          | 39.300            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 4.737                 | 38                    | 6.667             | 180          | 31.580            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 4.800                 | 35                    | 6.141             | 168          | 29.475            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 4.828                 | 29                    | 5.088             | 140          | 24.562            |                         |             |             |             |             |             |             |             |             |             |             | 18.12       | 19.73       |
| 4.865                 | 37                    | 6.492             | 180          | 31.580            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 4.941                 | 34                    | 5.965             | 168          | 29.475            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 4.978                 | 45                    | 7.895             | 224          | 39.300            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 5.000                 | 28                    | 4.912             | 140          | 24.562            |                         |             |             |             |             |             |             |             |             |             |             | 18.23       | 19.83       |
| 5.000                 | 36                    | 6.316             | 180          | 31.580            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 5.000                 | 40                    | 7.018             | 200          | 35.089            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 5.091                 | 33                    | 5.790             | 168          | 29.475            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 5.128                 | 39                    | 6.842             | 200          | 35.089            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 5.143                 | 35                    | 6.141             | 180          | 31.580            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 5.209                 | 43                    | 7.544             | 224          | 39.300            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 5.250                 | 32                    | 5.614             | 168          | 29.475            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 5.263                 | 38                    | 6.667             | 200          | 35.089            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 5.294                 | 34                    | 5.965             | 180          | 31.580            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 5.405                 | 37                    | 6.492             | 200          | 35.089            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 5.419                 | 31                    | 5.439             | 168          | 29.475            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 5.455                 | 33                    | 5.790             | 180          | 31.580            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 5.556                 | 36                    | 6.316             | 200          | 35.089            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 5.600                 | 30                    | 5.263             | 168          | 29.475            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 5.600                 | 40                    | 7.018             | 224          | 39.300            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 5.625                 | 32                    | 5.614             | 180          | 31.580            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 5.714                 | 35                    | 6.141             | 200          | 35.089            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 5.744                 | 39                    | 6.842             | 224          | 39.300            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 5.793                 | 29                    | 5.088             | 168          | 29.475            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 5.806                 | 31                    | 5.439             | 180          | 31.580            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 5.882                 | 34                    | 5.965             | 200          | 35.089            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 5.895                 | 38                    | 6.667             | 224          | 39.300            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 6.000                 | 28                    | 4.912             | 168          | 29.475            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 6.000                 | 30                    | 5.263             | 180          | 31.580            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 6.054                 | 37                    | 6.492             | 224          | 39.300            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 6.061                 | 33                    | 5.790             | 200          | 35.089            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 6.207                 | 29                    | 5.088             | 180          | 31.580            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 6.222                 | 36                    | 6.316             | 224          | 39.300            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 6.250                 | 32                    | 5.614             | 200          | 35.089            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 6.400                 | 35                    | 6.141             | 224          | 39.300            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 6.429                 | 28                    | 4.912             | 180          | 31.580            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 6.452                 | 31                    | 5.439             | 200          | 35.089            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 6.588                 | 34                    | 5.965             | 224          | 39.300            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 6.667                 | 30                    | 5.263             | 200          | 35.089            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 6.788                 | 33                    | 5.790             | 224          | 39.300            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 6.897                 | 29                    | 5.088             | 200          | 35.089            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 7.000                 | 32                    | 5.614             | 224          | 39.300            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 7.143                 | 28                    | 4.912             | 200          | 35.089            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 7.226                 | 31                    | 5.439             | 224          | 39.300            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 7.467                 | 30                    | 5.263             | 224          | 39.300            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 7.724                 | 29                    | 5.088             | 224          | 39.300            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 8.000                 | 28                    | 4.912             | 224          | 39.300            |                         |             |             |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>0.68</b>             | <b>0.73</b> | <b>0.75</b> | <b>0.77</b> | <b>0.81</b> | <b>0.85</b> | <b>0.86</b> | <b>0.89</b> | <b>0.92</b> | <b>0.94</b> | <b>0.96</b> | <b>0.99</b> | <b>1.00</b> |

\* The length correction factor must be used to determine the proper belt width.



# SELECTION

## 14M HT500 Selection Table (Continued)

| Speed Ratio           | Sprocket Combinations |                   |              |                   | Center Distance, Inches |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-----------------------|-----------------------|-------------------|--------------|-------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                       | Driver                |                   | Driven       |                   | 2380-14MX               | 2450-14MX   | 2520-14MX   | 2590-14MX   | 2660-14MX   | 2800-14MX   | 3136-14MX   | 3304-14MX   | 3360-14MX   | 3500-14MX   | 3850-14MX   | 3920-14MX   | 4326-14MX   | 4410-14MX   |
|                       | No. of Teeth          | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |
| <b>Length Factor*</b> |                       |                   |              |                   | <b>1.01</b>             | <b>1.02</b> | <b>1.03</b> | <b>1.04</b> | <b>1.05</b> | <b>1.07</b> | <b>1.12</b> | <b>1.14</b> | <b>1.14</b> | <b>1.16</b> | <b>1.19</b> | <b>1.20</b> | <b>1.24</b> | <b>1.25</b> |
| 4.118                 | 34                    | 5.965             | 140          | 24.562            | 20.75                   | 22.28       | 23.79       | 25.28       | 26.75       | 29.68       | 36.57       | 39.98       | 41.11       | 43.93       | 50.96       | 52.36       | 60.46       | 62.14       |
| 4.167                 | 48                    | 8.421             | 200          | 35.089            |                         |             |             |             |             |             | 23.70       | 27.58       | 28.82       | 31.89       | 39.33       | 40.79       | 49.16       | 50.88       |
| 4.186                 | 43                    | 7.544             | 180          | 31.580            |                         |             |             |             |             | 20.81       | 28.42       | 32.03       | 33.21       | 36.15       | 43.38       | 44.82       | 53.06       | 54.76       |
| 4.200                 | 40                    | 7.018             | 168          | 29.475            |                         |             |             | 18.87       | 20.55       | 23.75       | 31.01       | 34.54       | 35.70       | 38.59       | 45.74       | 47.16       | 55.35       | 57.04       |
| 4.226                 | 53                    | 9.299             | 224          | 39.300            |                         |             |             |             |             |             |             |             |             | 26.32       | 34.28       | 35.80       | 44.43       | 46.18       |
| 4.242                 | 33                    | 5.790             | 140          | 24.562            | 20.86                   | 22.39       | 23.90       | 25.39       | 26.86       | 29.79       | 36.68       | 40.10       | 41.23       | 44.05       | 51.08       | 52.49       | 60.59       | 62.26       |
| 4.308                 | 39                    | 6.842             | 168          | 29.475            |                         |             |             | 18.97       | 20.65       | 23.86       | 31.13       | 34.65       | 35.81       | 38.71       | 45.86       | 47.28       | 55.47       | 57.16       |
| 4.375                 | 32                    | 5.614             | 140          | 24.562            | 20.97                   | 22.50       | 24.01       | 25.50       | 26.98       | 29.91       | 36.80       | 40.22       | 41.35       | 44.17       | 51.21       | 52.61       | 60.71       | 62.39       |
| 4.421                 | 38                    | 6.667             | 168          | 29.475            |                         |             |             | 19.08       | 20.75       | 23.97       | 31.24       | 34.77       | 35.93       | 38.82       | 45.98       | 47.40       | 55.60       | 57.29       |
| 4.444                 | 45                    | 7.895             | 200          | 35.089            |                         |             |             |             |             |             | 24.01       | 27.90       | 29.15       | 32.22       | 39.67       | 41.14       | 49.52       | 51.24       |
| 4.480                 | 50                    | 8.772             | 224          | 39.300            |                         |             |             |             |             |             |             |             |             | 26.63       | 34.60       | 36.13       | 44.77       | 46.53       |
| 4.500                 | 40                    | 7.018             | 180          | 31.580            |                         |             |             |             |             | 21.12       | 28.75       | 32.37       | 33.55       | 36.49       | 43.73       | 45.17       | 53.42       | 55.12       |
| 4.516                 | 31                    | 5.439             | 140          | 24.562            | 21.08                   | 22.61       | 24.12       | 25.62       | 27.09       | 30.02       | 36.92       | 40.34       | 41.47       | 44.30       | 51.33       | 52.73       | 60.84       | 62.51       |
| 4.541                 | 37                    | 6.492             | 168          | 29.475            |                         |             |             | 19.18       | 20.86       | 24.07       | 31.35       | 34.88       | 36.04       | 38.94       | 46.10       | 47.52       | 55.72       | 57.41       |
| 4.615                 | 39                    | 6.842             | 180          | 31.580            |                         |             |             |             |             | 21.23       | 28.86       | 32.48       | 33.66       | 36.61       | 43.85       | 45.29       | 53.54       | 55.24       |
| 4.651                 | 43                    | 7.544             | 200          | 35.089            |                         |             |             |             |             | 24.21       | 28.11       | 29.36       | 32.44       | 39.90       | 41.37       | 49.75       | 51.47       |             |
| 4.667                 | 30                    | 5.263             | 140          | 24.562            | 21.19                   | 22.72       | 24.23       | 25.73       | 27.21       | 30.14       | 37.04       | 40.46       | 41.59       | 44.42       | 51.45       | 52.86       | 60.97       | 62.64       |
| 4.667                 | 36                    | 6.316             | 168          | 29.475            |                         |             |             | 19.28       | 20.96       | 24.18       | 31.46       | 35.00       | 36.16       | 39.06       | 46.22       | 47.64       | 55.84       | 57.53       |
| 4.667                 | 48                    | 8.421             | 224          | 39.300            |                         |             |             |             |             |             |             |             |             | 26.84       | 34.82       | 36.35       | 45.00       | 46.76       |
| 4.737                 | 38                    | 6.667             | 180          | 31.580            |                         |             |             |             |             | 21.33       | 28.97       | 32.59       | 33.78       | 36.72       | 43.97       | 45.41       | 53.66       | 55.36       |
| 4.800                 | 35                    | 6.141             | 168          | 29.475            |                         |             |             | 19.38       | 21.06       | 24.29       | 31.58       | 35.11       | 36.27       | 39.17       | 46.34       | 47.76       | 55.96       | 57.65       |
| 4.828                 | 29                    | 5.088             | 140          | 24.562            | 21.30                   | 22.83       | 24.34       | 25.84       | 27.32       | 30.25       | 37.16       | 40.58       | 41.71       | 44.54       | 51.58       | 52.98       | 61.09       | 62.77       |
| 4.865                 | 37                    | 6.492             | 180          | 31.580            |                         |             |             |             |             | 21.43       | 29.08       | 32.70       | 33.89       | 36.84       | 44.09       | 45.52       | 53.78       | 55.48       |
| 4.941                 | 34                    | 5.965             | 168          | 29.475            |                         |             |             | 19.48       | 21.17       | 24.39       | 31.69       | 35.23       | 36.39       | 39.29       | 46.46       | 47.88       | 56.08       | 57.78       |
| 4.978                 | 45                    | 7.895             | 224          | 39.300            |                         |             |             |             |             |             |             |             |             | 27.14       | 35.15       | 36.68       | 45.34       | 47.10       |
| 5.000                 | 28                    | 4.912             | 140          | 24.562            | 21.40                   | 22.94       | 24.45       | 25.95       | 27.43       | 30.37       | 37.28       | 40.70       | 41.83       | 44.66       | 51.70       | 53.10       | 61.22       | 62.89       |
| 5.000                 | 36                    | 6.316             | 180          | 31.580            |                         |             |             |             |             | 21.53       | 29.19       | 32.81       | 34.00       | 36.95       | 44.20       | 45.64       | 53.90       | 55.61       |
| 5.000                 | 40                    | 7.018             | 200          | 35.089            |                         |             |             |             |             |             | 24.52       | 28.43       | 29.68       | 32.77       | 40.24       | 41.71       | 50.11       | 51.83       |
| 5.091                 | 33                    | 5.790             | 168          | 29.475            |                         |             |             | 19.58       | 21.27       | 24.50       | 31.80       | 35.34       | 36.50       | 39.40       | 46.57       | 48.00       | 56.21       | 57.90       |
| 5.128                 | 39                    | 6.842             | 200          | 35.089            |                         |             |             |             |             |             | 24.62       | 28.53       | 29.79       | 32.88       | 40.35       | 41.82       | 50.22       | 51.95       |
| 5.143                 | 35                    | 6.141             | 180          | 31.580            |                         |             |             |             |             | 21.63       | 29.30       | 32.93       | 34.11       | 37.06       | 44.32       | 45.76       | 54.02       | 55.73       |
| 5.209                 | 43                    | 7.544             | 224          | 39.300            |                         |             |             |             |             |             |             |             |             | 27.35       | 35.37       | 36.90       | 45.57       | 47.33       |
| 5.250                 | 32                    | 5.614             | 168          | 29.475            |                         |             |             | 19.69       | 21.38       | 24.61       | 31.91       | 35.45       | 36.62       | 39.52       | 46.69       | 48.12       | 56.33       | 58.02       |
| 5.263                 | 38                    | 6.667             | 200          | 35.089            |                         |             |             |             |             |             | 24.73       | 28.64       | 29.90       | 32.99       | 40.47       | 41.94       | 50.34       | 52.06       |
| 5.294                 | 34                    | 5.965             | 180          | 31.580            |                         |             |             |             |             | 21.74       | 29.41       | 33.04       | 34.23       | 37.18       | 44.44       | 45.88       | 54.15       | 55.85       |
| 5.405                 | 37                    | 6.492             | 200          | 35.089            |                         |             |             |             |             |             | 24.83       | 28.75       | 30.01       | 33.10       | 40.58       | 42.05       | 50.46       | 52.18       |
| 5.419                 | 31                    | 5.439             | 168          | 29.475            |                         |             | 18.00       | 19.79       | 21.48       | 24.71       | 32.03       | 35.57       | 36.73       | 39.64       | 46.81       | 48.24       | 56.45       | 58.14       |
| 5.455                 | 33                    | 5.790             | 180          | 31.580            |                         |             |             |             |             | 21.84       | 29.52       | 33.15       | 34.34       | 37.29       | 44.56       | 45.99       | 54.27       | 55.97       |
| 5.556                 | 36                    | 6.316             | 200          | 35.089            |                         |             |             |             |             |             | 24.93       | 28.85       | 30.11       | 33.21       | 40.70       | 42.17       | 50.58       | 52.30       |
| 5.600                 | 30                    | 5.263             | 168          | 29.475            |                         |             | 18.10       | 19.89       | 21.58       | 24.82       | 32.14       | 35.68       | 36.85       | 39.75       | 46.93       | 48.36       | 56.57       | 58.26       |
| 5.600                 | 40                    | 7.018             | 224          | 39.300            |                         |             |             |             |             |             |             |             | 24.13       | 27.66       | 35.69       | 37.23       | 45.91       | 47.67       |
| 5.625                 | 32                    | 5.614             | 180          | 31.580            |                         |             |             |             |             | 21.94       | 29.62       | 33.26       | 34.45       | 37.41       | 44.67       | 46.11       | 54.39       | 56.09       |
| 5.714                 | 35                    | 6.141             | 200          | 35.089            |                         |             |             |             |             |             | 25.03       | 28.96       | 30.22       | 33.32       | 40.81       | 42.28       | 50.69       | 52.42       |
| 5.744                 | 39                    | 6.842             | 224          | 39.300            |                         |             |             |             |             |             |             |             | 24.23       | 27.76       | 35.80       | 37.34       | 46.02       | 47.79       |
| 5.793                 | 29                    | 5.088             | 168          | 29.475            |                         |             | 18.19       | 19.99       | 21.69       | 24.93       | 32.25       | 35.80       | 36.96       | 39.87       | 47.05       | 48.48       | 56.69       | 58.39       |
| 5.806                 | 31                    | 5.439             | 180          | 31.580            |                         |             |             |             |             | 22.04       | 29.73       | 33.37       | 34.56       | 37.52       | 44.79       | 46.23       | 54.51       | 56.21       |
| 5.882                 | 34                    | 5.965             | 200          | 35.089            |                         |             |             |             |             |             | 25.14       | 29.07       | 30.33       | 33.43       | 40.92       | 42.39       | 50.81       | 52.53       |
| 5.895                 | 38                    | 6.667             | 224          | 39.300            |                         |             |             |             |             |             | 24.32       | 27.86       | 29.12       | 32.18       | 39.51       | 40.97       | 46.14       | 47.90       |
| 6.000                 | 28                    | 4.912             | 168          | 29.475            |                         |             | 18.29       | 20.09       | 21.79       | 25.03       | 32.36       | 35.91       | 37.08       | 39.99       | 47.17       | 48.60       | 56.81       | 58.51       |
| 6.000                 | 30                    | 5.263             | 180          | 31.580            |                         |             |             |             |             | 22.14       | 29.84       | 33.48       | 34.68       | 37.63       | 44.91       | 46.35       | 54.63       | 56.33       |
| 6.054                 | 37                    | 6.492             | 224          | 39.300            |                         |             |             |             |             |             | 24.42       | 27.96       | 29.16       | 32.02       | 39.20       | 40.63       | 46.25       | 48.01       |
| 6.061                 | 33                    | 5.790             | 200          | 35.089            |                         |             |             |             |             |             | 25.24       | 29.17       | 30.43       | 33.53       | 41.03       | 42.51       | 50.93       | 52.65       |
| 6.207                 | 29                    | 5.088             | 180          | 31.580            |                         |             |             |             |             | 22.25       | 29.95       | 33.59       | 34.79       | 37.75       | 45.02       | 46.46       | 54.75       | 56.45       |
| 6.222                 | 36                    | 6.316             | 224          | 39.300            |                         |             |             |             |             |             |             |             | 24.52       | 28.07       | 36.12       | 37.67       | 46.36       | 48.13       |
| 6.250                 | 32                    | 5.614             | 200          | 35.089            |                         |             |             |             |             |             | 25.34       | 29.28       | 30.54       | 33.64       | 41.15       | 42.62       | 51.04       | 52.77       |
| 6.400                 | 35                    | 6.141             | 224          | 39.300            |                         |             |             |             |             |             | 24.62       | 28.17       | 29.37       | 32.23       | 39.37       | 40.84       | 46.48       | 48.24       |
| 6.429                 | 28                    | 4.912             | 180          | 31.580            |                         |             |             |             | 18.70       | 22.35       | 30.06       | 33.71       | 34.90       | 37.86       | 45.14       | 46.58       | 54.87       | 56.57       |
| 6.452                 | 31                    | 5.439             | 200          | 35.089            |                         |             |             |             |             |             | 25.44       | 29.38       | 30.65       | 33.75       | 41.26       | 42.74       | 51.16       | 52.89       |
| 6.588                 | 34                    | 5.965             | 224          | 39.300            |                         |             |             |             |             |             | 23.19       | 24.72       | 28.27       | 31.34       | 37.88       | 39.36       | 46.59       | 48.36       |
| 6.667                 | 30                    | 5.263             | 200          | 35.089            |                         |             |             |             |             |             | 25.55       | 29.49       | 30.76       | 33.86       | 41.37       | 42.85       | 51.28       | 53.01       |
| 6.788                 | 33                    | 5.790             | 224          | 39.300            |                         |             |             |             |             |             | 23.28       | 24.82       | 28.37       | 31.44       | 38.01       | 39.49       | 46.70       | 48.47       |
| 6.897                 | 29                    | 5.088             | 200          | 35.089            |                         |             |             |             |             |             | 25.65       | 29.59       | 30.86       | 33.97       | 41.49       | 42.96       | 51.40       | 53.12       |
| 7.000                 | 32                    | 5.614             | 224          | 39.300            |                         |             |             |             |             |             |             |             | 23.38       | 24.92       | 31.49       | 32.97       | 40.18       | 41.91       |
| 7.143                 | 28                    | 4.912             | 200          | 35.089            |                         |             |             |             |             |             | 25.7        |             |             |             |             |             |             |             |

## Overhung Load Calculations

Overhung load is an important consideration for drive design. Motor and reducer bearings are rated for specific load capacities to achieve calculated life. If the drive design is such that bearing loads are exceeded, life will be proportionally reduced. Likewise, if the drive exerts a lesser load on the bearings, life will be extended. Needless to say, drive design that keeps bearing loads below ratings can pay big dividends.

**BELT PULL:** The basis for overhung load calculation is belt pull. Belt pull is the result of torque being transmitted when the belt exerts a pull on the sprocket diameter.

**EXAMPLE:** 5 hp at 200 RPM is 1,575 inch-pounds of torque. If a 6" diameter sprocket is used, (3 inch radius),  $1,575/3 = 525$  pounds effective belt pull is required. Note that if a larger diameter sprocket is used, belt pull is reduced accordingly.

Belt pull can be calculated using the following formula:

$$\text{Belt Pull (lbs)} = \frac{126,000 \times \text{HP} \times F}{\text{RPM} \times \text{PD}}$$

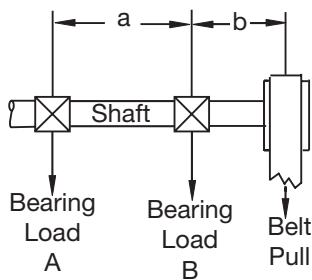
Where: HP = Name plate horsepower of the motor or driver

F = Drive Factor (1.3 for synchronous belt)

RPM = Shaft RPM

PD = Pitch Diameter of Sprocket

**BEARING LOAD:** Belt pull translates into bearing load and is greatly affected by the location of the sprocket on the shaft. Fig. 1 shows an example of what happens as the distance between the centerline of belt pull and the adjacent bearing is extended.



Overhung Sheave

$$\text{Load at B, lbs.} = \frac{\text{Belt Pull} \times (a + b)}{a}$$

Fig. 1

| a     | b    | Belt Pull | Bearing Load "B" |
|-------|------|-----------|------------------|
| 10 in | 1 in | 500 lbs   | 550 lbs          |
| 10 in | 5 in | 500 lbs   | 750 lbs          |

Now consider the same situation for a motor or gearbox. Referring to Fig. 2, it should be obvious that the sprocket should be mounted as close as possible to the face of the gearbox.

As the distance between the gearbox face and sprocket increases, the bearing load is also increased, which leads to a reduction in bearing life.

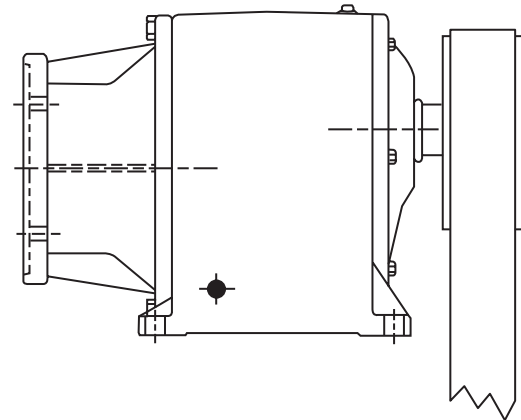


Fig. 2

Another warning from gearbox manufacturers is that the centerline of belt pull should not extend beyond the end of the shaft. Given a choice of a small diameter, wide face-width drive design, or a larger diameter, narrower face-width alternative, the latter would be preferable if bearing life is an important consideration.

### DRIVE DESIGN CONSIDERATIONS

For any given application, there are usually several possible drive alternatives. In some cases, the selection with the smallest diameter sprockets might be the least expensive. As can be seen from the previous discussion, this alternative could be a bad choice. Smaller diameter sprockets lead to higher belt pull; their greater width is also more sensitive to misalignment.



## HT500 Drive Installation

### Sprocket Installation

1. Thoroughly inspect the bore of the sprocket and the tapered surface of the bushing. Any paint, dirt, oil or grease must be removed.
2. Assemble bushing into sprocket. Loosely insert the screws into assembly. At least one sprocket must have flanges.
3. With key in keyseat of shaft, slide sprocket to its desired position with screw heads to the outside. If it is hard to slide the bushing onto the shaft, check shaft for burrs, etc.
4. Line up assembly so as not to misalign belts and tighten screws evenly and progressively. Apply the recommended torque to screws.

### Sprocket Alignment

HT500 sprocket alignment and parallelism of the shafts is very important. Proper alignment helps to equalize the load across the entire belt width, thereby reducing wear and extending belt life.

Place a straightedge against the outside edge of the sprockets and move sprockets until the straightedge touches the two outside and two inside edges of the sprockets. The straightedge should cross the sprockets as close to the shafts as possible. A string can be used if a straightedge is not available. Remember the string should contact at four points as explained above. Note that the precision laser alignment tool (pn **109993**) is an accurate and practical alternative to the straightedge method.

After aligning the sprockets, check the rigidity of the supporting framework. Shafts should be well supported to prevent distortion and a resulting change in the center distance under load. Do not use spring-loaded or weighted idlers. Idler sprockets or pulleys must be locked into position after adjusting belt tension.



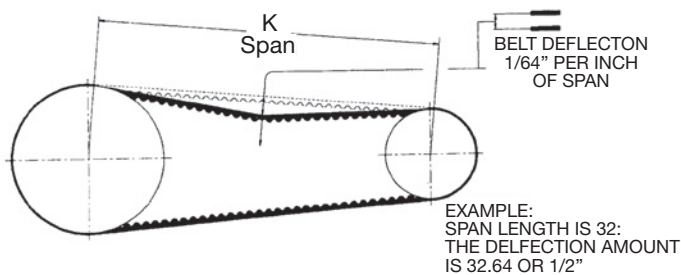
## Belt Installation and Tensioning

Do not pry or otherwise force the belt onto the sprockets, as this can result in permanent damage to the belt. Reduce the center distance between the pulleys so that the belt can be easily installed.

HT500 drives must be properly tensioned. If the belt is too loose, it may jump teeth when heavier loads are applied. If the belt is too tight, belt life will suffer, and bearings will be unnecessarily overloaded. Improper tension can result in excessive drive noise.

### Force/Deflection Tensioning Procedure:

First, measure the span length and calculate the deflection distance of 1/64, per inch span (see illustration).



Apply the calculated deflection force at the center of the span. Measure the deflection with this force applied. Move the center distance until the proper deflection is obtained.

### Sonic Tension Meter Method:

The Sonic Tension Meter (pn **109994**) measures frequency in the belt upon an applied stimulus. The meter will then provide an output of both frequency and calculated static tension. The

static tension is calculated based upon three user inputs: belt width, span (as measured in the above illustration) and the belt's mass constant. Variables for belt mass constants are provided in the following table.

| Belt  |     | Adjusted Belt Weight (g/m) |
|-------|-----|----------------------------|
| HT200 | 5M  | 4.1                        |
| HT200 | 8M  | 5.5                        |
| HT200 | 14M | 9.6                        |
| HT250 | 8M  | 5.8                        |
| HT250 | 14M | 9.7                        |
| HTD   | 8M  | 6.2                        |
| HTD   | 14M | 9.9                        |
| HTD   | 20M | 12.8                       |
| HT500 | 14M | 7.9                        |
| HT500 | 8M  | 4.7                        |

To measure the belt's span vibration:

Input parameters of span length, belt width and the belt mass constant into the meter.

Press the MEASURE button on the meter.

Thumb the belt at center span as if strumming a guitar string.

Hold the microphone 1/4" away from the back of the belt.

The tension meter will display static tension and frequency. Compare the frequency output to the formula below. Note that drive outputs of static tension and frequency are also provided on-line from the ViaSync selection program at [www.ptwizard.com](http://www.ptwizard.com).

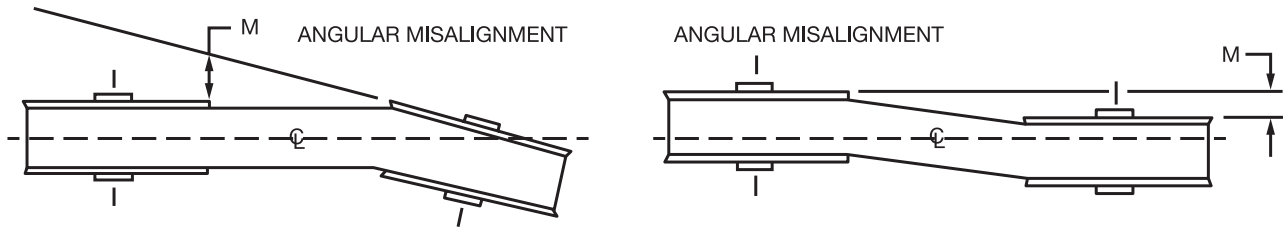
$$T = 4 * M * W * S^2 * f^2 * 10^{-9}$$

- Where:
- T = Belt span tension (Newtons)
  - M = Belt mass constant (g/m)
  - W = Belt width (mm)
  - S = Span length (mm)
  - f = Natural frequency of the belt at applied tension (Hz)



## Drive Alignment

Good tracking of synchronous belts on their sprockets depends upon alignment to within ¼°. This translates to a maximum “M” dimension of 0.05” per foot center distance.



## Drive Tensioning

### Formula Method

The formula method for determining belt tension may be used for greater accuracy.

**Step 1.** Calculate Min. Installation Tension:

Formula 1:

$$T = \frac{20 \text{ (HP)}}{V} + mV^2$$

Where: HP = Horsepower  
 V = Belt Velocity/1000 (in FPM)  
 m = Value in Table 1.  
 Belt Velocity = PD x RPM x 0.262  
 (PD = Pitch Dia. in inches)

Note: For used belt, use 0.7\*T to 0.8\*T instead of the 1.0\*T and 1.1\*T for new belts.

T = Static tension, lbs  
 L = Belt length, inches  
 Y = Factor from Table 2.  
 K = Span length, inches  
 CD = Center distance, inches  
 D = Large pulley diameter, inches  
 d = Small pulley diameter, inches

$$k = \sqrt{CD^2 - \frac{(D-d)^2}{4}}$$

**\*Important!** If formula calculation for “T” is less than “Min T. Value” (Table 2) use the “Min T. Value” for T. Always use the greater T value; i.e. from T Formula 1 or Table 2.

**Step 2.** Calculate Deflection Forces:

Formula 2:

$$MinForce = \frac{1.0 * T + \left(\frac{K}{L}\right) Y}{16}$$

Formula 3:

$$MaxForce = \frac{1.1 * T + \left(\frac{K}{L}\right) Y}{16}$$

## Drive Tensioning

Table 1

|       | Pitch | Width  | m     | Y      | Min Ts |
|-------|-------|--------|-------|--------|--------|
| HT200 | 5 mm  | 15 mm  | 0.28  | 24.9   | 14     |
| HT200 | 5 mm  | 25 mm  | 0.47  | 41.5   | 23     |
| HT200 | 8 mm  | 20 mm  | 0.58  | 34.2   | 19     |
| HT200 | 8 mm  | 30 mm  | 0.88  | 51.3   | 30     |
| HT200 | 8 mm  | 50 mm  | 1.46  | 85.5   | 52     |
| HT200 | 8 mm  | 85 mm  | 2.45  | 145.3  | 95     |
| HT200 | 14 mm | 40 mm  | 1.78  | 93.0   | 77     |
| HT200 | 14 mm | 55 mm  | 2.44  | 127.9  | 120    |
| HT200 | 14 mm | 85 mm  | 3.77  | 197.7  | 206    |
| HT200 | 14 mm | 115 mm | 5.11  | 267.5  | 291    |
| HT200 | 14 mm | 170 mm | 7.55  | 395.4  | 447    |
| HTD   | 20 mm | 115 mm | 7.24  | 367.0  | 392    |
| HTD   | 20 mm | 170 mm | 10.71 | 542.5  | 603    |
| HTD   | 20 mm | 230 mm | 14.49 | 734.0  | 834    |
| HTD   | 20 mm | 290 mm | 18.27 | 925.4  | 1065   |
| HTD   | 20 mm | 340 mm | 21.42 | 1085.0 | 1258   |
| HT250 | 8 mm  | 20     | 0.54  | 42.29  | 19     |
| HT250 | 8 mm  | 30     | 0.81  | 63.44  | 30     |
| HT250 | 8 mm  | 50     | 1.35  | 105.7  | 52     |
| HT250 | 8 mm  | 85     | 2.29  | 179.7  | 95     |
| HT250 | 14 mm | 40     | 1.80  | 93.04  | 77     |
| HT250 | 14 mm | 55     | 2.48  | 127.9  | 120    |
| HT250 | 14 mm | 85     | 3.83  | 197.7  | 206    |
| HT250 | 14 mm | 115    | 2.18  | 267.5  | 291    |
| HT250 | 14 mm | 170    | 7.66  | 395.4  | 448    |
| HT500 | 8 mm  | 12 mm  | 0.33  | 65     | 28     |
| HT500 | 8 mm  | 21 mm  | 0.57  | 113    | 49     |
| HT500 | 8 mm  | 36 mm  | 0.97  | 194    | 84     |
| HT500 | 8 mm  | 62 mm  | 1.68  | 335    | 145    |
| HT500 | 14 mm | 20 mm  | 0.92  | 230    | 119    |
| HT500 | 14 mm | 37 mm  | 1.69  | 4.26   | 220    |
| HT500 | 14 mm | 68 mm  | 3.11  | 782    | 405    |
| HT500 | 14 mm | 90 mm  | 4.12  | 1035   | 536    |
| HT500 | 14 mm | 125 mm | 5.72  | 1438   | 744    |

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets

## Software: Via - SYNC

For any given synchronous drive application, there may be several DODGE HT500, HT200, HTD or DODGE DYNA-SYNC® product combinations that could satisfy the requirements. Finding the best drive can be a time-consuming and frustrating task.

The DODGE VIA-SYNC program provides selections for all of these product offerings for both TAPER-LOCK® and QD\* type sprockets. All relevant data for limited and unlimited drive selections is presented in a format that allows quick and accurate analysis and sorting, whether based upon lowest price, minimum bearing load, highest service factor, etc.

VIA-SYNC calculates speed up drives or drives for nonstandard motor speeds. The most appropriate selection can then be specified, which contains sprocket, bushing and belt sizes and part numbers.

VIA-SYNC has the capability of sharing data with DODGE T-A DISCOVERY™ or DODGE SCD DISCOVERY™ programs.

Dodge VIA-SYNC can be accessed from [www.ptwizard.com](http://www.ptwizard.com). Additional troubleshooting and selection assistance is available at 864-284-5700.

## Troubleshooting

| Problem                      | Cause                           | Remedy   |
|------------------------------|---------------------------------|--|
| <b>Unusual Noise</b>         | Misaligned drive                | Re-adjust alignment                            |
|                              | Hi or Low belt tension          | Adjust to recommended value                    |
|                              | Backside idler                  | Use inside idler                               |
|                              | Worn sprocket                   | Replace sprocket                               |
|                              | Bent sprocket flange            | Replace or repair                              |
|                              | Excessive belt speed            | Redesign drive                                 |
|                              | Incorrect belt profile          | Replace with DODGE belt                        |
|                              | Subminimal spkt. dia.           | Redesign with lager spkts.                     |
|                              | Excessive load                  | Use higher capacity drive                      |
|                              | Weak mntg. structure            |  |
| <b>Loss of Belt Tension</b>  | Weak mntg. structure            | Reinforce mounting structure                   |
|                              | Excessive spkt. wear            | Use wear-resistant sprockets                   |
|                              | Fixed center drive              | Install inside idler                           |
|                              | Excessive debris                | Install adequate drive guard.                  |
|                              | Excessive load                  | Use higher capacity drive                      |
|                              | Subminimal spkt. dia.           | Redesign drive                                 |
|                              | Drive running hot               | Use heat fingers on hot shaft                  |
| Belt degradation             | Protect from excessive heat     |  |
| <b>Belt Edge Wear</b>        | Damaged flanges                 | Repair or replace sprocket                     |
|                              | Low belt tension                | Adjust to recommended value                    |
|                              | Poor tracking                   | Correct alignment                              |
|                              | Guard interference              | Remove obstruction, add idler                  |
| <b>Pre-mature Tooth Wear</b> | Improper tension                | Correct drive tension                          |
|                              | Poor alignment                  | Correct drive alignment                        |
|                              | Wrong belt type                 | Use correct DODGE belt                         |
|                              | Worn sprocket                   | Replace  |
|                              | Damaged sprocket                | Replace  |
|                              | Excessive load                  | Use higher capacity drive                      |
|                              | Dirt or debris                  | Install adequate drive guard                   |
| Sprocket wobble              | Correct bushing installation    |  |
| <b>Tooth Shear</b>           | Shock loads                     | Use higher capacity drive                      |
|                              | Few teeth in mesh               | Redesign drive                                 |
|                              | Worn sprocket                   | Replace  |
|                              | Backside idler                  | Use inside idler                               |
|                              | Wrong belt profile              | Use correct DODGE belt                         |
| Low belt tension             | Adjust to recommended value     |  |
| <b>Tensile Break</b>         | Shock load                      | Use higher capacity drive                      |
|                              | Subminimal spkt. dia.           | Redesign with larger spkts.                    |
|                              | Debris in drive                 | Install adequate drive guard                   |
|                              | Improper belt handling, storage | Do not crimp belt or subject it to sharp bends |

| Problem                  | Cause                                | Remedy                        |
|--------------------------|--------------------------------------|-------------------------------|
| <b>Belt Cracking</b>     | Subminimal spkt. dia.                | Redesign with larger spkts.   |
|                          | Backside idler                       | Install inside idler          |
|                          | Start-up temp below 180 degrees F    | Preheat drive before start-up |
|                          | Extended exposure to harsh chemicals | Protect drive                 |
| <b>Bearing Failure</b>   | Excessive belt tension               | Adjust to recommended value   |
|                          | Drive misalignment                   | Re-adjust alignment           |
|                          | Subminimal spkt. dia.                | Redesign with larger spkts.   |
| <b>Vibration</b>         | Wrong belt profile                   | Install correct DODGE belt    |
|                          | Hi or Low belt tension               | Adjust to recommended value   |
|                          | Loose key or bushing                 | Install per instructions      |
| <b>Belt not Tracking</b> | Loose mounting structure             | Reinforce or tighten          |
|                          | Misalignment                         | Re-adjust alignment           |
|                          | Long center distance                 | Carefully adjust alignment    |
|                          | Mtg. structure bending               | Reinforce mounting structure  |



## Sprockets for Roller Chain

|  |          |
|--|----------|
| <b>Features/Benefits</b> .....         | PT13-2   |
| <b>Specification: TAPER-LOCK, A, B</b> |          |
| #35 Pitch .....                        | PT13-3   |
| #41 Pitch .....                        | PT13-4   |
| #40 Pitch .....                        | PT13-5   |
| #50 Pitch .....                        | PT13-7   |
| #60 Pitch .....                        | PT13-9   |
| #80 Pitch .....                        | PT13-11  |
| #100 Pitch .....                       | PT13-12  |
| #120 Pitch .....                       | PT13-13  |
| #140 Pitch .....                       | PT13-14  |
| #160 Pitch .....                       | PT13-14  |
| Double-Single Sprockets .....          | PT13-15  |
| <b>Selection</b>                       |          |
| Procedure, Example .....               | PT13-16  |
| Basic Horsepower Ratings .....         | PT13-20  |
| <b>Related Products</b>                |          |
| Tensioner Frame .....                  | PT13-28  |
| Idler Sprockets .....                  | PT13-28  |
| Chain Tools .....                      | PT13-29  |
| <b>Engineering/Technical</b>           |          |
| Custom TAPER-LOCK Sprocket Data .....  | PT13-30  |
| Sprocket Pitch Diameters .....         | PT13-31  |
| Sprocket and Chain Dimensions .....    | PT13-32  |
| Installation & Maintenance .....       | PT13-33  |
| Part Number Index .....                | INDEX-1  |
| Keyword Index .....                    | INDEX-43 |

V-Drives

FHP Drives

Drive Component  
Accessories

DYNA-SYNC

HT200/HTD  
Synchronous Drives

HT500  
Synchronous Drives

Roller Chain Sprockets



# FEATURES/BENEFITS

## Sprockets for Roller Chain

FEATURING TAPER-LOCK SPROCKETS . . . . .

### Shaft Ready

For low-speed roller chain drives, DODGE TAPER-LOCK sprockets are the perfect solution for extra muscle.

### Advantages

- Features Compact design
- Installs easily
- Fits shaft securely
- Comes in wide range of stock sizes
- Allows exact ratio/rating required for your operation
- Installation-ready, right from the box
- Meets ANSI standards
- B-reborable and A-plate sprockets available  
Contact Dodge at [www.dodge-pt.com](http://www.dodge-pt.com)

### Hardened Teeth at No Extra Cost

- Through 25 teeth
- #40 through #160
- No price premium

### Advantages

- Offers twice the wear life
- Saves downtime and replacement costs
- Equalizes wear between large and small sprocket
- Offers greater resistance against abrasive wear
- Extends chain life



DoubleStrand  
TAPER-LOCK Sprocket



Single  
TAPER-LOCK Sprocket



Double-Single  
TAPER-LOCK Sprocket

### HARDENED TOOTH SPROCKETS LIKE THIS



With Hardened Tooth Sprockets

### Other Sprocket Types From Dodge



B-Reborable  
Sprockets



A-Plate  
Sprockets

### AVOID SPROCKET WEAR LIKE THIS



Without Hardened Tooth Sprockets

## Simple Mounting



### Easy On

- Insert busing into sprocket.
- Match holes (not threads)
- Put screws into holes that are farthest apart.
- Slip unit onto shaft.
- Set drive alignment and tighten screws



### Easy On

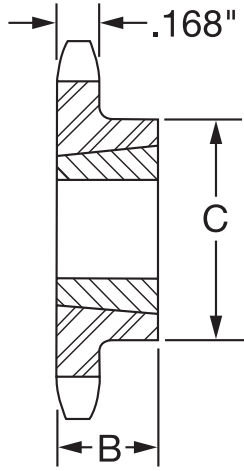
- Take both screws out entirely.
- Insert one screw into hole that is threaded in the bushing only.
- Use as jackscrew to disengage bushing.



# SPECIFICATION



## No. 35 for 3/8" Pitch Single Strand Chain



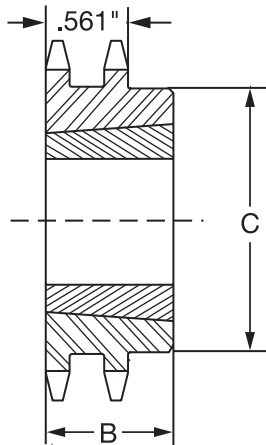
TYPE BTL

### TAPER-LOCK Sprockets

| No. of Teeth | Spkt. O.D. | Description   | Part No. | Wt. w/o Bush. | C Hub Dia. | Bore Range |       | B   |
|--------------|------------|---------------|----------|---------------|------------|------------|-------|-----|
|              |            |               |          |               |            | Min.       | Max.  |     |
| 18           | 2.352      | 35BTL18-1008  | 100350   | 0.5           | 1.88 ◊     | 1/2        | 1     | .88 |
| 19           | 2.472      | 35BTL19-1008  | 100351   | 0.6           | 1.81       |            |       |     |
| 20           | 2.593      | 35BTL20-1008  | 100352   | 0.7           | 1.94       |            |       |     |
| 21           | 2.713      | 35BTL21-1008  | 100353   | 0.8           | 2.06       |            |       |     |
| 22           | 2.833      | 35BTL22-1210  | 100354   | 0.9           | 2.38 ◊     | 1/2        | 1-1/4 | 1.0 |
| 23           | 2.954      | 35BTL23-1210  | 100343   | 1.0           | 2.88 ◊     |            |       |     |
| 24           | 3.074      | 35BTL24-1210  | 100355   | 1.0           | 2.88       |            |       |     |
| 25           | 3.194      | 35BTL25-1210  | 100344   | 1.3           | 2.88       |            |       |     |
| 26           | 3.314      | 35BTL26-1610  | 100356   | 1.3           | 2.88 ◊     | 1/2        | 1-5/8 | 1.0 |
| 28           | 3.553      | 35BTL28-1610  | 100345   | 1.3           | 2.88       |            |       |     |
| 30           | 3.793      | 35BTL30-1610  | 100357   | 1.4           | 3.13       |            |       |     |
| 32           | 4.032      | 35BTL32-1610  | 100358   | 1.5           | 3.25       |            |       |     |
| 35           | 4.392      | 35BTL35-1610  | 100359   | 1.6           | 3.25       |            |       |     |
| 36           | 4.511      | 35BTL36-1610  | 100346   | 1.6           | 3.25       |            |       |     |
| 40           | 4.990      | 35BTL40-1610  | 100360   | 2.1           | 3.25       |            |       |     |
| 42           | 5.229      | 35BTL42-1610  | 100347   | 2.2           | 3.25       |            |       |     |
| 45           | 5.588      | 35BTL45-1610  | 100361   | 2.3           | 3.25       |            |       |     |
| 48           | 5.946      | 35BTL48-1610  | 100362   | 2.5           | 3.25       |            |       |     |
| 54           | 6.663      | 35BTL54-1610  | 100363   | 2.8           | 3.25       | 1/2        | 1-5/8 | 1.0 |
| 60           | 7.380      | 35BTL60-1610  | 100364   | 3.2           | 3.25       |            |       |     |
| 70           | 8.575      | 35BTL70-1610  | 100365   | 3.3           | 3.25       |            |       |     |
| 72           | 8.814      | 35BTL72-1610  | 100348   | 4.1           | 3.25       |            |       |     |
| 80           | 9.770      | 35BTL80-1610  | 100366   | 4.2           | 3.25       |            |       |     |
| 84           | 10.247     | 35BTL84-1610  | 100349   | 5.1           | 3.25       |            |       |     |
| 96           | 11.680     | 35BTL96-1610  | 100367   | 6.2           | 3.25       |            |       |     |
| 112          | 13.590     | 35BTL112-1610 | 100368   | 8.0           | 3.25       |            |       |     |

◊ Hub grooved for chain clearance.

## No. 35-2 for 3/8" Pitch Double Strand Chain



TYPE BTL

### TAPER-LOCK-Double

| No. of Teeth | Spkt. O.D. | Description +  | Part No. | Wt. w/o Bush. | Bore Range |       | B    | C Hub Dia. |
|--------------|------------|----------------|----------|---------------|------------|-------|------|------------|
|              |            |                |          |               | Min.       | Max.  |      |            |
| 19           | 2.472      | D35BTL19H-1008 | 101150   | .6            | 1/2        | 1     | 0.88 | 1.810      |
| 20           | 2.593      | D35BTL20H-1008 | 101151   | .8            | 1/2        | 1     | 0.88 | 1.880      |
| 21           | 2.713      | D35BTL21H-1008 | 101152   | 1.4           | 1/2        | 1     | 0.88 | 1.810      |
| 22           | 2.833      | D35BTL22H-1008 | 101153   | 1.7           | 1/2        | 1     | 0.88 | 1.810      |
| 24           | 3.074      | D35BTL24H-1210 | 101154   | 1.8           | 1/2        | 1-1/4 | 1.00 | 2.470      |
| 26           | 3.314      | D35BTL26-1210  | 101155   | 2.0           | 1/2        | 1-1/4 | 1.00 | 2.625      |
| 30           | 3.793      | D35BTL30-1610  | 101156   | 1.8           | 1/2        | 1-5/8 | 1.00 | 3.125      |
| 32           | 4.032      | D35BTL32-1610  | 101157   | 2.0           | 1/2        | 1-5/8 | 1.00 | 3.250      |
| 35           | 4.392      | D35BTL35-1610  | 101158   | 2.3           | 1/2        | 1-5/8 | 1.00 | 3.250      |
| 40           | 4.990      | D35BTL40-1610  | 101159   | 2.9           | 1/2        | 1-5/8 | 1.00 | 3.250      |
| 45           | 5.588      | D35BTL45-1610  | 101160   | 3.2           | 1/2        | 1-5/8 | 1.00 | 3.250      |
| 48           | 5.946      | D35BTL48-1610  | 101161   | 3.5           | 1/2        | 1-5/8 | 1.00 | 3.625      |
| 54           | 6.663      | D35BTL54-1610  | 101162   | 3.9           | 1/2        | 1-5/8 | 1.00 | 3.625      |
| 70           | 8.575      | D35BTL70-1610  | 101164   | 6.3           | 1/2        | 1-5/8 | 1.00 | 3.625      |
| 80           | 9.770      | D35BTL80-1610  | 101165   | 7.9           | 1/2        | 1-5/8 | 1.00 | 3.625      |
| 96           | 11.680     | D35BTL96-1610  | 101166   | 9.9           | 1/2        | 1-5/8 | 1.00 | 3.625      |
| 112          | 13.590     | D35BTL112-1610 | 101167   | 10.9          | 1/2        | 1-5/8 | 1.00 | 3.625      |

+ "H" suffix indicates Hardened Teeth.

|                                  |                            |                                  |                                       |
|----------------------------------|----------------------------|----------------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT14-2 | SELECTIONS<br>PAGE PT14-16 | RELATED PRODUCTS<br>PAGE PT14-28 | ENGINEERING/TECHNICAL<br>PAGE PT14-30 |
|----------------------------------|----------------------------|----------------------------------|---------------------------------------|

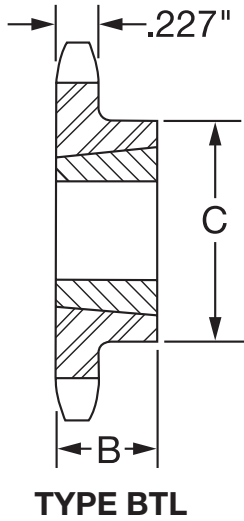




## SPECIFICATION

### No. 41 for 1/2" Pitch Single Strand Chain

#### TAPER-LOCK Sprockets



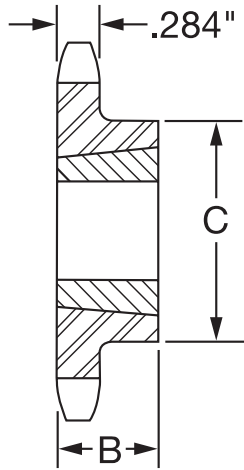
| No. of Teeth | Spkt. O.D. | Description  | Part No.      | Wt. w/o Bush. | C Hub Dia.      | Bore Range |       | B    |
|--------------|------------|--------------|---------------|---------------|-----------------|------------|-------|------|
|              |            |              |               |               |                 | Min.       | Max.  |      |
| 14           | 2.490      | 41BTL14-1008 | <b>100369</b> | .5            | 1.87 $\diamond$ | 1/2        | 1     | 0.88 |
| 15           | 2.652      | 41BTL15-1008 | <b>100370</b> | .6            | 1.87            |            |       |      |
| 16           | 2.814      | 41BTL16-1008 | <b>100371</b> | .7            | 2.00            |            |       |      |
| 17           | 2.974      | 41BTL17-1210 | <b>100372</b> | .8            | 2.38 $\diamond$ | 1/2        | 1-1/4 | 1.00 |
| 18           | 3.136      | 41BTL18-1210 | <b>100373</b> | 1.0           | 2.38 $\diamond$ |            |       |      |
| 19           | 3.292      | 41BTL19-1210 | <b>100374</b> | 1.2           | 2.50            |            |       |      |
| 20           | 3.457      | 41BTL20-1610 | <b>100375</b> | 1.3           | 2.88 $\diamond$ | 1/2        | 1-5/8 | 1.00 |
| 21           | 3.618      | 41BTL21-1610 | <b>100376</b> | 1.4           | 3.00 $\diamond$ |            |       |      |
| 22           | 3.778      | 41BTL22-1610 | <b>100377</b> | 1.5           | 3.00            |            |       |      |
| 23           | 3.938      | 41BTL23-1610 | <b>100392</b> | 1.6           | 3.00            |            |       |      |
| 24           | 4.098      | 41BTL24-1610 | <b>100378</b> | 1.6           | 3.00            |            |       |      |
| 25           | 4.258      | 41BTL25-1610 | <b>100393</b> | 1.7           | 3.00            |            |       |      |
| 26           | 4.418      | 41BTL26-1610 | <b>100379</b> | 1.7           | 3.00            |            |       |      |
| 28           | 4.738      | 41BTL28-1610 | <b>100380</b> | 1.9           | 3.00            | 1/2        | 1-5/8 | 1.00 |
| 30           | 5.057      | 41BTL30-1610 | <b>100381</b> | 2.0           | 3.00            |            |       |      |
| 32           | 5.376      | 41BTL32-1610 | <b>100382</b> | 2.1           | 3.00            |            |       |      |
| 35           | 5.856      | 41BTL35-1610 | <b>100383</b> | 2.5           | 3.00            |            |       |      |
| 36           | 6.015      | 41BTL36-1610 | <b>100394</b> | 2.6           | 3.00            |            |       |      |
| 40           | 6.653      | 41BTL40-1610 | <b>100384</b> | 2.9           | 3.00            |            |       |      |
| 45           | 7.450      | 41BTL45-1610 | <b>100385</b> | 3.7           | 3.00            |            |       |      |
| 48           | 7.928      | 41BTL48-1610 | <b>100386</b> | 4.3           | 3.00            |            |       |      |
| 54           | 8.725      | 41BTL54-1610 | <b>100387</b> | 5.1           | 3.00            |            |       |      |
| 60           | 9.840      | 41BTL60-1610 | <b>100388</b> | 5.9           | 3.00            |            |       |      |
| 70           | 11.433     | 41BTL70-1610 | <b>100389</b> | 7.6           | 3.00            |            |       |      |
| 72           | 11.752     | 41BTL72-1610 | <b>100395</b> | 8.4           | 3.00            |            |       |      |
| 80           | 13.026     | 41BTL80-1610 | <b>100390</b> | 9.8           | 3.00            |            |       |      |
| 96           | 15.573     | 41BTL96-1610 | <b>100391</b> | 11.3          | 3.00            |            |       |      |

$\diamond$  Hub grooved for chain clearance.

# SPECIFICATION



## No. 40 for 1/2" Pitch Single Strand Chain



TYPE BTL

### TAPER-LOCK Sprockets

| No. Teeth | Spkt. O.D. | Description + | Part No.      | Wt. w/o Bush. | C Hub Dia.      | Bore Range |         | B    |
|-----------|------------|---------------|---------------|---------------|-----------------|------------|---------|------|
|           |            |               |               |               |                 | Min.       | Max.    |      |
| 14        | 2.490      | 40BTL14H-1008 | <b>100500</b> | 0.4           | 1.81 $\diamond$ | 1/2        | 1       | 0.88 |
| 15        | 2.652      | 40BTL15H-1008 | <b>100501</b> | 0.4           | 1.81            |            |         |      |
| 16        | 2.814      | 40BTL16H-1008 | <b>100502</b> | 0.5           | 1.94            |            |         |      |
| 17        | 2.974      | 40BTL17H-1210 | <b>100503</b> | 0.5           | 2.38 $\diamond$ | 1/2        | 1-1/4   | 1.00 |
| 18        | 3.136      | 40BTL18H-1210 | <b>100504</b> | 0.7           | 2.47 $\diamond$ |            |         |      |
| 19        | 3.292      | 40BTL19H-1210 | <b>100505</b> | 0.8           | 2.47            |            |         |      |
| 20        | 3.457      | 40BTL20H-1610 | <b>100506</b> | 0.8           | 2.78 $\diamond$ | 1/2        | 1-11/16 | 1.00 |
| 21        | 3.618      | 40BTL21H-1610 | <b>100507</b> | 0.8           | 2.78 $\diamond$ |            |         |      |
| 22        | 3.778      | 40BTL22H-1610 | <b>100508</b> | .8            | 2.78            |            |         |      |
| 23        | 3.938      | 40BTL23H-1610 | <b>100509</b> | 1.2           | 3.00            | 1/2        | 1-11/16 | 1.00 |
| 24        | 4.098      | 40BTL24H-1610 | <b>100510</b> | 1.5           | 3.25            |            |         |      |
| 25        | 4.258      | 40BTL25H-1610 | <b>100511</b> | 1.6           | 3.25            |            |         |      |
| 26        | 4.418      | 40BTL26-1610  | <b>100512</b> | 1.5           | 3.25            | 1/2        | 1-11/16 | 1.00 |
| 27        | 4.578      | 40BTL27-1610  | <b>104700</b> | 1.5           | 3.25            |            |         |      |
| 28        | 4.738      | 40BTL28-1610  | <b>100513</b> | 1.5           | 3.00            |            |         |      |
| 29        | 4.898      | 40BTL29-1610  | <b>104701</b> | 1.6           | 3.00            | 1/2        | 1-11/16 | 1.00 |
| 30        | 5.057      | 40BTL30-1610  | <b>100514</b> | 1.7           | 3.00            |            |         |      |
| 32        | 5.376      | 40BTL32-1610  | <b>100515</b> | 2.0           | 3.00            |            |         |      |
| 33        | 5.536      | 40BTL33-1610  | <b>104702</b> | 2.1           | 3.00            | 1/2        | 1-11/16 | 1.00 |
| 34        | 5.696      | 40BTL34-1610  | <b>104703</b> | 2.3           | 3.00            |            |         |      |
| 35        | 5.856      | 40BTL35-1610  | <b>100516</b> | 2.4           | 3.00            |            |         |      |
| 36        | 6.015      | 40BTL36-1610  | <b>100517</b> | 2.4           | 3.00            | 1/2        | 1-11/16 | 1.00 |
| 40        | 6.653      | 40BTL40-1610  | <b>100518</b> | 2.8           | 3.00            |            |         |      |
| 42        | 6.972      | 40BTL42-1610  | <b>100519</b> | 3.0           | 3.00            |            |         |      |
| 44        | 7.291      | 40BTL44-1610  | <b>104707</b> | 3.2           | 3.00            | 1/2        | 1-11/16 | 1.00 |
| 45        | 7.450      | 40BTL45-1610  | <b>100520</b> | 3.8           | 3.00            |            |         |      |
| 48        | 7.928      | 40BTL48-1610  | <b>100521</b> | 3.9           | 3.00            |            |         |      |
| 50        | 8.248      | 40BTL50-1610  | <b>104709</b> | 4.5           | 3.00            | 1/2        | 1-11/16 | 1.00 |
| 54        | 8.725      | 40BTL54-1610  | <b>100522</b> | 5.0           | 3.00            |            |         |      |
| 60        | 9.840      | 40BTL60-1610  | <b>100523</b> | 6.1           | 3.00            |            |         |      |
| 70        | 11.433     | 40BTL70-2012  | <b>100524</b> | 8.6           | 3.56            | 1/2        | 2       | 1.25 |
| 72        | 11.752     | 40BTL72-2012  | <b>100525</b> | 8.7           | 3.56            |            |         |      |
| 80        | 13.026     | 40BTL80-2012  | <b>100526</b> | 10.9          | 3.56            |            |         |      |
| 84        | 13.663     | 40BTL84-2012  | <b>100527</b> | 11.8          | 3.56            | 1/2        | 2-1/2   | 1.75 |
| 96        | 15.573     | 40BTL96-2012  | <b>100528</b> | 13.7          | 3.56            |            |         |      |
| 112       | 18.121     | 40BTL112-2517 | <b>100529</b> | 21.3          | 4.25            |            |         |      |

$\diamond$  Hub grooved for chain clearance.  
 + "H" suffix indicates Hardened Teeth.

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

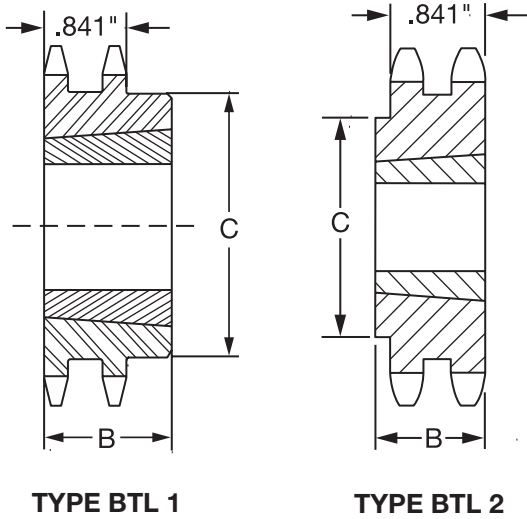
Roller Chain Sprockets

|                                  |                            |                                  |                                       |
|----------------------------------|----------------------------|----------------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT14-2 | SELECTIONS<br>PAGE PT14-16 | RELATED PRODUCTS<br>PAGE PT14-28 | ENGINEERING/TECHNICAL<br>PAGE PT14-30 |
|----------------------------------|----------------------------|----------------------------------|---------------------------------------|



## SPECIFICATION

### No. 40-2 for 1/2" Pitch Double Strand Chain



#### TAPER-LOCK Sprockets

| No. of Teeth | Spkt. O.D. | Description +   | Part No.      | Wt. w/o Bush. | C Hub Dia. | Bore Range |         | B    |
|--------------|------------|-----------------|---------------|---------------|------------|------------|---------|------|
|              |            |                 |               |               |            | Min.       | Max.    |      |
| 15           | 2.652      | D40BTL15H-1008• | <b>101001</b> | 0.5           | 1.81       |            |         |      |
| 16           | 2.814      | D40BTL16H-1008  | <b>101002</b> | 0.7           | 1.27       | 1/2        | 1       | 0.88 |
| 17           | 2.974      | D40BTL17H-1008  | <b>101003</b> | 0.8           | 1.27       |            |         |      |
| 18           | 3.136      | D40BTL18H-1210  | <b>101004</b> | 0.7           | 2.29       | 1/2        | 1-1/4   | 1.00 |
| 19           | 3.292      | D40BTL19H-1210  | <b>101005</b> | 0.9           | 2.47       |            |         |      |
| 20           | 3.457      | D40BTL20H-1610  | <b>101006</b> | 1.1           | 3.25       |            |         |      |
| 21           | 3.618      | D40BTL21H-1610  | <b>101007</b> | 1.1           | 2.69       | 1/2        | 1-11/16 | 1.00 |
| 23           | 3.938      | D40BTL23H-1610• | <b>101008</b> | 1.4           | 3.00       |            |         |      |
| 24           | 4.098      | D40BTL24H-1610• | <b>104822</b> | 1.6           | 3.25       |            |         |      |
| 25           | 4.258      | D40BTL25H-2012  | <b>101009</b> | 1.8           | 3.42       |            |         |      |
| 26           | 4.418      | D40BTL26-2012•  | <b>104823</b> | 2.3           | 3.56       | 1/2        | 2-1/8   | 1.25 |
| 30           | 5.057      | D40BTL30-2012•  | <b>101010</b> | 3.6           | 3.56       |            |         |      |
| 36           | 6.015      | D40BTL36-2012•  | <b>101011</b> | 5.9           | 3.56       |            |         |      |
| 42           | 6.972      | D40CTL42-2517   | <b>101012</b> | 7.4           |            |            |         |      |
| 45           | 7.450      | D40BTL45-2517•  | <b>104828</b> | 8.5           |            |            |         |      |
| 48           | 7.928      | D40BTL48-2517•  | <b>101013</b> | 9.4           |            |            |         |      |
| 52           | 8.566      | D40BTL52-2517   | <b>101014</b> | 11.5          |            |            |         |      |
| 60           | 9.840      | D40BTL60-2517•  | <b>101015</b> | 15.5          |            | 1/2        | 2-11/16 | 1.75 |
| 68           | 11.115     | D40BTL68-2517•  | <b>101016</b> | 20.5          | 4.25       |            |         |      |
| 76           | 12.389     | D40BTL76-2517•  | <b>101017</b> | 26.5          |            |            |         |      |
| 84           | 13.663     | D40BTL84-2517•  | <b>101018</b> | 32.0          |            |            |         |      |
| 95           | 15.414     | D40BTL95-2517•  | <b>101019</b> | 36.0          |            |            |         |      |
| 102          | 16.528     | D40BTL102-2517• | <b>101020</b> | 44.0          |            |            |         |      |

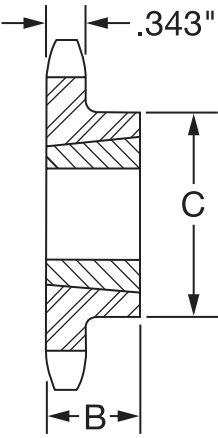
+ "H" suffix indicates Hardened Teeth.

• BTL2

# SPECIFICATION



## No. 50 for 5/8" Pitch Single Strand Chain



**TYPE BTL**

### TAPER-LOCK Sprockets

| No. of Teeth | Spkt. O.D. | Description   | Part No.      | Wt. w/o Bush. | C Hub Dia.      | Bore Range |         | B    |     |       |      |
|--------------|------------|---------------|---------------|---------------|-----------------|------------|---------|------|-----|-------|------|
|              |            |               |               |               |                 | Min.       | Max.    |      |     |       |      |
| 12           | 2.708      | 50BTL12H-1008 | <b>100530</b> | 0.5           | 1.81 $\diamond$ | 1/2        | 1       | 0.88 |     |       |      |
| 13           | 2.991      | 50BTL13H-1008 | <b>100531</b> | 0.5           | 1.81            |            |         |      |     |       |      |
| 14           | 3.113      | 50BTL14H-1008 | <b>100532</b> | 0.6           | 1.81            |            |         |      |     |       |      |
| 15           | 3.315      | 50BTL15H-1210 | <b>100533</b> | 0.6           | 2.47 $\diamond$ | 1/2        | 1-1/4   | 1.00 |     |       |      |
| 16           | 3.517      | 50BTL16H-1610 | <b>100534</b> | 0.8           | 2.78 $\diamond$ | 1/2        | 1-11/16 | 1.00 |     |       |      |
| 17           | 3.713      | 50BTL17H-1610 | <b>100535</b> | 1.1           | 2.78 $\diamond$ |            |         |      |     |       |      |
| 18           | 3.919      | 50BTL18H-1610 | <b>100536</b> | 1.2           | 2.84            |            |         |      |     |       |      |
| 19           | 4.121      | 50BTL19H-1610 | <b>100537</b> | 1.3           | 3.03            |            |         |      |     |       |      |
| 20           | 4.321      | 50BTL20H-1610 | <b>100538</b> | 1.4           | 3.25            |            |         |      |     |       |      |
| 21           | 4.522      | 50BTL21H-1610 | <b>100539</b> | 1.5           | 3.25            | 1/2        | 2-1/8   | 1.25 |     |       |      |
| 22           | 4.722      | 50BTL22H-1610 | <b>100540</b> | 1.6           | 3.25            |            |         |      |     |       |      |
| 23           | 4.923      | 50BTL23H-2012 | <b>100541</b> | 2.2           | 3.56            |            |         |      |     |       |      |
| 24           | 5.123      | 50BTL24H-2012 | <b>100542</b> | 2.4           |                 |            |         |      |     |       |      |
| 25           | 5.323      | 50BTL25H-2012 | <b>100543</b> | 2.4           |                 |            |         |      |     |       |      |
| 26           | 5.523      | 50BTL26-2012  | <b>100544</b> | 2.5           | 4.00            |            |         |      | 1/2 | 2-3/8 | 1.25 |
| 27           | 5.723      | 50BTL27-2012  | <b>100675</b> | 2.8           | 4.00            |            |         |      | 1/2 | 2-1/8 | 1.25 |
| 28           | 5.922      | 50BTL28-2012  | <b>100545</b> | 3.0           |                 |            |         |      |     |       |      |
| 30           | 6.321      | 50BTL30-2012  | <b>100546</b> | 3.2           | 3.56            | 1/2        | 2-1/8   | 1.25 |     |       |      |
| 32           | 6.721      | 50BTL32-2012  | <b>100547</b> | 3.5           |                 |            |         |      |     |       |      |
| 35           | 7.319      | 50BTL35-2012  | <b>100548</b> | 4.2           |                 |            |         |      |     |       |      |
| 36           | 7.519      | 50BTL36-2012  | <b>100549</b> | 4.7           |                 |            |         |      |     |       |      |
| 40           | 8.316      | 50BTL40-2012  | <b>100550</b> | 5.5           |                 |            |         |      |     |       |      |
| 42           | 8.715      | 50BTL42-2012  | <b>100551</b> | 6.0           | 3.56            | 1/2        | 2-1/8   | 1.25 |     |       |      |
| 45           | 9.313      | 50BTL45-2012  | <b>100552</b> | 6.5           |                 |            |         |      |     |       |      |
| 48           | 9.911      | 50BTL48-2012  | <b>100553</b> | 7.4           |                 |            |         |      |     |       |      |
| 54           | 11.106     | 50BTL54-2012  | <b>100554</b> | 8.7           | 3.56            | 1/2        | 2-1/8   | 1.25 |     |       |      |
| 60           | 12.301     | 50BTL60-2012  | <b>100555</b> | 10.5          |                 |            |         |      |     |       |      |
| 70           | 14.292     | 50BTL70-2517  | <b>100556</b> | 15.5          | 4.25            | 1/2        | 2-11/16 | 1.75 |     |       |      |
| 72           | 14.690     | 50BTL72-2517  | <b>100557</b> | 16.5          |                 |            |         |      |     |       |      |
| 80           | 16.283     | 50BTL80-2517  | <b>100558</b> | 19.0          |                 |            |         |      |     |       |      |
| 84           | 17.079     | 50BTL84-2517  | <b>100559</b> | 23.1          |                 |            |         |      |     |       |      |
| 96           | 19.467     | 50BTL96-2517  | <b>100560</b> | 32.5          |                 |            |         |      |     |       |      |
| 112          | 22.651     | 50BTL112-2517 | <b>100561</b> | 42.2          | 4.25            | 1/2        | 2-11/16 | 1.75 |     |       |      |

$\diamond$  Hub grooved for chain clearance.

### TAPER-LOCK SPROCKETS—LARGE BORE SERIES

| No. of Teeth | Spkt. O.D. | Description   | Part No.      | Wt. | C Hub Dia. | Bore Range |         | B    |
|--------------|------------|---------------|---------------|-----|------------|------------|---------|------|
|              |            |               |               |     |            | Min.       | Max.    |      |
| 35           | 7.319      | 50BTL35L-2517 | <b>100454</b> | 4.7 | 4.25       | 1/2        | 2-11/16 | 1.75 |
| 45           | 9.313      | 50BTL45L-2517 | <b>100699</b> | 7.0 | 4.25       | 1/2        | 2-11/16 | 1.75 |

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

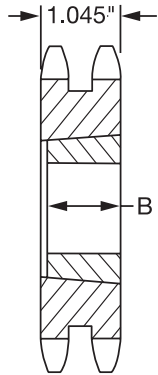
Roller Chain Sprockets

|                                  |                            |                                  |                                       |
|----------------------------------|----------------------------|----------------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT14-2 | SELECTIONS<br>PAGE PT14-16 | RELATED PRODUCTS<br>PAGE PT14-28 | ENGINEERING/TECHNICAL<br>PAGE PT14-30 |
|----------------------------------|----------------------------|----------------------------------|---------------------------------------|

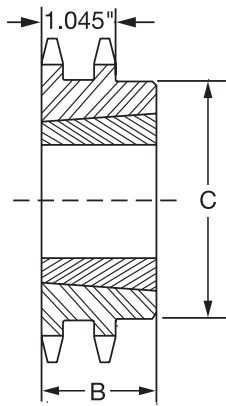


## SPECIFICATION

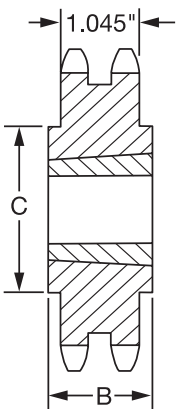
### No. 50-2 for 5/8" Pitch Double Strand Chain



**TYPE ATL**



**TYPE BTL**



**TYPE CTL**

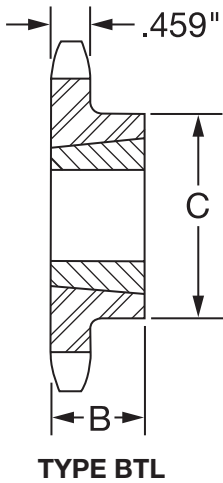
| No. of Teeth | Spkt. O.D. | Description +  | Part No.      | Wt. w/o Bush. | Hub Dia. C | Bore Range |         | B    |
|--------------|------------|----------------|---------------|---------------|------------|------------|---------|------|
|              |            |                |               |               |            | Min.       | Max.    |      |
| 14           | 3.113      | D50ATL14H-1008 | <b>101031</b> | 0.9           | ....       | 1/2        | 1.0     | 0.88 |
| 15           | 3.315      | D50ATL15H-1210 | <b>101032</b> | 1.0           | ....       | 1/2        | 1-1/4   | 1.0  |
| 16           | 3.517      | D50ATL16H-1210 | <b>101033</b> | 1.1           | ....       |            |         |      |
| 17           | 3.718      | D50ATL17H-1610 | <b>101034</b> | 1.1           | ....       | 1/2        | 1-11/16 | 1.0  |
| 18           | 3.919      | D50ATL18H-1610 | <b>101035</b> | 1.4           | ....       |            |         |      |
| 19           | 4.121      | D50ATL19H-1610 | <b>101036</b> | 1.7           | ....       |            |         |      |
| 20           | 4.321      | D50BTL20H-2012 | <b>101037</b> | 1.9           | 3.56       | 1/2        | 1-11/16 | 1.25 |
| 21           | 4.522      | D50BTL21H-2012 | <b>101038</b> | 2.0           |            |            |         |      |
| 22           | 4.722      | D50BTL22H-2012 | <b>104834</b> | 2.5           |            |            |         |      |
| 24           | 5.123      | D50BTL24H-2012 | <b>104836</b> | 3.5           |            |            |         |      |
| 25           | 5.323      | D50BTL25H-2012 | <b>101039</b> | 4.0           |            |            |         |      |
| 26           | 5.523      | D50BTL26-2012  | <b>104837</b> | 4.7           |            |            |         |      |
| 28           | 5.922      | D50BTL28-2012  | <b>104838</b> | 6.3           | 4.25       | 1/2        | 2-11/16 | 1.75 |
| 30           | 6.321      | D50BTL30-2517  | <b>101040</b> | 7.8           |            |            |         |      |
| 32           | 6.721      | D50BTL32-2517  | <b>104839</b> | 8.4           |            |            |         |      |
| 35           | 7.319      | D50BTL35-2517  | <b>104840</b> | 9.2           |            |            |         |      |
| 36           | 7.519      | D50CTL36-2517  | <b>101041</b> | 10.0          |            |            |         |      |
| 42           | 8.715      | D50CTL42-2517  | <b>101042</b> | 14.2          |            |            |         |      |
| 48           | 9.911      | D50CTL48-2517  | <b>101043</b> | 18.7          |            |            |         |      |
| 52           | 10.708     | D50CTL52-2517  | <b>101044</b> | 22.5          |            |            |         |      |
| 60           | 12.301     | D50CTL60-2517  | <b>101045</b> | 36.5          |            |            |         |      |
| 68           | 13.894     | D50CTL68-2517  | <b>101046</b> | 39.5          |            |            |         |      |
| 76           | 15.486     | D50CTL76-2517  | <b>101047</b> | 49.5          |            |            |         |      |
| 84           | 17.079     | D50CTL84-2517  | <b>101048</b> | 52.0          |            |            |         |      |
| 95           | 19.268     | D50CTL95-2517  | <b>101049</b> | 70.0          |            |            |         |      |
| 102          | 20.661     | D50CTL102-2517 | <b>101050</b> | 75.0          |            |            |         |      |

+ "H" suffix indicates Hardened Teeth.

# SPECIFICATION



## No. 60 for 3/4" Pitch Single Strand Chain



| No. of Teeth | Spkt. O.D. | Description + | Part No.        | Spkt. Wt. w/o Bush. | C Spkt. Hub Dia. | Bore Range |         | B Lgth. Thru Bore |     |       |      |
|--------------|------------|---------------|-----------------|---------------------|------------------|------------|---------|-------------------|-----|-------|------|
|              |            |               |                 |                     |                  | Min.       | Max.    |                   |     |       |      |
| 11           | 3.005      | 60BTL11H-1008 | <b>100562</b>   | 0.6                 | 1.81             | 1/2        | 1       | 0.88              |     |       |      |
| 12           | 3.249      | 60BTL12H-1008 | <b>100563</b>   | 0.7                 | 1.94             |            |         |                   |     |       |      |
| 13           | 3.493      | 60BTL13H-1210 | <b>100564</b> ◊ | 1.1                 | 2.47             | 1/2        | 1-1/4   | 1.00              |     |       |      |
| 14           | 3.736      | 60BTL14H-1210 | <b>100565</b>   | 1.2                 | 2.59             |            |         |                   |     |       |      |
| 15           | 3.978      | 60BTL15H-1610 | <b>100566</b> ◊ | 1.4                 | 2.78             | 1/2        | 1-11/16 | 1.00              |     |       |      |
| 16           | 4.220      | 60BTL16H-1610 | <b>100567</b>   | 1.9                 | 3.00             |            |         |                   |     |       |      |
| 17           | 4.462      | 60BTL17H-1610 | <b>100568</b>   | 2.0                 | 3.25             |            |         |                   |     |       |      |
| 18           | 4.703      | 60BTL18H-1610 | <b>100569</b>   | 2.2                 | 3.50             |            |         |                   |     |       |      |
| 19           | 4.945      | 60BTL19H-1610 | <b>100570</b>   | 2.4                 | 3.50             |            |         |                   |     |       |      |
| 20           | 5.186      | 60BTL20H-2012 | <b>100571</b>   | 2.5                 | 3.625            |            |         |                   | 1/2 | 2-1/8 | 1.25 |
| 21           | 5.426      | 60BTL21H-2012 | <b>100572</b>   | 2.9                 |                  |            |         |                   |     |       |      |
| 22           | 5.666      | 60BTL22H-2012 | <b>100573</b>   | 3.0                 |                  |            |         |                   |     |       |      |
| 23           | 5.907      | 60BTL23H-2012 | <b>100574</b>   | 3.2                 |                  |            |         |                   |     |       |      |
| 24           | 6.147      | 60BTL24H-2012 | <b>100575</b>   | 3.2                 |                  |            |         |                   |     |       |      |
| 25           | 6.387      | 60BTL25H-2012 | <b>100576</b>   | 3.8                 |                  |            |         |                   |     |       |      |
| 26           | 6.627      | 60BTL26-2012  | <b>100577</b>   | 4.1                 |                  |            |         |                   |     |       |      |
| 27           | 6.867      | 60BTL27H-2012 | <b>100676</b>   | 4.2                 |                  |            |         |                   |     |       |      |
| 28           | 7.106      | 60BTL28-2012  | <b>100578</b>   | 4.2                 | 4.25             | 1/2        | 2-11/16 | 1.75              |     |       |      |
| 30           | 7.586      | 60BTL30-2012  | <b>100579</b>   | 5.5                 |                  |            |         |                   |     |       |      |
| 32           | 8.065      | 60BTL32H-2012 | <b>100580</b>   | 6.0                 |                  |            |         |                   |     |       |      |
| 35           | 8.783      | 60BTL35-2012  | <b>100581</b>   | 7.0                 |                  |            |         |                   |     |       |      |
| 36           | 9.023      | 60BTL36H-2012 | <b>100582</b>   | 7.0                 |                  |            |         |                   |     |       |      |
| 40           | 9.980      | 60BTL40H-2012 | <b>100583</b>   | 8.7                 |                  |            |         |                   |     |       |      |
| 42           | 10.458     | 60BTL42-2012  | <b>100584</b>   | 9.7                 |                  |            |         |                   |     |       |      |
| 45           | 11.176     | 60BTL45-2012  | <b>100585</b>   | 10.7                |                  |            |         |                   |     |       |      |
| 48           | 11.893     | 60BTL48-2012  | <b>100586</b>   | 13.5                |                  |            |         |                   |     |       |      |
| 54           | 13.327     | 60BTL54-2517  | <b>100587</b>   | 17.8                | 4.25             | 1/2        | 2-11/16 | 1.75              |     |       |      |
| 60           | 14.761     | 60BTL60-2517  | <b>100588</b>   | 20.7                |                  |            |         |                   |     |       |      |
| 70           | 17.150     | 60BTL70-2517  | <b>100589</b>   | 30.0                |                  |            |         |                   |     |       |      |
| 72           | 17.628     | 60BTL72-2517  | <b>100590</b>   | 31.6                |                  |            |         |                   |     |       |      |
| 80           | 19.539     | 60BTL80-2517  | <b>100591</b>   | 34.7                |                  |            |         |                   |     |       |      |
| 84           | 20.495     | 60BTL84-2517  | <b>100592</b>   | 44.7                |                  |            |         |                   |     |       |      |

◊ Hub grooved for chain clearance.

+ "H" suffix indicates Hardened Teeth.

### TAPER-LOCK SPROCKETS-Large Bore Series

| No. of Teeth | Spkt. O.D. | Description L | Part No.      | Wt. | Hub Dia. C | Bore Range |         | B Dim. |
|--------------|------------|---------------|---------------|-----|------------|------------|---------|--------|
|              |            |               |               |     |            | Min.       | Max.    |        |
| 28           | 7.106      | 60BTL28L-2517 | <b>100459</b> | 4.8 | 4.25       | 1/2        | 2-11/16 | 1.75   |
| 35           | 8.783      | 60BTL35L-2517 | <b>100461</b> | 7.5 | 4.25       | 1/2        | 2-11/16 | 1.75   |
| 40           | 9.980      | 60BTL40L-2517 | <b>100463</b> | 9.2 | 4.25       | 1/2        | 2-11/16 | 1.75   |

+ "H" suffix indicates Hardened Teeth.

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets





## SPECIFICATION

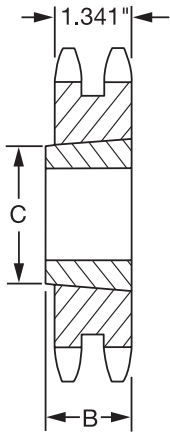
### No. 60-2 for 3/4" Pitch Double Strand Chain

#### TAPER-LOCK - Double Strand

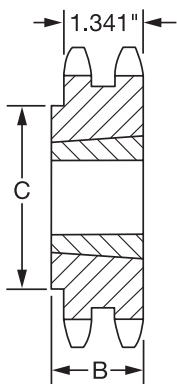
| No. of Teeth | Spkt. O.D. | Description +   | Part No.      | Wt. w/o Bush. | C Hub Dia. | Bore Range |         | B    |
|--------------|------------|-----------------|---------------|---------------|------------|------------|---------|------|
|              |            |                 |               |               |            | Min.       | Max.    |      |
| 13           | 3.493      | D60BTL13H-1215• | <b>101061</b> | 1.40          | 2.46       |            | 1-1/4   | 1.50 |
| 14           | 3.736      | D60BTL14H-1215• | <b>101062</b> | 1.70          | 2.49       | 1/2        | 1-1/4   |      |
| 14T          | 3.736      | D60BTL14H-1615• | <b>101086</b> | 1.70          | 2.74       |            | 1-11/16 |      |
| 15           | 3.978      | D60BTL15H-1615• | <b>101063</b> | 1.80          | 2.47       |            |         | 1.50 |
| 16           | 4.220      | D60BTL16H-1615• | <b>101064</b> | 2.40          | 2.97       | 1/2        | 1-11/16 |      |
| 17           | 4.462      | D60BTL17H-1615  | <b>101065</b> | 2.60          | 3.25       |            |         |      |
| 18           | 4.703      | D60ATL18H-2012  | <b>101066</b> | 2.80          | ...        | 1/2        | 2-1/8   | 1.25 |
| 19           | 4.945      | D60ATL19H-2012  | <b>101067</b> | 3.10          | ...        |            |         |      |
| 20           | 5.186      | D60BTL20H-2517• | <b>101068</b> | 3.30          | 3.95       | 1/2        | 2-11/16 | 1.75 |
| 21           | 5.426      | D60BTL21H-2517• | <b>101069</b> | 4.30          | 4.06       |            |         |      |
| 24           | 6.147      | D60BTL24H-2517  | <b>104850</b> | 7.20          | 4.25       | 1/2        | 2-11/16 | 1.75 |
| 25           | 6.387      | D60BTL25H-2517  | <b>101070</b> | 8.00          |            |            |         |      |
| 30           | 7.586      | D60BTL30-2517   | <b>101071</b> | 13.40         | 6.34       |            |         |      |
| 36           | 9.023      | D60BTL36-2517   | <b>101072</b> | 18.00         |            |            |         |      |
| 42           | 10.458     | D60BTL42-2517   | <b>101073</b> | 26.00         |            |            |         |      |
| 45           | 11.176     | D60BTL45-2517   | <b>101074</b> | 30.00         | 4.25       |            |         |      |
| 52           | 12.849     | D60CTL52-2517   | <b>101075</b> | 41.00         |            | 7/8        | 3-1/4   | 2.00 |
| 60           | 14.761     | D60BTL60-2517   | <b>101076</b> | 33.00         |            |            |         |      |
| 68           | 16.673     | D60CTL68-2517   | <b>101077</b> | 37.00         |            |            |         |      |
| 76           | 18.584     | D60BTL76-3020   | <b>101078</b> | 42.00         | 5.25       |            |         |      |

+ "H" suffix indicates Hardened Teeth.

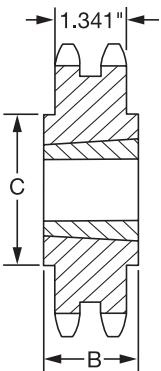
• BTL1



TYPE ATL



TYPE BTL1

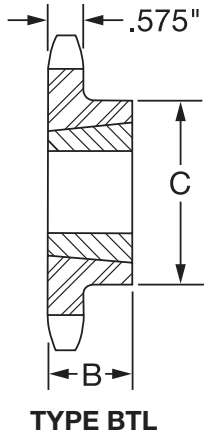


TYPE CTL

# SPECIFICATION



## No. 80 for 1" Pitch Single Strand Chain



### TAPER-LOCK

| No. of Teeth | Spkt. O.D. | Description + | Part No.      | Spkt. Wt. w/o Bush. | C Hub Dia. | Bore Range |         | B    |
|--------------|------------|---------------|---------------|---------------------|------------|------------|---------|------|
|              |            |               |               |                     |            | Min.       | Max.    |      |
| 10           | 3.678      | 80BTL10H-1215 | <b>100593</b> | 1.2                 | 2.38◇      | 1/2        | 1-1/4   | 1.50 |
| 11           | 4.006      | 80BTL11H-1215 | <b>100594</b> | 1.5                 | 2.38◇      |            |         |      |
| 12           | 4.332      | 80BTL12H-1615 | <b>100595</b> | 1.5                 | 2.94◇      | 1/2        | 1-11/16 | 1.50 |
| 13           | 4.657      | 80BTL13H-1615 | <b>100596</b> | 2.5                 | 2.94       |            |         |      |
| 14           | 4.981      | 80BTL14H-1615 | <b>100597</b> | 2.9                 | 3.25       |            |         |      |
| 15           | 5.304      | 80BTL15H-1615 | <b>100598</b> | 3.0                 | 3.25       |            |         |      |
| 16           | 5.627      | 80BTL16H-2012 | <b>100599</b> | 3.0                 | 3.56       | 1/2        | 2-1/8   | 1.25 |
| 17           | 5.949      | 80BTL17H-2012 | <b>100600</b> | 3.5                 |            |            |         |      |
| 18           | 6.271      | 80BTL18H-2012 | <b>100601</b> | 4.0                 |            |            |         |      |
| 19           | 6.593      | 80BTL19H-2012 | <b>100602</b> | 4.5                 |            |            |         |      |
| 20           | 6.914      | 80BTL20H-2517 | <b>100603</b> | 5.5                 | 4.25       | 1/2        | 2-11/16 | 1.75 |
| 21           | 7.235      | 80BTL21H-2517 | <b>100604</b> | 6.1                 |            |            |         |      |
| 22           | 7.555      | 80BTL22H-2517 | <b>100605</b> | 6.7                 |            |            |         |      |
| 23           | 7.876      | 80BTL23H-2517 | <b>100606</b> | 7.2                 |            |            |         |      |
| 24           | 8.196      | 80BTL24H-2517 | <b>100607</b> | 7.5                 |            |            |         |      |
| 25           | 8.516      | 80BTL25H-2517 | <b>100608</b> | 8.5                 |            |            |         |      |
| 26           | 8.836      | 80BTL26H-2517 | <b>100609</b> | 8.5                 |            |            |         |      |
| 27           | 9.156      | 80BTL27-2517  | <b>100678</b> | 9.8                 |            |            |         |      |
| 28           | 9.475      | 80BTL28-2517  | <b>100679</b> | 10.7                |            |            |         |      |
| 30           | 10.114     | 80BTL30-2517  | <b>100610</b> | 12.3                |            |            |         |      |
| 32           | 10.753     | 80BTL32-2517  | <b>100611</b> | 13.4                |            |            |         |      |
| 35           | 11.711     | 80BTL35-2517  | <b>100612</b> | 15.6                |            |            |         |      |
| 36           | 12.030     | 80BTL36-2517  | <b>100613</b> | 16.3                | 5.25       | 7/8        | 3-1/4   | 2.00 |
| 40           | 13.306     | 80BTL40-2517  | <b>100614</b> | 20.5                |            |            |         |      |
| 42           | 13.944     | 80BTL42-2517  | <b>104746</b> | 25.1                |            |            |         |      |
| 45           | 14.901     | 80BTL45-2517  | <b>100615</b> | 29.3                |            |            |         |      |
| 48           | 15.857     | 80BTL48-2517  | <b>100616</b> | 34.6                |            |            |         |      |
| 54           | 17.769     | 80BTL54-2517  | <b>100617</b> | 39.0                |            |            |         |      |
| 60           | 19.681     | 80BTL60-2517  | <b>100618</b> | 51.3                |            |            |         |      |
| 70           | 22.867     | 80BTL70-3020  | <b>100619</b> | 65.8                |            |            |         |      |
| 80           | 26.052     | 80BTL80-3020  | <b>100620</b> | 77.3                |            |            |         |      |

◇ Hub grooved for chain clearance.  
 + "H" suffix indicates Hardened Teeth.

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

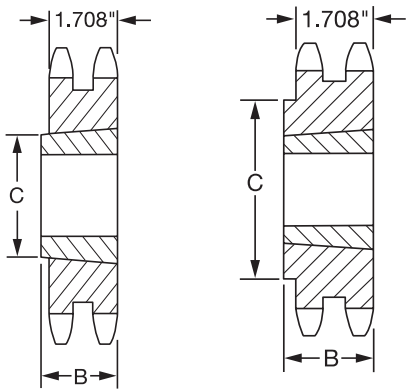
Roller Chain Sprockets

|                                  |                            |                                  |                                       |
|----------------------------------|----------------------------|----------------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT14-2 | SELECTIONS<br>PAGE PT14-16 | RELATED PRODUCTS<br>PAGE PT14-28 | ENGINEERING/TECHNICAL<br>PAGE PT14-30 |
|----------------------------------|----------------------------|----------------------------------|---------------------------------------|



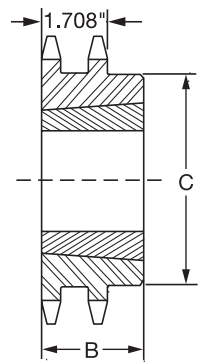
## SPECIFICATION

### No. 80-2 for 1" Pitch Double Strand Chain

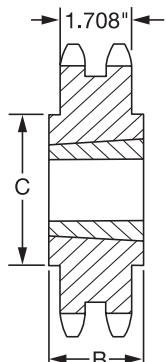


TYPE ATL

TYPE BTL 1



TYPE BTL 2

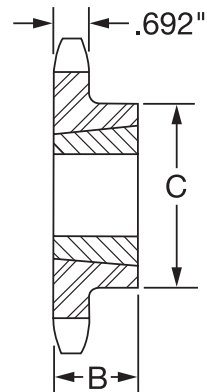


TYPE CTL

#### TAPER-LOCK - Double Strand

| No. of Teeth | Spkt. O.D. | Description +  | Part No. | Spkt. Wt. w/o Bush. | C Hub Dia. | Bore Range |         | B    |
|--------------|------------|----------------|----------|---------------------|------------|------------|---------|------|
|              |            |                |          |                     |            | Min.       | Max.    |      |
| 13           | 4.657      | D80ATL13H-1615 | 101090   | 3.3                 | ....       | 1/2        | 1-11/16 | 1.50 |
| 14           | 4.981      | D80ATL14H-2012 | 101091   | 3.5                 | ....       | 1/2        | 2-1/8   | 1.25 |
| 15           | 5.304      | D80ATL15H-2012 | 101092   | 4.4                 | ....       |            |         |      |
| 16           | 5.627      | D80ATL16H-2517 | 101093   | 4.6                 | ....       |            |         |      |
| 17           | 5.949      | D80ATL17H-2517 | 101094   | 5.5                 | ....       | 1/2        | 2-11/16 | 1.75 |
| 18           | 6.271      | D80ATL18H-2517 | 101095   | 6.6                 | ....       |            |         |      |
| 19           | 6.593      | D80BTL19H-3020 | 101096   | 7.1                 | ....       |            |         |      |
| 20           | 6.914      | D80BTL20H-3020 | 101097   | 8.2                 | 5.25       |            |         |      |
| 21           | 7.235      | D80BTL21H-3020 | 101098   | 10.4                | 5.46       |            |         |      |
| 23           | 7.876      | D80BTL23H-3020 | 104863   | 12.0                |            |            |         |      |
| 25           | 8.516      | D80BTL25H-3020 | 101099   | 16.7                |            |            |         |      |
| 30           | 10.114     | D80BTL30-3020  | 101100   | 23.0                |            |            |         |      |
| 36           | 12.030     | D80BTL36-3020  | 101101   | 40                  |            |            |         |      |
| 42           | 13.944     | D80BTL42-3020  | 101102   | 56                  | 5.25       | 7/8        | 3-1/4   | 2.00 |
| 60           | 19.681     | D80CTL60-3020  | 101105   | 62                  |            |            |         |      |
| 68           | 22.230     | D80CTL68-3020  | 101106   | 75                  |            |            |         |      |
| 76           | 24.778     | D80CTL76-3020  | 101107   | 83                  |            |            |         |      |
| 95           | 30.828     | D80CTL95-3020  | 101108   | 100                 |            |            |         |      |

### No. 100 for 1-1/4" Pitch Single Strand Chain



TYPE BTL 1

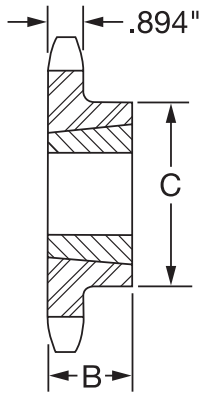
#### TAPER-LOCK

| No. of Teeth | Spkt. O.D. | Description +  | Part No. | Wt. w/o Bush. | C. Hub Dia. | Bore Range |         | B    |
|--------------|------------|----------------|----------|---------------|-------------|------------|---------|------|
|              |            |                |          |               |             | Min.       | Max.    |      |
| 11           | 5.008      | 100BTL11H-1615 | 100621   | 2.7           | 3.00        |            |         |      |
| 12           | 5.415      | 100BTL12H-1615 | 100622   | 3.1           | 3.25        | 1/2        | 1-11/16 | 1.50 |
| 13           | 5.821      | 100BTL13H-2012 | 100623   | 3.0           | 3.56        | 1/2        | 2-1/8   | 1.25 |
| 14           | 6.226      | 100BTL14H-2012 | 100624   | 4.0           |             |            |         |      |
| 15           | 6.630      | 100BTL15H-2517 | 100625   | 5.5           |             |            |         |      |
| 16           | 7.034      | 100BTL16H-2517 | 100626   | 6.0           | 4.25        | 1/2        | 2-11/16 | 1.75 |
| 17           | 7.436      | 100BTL17H-2517 | 100627   | 7.0           |             |            |         |      |
| 18           | 7.839      | 100BTL18H-2517 | 100628   | 7.5           |             |            |         |      |
| 19           | 8.241      | 100BTL19H-2517 | 100629   | 9.7           |             |            |         |      |
| 20           | 8.643      | 100BTL20H-2517 | 100630   | 9.8           | 4.25        | 1/2        | 2-11/16 | 1.75 |
| 22           | 9.444      | 100BTL22H-2517 | 100632   | 11.4          |             |            |         |      |
| 24           | 10.245     | 100BTL24H-2517 | 100633   | 14.3          |             |            |         |      |
| 25           | 10.645     | 100BTL25H-2517 | 104754   | 17.0          | 4.50        | 1/2        | 2-11/16 | 1.75 |
| 26           | 11.045     | 100BTL26-2517  | 100634   | 16.0          |             |            |         |      |
| 28           | 11.844     | 100BTL28-3020  | 100685   | 20.2          |             |            |         |      |
| 30           | 12.643     | 100BTL30-3020  | 100635   | 21.5          |             |            |         |      |
| 32           | 13.441     | 100BTL32-3020  | 100636   | 25.0          |             |            |         |      |
| 35           | 14.639     | 100BTL35-3020  | 100637   | 30.2          |             |            |         |      |
| 36           | 15.038     | 100BTL36-3020  | 100638   | 31.4          |             |            |         |      |
| 40           | 16.633     | 100BTL40-3020  | 100639   | 36.6          |             |            |         |      |
| 45           | 18.626     | 100BTL45-3020  | 100640   | 47            | 5.25        | 7/8        | 3-1/4   | 2.00 |
| 48           | 19.821     | 100BTL48-3020  | 100641   | 60            |             |            |         |      |
| 54           | 22.211     | 100BTL54-3020  | 100642   | 77            |             |            |         |      |
| 60           | 24.601     | 100BTL60-3020  | 100643   | 94            |             |            |         |      |

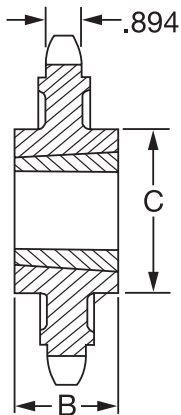
# SPECIFICATION



## No. 120 for 1-1/2" Pitch Single Strand Chain



**TYPE BTL**



**TYPE CTL**

### TAPER-LOCK

| No. of Teeth | Spkt. O.D. | Description +  | Part No.      | Spkt. Wt. w/o Bush. | C Hub Dia. | Bore Range |         | B    |
|--------------|------------|----------------|---------------|---------------------|------------|------------|---------|------|
|              |            |                |               |                     |            | Min.       | Max.    |      |
| 12           | 6.498      | 120BTL12H-2012 | <b>100396</b> | 8.0                 | 3.56       | 1/2        | 2-1/8   | 1.25 |
| 13           | 6.989      | 120BTL13H-2517 | <b>100644</b> | 6.4                 | 4.25       | 1/2        | 2-11/16 | 1.75 |
| 14           | 7.472      | 120BTL14H-2517 | <b>100645</b> | 7.8                 |            |            |         |      |
| 15           | 7.956      | 120BTL15H-2517 | <b>100646</b> | 9.6                 |            |            |         |      |
| 16           | 8.441      | 120BTL16H-3020 | <b>100647</b> | 10.2                |            |            |         |      |
| 17           | 8.924      | 120BTL17H-3020 | <b>100648</b> | 11.6                | 5.25       | 7/8        | 3-1/4   | 2.00 |
| 18           | 9.407      | 120BTL18H-3020 | <b>100649</b> | 13.2                |            |            |         |      |
| 19           | 9.890      | 120BTL19H-3020 | <b>100650</b> | 11.2                |            |            |         |      |
| 20           | 10.371     | 120BTL20H-3020 | <b>100397</b> | 16.0                |            |            |         |      |
| 21           | 10.853     | 120BTL21H-3020 | <b>100651</b> | 18.0                |            |            |         |      |
| 24           | 12.294     | 120BTL24H-3020 | <b>100398</b> | 24.0                |            |            |         |      |
| 26           | 13.254     | 120BTL26-3020  | <b>100652</b> | 30.0                | 6.50       | 1-3/16     | 3-15/16 | 3.50 |
| 30           | 15.171     | 120BTL30-3020  | <b>100399</b> | 39.7                |            |            |         |      |
| 35           | 17.567     | 120BTL35-3020  | <b>100232</b> | 46.0                | 5.88       | 15/16      | 3-1/4   | 3.00 |
| 45           | 22.352     | 120CTL45-3030  | <b>104765</b> | 110                 |            |            |         |      |
| 60           | 29.522     | 120CTL60-3535  | <b>100236</b> | 120                 |            |            |         |      |
| 70           | 34.301     | 120CTL70-3535  | <b>100238</b> | 144                 |            |            |         |      |
| 80           | 39.078     | 120CTL80-3535  | <b>100240</b> | 164                 |            |            |         |      |

+ "H" suffix indicates Hardened Teeth.

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

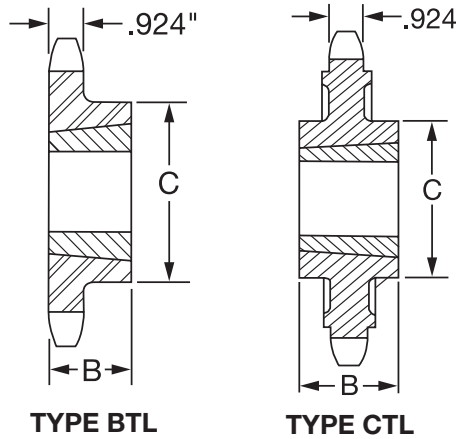
Roller Chain Sprockets

|                                  |                            |                                  |                                       |
|----------------------------------|----------------------------|----------------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT14-2 | SELECTIONS<br>PAGE PT14-16 | RELATED PRODUCTS<br>PAGE PT14-28 | ENGINEERING/TECHNICAL<br>PAGE PT14-30 |
|----------------------------------|----------------------------|----------------------------------|---------------------------------------|



## SPECIFICATION

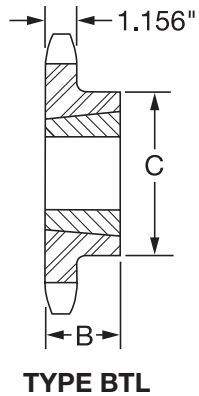
### No. 140 for 1-3/4" Pitch Single Strand Chain



#### TAPER-LOCK

| No. of Teeth | Spkt. O.D. | Description +  | Part No.      | Wt. w/o Bush. | C Hub Dia. | Bore Range |         | B    |
|--------------|------------|----------------|---------------|---------------|------------|------------|---------|------|
|              |            |                |               |               |            | Min.       | Max.    |      |
| 12           | 7.581      | 140BTL12H-2517 | <b>100653</b> | 7.6           | 4.25       | 1/2        | 2-11/16 | 1.75 |
| 13           | 8.150      | 140BTL13H-3020 | <b>100654</b> | 9.6           | 5.25       | 7/8        | 3       | 2.00 |
| 14           | 8.717      | 140BTL14H-3020 | <b>100655</b> | 11.3          |            |            |         |      |
| 15           | 9.282      | 140BTL15H-3020 | <b>100656</b> | 12.7          |            |            |         |      |
| 16           | 9.847      | 140BTL16H-3020 | <b>100657</b> | 14.6          |            |            |         |      |
| 17           | 10.411     | 140BTL17H-3020 | <b>100658</b> | 17.5          |            |            |         |      |
| 18           | 10.974     | 140BTL18H-3020 | <b>100659</b> | 19.3          |            |            |         |      |
| 19           | 11.538     | 140BTL19H-3020 | <b>100660</b> | 21.2          | 6.50       | 1-3/16     | 3-1/2   | 3.50 |
| 21           | 12.661     | 140BTL21H-3020 | <b>100661</b> | 28.0          |            |            |         |      |
| 26           | 15.463     | 140BTL26-3020  | <b>100662</b> | 45.0          |            |            |         |      |
| 35           | 20.494     | 140CTL35-3535  | <b>100264</b> | 80.3          |            |            |         |      |
| 45           | 26.077     | 140CTL45-4040  | <b>100266</b> | 120.0         | 7.75       | 1-7/16     | 4       | 4.00 |
| 60           | 34.442     | 140CTL60-4040  | <b>100268</b> | 200.0         |            |            |         |      |

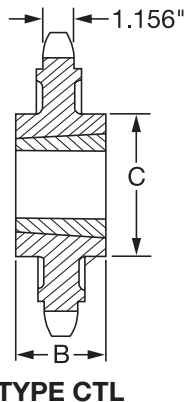
### No. 160 for 2" Pitch Single Strand Chain



#### TAPER-LOCK

| No. of Teeth | Spkt. O.D. | Description +  | Part No.      | Wt. w/o Bush. | C Hub Dia. | Bore Range |         | B    |
|--------------|------------|----------------|---------------|---------------|------------|------------|---------|------|
|              |            |                |               |               |            | Min.       | Max.    |      |
| 11           | 8.012      | 160BTL11H-2517 | <b>100663</b> | 7.7           | 4.25       | 1/2        | 2-11/16 | 1.75 |
| 12           | 8.664      | 160BTL12H-3020 | <b>100664</b> | 11.5          | 5.25       | 7/8        | 3-1/4   | 3.00 |
| 13           | 9.314      | 160BTL13H-3020 | <b>100665</b> | 14.2          |            |            |         |      |
| 14           | 9.962      | 160BTL14H-3020 | <b>100666</b> | 17.1          |            |            |         |      |
| 15           | 10.608     | 160BTL15H-3535 | <b>100667</b> | 27.4          | 6.50       | 1-3/16     | 3-15/16 | 3.50 |
| 17           | 11.898     | 160BTL17H-3535 | <b>100669</b> | 33.9          |            |            |         |      |
| 18           | 12.542     | 160BTL18H-3535 | <b>100670</b> | 38.4          |            |            |         |      |
| 19           | 13.186     | 160BTL19H-3535 | <b>100671</b> | 41.7          |            |            |         |      |
| 21           | 14.470     | 160BTL21H-3535 | <b>100672</b> | 50            |            |            |         |      |
| 26           | 17.672     | 160BTL26-3535  | <b>100673</b> | 88            |            |            |         |      |
| 35           | 23.422     | 160CTL35-4040  | <b>100294</b> | 106           | 7.75       | 1-7/16     | 4-7/16  | 4.00 |
| 60           | 39.362     | 160CTL60-4545  | <b>100298</b> | 253           | 8.75       | 1-15/16    | 4-15/16 | 4.50 |

+ "H" suffix indicates Hardened Teeth.

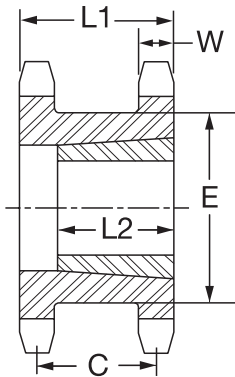


TYPE CTL

# SPECIFICATION



## Double Single Sprockets



TYPE ATL  
TAPER-LOCK

| No. 40   |            | C=1.13<br>W=.284 | TAPER-LOCK* |          |          |           |        |               |
|----------|------------|------------------|-------------|----------|----------|-----------|--------|---------------|
| No Teeth | Spkt. O.D. | E Dim.           | Spkt. No.   | Part No. | Bushing: |           | L Dim. | Wt. w/o Bush. |
|          |            |                  |             |          | No.      | Max. Bore |        |               |
| 18       | 3.136      | 2.31             | ....        | ....     | ...      | ...       | ...    | ...           |
| 19       | 3.300      | 2.50             | DS40ATL19H  | 101450   | 1215     | 1-1/4     | 1.41   | 1.1           |
| 20       | 3.460      | 2.63             | DS40ATL20H  | 101451   | 1215     | 1-1/4     | 1.41   | 1.3           |
| 21       | 3.620      | 2.78             | DS40ATL21H  | 101452   | 1615     | 1-11/16   | 1.41   | 1.3           |
| 22       | 3.780      | 2.94             | ....        | ....     | ...      | ...       | ...    | ...           |
| 23       | 3.940      | 3.09             | DS40ATL23H  | 101453   | 1615     | 1-11/16   | 1.41   | 1.5           |
| 24       | 4.100      | 3.27             | DS40ATL24H  | 101454   | 1615     | 1-11/16   | 1.41   | 1.7           |

| No. 50   |            | C=1.31<br>W=.343 | TAPER-LOCK* |          |          |           |        |               |
|----------|------------|------------------|-------------|----------|----------|-----------|--------|---------------|
| No Teeth | Spkt. O.D. | E Dim.           | Spkt. No.   | Part No. | Bushing: |           | L Dim. | Wt. w/o Bush. |
|          |            |                  |             |          | No.      | Max. Bore |        |               |
| 17       | 3.200      | 2.69             | DS50ATL17H  | 101455   | 1615     | 1-11/16   | 1.64   | 1.8           |
| 18       | 3.920      | 2.89             | DS50ATL18H  | 101456   | 1615     | 1-11/16   | 1.64   | 2.2           |
| 19       | 4.120      | 3.08             | DS50ATL19H  | 101457   | 1615     | 1-11/16   | 1.64   | 2.7           |
| 20       | 4.320      | 3.28             | ....        | ....     | ...      | ...       | ...    | ...           |
| 21       | 4.520      | 3.48             | DS50ATL21H  | 101458   | 2012     | 2-1/8     | 1.64   | 3.3           |
| 22       | 4.720      | 3.69             | ....        | ....     | ...      | ...       | ...    | ...           |
| 23       | 4.920      | 3.89             | DS50ATL23H  | 101459   | 2012     | 2-1/8     | 1.64   | 3.7           |
| 24       | 5.120      | 4.08             | DS50ATL24H  | 101460   | 2012     | 2-1/8     | 1.64   | 4.1           |

| No. 60   |            | C=1.48<br>W=.459 | TAPER-LOCK* |          |          |           |        |               |
|----------|------------|------------------|-------------|----------|----------|-----------|--------|---------------|
| No Teeth | Spkt. O.D. | E Dim.           | Spkt. No.   | Part No. | Bushing: |           | L Dim. | Wt. w/o Bush. |
|          |            |                  |             |          | No.      | Max. Bore |        |               |
| 17       | 4.460      | 3.22             | DS60ATL17H  | 101461   | 1615     | 1-11/16   | 1.94   | 4.5           |
| 18       | 4.700      | 3.47             | DS60ATL18H  | 101462   | 2012     | 2-1/8     | 1.94   | 5.0           |
| 19       | 4.950      | 3.70             | DS60ATL19H  | 101463   | 2012     | 2-1/8     | 1.94   | 5.8           |
| 20       | 5.190      | 3.95             | DS60ATL20H  | 101464   | 2517     | 2-11/16   | 1.94   | 5.6           |
| 21       | 5.430      | 4.19             | DS60ATL21H  | 101465   | 2517     | 2-11/16   | 1.94   | 6.4           |
| 22       | 5.910      | 4.67             | DS60ATL23H  | 101466   | 2517     | 2-11/16   | 1.94   | 7.3           |
| 23       | 6.150      | 4.91             | DS60ATL24H  | 101467   | 2517     | 2-11/16   | 1.94   | 8.2           |

| No. 80   |            | C=1.63<br>W=.575 | TAPER-LOCK* |          |          |           |        |               |
|----------|------------|------------------|-------------|----------|----------|-----------|--------|---------------|
| No Teeth | Spkt. O.D. | E Dim.           | Spkt. No.   | Part No. | Bushing: |           | L Dim. | Wt. w/o Bush. |
|          |            |                  |             |          | No.      | Max. Bore |        |               |
| 17       | 5.950      | 4.31             | DS80ATL17H  | 101468   | 2517     | 2-11/16   | 2.19   | 7.6           |
| 18       | 6.270      | 4.75             | DS80ATL18H  | 101469   | 2517     | 2-11/16   | 2.19   | 8.7           |
| 19       | 6.590      | 4.95             | DS80ATL19H  | 101470   | 3020     | 3-1/4     | 2.19   | 9.7           |
| 20       | 6.910      | 5.28             | DS80ATL20H  | 101471   | 3020     | 3-1/4     | 2.19   | 10            |
| 21       | 7.240      | 5.59             | DS80ATL21H  | 101472   | 3020     | 3-1/4     | 2.19   | 12            |
| 22       | 7.560      | ...              | ....        | ....     | ...      | ...       | ...    | ...           |
| 23       | 7.880      | 6.23             | DS80ATL23H  | 101473   | 3020     | 3-1/4     | 2.19   | 14.5          |

| No. 100  |            | C=2<br>W=.692 | TAPER-LOCK* |          |          |           |        |               |
|----------|------------|---------------|-------------|----------|----------|-----------|--------|---------------|
| No Teeth | Spkt. O.D. | E Dim.        | Spkt. No.   | Part No. | Bushing: |           | L Dim. | Wt. w/o Bush. |
|          |            |               |             |          | No.      | Max. Bore |        |               |
| 16       | 7.030      | 5.00          | DS100ATL16H | 101474   | 2517     | 2-11/16   | 2.69   | 13            |
| 17       | 7.440      | 5.41          | DS100ATL17H | 101475   | 3020     | 3-1/4     | 2.69   | 14            |
| 18       | 7.840      | 5.80          | DS100ATL18H | 101476   | 3020     | 3-1/4     | 2.69   | 16            |
| 19       | 8.240      | 6.20          | DS100ATL19H | 101477   | 3020     | 3-1/4     | 2.69   | 20            |
| 20       | 8.640      | 6.61          | ....        | ....     | ...      | ...       | ...    | ...           |
| 21       | 9.040      | 7.00          | DS100ATL21H | 101478   | 3020     | 3-1/4     | 2.69   | 27.5          |

\* TAPER-LOCK double single sprockets have hardened teeth.

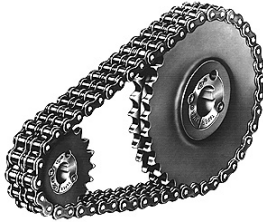
|                                  |                            |                                  |                                       |
|----------------------------------|----------------------------|----------------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT14-2 | SELECTIONS<br>PAGE PT14-16 | RELATED PRODUCTS<br>PAGE PT14-28 | ENGINEERING/TECHNICAL<br>PAGE PT14-30 |
|----------------------------------|----------------------------|----------------------------------|---------------------------------------|





## SELECTION

### Roller Chain Drive Selection



#### EASY SELECTION METHOD

**1. Determine Class of Service:** Refer to tabulation below, or select from the following:

**Class A:** Fairly uniform running load. Start-up and peak loads occur infrequently.

**Class B:** Variable running load. Higher starting and peak loads, occurring more frequently.

**Class C:** Heavy starting loads. Peak loads and overloads occurring frequently.

**2. Select Service Factor:**

| Class of Service | Type of Input Power                             |                     |  |
|------------------|---|---------------------|--|
|                  | Internal Combustion Engine with Hydraulic Drive | Electric or Turbine | Internal Combustion Engine with Mechanical Drive |
| A                | 1.0   | 1.0                 | 1.2  |
| B                | 1.2   | 1.3                 | 1.4  |
| C                | 1.4   | 1.5                 | 1.7  |

**3. Calculate Design Horsepower:** Motor HP x Service Factor, or normal running HP x Service Factor.

**4. Determine Chain Size and Smaller (Usually the Driver) sprocket number of teeth:** Refer to "Recommended Small Sprocket" table on page PT13-18 and PT13-19. Start at column that is at or above the calculated design HP. Trace down to the row that includes the RPM of the faster (Usually the Driver) shaft. The chain pitch and sprocket No. of Teeth are listed at this intersection.

**5. Calculate Drive Ratio:** Faster shaft Rpm divided by Slower shaft RPM.

**6. Determine Size of Large Sprocket:** Multiply smaller sprocket No. of teeth by ratio. Select Closest stock available sprocket.

**7. Calculate Chain Length "L":**

$$L = 2c + 1.57(D + d) + \frac{(D-d)^2}{4c}$$

Where: D = Pitch dia. large sprocket, (see page PT13-31)

d = Pitch dia. small sprocket, (see page PT13-31)

c = Proposed center distance

(Accuracy is within .15% chain length)

Divide chain length (inches) by chain pitch to determine number of pitches in the chain. Good practice is to use an even number of pitches, including connecting link.

| Class of Service for Driven Machine                         |       |   |       |
|---|-------|---|-------|
| Driven Machine  | Class | Driven Machine                                      | Class |
| Agitators, liquid or semi-liquid stock, paddle or propeller | A     | Line Shafts:  |       |
| Bakery Machinery  | B     | Light or normal service                             | A     |
| Beaters   | B     | Unevenly loaded                                     | B     |
| Blowers, Centrifugal  | A     | Machines, Non-Reversing:                            |       |
| Boat Paddle Wheels or Propellers                            | C     | Even load   | A     |
| Centrifuges   | C     | Pulsating load                                      | C     |
| Clay Working Machinery:                                     |       | Impact load   | C     |
| Extruders, Granulators, Mixers, Pug Mills, Rolls            | B     | Mills:  |       |
| Briquette Machine, Presses                                  | C     | Ball, Pebble, Rod, Tube                             | B     |
| Compressors:  |       | Blooming, Hammer, Hardinge, Rolling                 | C     |
| Centrifugal, Rotary   | B     | Paper Machinery:                                    |       |
| Reciprocating   | C     | Agitators, Calenders, Dryers, Jordan Engines, Paper |       |
| Conveyors:  |       | Machines, Pulp Grinders                             | B     |
| Uniformly or loaded   | A     | Beaters, Chippers, Nash Pumps, Washers, Winder      |       |
| Irregularly fed or loaded                                   | B     | Drums, Yankee Dryers                                | C     |
| Reciprocating   | C     | Presses   | C     |
| Cookers, Cereal   | A     | Printing Machinery                                  | B     |
| Cranes  | B     | Pumps:  |       |
| Crushers  | C     | Centrifugal, Gear, Rotary                           | A     |
| Elevators:  |       | Dredge  | C     |
| Uniformly fed or loaded                                     | A     | Reciprocating, 1 or 2 cylinder                      | C     |
| Irregularly fed or loaded                                   | B     | Reciprocating, 3 or more cylinder                   | B     |
| Fans:   |       | Rubber Plant Machinery:                             |       |
| Centrifugal   | A     | Banbury Mills, Calenders, Mixers                    | C     |
| Mine, Positive Blowers, Propeller                           | C     | Screens:  |       |
| Feeders, Reciprocating                                      | C     | Air Washing, Water                                  | A     |
| Flour, Feed or Cereal Mill Machinery                        | B     | Rotary (Stone or Gravel), Vibrating                 | B     |
| Generators  | A     | Textile Machinery:                                  |       |
| Hogs for Refuse   | C     | Batcher, Calender, Dry Can, Dyeing Machinery        |       |
| Kettles, Brew   | A     | Loom, Mangel, Napper, Soaper, Spinner, Tenter       |       |
| Kilns and Dryers, rotary                                    | B     | Frame   | B     |
| Laundry Machinery   | B     | Card Machine  | C     |
|   |       | Woodworking Machinery                               | B     |



## SELECTION EXAMPLE

A chain drive is required for a tumbling barrel for metal stampings. The barrel is to run at 24 RPM from a speed reducer output of 77 RPM. Center distance is 50". Input power is from a 5 HP electric motor. Starting loads are heavy, peak loads and overloads are frequent.

**1. Service Factor:** Class of service is not listed in table, so refer to Class Description. Class C is appropriate. Service Factor Table shows 1.5 Class C driven by an electric motor.

**2. Design HP:** Motor HP x S.F. 5 x 1.5 = 7.5 Design HP.

**3. Chain and Small Sprocket Size:** Refer to the 7-1/2 HP column of the Easy Selection Table. Trace down to the row that includes 77 RPM, "71-80 RPM". No. 100 chain and sprocket with 15 teeth is shown: select 100BTL15.

**4. Drive Ratio:** 77/24 = 3.21:1.

**5. Large Sprocket:** 15 x 3.21 = 48.15. Select a 48 tooth driven sprocket, 100BTL48, which is a stock size.

**6. Chain Length:**

$$L = 2(50) + 1.57(19.113 + 6.013) + \frac{(19.113 - 6.012)^2}{4 \times 50}$$

L = 140.31" (No.100 Chain has 1-1/4 or 1.25" Pitch)

Length in pitches = 140.31/1.25 = 112.48 pitches.

Choose 112 or 114 Pitches of chain, including Conn Link.

7. Verify that sprockets will fit shaft sizes.

## DESIGN NOTES

**Small Sprocket Size:** The higher RPM and the fewer the number of teeth on the small sprocket, the greater the wear.

This leads to some general guidelines:

- Use at least 17 teeth sprocket for 100+ RPM.
- Avoid high ratios that require very small sprockets

**Lubrication:** Chain drives must be lubricated and kept clean. The most effective method to accomplish this is to use an oil-tight chain guard with an oil sump. Manual lubrication is effective on slower speed drives, but exposure to dirt and contamination will be a problem for the drive.

**Design Refinement:** The "Easy Selection Method" is a good starting point for further design refinement, if desired. Refer to the Chain HP Rating Tables on the following pages for more precise ratings. Also refer to "Slow Speed Drives" which follows this section.

## SLOW SPEED DRIVES

Where linear speed of the chain is under 100 fpm and loading is uniform, roller chain drives may be selected on the basis of chain pull rather than horsepower rating. This often results in significant savings.

When chain length is more than 50 pitches, the maximum applied load may be as great as 1/7 of the ultimate tensile strength of the chain for speeds below 50 fpm to 100 fpm.

Unusual load variations of peak loads require other methods of determining the maximum applied load.

Chain pull may be calculated by the following formula:

$$\text{Chain Pull (lbs.)} = \frac{\text{Design HP} \times 126,000}{\text{rpm} \times \text{Pitch diam.}}$$

Table below offers a simplified method of determining allowable chain pull for slow speed drives. The table also shows revolutions per minute for a given pitch diameter at 50 and 100 feet per minute. Average tensile strength for all popular roller chains is given on page PT13-32.

### Information for Slow Speed Drives

| Chain No. | Allowable Chain Pull for STD. Chain |              | RPM for a Given Pitch Diam. at Various Speeds |              |               |
|-----------|-------------------------------------|--------------|---|--------------|---------------|
|           | Max. Chain Pull                     |              | P.D. in inches                                | @ 50 fpm RPM | @ 100 fpm RPM |
|           | @ 50 fpm or less                    | @ 50-100 fpm |   |              |               |
| 40        | 528                                 | 462          | 2   | 95.0         | 191.0         |
| 50        | 871                                 | 762          | 3   | 63.6         | 127.2         |
| 60        | 1214                                | 1062         | 4   | 47.7         | 95.5          |
| 80        | 2071                                | 1812         | 5   | 38.2         | 76.4          |
| 100       | 3428                                | 3000         | 6   | 31.8         | 63.7          |
| 120       | 4857                                | 4250         | 7   | 27.3         | 54.6          |
| 140       | 6571                                | 5750         | 8   | 23.9         | 47.8          |
| 160       | 8285                                | 7250         | 9   | 21.2         | 42.4          |
| 180       | 11,428                              | 10,000       | 10  | 19.1         | 38.2          |
| 200       | 13,571                              | 11,875       | 11  | 17.3         | 34.7          |
| 240       | 18,571                              | 16,250       | 12  | 15.9         | 31.8          |

Note: Smaller sprockets can be used on slow speed drives as the effects of chordal action are not pronounced. However, small sprockets of fewer than 9 teeth should be avoided.

## MULTIPLE STRAND CHAIN DRIVES

Single Strand drives offer cost and availability advantages, and are more easily assembled. Multiple strand drives can be used to solve design problems of greater HP capacity or space constraints. For multiple strand drives, divide the calculated Design HP by the factors below, and select from the ratings for single strand drives:

| Multiple Strand Factors |     |
|-------------------------|-----|
| Single:                 | 1.0 |
| Double                  | 1.9 |
| Triple:                 | 2.8 |



# SELECTION

## Easy Selection Table RECOMMENDED SMALL SPROCKET

| RPM of small Sprocket | Chain Size and No. of Teeth for Design HP |       |        |        |        |        |        |        |        |        |        |        |
|-----------------------|---|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                       | 1/4                                       | 1/3   | 1/2    | 3/4    | 1      | 1 -1/2 | 2      | 3      | 4      | 5      | 6      | 7 -1/2 |
| 951-1000              | 35 17                                     | 35 17 | 35 17  | 35 17  | 35 17  | 35 17  | 35 17  | 35 23  | 40 17  | 40 17  | 40 20  | 40 24  |
| 901-950               | 35 17                                     | 35 17 | 35 17  | 35 17  | 35 17  | 35 17  | 35 17  | 35 24  | 40 17  | 40 18  | 40 21  | 40 25  |
| 851-900               | 35 17                                     | 35 17 | 35 17  | 35 17  | 35 17  | 35 17  | 35 17  | 40 17  | 40 17  | 40 18  | 40 22  | 50 17  |
| 801-850               | 35 17                                     | 35 17 | 35 17  | 35 17  | 35 17  | 35 17  | 35 18  | 40 17  | 40 17  | 40 19  | 40 23  | 50 17  |
| 751-800               | 35 17                                     | 35 17 | 35 17  | 35 17  | 35 17  | 35 17  | 35 19  | 40 17  | 40 17  | 40 20  | 40 24  | 50 17  |
| 701-750               | 35 17                                     | 35 17 | 35 17  | 35 17  | 35 17  | 35 17  | 35 20  | 40 17  | 40 18  | 40 22  | 40 25  | 50 17  |
| 651-700               | 35 17                                     | 35 17 | 35 17  | 35 17  | 35 17  | 35 17  | 35 22  | 40 17  | 40 19  | 40 23  | 50 17  | 50 18  |
| 601-650               | 35 17                                     | 35 17 | 35 17  | 35 17  | 35 17  | 35 18  | 35 23  | 40 17  | 40 20  | 40 24  | 50 17  | 50 19  |
| 551-600               | 35 17                                     | 35 17 | 35 17  | 35 17  | 35 17  | 35 19  | 40 17  | 40 17  | 40 21  | 50 17  | 50 17  | 50 21  |
| 501-550               | 35 17                                     | 35 17 | 35 17  | 35 17  | 35 17  | 35 21  | 40 17  | 40 17  | 40 23  | 50 17  | 50 18  | 50 22  |
| 471-500               | 35 17                                     | 35 17 | 35 17  | 35 17  | 35 17  | 35 22  | 40 17  | 40 17  | 40 24  | 50 17  | 50 19  | 50 24  |
| 441-470               | 35 17                                     | 35 17 | 35 17  | 35 17  | 35 17  | 35 23  | 40 17  | 40 17  | 50 17  | 50 17  | 50 20  | 50 25  |
| 411-440               | 35 17                                     | 35 17 | 35 17  | 35 17  | 35 17  | 40 17  | 40 17  | 40 21  | 50 17  | 50 18  | 50 22  | 60 17  |
| 381-410               | 35 17                                     | 35 17 | 35 17  | 35 17  | 35 17  | 40 17  | 40 17  | 40 22  | 50 17  | 50 19  | 50 23  | 60 17  |
| 351-380               | 35 17                                     | 35 17 | 35 17  | 35 17  | 35 17  | 40 17  | 40 17  | 40 24  | 50 17  | 50 21  | 50 24  | 60 18  |
| 321-350               | 35 17                                     | 35 17 | 35 17  | 35 17  | 35 17  | 40 17  | 40 18  | 50 17  | 50 18  | 50 22  | 60 17  | 60 20  |
| 301-320               | 35 17                                     | 35 17 | 35 17  | 35 17  | 35 17  | 40 17  | 40 19  | 50 17  | 50 19  | 50 23  | 60 17  | 60 21  |
| 281-300               | 35 17                                     | 35 17 | 35 17  | 35 17  | 35 17  | 40 17  | 40 19  | 50 17  | 50 20  | 50 25  | 60 18  | 60 22  |
| 261-280               | 35 17                                     | 35 17 | 35 17  | 35 17  | 35 17  | 40 17  | 40 19  | 50 17  | 50 22  | 60 17  | 60 19  | 60 23  |
| 241-260               | 35 17                                     | 35 17 | 35 17  | 35 17  | 35 17  | 40 17  | 40 19  | 50 18  | 50 23  | 60 17  | 60 20  | 80 17  |
| 221-240               | 35 17                                     | 35 17 | 35 17  | 35 17  | 35 17  | 40 19  | 40 24  | 50 19  | 50 25  | 60 19  | 60 22  | 80 17  |
| 201-220               | 35 17                                     | 35 17 | 35 17  | 35 17  | 35 17  | 40 20  | 50 17  | 50 21  | 60 17  | 60 20  | 60 24  | 80 17  |
| 181-200               | 35 17                                     | 35 17 | 35 18  | 35 17  | 35 17  | 40 22  | 50 17  | 50 23  | 60 18  | 60 22  | 60 26  | 80 17  |
| 161-180               | 35 17                                     | 35 17 | 35 20  | 40 18  | 35 17  | 40 24  | 50 17  | 50 25  | 60 20  | 60 24  | 80 17  | 80 17  |
| 151-160               | 35 17                                     | 35 17 | 35 21  | 40 18  | 35 17  | 50 17  | 50 18  | 60 17  | 60 21  | 60 25  | 80 17  | 80 17  |
| 141-150               | 35 15                                     | 35 15 | 35 22  | 40 18  | 40 15  | 50 17  | 50 19  | 60 17  | 60 22  | 80 17  | 80 17  | 80 18  |
| 131-140               | 35 15                                     | 35 15 | 35 23  | 40 18  | 40 15  | 50 17  | 50 20  | 60 18  | 60 23  | 80 17  | 80 17  | 80 19  |
| 121-130               | 35 15                                     | 35 15 | 40 13  | 40 18  | 40 15  | 50 17  | 50 22  | 60 19  | 60 25  | 80 17  | 80 17  | 80 20  |
| 111-120               | 35 15                                     | 35 15 | 40 13  | 40 18  | 40 15  | 50 18  | 50 22  | 60 20  | 80 15  | 80 17  | 80 18  | 80 22  |
| 101-110               | 35 15                                     | 35 15 | 40 15  | 40 18  | 50 15  | 50 19  | 60 15  | 80 15  | 80 15  | 80 16  | 80 19  | 100 15 |
| 91-100                | 35 15                                     | 35 15 | 40 15  | 40 15  | 40 17  | 50 15  | 50 18  | 60 17  | 80 15  | 80 18  | 100 15 | 100 15 |
| 81-90                 | 35 15                                     | 35 15 | 40 15  | 40 15  | 50 15  | 50 15  | 50 18  | 60 18  | 80 15  | 80 15  | 80 16  | 100 15 |
| 71-80                 | 35 15                                     | 35 17 | 40 15  | 40 16  | 50 15  | 50 18  | 60 14  | 80 15  | 80 15  | 80 16  | 100 15 | 100 15 |
| 61-70                 | 35 15                                     | 35 19 | 40 15  | 40 19  | 50 15  | 60 15  | 60 16  | 80 15  | 80 15  | 80 18  | 100 15 | 100 15 |
| 51-60                 | 35 17                                     | 40 13 | 40 15  | 50 13  | 50 15  | 60 15  | 60 19  | 80 15  | 80 17  | 100 15 | 100 15 | 100 16 |
| 46-50                 | 40 13                                     | 40 13 | 40 16  | 50 13  | 50 16  | 60 14  | 80 13  | 80 13  | 100 13 | 100 13 | 100 14 | 100 17 |
| 41-45                 | 40 13                                     | 40 13 | 40 18  | 50 16  | 60 13  | 60 16  | 80 13  | 80 14  | 100 13 | 100 13 | 100 16 | 120 13 |
| 35-40                 | 40 13                                     | 40 14 | 50 13  | 50 16  | 60 13  | 60 19  | 80 13  | 80 17  | 100 13 | 100 14 | 100 18 | 120 14 |
| 30-35                 | 40 13                                     | 40 16 | 50 13  | 50 18  | 60 15  | 80 13  | 80 13  | 80 19  | 100 13 | 100 16 | 120 13 | 120 14 |
| 23-29                 | 40 14                                     | 50 13 | 50 16  | 60 14  | 60 19  | 80 13  | 80 17  | 100 13 | 100 16 | 120 14 | 120 15 | 120 18 |
| 17-22                 | 50 13                                     | 50 14 | 60 13  | 60 19  | 80 13  | 80 17  | 100 13 | 100 17 | 120 13 | 120 16 | 140 13 | 140 16 |
| 12-16                 | 50 15                                     | 60 13 | 60 18  | 80 13  | 80 16  | 100 13 | 100 16 | 120 14 | 120 18 | 140 15 | 140 17 | 160 15 |
| 8-11                  | 60 14                                     | 60 18 | 80 13  | 80 18  | 100 13 | 100 17 | 120 14 | 140 13 | 140 17 | 160 15 | 160 18 | 180 18 |
| 5-7                   | 80 13                                     | 80 13 | 100 13 | 100 13 | 100 18 | 120 17 | 140 14 | 180 15 | 180 14 | 200 13 | 200 15 | 240 13 |

**Notes:**

- Apply Service Factor to obtain Design Horsepower. Select small sprocket based upon Design Horsepower and RPM on this chart.
- Sprocket selections are recommended minimum. Larger sizes may be selected if required to obtain desired ratio, etc.
- To use this chart for double or triple strand chain, divide the design horsepower by the following factors:  
Double strand: 1.9, Triple strand: 2.9

|                                  |                               |                                  |                                       |
|----------------------------------|-------------------------------|----------------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT14-2 | SPECIFICATIONS<br>PAGE PT14-3 | RELATED PRODUCTS<br>PAGE PT14-28 | ENGINEERING/TECHNICAL<br>PAGE PT14-30 |
|----------------------------------|-------------------------------|----------------------------------|---------------------------------------|



## Easy Selection Table RECOMMENDED SMALL SPROCKET

| RPM<br>of small<br>Sprocket | Chain Size and No. of Teeth for Design HP |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-----------------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                             | 9   | 10     | 12     | 15     | 20     | 25     | 30     | 40     | 50     | 60     | 70     | 80     | 90     | 100    |
| 951-1000                    | 50 17                                     | 50 17  | 50 20  | 60 17  | 60 20  | 60 24  | 80 17  | 80 18  |        |        |        |        |        |        |
| 901-950                     | 50 17                                     | 50 18  | 50 21  | 60 17  | 60 21  | 60 24  | 80 17  | 80 18  |        |        |        |        |        |        |
| 851-900                     | 50 17                                     | 50 19  | 50 22  | 60 17  | 60 22  | 80 17  | 80 17  | 80 19  |        |        |        |        |        |        |
| 801-850                     | 50 18                                     | 50 20  | 50 23  | 60 17  | 60 23  | 80 17  | 80 17  | 80 20  |        |        |        |        |        |        |
| 751-800                     | 50 19                                     | 50 21  | 60 16  | 60 18  | 60 24  | 80 17  | 80 17  | 80 21  |        |        |        |        |        |        |
| 701-750                     | 50 20                                     | 50 22  | 60 17  | 60 19  | 60 25  | 80 17  | 80 17  | 80 22  | 100 17 |        |        |        |        |        |
| 651-700                     | 50 21                                     | 50 24  | 60 17  | 60 21  | 80 17  | 80 17  | 80 18  | 80 23  | 100 17 |        |        |        |        |        |
| 601-650                     | 50 23                                     | 60 16  | 60 18  | 60 22  | 80 17  | 80 17  | 80 19  | 100 17 | 100 17 |        |        |        |        |        |
| 551-600                     | 50 24                                     | 60 17  | 60 19  | 60 24  | 80 17  | 80 18  | 80 21  | 100 17 | 100 18 |        |        |        |        |        |
| 501-550                     | 60 17                                     | 60 18  | 60 21  | 80 17  | 80 17  | 80 19  | 80 22  | 100 17 | 100 20 |        |        |        |        |        |
| 471-500                     | 60 17                                     | 60 19  | 60 22  | 80 17  | 80 17  | 80 20  | 80 23  | 100 17 | 100 21 | 100 24 | 120 17 |        |        |        |
| 441-470                     | 60 18                                     | 60 20  | 60 23  | 80 17  | 80 17  | 80 21  | 100 17 | 100 18 | 100 22 | 120 17 | 120 18 |        |        |        |
| 411-440                     | 60 19                                     | 60 21  | 80 16  | 80 17  | 80 18  | 80 22  | 100 17 | 100 19 | 120 17 | 120 17 | 120 21 |        |        |        |
| 381-410                     | 60 20                                     | 60 22  | 80 17  | 80 17  | 80 19  | 80 24  | 100 17 | 100 20 | 120 17 | 120 18 | 120 21 |        |        |        |
| 351-380                     | 60 22                                     | 60 24  | 80 17  | 80 17  | 80 21  | 100 17 | 100 17 | 100 21 | 120 18 | 120 19 | 140 17 |        |        |        |
| 321-350                     | 60 23                                     | 80 17  | 80 17  | 80 17  | 80 22  | 100 17 | 100 18 | 100 24 | 120 19 | 120 21 | 140 17 | 140 18 | 140 21 |        |
| 301-320                     | 80 17                                     | 80 17  | 80 17  | 80 18  | 80 23  | 100 17 | 100 19 | 100 24 | 120 21 | 140 17 | 140 17 | 140 19 | 140 21 |        |
| 281-300                     | 80 17                                     | 80 17  | 80 17  | 80 19  | 100 17 | 100 17 | 100 20 | 120 17 | 120 21 | 140 17 | 140 18 | 140 21 | 160 17 |        |
| 261-280                     | 80 17                                     | 80 17  | 80 17  | 80 20  | 100 17 | 100 18 | 100 21 | 120 17 | 120 21 | 140 17 | 140 19 | 160 17 | 160 17 |        |
| 241-260                     | 80 17                                     | 80 17  | 80 18  | 80 22  | 100 17 | 100 19 | 100 22 | 120 18 | 140 17 | 140 17 | 140 21 | 160 18 | 160 18 | 160 20 |
| 221-240                     | 80 17                                     | 80 17  | 80 19  | 80 23  | 100 17 | 100 20 | 100 24 | 120 21 | 140 17 | 140 19 | 160 17 | 160 18 | 160 20 | 160 22 |
| 201-220                     | 80 17                                     | 80 17  | 80 20  | 100 17 | 100 18 | 100 22 | 120 17 | 120 21 | 140 17 | 160 17 | 160 17 | 160 19 | 180 17 | 160 23 |
| 181-200                     | 80 17                                     | 80 19  | 80 22  | 100 17 | 100 20 | 100 24 | 120 18 | 140 17 | 140 19 | 160 18 | 160 18 | 160 20 | 180 18 | 180 18 |
| 161-180                     | 80 19                                     | 80 21  | 80 25  | 100 17 | 100 22 | 120 17 | 120 21 | 140 17 | 140 21 | 160 19 | 160 21 | 180 17 | 180 19 | 180 21 |
| 151-160                     | 80 20                                     | 80 22  | 100 17 | 100 18 | 100 24 | 120 17 | 120 21 | 140 18 | 160 19 | 160 19 | 160 21 | 180 18 | 180 20 | 200 17 |
| 141-150                     | 80 21                                     | 100 15 | 100 17 | 100 19 | 100 24 | 120 18 | 140 16 | 140 19 | 160 19 | 160 21 | 180 17 | 180 19 | 200 16 | 200 17 |
| 131-140                     | 80 22                                     | 100 15 | 100 17 | 100 20 | 120 17 | 120 21 | 140 17 | 140 21 | 160 19 | 160 21 | 180 18 | 180 19 | 200 18 | 200 19 |
| 121-130                     | 80 24                                     | 100 16 | 100 17 | 100 21 | 120 18 | 120 21 | 140 17 | 140 21 | 160 19 | 180 17 | 180 19 | 200 17 | 200 19 | 200 21 |
| 111-120                     | 100 15                                    | 100 17 | 100 18 | 100 24 | 120 19 | 120 21 | 140 18 | 160 17 | 160 21 | 180 18 | 180 21 | 200 18 | 200 20 | 200 23 |
| 101-110                     | 100 15                                    | 100 17 | 120 15 | 120 15 | 140 15 | 140 16 | 140 19 | 160 17 | 180 16 | 180 19 | 200 17 | 200 19 | 200 21 | 240 18 |
| 91-100                      | 100 17                                    | 100 20 | 120 15 | 120 18 | 140 16 | 140 19 | 160 16 | 160 19 | 180 19 | 200 16 | 200 18 | 200 21 | 240 15 | 240 18 |
| 81-90                       | 100 18                                    | 100 15 | 120 16 | 120 18 | 140 17 | 140 19 | 160 17 | 160 21 | 200 15 | 200 18 | 200 21 | 200 23 | 240 18 | 240 18 |
| 71-80                       | 100 15                                    | 120 15 | 120 18 | 120 18 | 140 18 | 160 15 | 160 18 | 180 17 | 200 17 | 200 19 | 240 15 | 240 16 | 240 19 | 240 20 |
| 61-70                       | 100 16                                    | 120 18 | 120 19 | 140 15 | 160 15 | 160 19 | 180 15 | 200 15 | 200 19 | 240 15 | 240 17 | 240 19 | 240 21 | 240 23 |
| 51-60                       | 100 19                                    | 120 15 | 120 15 | 140 18 | 160 16 | 180 15 | 180 18 | 200 18 | 240 15 | 240 17 | 240 19 | 240 22 | 240 25 | 240 26 |
| 46-50                       | 120 13                                    | 120 14 | 120 16 | 140 13 | 160 13 | 180 16 | 200 15 | 200 19 | 240 15 | 240 18 | 240 20 | 240 24 | ....   | ....   |
| 41-45                       | 120 14                                    | 120 15 | 120 18 | 140 15 | 160 14 | 180 14 | 200 16 | 200 21 | 240 17 | 240 20 | 240 23 | 240 26 | ....   | ....   |
| 35-40                       | 120 16                                    | 120 18 | 140 14 | 140 17 | 160 16 | 180 13 | 180 15 | 240 15 | 240 19 | 240 23 | 240 26 | ....   | ....   | ....   |
| 30-35                       | 120 19                                    | 140 13 | 140 16 | 160 14 | 160 18 | 180 15 | 180 18 | 240 13 | 240 21 | 240 25 | ....   | ....   | ....   | ....   |
| 23-29                       | 140 14                                    | 140 15 | 160 13 | 160 18 | 180 16 | 200 15 | 200 17 | 240 14 | 240 18 | 240 27 | ....   | ....   | ....   | ....   |
| 17-22                       | 160 13                                    | 160 15 | 180 13 | 180 16 | 200 16 | 240 13 | 240 13 | 240 15 | 240 24 | ....   | ....   | ....   | ....   | ....   |
| 12-16                       | 160 18                                    | 180 13 | 180 16 | 200 15 | 240 13 | 240 15 | 240 21 | 240 27 | ....   | ....   | ....   | ....   | ....   | ....   |
| 8-11                        | 200 13                                    | 200 15 | 200 18 | 240 14 | 240 18 | 240 23 | ....   | ....   | ....   | ....   | ....   | ....   | ....   | ....   |
| 5-7                         | 240 13                                    | 240 15 | 240 17 | 240 22 | 240 29 | ....   | ....   | ....   | ....   | ....   | ....   | ....   | ....   | ....   |

4. Sprocket selections above the bold line are based upon ANSI horsepower ratings. Selections below the bold line are based upon the chain pull formula for slow speed drives.

5. To achieve design life keep chain free of dirt and contaminants, and apply appropriate lubrication.

|                                  |                               |                                  |                                       |
|----------------------------------|-------------------------------|----------------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT14-2 | SPECIFICATIONS<br>PAGE PT14-3 | RELATED PRODUCTS<br>PAGE PT14-28 | ENGINEERING/TECHNICAL<br>PAGE PT14-30 |
|----------------------------------|-------------------------------|----------------------------------|---------------------------------------|



**SELECTION**

**Basic Horsepower Ratings**

**35 3/8" Pitch Single Strand Roller Chain**

**HORSEPOWER RATINGS**

| No.<br>Teeth | Small Sprocket RPM |      |      |      |      |               |      |      |      |      |      |      |      |      |      |               |      |      |      |      |      |      |
|--------------|--------------------|------|------|------|------|---------------|------|------|------|------|------|------|------|------|------|---------------|------|------|------|------|------|------|
|              | 50                 | 75   | 100  | 150  | 200  | 250           | 300  | 400  | 500  | 600  | 700  | 800  | 900  | 1000 | 1200 | 1500          | 1800 | 2100 | 2500 | 3000 | 3500 | 4000 |
| 9            | 0.08               | 0.12 | 0.15 | 0.21 | 0.27 | 0.33          | 0.39 | 0.50 | 0.62 | 0.73 | 0.84 | 0.95 | 1.06 | 1.21 | 1.37 | 1.68          | 1.98 | 2.27 | 2.65 | 2.17 | 1.73 | 1.41 |
| 10           | 0.09               | 0.13 | 0.16 | 0.23 | 0.30 | 0.37          | 0.44 | 0.57 | 0.70 | 0.82 | 0.95 | 0.98 | 1.02 | 1.28 | 1.54 | 1.88          | 2.21 | 2.54 | 2.97 | 2.55 | 2.02 | 1.65 |
| 11           | 0.10               | 0.14 | 0.18 | 0.26 | 0.34 | 0.41          | 0.49 | 0.63 | 0.77 | 0.91 | 1.05 | 1.18 | 1.31 | 1.51 | 1.70 | 2.08          | 2.45 | 2.82 | 3.30 | 2.94 | 2.33 | 1.91 |
| 12           | 0.11               | 0.16 | 0.20 | 0.28 | 0.37 | 0.46          | 0.54 | 0.70 | 0.85 | 1.00 | 1.15 | 1.30 | 1.44 | 1.66 | 1.87 | 2.29          | 2.70 | 3.10 | 3.62 | 3.35 | 2.66 | 2.17 |
| 13           | 0.01               | 0.12 | 0.22 | 0.31 | 0.41 | 0.50          | 0.59 | 0.76 | 0.93 | 1.10 | 1.26 | 1.42 | 1.57 | 1.81 | 2.04 | 2.49          | 2.94 | 3.38 | 3.95 | 3.77 | 3.00 | 2.45 |
| 14           | 0.13               | 0.19 | 0.24 | 0.34 | 0.44 | 0.53          | 0.63 | 0.82 | 1.01 | 1.19 | 1.36 | 1.54 | 1.71 | 1.96 | 2.21 | 2.70          | 3.18 | 3.66 | 4.28 | 4.22 | 3.35 | 2.74 |
| 15           | 0.14               | 0.20 | 0.25 | 0.36 | 0.47 | 0.57          | 0.68 | 0.88 | 1.08 | 1.28 | 1.47 | 1.66 | 1.84 | 2.11 | 2.38 | 2.91          | 3.43 | 3.94 | 4.61 | 4.68 | 3.71 | 3.04 |
| 16           | 0.15               | 0.21 | 0.27 | 0.39 | 0.50 | 0.62          | 0.73 | 0.95 | 1.16 | 1.37 | 1.57 | 1.77 | 1.97 | 2.26 | 2.55 | 3.12          | 3.68 | 4.22 | 4.94 | 5.15 | 4.09 | 3.35 |
| 17           | 0.16               | 0.23 | 0.29 | 0.41 | 0.54 | 0.66          | 0.78 | 1.01 | 1.24 | 1.46 | 1.68 | 1.89 | 2.10 | 2.42 | 2.73 | 3.33          | 3.93 | 4.51 | 5.28 | 5.64 | 4.48 | 3.67 |
| 18           | 0.17               | 0.24 | 0.31 | 0.44 | 0.57 | 0.70          | 0.83 | 1.08 | 1.32 | 1.55 | 1.78 | 2.01 | 2.24 | 2.57 | 2.90 | 3.45          | 4.18 | 4.80 | 5.61 | 6.15 | 4.88 | 3.99 |
| 19           | 0.18               | 0.26 | 0.33 | 0.47 | 0.61 | 0.74          | 0.88 | 1.14 | 1.40 | 1.65 | 1.89 | 2.13 | 2.37 | 2.70 | 3.02 | 3.76          | 4.43 | 5.09 | 5.95 | 6.67 | 5.29 | 4.33 |
| 20           | 0.19               | 0.27 | 0.35 | 0.50 | 0.64 | 0.78          | 0.93 | 1.21 | 1.48 | 1.74 | 2.00 | 2.26 | 2.51 | 2.88 | 3.25 | 3.97          | 4.68 | 5.38 | 6.29 | 7.20 | 5.72 | 4.68 |
| 21           | 0.20               | 0.29 | 0.37 | 0.52 | 0.68 | 0.83          | 0.98 | 1.27 | 1.56 | 1.84 | 2.11 | 2.38 | 2.64 | 3.03 | 3.42 | 4.19          | 4.93 | 5.67 | 6.63 | 7.75 | 6.15 | 5.03 |
| 22           | 0.21               | 0.30 | 0.38 | 0.54 | 0.71 | 0.87          | 1.03 | 1.34 | 1.64 | 1.93 | 2.22 | 2.50 | 2.78 | 3.19 | 3.60 | 4.40          | 5.19 | 5.96 | 6.97 | 8.21 | 6.59 | 5.40 |
| 23           | 0.22               | 0.31 | 0.40 | 0.57 | 0.74 | 0.91          | 1.08 | 1.40 | 1.72 | 2.03 | 2.33 | 2.63 | 2.92 | 3.35 | 3.78 | 4.62          | 5.44 | 6.25 | 7.31 | 8.62 | 7.05 | 5.77 |
| 24           | 0.23               | 0.33 | 0.42 | 0.60 | 0.78 | 0.96          | 1.14 | 1.47 | 1.80 | 2.12 | 2.44 | 2.75 | 3.05 | 3.51 | 3.96 | 4.84          | 5.70 | 6.55 | 7.66 | 9.02 | 7.51 | 6.15 |
| 25           | 0.24               | 0.34 | 0.44 | 0.63 | 0.82 | 1.00          | 1.19 | 1.54 | 1.88 | 2.21 | 2.55 | 2.87 | 3.19 | 3.66 | 4.13 | 5.05          | 5.95 | 6.84 | 8.00 | 9.43 | 7.99 | 6.54 |
| 26           | 0.25               | 0.36 | 0.46 | 0.66 | 0.85 | 1.05          | 1.24 | 1.60 | 1.96 | 2.31 | 2.66 | 3.00 | 3.33 | 3.82 | 4.31 | 5.27          | 6.21 | 7.13 | 8.35 | 9.84 | 8.47 | 6.93 |
| 28           | 0.27               | 0.39 | 0.50 | 0.71 | 0.92 | 1.13          | 1.34 | 1.73 | 2.12 | 2.50 | 2.88 | 3.25 | 3.61 | 4.14 | 4.67 | 5.71          | 6.73 | 7.73 | 9.05 | 10.7 | 9.47 | 7.75 |
| 30           | 0.29               | 0.42 | 0.54 | 0.77 | 1.00 | 1.22          | 1.45 | 1.87 | 2.29 | 2.70 | 3.10 | 3.50 | 3.89 | 4.46 | 5.03 | 6.15          | 7.25 | 8.33 | 9.74 | 11.5 | 10.5 | 8.59 |
| 32           | 0.31               | 0.45 | 0.58 | 0.83 | 1.07 | 1.31          | 1.56 | 2.01 | 2.45 | 2.88 | 3.32 | 3.75 | 4.17 | 4.79 | 5.40 | 6.60          | 7.77 | 8.93 | 10.0 | 12.3 | 11.6 | 9.47 |
| 35           | 0.33               | 0.49 | 0.64 | 0.91 | 1.18 | 1.44          | 1.71 | 2.21 | 2.70 | 3.18 | 3.66 | 4.08 | 4.50 | 5.23 | 5.96 | 7.27          | 8.56 | 9.84 | 11.5 | 13.6 | 13.2 | 10.8 |
| 40           | 0.39               | 0.56 | 0.73 | 1.04 | 1.35 | 1.66          | 1.97 | 2.55 | 3.12 | 3.68 | 4.23 | 4.77 | 5.30 | 6.09 | 6.87 | 8.40          | 9.89 | 11.4 | 13.3 | 15.7 | 16.2 | 13.2 |
| 45           | 0.45               | 0.64 | 0.83 | 1.18 | 1.54 | 1.89          | 2.24 | 2.90 | 3.55 | 4.18 | 4.80 | 5.41 | 6.02 | 6.91 | 7.80 | 9.53          | 11.2 | 12.9 | 15.1 | 17.8 | 19.3 | 15.8 |
|              | <b>TYPE A</b>      |      |      |      |      | <b>TYPE B</b> |      |      |      |      |      |      |      |      |      | <b>TYPE C</b> |      |      |      |      |      |      |

**41 1/2" Pitch Single Strand Roller Chain**

**HORSEPOWER RATINGS**

| No.<br>Teeth | Small Sprocket RPM |      |      |      |      |               |      |      |      |      |      |      |      |      |      |               |      |      |      |      |      |      |
|--------------|--------------------|------|------|------|------|---------------|------|------|------|------|------|------|------|------|------|---------------|------|------|------|------|------|------|
|              | 10                 | 25   | 50   | 75   | 100  | 150           | 200  | 250  | 300  | 350  | 400  | 450  | 500  | 600  | 700  | 800           | 900  | 1000 | 1200 | 1400 | 1600 | 1800 |
| 9            | 0.02               | 0.05 | 0.10 | 0.14 | 0.19 | 0.28          | 0.36 | 0.44 | 0.51 | 0.59 | 0.66 | 0.74 | 0.81 | 0.96 | 1.10 | 1.24          | 1.38 | 1.52 | 1.27 | 1.01 | 0.82 | 0.69 |
| 10           | 0.03               | 0.06 | 0.11 | 0.16 | 0.21 | 0.31          | 0.40 | 0.49 | 0.57 | 0.66 | 0.74 | 0.83 | 0.91 | 1.07 | 1.23 | 1.39          | 1.54 | 1.70 | 1.49 | 1.18 | 0.96 | 0.81 |
| 11           | 0.03               | 0.07 | 0.13 | 0.19 | 0.24 | 0.34          | 0.44 | 0.54 | 0.64 | 0.73 | 0.82 | 0.92 | 1.01 | 1.19 | 1.37 | 1.54          | 1.71 | 1.88 | 1.71 | 1.36 | 1.11 | 0.93 |
| 12           | 0.03               | 0.07 | 0.14 | 0.20 | 0.26 | 0.38          | 0.49 | 0.60 | 0.70 | 0.81 | 0.91 | 1.01 | 1.11 | 1.31 | 1.50 | 1.69          | 1.88 | 2.07 | 1.95 | 1.55 | 1.27 | 1.06 |
| 13           | 0.03               | 0.08 | 0.15 | 0.22 | 0.28 | 0.40          | 0.53 | 0.64 | 0.76 | 0.88 | 0.99 | 1.10 | 1.21 | 1.42 | 1.63 | 1.84          | 2.05 | 2.25 | 2.20 | 1.75 | 1.43 | 1.20 |
| 14           | 0.03               | 0.09 | 0.16 | 0.24 | 0.31 | 0.44          | 0.57 | 0.70 | 0.83 | 0.95 | 1.07 | 1.19 | 1.31 | 1.54 | 1.77 | 2.00          | 2.22 | 2.44 | 2.46 | 1.95 | 1.60 | 1.34 |
| 15           | 0.04               | 0.09 | 0.18 | 0.26 | 0.33 | 0.48          | 0.62 | 0.76 | 0.89 | 1.02 | 1.15 | 1.28 | 1.41 | 1.66 | 1.91 | 2.15          | 2.39 | 2.63 | 2.73 | 2.17 | 1.77 | 1.49 |
| 16           | 0.04               | 0.10 | 0.19 | 0.28 | 0.36 | 0.51          | 0.66 | 0.81 | 0.95 | 1.10 | 1.24 | 1.38 | 1.51 | 1.78 | 2.05 | 2.31          | 2.57 | 2.82 | 3.01 | 2.39 | 1.95 | 1.64 |
| 17           | 0.05               | 0.11 | 0.20 | 0.29 | 0.38 | 0.55          | 0.71 | 0.87 | 1.02 | 1.17 | 1.32 | 1.47 | 1.61 | 1.89 | 2.18 | 2.46          | 2.74 | 3.01 | 3.29 | 2.61 | 2.14 | 1.79 |
| 18           | 0.05               | 0.12 | 0.22 | 0.31 | 0.40 | 0.58          | 0.75 | 0.92 | 1.08 | 1.24 | 1.40 | 1.56 | 1.72 | 2.02 | 2.32 | 2.62          | 2.91 | 3.20 | 3.59 | 2.85 | 2.33 | 1.95 |
| 19           | 0.05               | 0.12 | 0.23 | 0.33 | 0.43 | 0.62          | 0.80 | 0.98 | 1.15 | 1.32 | 1.49 | 1.65 | 1.82 | 2.14 | 2.46 | 2.78          | 3.09 | 3.40 | 3.89 | 3.09 | 2.53 | 2.12 |
| 20           | 0.06               | 0.13 | 0.24 | 0.35 | 0.45 | 0.65          | 0.84 | 1.03 | 1.21 | 1.39 | 1.57 | 1.75 | 1.92 | 2.26 | 2.60 | 2.93          | 3.26 | 3.59 | 4.20 | 3.33 | 2.73 | 2.29 |
| 21           | 0.06               | 0.14 | 0.26 | 0.37 | 0.48 | 0.69          | 0.89 | 1.09 | 1.28 | 1.47 | 1.66 | 1.85 | 2.03 | 2.39 | 2.74 | 3.09          | 3.44 | 3.78 | 4.46 | 3.59 | 2.94 | 2.46 |
| 22           | 0.06               | 0.14 | 0.27 | 0.39 | 0.50 | 0.72          | 0.93 | 1.14 | 1.35 | 1.55 | 1.74 | 1.94 | 2.13 | 2.51 | 2.89 | 3.26          | 3.62 | 3.98 | 4.69 | 3.85 | 3.15 | 2.64 |
| 23           | 0.06               | 0.15 | 0.28 | 0.41 | 0.53 | 0.76          | 0.98 | 1.20 | 1.41 | 1.62 | 1.83 | 2.04 | 2.24 | 2.64 | 3.03 | 3.42          | 3.80 | 4.17 | 4.92 | 4.11 | 3.37 | 2.82 |
| 24           | 0.07               | 0.16 | 0.29 | 0.42 | 0.55 | 0.79          | 1.03 | 1.26 | 1.48 | 1.70 | 1.92 | 2.13 | 2.34 | 2.76 | 3.17 | 3.57          | 3.97 | 4.37 | 5.15 | 4.38 | 3.59 | 3.01 |
| 25           | 0.07               | 0.17 | 0.31 | 0.44 | 0.57 | 0.82          | 1.07 | 1.31 | 1.55 | 1.77 | 2.00 | 2.23 | 2.45 | 2.88 | 3.31 | 3.73          | 4.15 | 4.57 | 5.38 | 4.66 | 3.81 | 3.20 |
| 26           | 0.07               | 0.17 | 0.32 | 0.46 | 0.60 | 0.86          | 1.12 | 1.37 | 1.61 | 1.85 | 2.09 | 2.32 | 2.55 | 3.01 | 3.46 | 3.90          | 4.33 | 4.76 | 5.61 | 4.94 | 4.05 | 3.39 |
| 28           | 0.08               | 0.19 | 0.35 | 0.50 | 0.65 | 0.93          | 1.21 | 1.48 | 1.75 | 2.01 | 2.26 | 2.52 | 2.77 | 3.26 | 3.74 | 4.22          | 4.69 | 5.16 | 6.08 | 5.52 | 4.52 | 3.79 |
| 30           | 0.08               | 0.20 | 0.38 | 0.54 | 0.70 | 1.00          | 1.31 | 1.60 | 1.88 | 2.16 | 2.44 | 2.71 | 2.98 | 3.51 | 4.03 | 4.55          | 5.06 | 5.56 | 6.55 | 6.13 | 5.01 | 4.20 |
| 32           | 0.09               | 0.22 | 0.40 | 0.58 | 0.75 | 1.08          | 1.40 | 1.71 | 2.02 | 2.32 | 2.61 | 2.91 | 3.20 | 3.77 | 4.33 | 4.88          | 5.42 | 5.96 | 7.03 | 6.75 | 5.52 | 4.63 |
| 35           | 0.10               | 0.24 | 0.44 | 0.64 | 0.83 | 1.19          | 1.54 | 1.88 | 2.22 | 2.55 | 2.88 | 3.20 | 3.52 | 4.14 | 4.76 | 5.37          | 5.97 | 6.57 | 7.74 | 7.72 | 6.32 | 5.29 |
| 40           | 0.12               | 0.27 | 0.51 | 0.74 | 0.96 | 1.37          | 1.78 | 2.18 | 2.57 | 2.95 | 3.33 | 3.70 | 4.07 | 4.79 | 5.50 | 6.20          | 6.90 | 7.59 | 8.94 | 9.43 | 7.72 | 6.47 |
| 45           | 0.14               | 0.31 | 0.58 | 0.83 | 1.08 | 1.55          | 2.02 | 2.47 | 2.92 | 3.35 | 3.78 | 4.20 | 4.62 | 5.44 | 6.25 | 7.05          | 7.84 | 8.62 | 10.2 | 11.3 | 9.21 | 7.72 |
|              | <b>TYPE A</b>      |      |      |      |      | <b>TYPE B</b> |      |      |      |      |      |      |      |      |      | <b>TYPE C</b> |      |      |      |      |      |      |

**Lubrication Note**

TYPE A: Manual or Drip  
 TYPE B: Bath or Disc  
 TYPE C: Oil Stream

**Multiple Strand Chain HP Factors:**

|               |     |
|---------------|-----|
| Single Strand | 1.0 |
| Double Strand | 1.9 |
| Triple Strand | 2.8 |

|                                  |                               |                                  |                                       |
|----------------------------------|-------------------------------|----------------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT14-2 | SPECIFICATIONS<br>PAGE PT14-3 | RELATED PRODUCTS<br>PAGE PT14-28 | ENGINEERING/TECHNICAL<br>PAGE PT14-30 |
|----------------------------------|-------------------------------|----------------------------------|---------------------------------------|

V-Drives

FHP Drives

Drive Component  
Accessories

DYNA-SYNC

HT200/HTD  
Synchronous Drives

HT500  
Synchronous Drives

Roller Chain Sprockets





## Basic Horsepower Ratings

| 40        |                    | 1/2" Pitch Single Strand Roller Chain |      |      |      |      |      |      |      |        |      |      |      |      |      |      |      |      |        | HORSEPOWER RATINGS |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------|--------------------|---------------------------------------|------|------|------|------|------|------|------|--------|------|------|------|------|------|------|------|------|--------|--------------------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| No. Teeth | Small Sprocket RPM |                                       |      |      |      |      |      |      |      |        |      |      |      |      |      |      |      |      |        |                    |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|           | 10                 | 25                                    | 50   | 75   | 100  | 150  | 200  | 250  | 300  | 350    | 400  | 450  | 500  | 600  | 700  | 800  | 900  | 1000 | 1200   | 1400               | 1600 | 1800 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9         | 0.04               | 0.10                                  | 0.19 | 0.27 | 0.35 | 0.50 | 0.65 | 0.79 | 0.93 | 1.07   | 1.21 | 1.35 | 1.48 | 1.74 | 2.00 | 2.26 | 2.51 | 2.75 | 3.25   | 3.73               | 4.12 | 3.45 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10        | 0.05               | 0.11                                  | 0.21 | 0.30 | 0.38 | 0.56 | 0.73 | 0.89 | 1.04 | 1.20   | 1.35 | 1.50 | 1.65 | 1.95 | 2.24 | 2.53 | 2.81 | 3.09 | 3.64   | 4.18               | 4.71 | 4.04 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11        | 0.05               | 0.12                                  | 0.23 | 0.33 | 0.43 | 0.62 | 0.80 | 0.98 | 1.16 | 1.33   | 1.50 | 1.67 | 1.83 | 2.16 | 2.48 | 2.80 | 3.11 | 3.42 | 4.03   | 4.63               | 5.22 | 4.66 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12        | 0.06               | 0.14                                  | 0.25 | 0.36 | 0.47 | 0.68 | 0.88 | 1.08 | 1.27 | 1.46   | 1.65 | 1.83 | 2.01 | 2.37 | 2.73 | 3.08 | 3.42 | 3.76 | 4.43   | 5.09               | 5.74 | 5.31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13        | 0.06               | 0.15                                  | 0.28 | 0.40 | 0.52 | 0.74 | 0.96 | 1.17 | 1.39 | 1.60   | 1.80 | 2.00 | 2.20 | 2.59 | 2.97 | 3.35 | 3.73 | 4.10 | 4.83   | 5.55               | 6.26 | 5.99 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14        | 0.07               | 0.16                                  | 0.30 | 0.43 | 0.56 | 0.80 | 1.04 | 1.27 | 1.50 | 1.73   | 1.95 | 2.16 | 2.38 | 2.80 | 3.22 | 3.63 | 4.04 | 4.44 | 5.23   | 6.01               | 6.78 | 6.70 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15        | 0.07               | 0.17                                  | 0.32 | 0.46 | 0.60 | 0.86 | 1.12 | 1.37 | 1.62 | 1.86   | 2.10 | 2.33 | 2.56 | 3.02 | 3.47 | 3.91 | 4.35 | 4.78 | 5.64   | 6.47               | 7.30 | 7.43 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16        | 0.08               | 0.19                                  | 0.35 | 0.50 | 0.65 | 0.93 | 1.20 | 1.47 | 1.74 | 2.00   | 2.25 | 2.50 | 2.75 | 3.24 | 3.72 | 4.19 | 4.66 | 5.13 | 6.04   | 6.94               | 7.83 | 8.18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17        | 0.09               | 0.20                                  | 0.37 | 0.53 | 0.69 | 0.99 | 1.29 | 1.57 | 1.85 | 2.13   | 2.40 | 2.67 | 2.93 | 3.45 | 3.97 | 4.48 | 4.98 | 5.48 | 6.45   | 7.41               | 8.36 | 8.96 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18        | 0.09               | 0.21                                  | 0.39 | 0.56 | 0.73 | 1.05 | 1.37 | 1.66 | 1.95 | 2.25   | 2.55 | 2.84 | 3.12 | 3.67 | 4.22 | 4.76 | 5.30 | 5.82 | 6.86   | 7.88               | 8.89 | 9.76 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19        | 0.10               | 0.22                                  | 0.42 | 0.60 | 0.78 | 1.12 | 1.45 | 1.77 | 2.09 | 2.40   | 2.71 | 3.01 | 3.31 | 3.90 | 4.48 | 5.05 | 5.62 | 6.17 | 7.27   | 8.4                | 9.4  | 10.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20        | 0.11               | 0.24                                  | 0.44 | 0.63 | 0.82 | 1.17 | 1.53 | 1.87 | 2.21 | 2.54   | 2.86 | 3.18 | 3.50 | 4.12 | 4.73 | 5.34 | 5.94 | 6.53 | 7.69   | 8.8                | 10.0 | 11.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21        | 0.11               | 0.25                                  | 0.46 | 0.67 | 0.87 | 1.25 | 1.62 | 1.98 | 2.33 | 2.68   | 3.02 | 3.36 | 3.69 | 4.34 | 4.99 | 5.63 | 6.26 | 6.88 | 8.11   | 9.3                | 10.5 | 11.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22        | 0.12               | 0.26                                  | 0.49 | 0.70 | 0.91 | 1.31 | 1.70 | 2.08 | 2.45 | 2.81   | 3.17 | 3.53 | 3.88 | 4.57 | 5.25 | 5.92 | 6.58 | 7.23 | 8.52   | 9.8                | 11.0 | 12.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23        | 0.13               | 0.27                                  | 0.51 | 0.74 | 0.96 | 1.37 | 1.78 | 2.18 | 2.57 | 2.95   | 3.33 | 3.70 | 4.07 | 4.79 | 5.51 | 6.21 | 6.90 | 7.59 | 8.94   | 10.3               | 11.6 | 12.9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24        | 0.13               | 0.29                                  | 0.54 | 0.77 | 1.00 | 1.43 | 1.87 | 2.28 | 2.69 | 3.09   | 3.48 | 3.87 | 4.26 | 5.01 | 5.8  | 6.5  | 7.2  | 8.0  | 9.4    | 10.8               | 12.1 | 13.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25        | 0.14               | 0.30                                  | 0.56 | 0.80 | 1.05 | 1.50 | 1.95 | 2.38 | 2.81 | 3.22   | 3.64 | 4.05 | 4.45 | 5.24 | 6.0  | 6.8  | 7.6  | 8.3  | 9.8    | 11.2               | 12.7 | 14.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 26        | 0.15               | 0.31                                  | 0.58 | 0.84 | 1.09 | 1.57 | 2.04 | 2.49 | 2.93 | 3.37   | 3.80 | 4.22 | 4.64 | 5.46 | 6.3  | 7.1  | 7.9  | 8.7  | 10.2   | 11.7               | 13.2 | 14.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 28        | 0.16               | 0.34                                  | 0.63 | 0.91 | 1.18 | 1.69 | 2.20 | 2.69 | 3.18 | 3.64   | 4.11 | 4.57 | 5.03 | 5.92 | 6.8  | 7.7  | 8.5  | 9.4  | 11.1   | 12.7               | 14.3 | 15.9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30        | 0.16               | 0.37                                  | 0.68 | 0.98 | 1.27 | 1.83 | 2.38 | 2.90 | 3.42 | 3.93   | 4.43 | 4.93 | 5.42 | 6.38 | 7.3  | 8.3  | 9.2  | 10.1 | 11.9   | 13.7               | 15.4 | 17.2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 32        | 0.17               | 0.39                                  | 0.73 | 1.05 | 1.36 | 1.96 | 2.55 | 3.11 | 3.67 | 4.21   | 4.75 | 5.28 | 5.81 | 6.84 | 7.9  | 8.9  | 9.9  | 10.8 | 12.8   | 14.7               | 16.5 | 18.4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35        | 0.19               | 0.43                                  | 0.81 | 1.16 | 1.50 | 2.16 | 2.81 | 3.43 | 4.04 | 4.64   | 5.24 | 5.82 | 6.40 | 7.53 | 8.7  | 9.8  | 10.9 | 11.9 | 14.1   | 16.2               | 18.2 | 20.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40        | 0.22               | 0.50                                  | 0.93 | 1.34 | 1.74 | 2.49 | 3.24 | 3.95 | 4.67 | 5.36   | 6.05 | 6.72 | 7.39 | 8.70 | 10.0 | 11.3 | 12.5 | 13.8 | 16.3   | 18.7               | 21.1 | 23.4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45        | 0.25               | 0.57                                  | 1.06 | 1.52 | 1.97 | 2.83 | 3.68 | 4.49 | 5.30 | 6.09   | 6.87 | 7.64 | 8.40 | 9.90 | 11.4 | 12.8 | 14.2 | 15.7 | 18.5   | 21.2               | 23.9 | 26.6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|           | TYPE A             |                                       |      |      |      |      |      |      |      | TYPE B |      |      |      |      |      |      |      |      | TYPE C |                    |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| 50        |                    | 5/8" Pitch Single Strand Roller Chain |      |      |      |      |      |      |      |        |      |      |      |      |      |      |      |      |        | HORSEPOWER RATINGS |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------|--------------------|---------------------------------------|------|------|------|------|------|------|------|--------|------|------|------|------|------|------|------|------|--------|--------------------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| No. Teeth | Small Sprocket RPM |                                       |      |      |      |      |      |      |      |        |      |      |      |      |      |      |      |      |        |                    |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|           | 10                 | 25                                    | 50   | 75   | 100  | 150  | 200  | 250  | 300  | 350    | 400  | 450  | 500  | 600  | 700  | 800  | 900  | 1000 | 1200   | 1400               | 1600 | 1800 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9         | 0.09               | 0.19                                  | 0.36 | 0.52 | 0.67 | 0.97 | 1.26 | 1.53 | 1.81 | 2.08   | 2.35 | 2.61 | 2.87 | 3.38 | 3.89 | 4.39 | 4.88 | 5.36 | 6.32   | 6.02               | 4.92 | 4.13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10        | 0.10               | 0.22                                  | 0.41 | 0.58 | 0.76 | 1.09 | 1.41 | 1.72 | 2.03 | 2.33   | 2.63 | 2.93 | 3.22 | 3.79 | 4.36 | 4.91 | 5.46 | 6.01 | 7.08   | 7.05               | 5.77 | 4.83 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11        | 0.11               | 0.24                                  | 0.45 | 0.65 | 0.84 | 1.20 | 1.56 | 1.91 | 2.25 | 2.59   | 2.92 | 3.25 | 3.57 | 4.20 | 4.83 | 5.45 | 6.06 | 6.66 | 7.85   | 8.13               | 6.65 | 5.58 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12        | 0.12               | 0.26                                  | 0.49 | 0.71 | 0.92 | 1.32 | 1.72 | 2.10 | 2.47 | 2.84   | 3.21 | 3.57 | 3.92 | 4.62 | 5.31 | 5.98 | 6.65 | 7.31 | 8.62   | 9.26               | 7.58 | 6.35 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13        | 0.13               | 0.29                                  | 0.54 | 0.77 | 1.00 | 1.44 | 1.87 | 2.29 | 2.70 | 3.10   | 3.50 | 3.89 | 4.27 | 5.03 | 5.78 | 6.52 | 7.25 | 8.0  | 9.4    | 10.4               | 8.6  | 7.2  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14        | 0.14               | 0.31                                  | 0.58 | 0.84 | 1.09 | 1.56 | 2.03 | 2.48 | 2.92 | 3.36   | 3.79 | 4.21 | 4.63 | 5.45 | 6.27 | 7.07 | 7.86 | 8.6  | 10.2   | 11.7               | 9.6  | 8.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15        | 0.15               | 0.34                                  | 0.63 | 0.90 | 1.17 | 1.68 | 2.19 | 2.67 | 3.15 | 3.62   | 4.08 | 4.54 | 4.99 | 5.87 | 6.75 | 7.61 | 8.47 | 9.3  | 11.0   | 12.6               | 10.6 | 8.9  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16        | 0.16               | 0.36                                  | 0.67 | 0.97 | 1.26 | 1.80 | 2.34 | 2.86 | 3.38 | 3.88   | 4.37 | 4.86 | 5.35 | 6.30 | 7.24 | 8.16 | 9.08 | 10.0 | 11.8   | 13.5               | 11.7 | 9.8  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17        | 0.17               | 0.39                                  | 0.72 | 1.03 | 1.34 | 1.92 | 2.50 | 3.06 | 3.61 | 4.14   | 4.67 | 5.19 | 5.71 | 6.72 | 7.73 | 8.71 | 9.69 | 10.7 | 12.6   | 14.4               | 12.8 | 10.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18        | 0.18               | 0.41                                  | 0.76 | 1.10 | 1.43 | 2.05 | 2.66 | 3.25 | 3.83 | 4.40   | 4.97 | 5.52 | 6.07 | 7.15 | 8.22 | 9.3  | 10.3 | 11.3 | 13.4   | 15.3               | 13.9 | 11.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19        | 0.19               | 0.43                                  | 0.81 | 1.16 | 1.51 | 2.15 | 2.82 | 3.45 | 4.07 | 4.67   | 5.27 | 5.86 | 6.44 | 7.58 | 8.72 | 9.8  | 10.9 | 12.0 | 14.2   | 16.3               | 15.1 | 12.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20        | 0.20               | 0.46                                  | 0.86 | 1.23 | 1.60 | 2.29 | 2.98 | 3.64 | 4.30 | 4.94   | 5.57 | 6.19 | 6.80 | 8.01 | 9.21 | 10.4 | 11.5 | 12.7 | 15.0   | 17.2               | 16.3 | 13.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21        | 0.21               | 0.48                                  | 0.90 | 1.30 | 1.69 | 2.42 | 3.14 | 3.84 | 4.53 | 5.20   | 5.87 | 6.52 | 7.17 | 8.44 | 9.71 | 11.0 | 12.2 | 13.4 | 15.8   | 18.1               | 17.6 | 14.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22        | 0.22               | 0.51                                  | 0.95 | 1.36 | 1.77 | 2.54 | 3.31 | 4.03 | 4.76 | 5.47   | 6.17 | 6.86 | 7.54 | 8.9  | 10.2 | 11.5 | 12.8 | 14.1 | 16.6   | 19.1               | 18.8 | 15.8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23        | 0.23               | 0.53                                  | 1.00 | 1.43 | 1.86 | 2.67 | 3.47 | 4.24 | 5.00 | 5.74   | 6.47 | 7.19 | 7.91 | 9.3  | 10.7 | 12.0 | 13.4 | 14.8 | 17.4   | 20.0               | 20.1 | 16.9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24        | 0.25               | 0.56                                  | 1.04 | 1.50 | 1.95 | 2.79 | 3.63 | 4.43 | 5.23 | 6.01   | 6.78 | 7.54 | 8.29 | 9.7  | 11.2 | 12.7 | 14.1 | 15.5 | 18.2   | 20.9               | 21.4 | 18.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25        | 0.26               | 0.58                                  | 1.09 | 1.56 | 2.03 | 2.92 | 3.80 | 4.64 | 5.47 | 6.28   | 7.08 | 7.87 | 8.66 | 10.2 | 11.7 | 13.2 | 14.7 | 16.2 | 19.0   | 21.9               | 22.8 | 19.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 26        | 0.27               | 0.61                                  | 1.14 | 1.63 | 2.12 | 3.04 | 3.96 | 4.83 | 5.70 | 6.55   | 7.39 | 8.21 | 9.03 | 10.6 | 12.2 | 13.8 | 15.3 | 16.9 | 19.9   | 22.8               | 24.2 | 20.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 28        | 0.29               | 0.66                                  | 1.23 | 1.77 | 2.30 | 3.30 | 4.29 | 5.24 | 6.18 | 7.10   | 8.01 | 8.90 | 9.79 | 11.5 | 13.2 | 14.9 | 16.6 | 18.3 | 21.5   | 24.7               | 27.0 | 22.6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30        | 0.31               | 0.71                                  | 1.33 | 1.90 | 2.48 | 3.55 | 4.62 | 5.64 | 6.66 | 7.65   | 8.6  | 9.6  | 10.5 | 12.4 | 14.3 | 16.1 | 17.9 | 19.7 | 23.2   | 26.6               | 30.0 | 25.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 32        | 0.33               | 0.76                                  | 1.42 | 2.04 | 2.66 | 3.81 | 4.96 | 6.05 | 7.14 | 8.20   | 9.3  | 10.3 | 11.3 | 13.3 | 15.3 | 17.3 | 19.2 | 21.1 | 24.9   | 28.6               | 32.2 | 27.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35        | 0.37               | 0.84                                  | 1.57 | 2.25 | 2.93 | 4.20 | 5.46 | 6.66 | 7.86 | 9.03   | 10.2 | 11.4 | 12.5 | 14.7 | 16.9 | 19.0 | 21.1 | 23.2 | 27.4   | 31.5               | 35.5 | 31.6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40        | 0.43               | 0.97                                  | 1.81 | 2.60 | 3.38 | 4.85 | 6.31 | 7.70 | 9.1  | 10.4   | 11.8 | 13.1 | 14.4 | 17.0 | 19.5 | 22.0 | 24.4 | 26.8 | 31.6   | 36.3               | 41.0 | 38.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45        | 0.48               | 1.10                                  | 2.06 | 2.95 | 3.84 | 5.50 | 7.16 | 8.73 | 10.3 | 11.9   | 13.4 | 14.9 | 16.3 | 19.2 | 22.1 | 24.9 | 27.7 | 30.5 | 35.9   | 41.3               | 46.5 | 46.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|           | TYPE A             |                                       |      |      |      |      |      |      |      | TYPE B |      |      |      |      |      |      |      |      | TYPE C |                    |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

### Lubrication Note

- TYPE A: Manual or Drip
- TYPE B: Bath or Disc
- TYPE C: Oil Stream

### Multiple Strand Chain HP Factors:

|               |     |
|---------------|-----|
| Single Strand | 1.0 |
| Double Strand | 1.9 |
| Triple Strand | 2.8 |

|                                  |                               |                                  |                                       |
|----------------------------------|-------------------------------|----------------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT14-2 | SPECIFICATIONS<br>PAGE PT14-3 | RELATED PRODUCTS<br>PAGE PT14-28 | ENGINEERING/TECHNICAL<br>PAGE PT14-30 |
|----------------------------------|-------------------------------|----------------------------------|---------------------------------------|





# SELECTION

## Basic Horsepower Ratings

### 60 3/4" Pitch Single Strand Roller Chain

### HORSEPOWER RATINGS

| No. Teeth | Small Sprocket RPM |      |      |      |        |      |      |      |      |      |      |      |        |      |      |      |      |      |      |      |      |      |
|-----------|--------------------|------|------|------|--------|------|------|------|------|------|------|------|--------|------|------|------|------|------|------|------|------|------|
|           | 10                 | 25   | 50   | 75   | 100    | 125  | 150  | 175  | 200  | 250  | 300  | 350  | 400    | 500  | 600  | 700  | 800  | 900  | 1000 | 1200 | 1400 | 1600 |
| 9         | 0.15               | 0.33 | 0.62 | 0.89 | 1.16   | 1.42 | 1.67 | 1.91 | 2.16 | 2.64 | 3.12 | 3.58 | 4.04   | 4.94 | 5.82 | 6.68 | 7.54 | 8.38 | 9.21 | 8.77 | 6.96 | 5.70 |
| 10        | 0.16               | 0.37 | 0.70 | 1.00 | 1.30   | 1.59 | 1.87 | 2.15 | 2.43 | 2.96 | 3.49 | 4.01 | 4.53   | 5.53 | 6.52 | 7.49 | 8.44 | 9.39 | 10.3 | 10.3 | 8.15 | 6.67 |
| 11        | 0.18               | 0.41 | 0.77 | 1.11 | 1.44   | 1.76 | 2.07 | 2.38 | 2.69 | 3.28 | 3.87 | 4.44 | 5.02   | 6.13 | 7.23 | 8.30 | 9.36 | 10.4 | 11.4 | 11.9 | 9.4  | 7.70 |
| 12        | 0.20               | 0.45 | 0.85 | 1.22 | 1.58   | 1.93 | 2.28 | 2.62 | 2.95 | 3.60 | 4.25 | 4.88 | 5.51   | 6.74 | 7.94 | 9.12 | 10.3 | 11.4 | 12.6 | 13.5 | 10.7 | 8.77 |
| 13        | 0.22               | 0.50 | 0.92 | 1.33 | 1.73   | 2.11 | 2.49 | 2.86 | 3.22 | 3.93 | 4.64 | 5.33 | 6.01   | 7.34 | 8.65 | 9.94 | 11.2 | 12.5 | 13.7 | 15.2 | 12.1 | 9.89 |
| 14        | 0.24               | 0.54 | 1.00 | 1.44 | 1.87   | 2.28 | 2.69 | 3.09 | 3.49 | 4.26 | 5.02 | 5.77 | 6.51   | 7.96 | 9.37 | 10.8 | 12.1 | 13.5 | 14.8 | 17.0 | 13.5 | 11.1 |
| 15        | 0.25               | 0.58 | 1.08 | 1.55 | 2.01   | 2.46 | 2.90 | 3.33 | 3.76 | 4.59 | 5.41 | 6.21 | 7.01   | 8.57 | 10.1 | 11.6 | 13.1 | 14.5 | 16.0 | 18.8 | 15.0 | 12.3 |
| 16        | 0.27               | 0.62 | 1.16 | 1.66 | 2.16   | 2.64 | 3.11 | 3.57 | 4.03 | 4.92 | 5.80 | 6.66 | 7.52   | 9.19 | 10.8 | 12.4 | 14.0 | 15.6 | 17.1 | 20.2 | 16.5 | 13.5 |
| 17        | 0.29               | 0.66 | 1.24 | 1.78 | 2.31   | 2.82 | 3.32 | 3.81 | 4.30 | 5.25 | 6.20 | 7.12 | 8.03   | 9.81 | 11.6 | 13.3 | 15.0 | 16.7 | 18.3 | 21.6 | 18.1 | 14.8 |
| 18        | 0.31               | 0.70 | 1.31 | 1.88 | 2.45   | 2.99 | 3.53 | 4.05 | 4.58 | 5.59 | 6.59 | 7.57 | 8.54   | 10.4 | 12.3 | 14.1 | 15.9 | 17.7 | 19.5 | 22.9 | 19.7 | 16.1 |
| 19        | 0.33               | 0.75 | 1.39 | 2.00 | 2.60   | 3.17 | 3.74 | 4.30 | 4.85 | 5.92 | 6.99 | 8.02 | 9.05   | 11.1 | 13.0 | 15.0 | 16.9 | 18.8 | 20.6 | 24.3 | 21.4 | 17.5 |
| 20        | 0.35               | 0.79 | 1.47 | 2.11 | 2.75   | 3.36 | 3.96 | 4.55 | 5.13 | 6.26 | 7.38 | 8.48 | 9.57   | 11.7 | 13.8 | 15.8 | 17.9 | 19.8 | 21.8 | 25.7 | 23.1 | 18.9 |
| 21        | 0.36               | 0.83 | 1.55 | 2.23 | 2.90   | 3.54 | 4.17 | 4.79 | 5.40 | 6.59 | 7.78 | 8.94 | 10.1   | 12.3 | 14.5 | 16.7 | 18.8 | 20.9 | 23.0 | 27.1 | 24.8 | 20.3 |
| 22        | 0.38               | 0.87 | 1.63 | 2.34 | 3.05   | 3.72 | 4.39 | 5.04 | 5.68 | 6.94 | 8.19 | 9.40 | 10.6   | 13.0 | 15.3 | 17.5 | 19.8 | 22.0 | 24.2 | 28.5 | 26.6 | 21.8 |
| 23        | 0.40               | 0.92 | 1.71 | 2.45 | 3.19   | 3.90 | 4.60 | 5.28 | 5.96 | 7.28 | 8.59 | 9.85 | 11.1   | 13.6 | 16.0 | 18.4 | 20.8 | 23.1 | 25.4 | 29.9 | 28.4 | 23.3 |
| 24        | 0.42               | 0.96 | 1.79 | 2.57 | 3.35   | 4.09 | 4.82 | 5.53 | 6.24 | 7.62 | 8.99 | 10.3 | 11.6   | 14.2 | 16.8 | 19.3 | 21.7 | 24.2 | 26.6 | 31.3 | 30.3 | 24.8 |
| 25        | 0.44               | 1.00 | 1.87 | 2.68 | 3.50   | 4.27 | 5.04 | 5.78 | 6.52 | 7.96 | 9.40 | 10.8 | 12.2   | 14.9 | 17.5 | 20.1 | 22.7 | 25.3 | 27.8 | 32.7 | 32.2 | 26.4 |
| 26        | 0.46               | 1.05 | 1.95 | 2.80 | 3.65   | 4.45 | 5.25 | 6.03 | 6.81 | 8.31 | 9.80 | 11.3 | 12.7   | 15.5 | 18.3 | 21.0 | 23.7 | 26.4 | 29.0 | 34.1 | 34.2 | 28.0 |
| 28        | 0.50               | 1.13 | 2.12 | 3.04 | 3.95   | 4.82 | 5.69 | 6.53 | 7.37 | 8.99 | 10.6 | 12.2 | 13.8   | 16.8 | 19.8 | 22.8 | 25.7 | 28.5 | 31.4 | 37.0 | 38.2 | 31.3 |
| 30        | 0.54               | 1.22 | 2.28 | 3.27 | 4.26   | 5.20 | 6.13 | 7.04 | 7.94 | 9.67 | 11.4 | 13.1 | 14.8   | 18.1 | 21.4 | 24.5 | 27.7 | 30.8 | 33.8 | 39.8 | 42.4 | 34.7 |
| 32        | 0.57               | 1.31 | 2.45 | 3.51 | 4.56   | 5.57 | 6.57 | 7.55 | 8.52 | 10.4 | 12.3 | 14.1 | 15.9   | 19.4 | 22.9 | 26.3 | 29.7 | 33.0 | 36.3 | 42.7 | 46.7 | 38.2 |
| 35        | 0.63               | 1.44 | 2.69 | 3.86 | 5.03   | 6.14 | 7.24 | 8.31 | 9.38 | 11.4 | 13.5 | 15.5 | 17.5   | 21.4 | 25.2 | 29.0 | 32.7 | 36.3 | 39.9 | 47.1 | 53.4 | 43.7 |
| 40        | 0.73               | 1.67 | 3.11 | 4.46 | 5.81   | 7.09 | 8.37 | 9.59 | 10.8 | 13.2 | 15.6 | 17.9 | 20.2   | 24.7 | 29.1 | 33.5 | 37.7 | 42.0 | 46.1 | 54.4 | 62.5 | 53.4 |
| 45        | 0.83               | 1.89 | 3.53 | 5.07 | 6.60   | 8.05 | 9.50 | 10.9 | 12.3 | 15.0 | 17.7 | 20.4 | 23.0   | 28.1 | 33.1 | 38.0 | 42.9 | 47.7 | 52.4 | 61.7 | 70.9 | 63.7 |
|           | TYPE A             |      |      |      | TYPE B |      |      |      |      |      |      |      | TYPE C |      |      |      |      |      |      |      |      |      |

### 80 1" Pitch Single Strand Roller Chain

### HORSEPOWER RATINGS

| No. Teeth | Small Sprocket RPM |      |      |      |        |      |      |      |      |      |      |      |        |      |      |      |      |      |      |      |      |      |
|-----------|--------------------|------|------|------|--------|------|------|------|------|------|------|------|--------|------|------|------|------|------|------|------|------|------|
|           | 10                 | 25   | 50   | 75   | 100    | 125  | 150  | 175  | 200  | 250  | 300  | 350  | 400    | 500  | 600  | 700  | 800  | 900  | 1000 | 1200 | 1400 | 1600 |
| 9         | 0.34               | 0.78 | 1.45 | 2.08 | 2.71   | 3.31 | 3.90 | 4.48 | 5.05 | 6.17 | 7.28 | 8.36 | 9.43   | 11.5 | 13.6 | 15.6 | 17.6 | 19.0 | 14.5 | 11.0 | 8.76 | 7.17 |
| 10        | 0.38               | 0.87 | 1.63 | 2.33 | 3.03   | 3.70 | 4.37 | 5.02 | 5.66 | 6.91 | 8.16 | 9.38 | 10.6   | 12.9 | 15.2 | 17.5 | 19.7 | 19.9 | 17.0 | 12.9 | 10.3 | 8.40 |
| 11        | 0.42               | 0.97 | 1.80 | 2.58 | 3.36   | 4.10 | 4.84 | 5.56 | 6.28 | 7.66 | 9.04 | 10.4 | 11.7   | 14.3 | 16.9 | 19.4 | 21.9 | 23.0 | 19.6 | 14.9 | 11.8 | 9.69 |
| 12        | 0.47               | 1.06 | 1.98 | 2.84 | 3.69   | 4.51 | 5.32 | 6.11 | 6.89 | 8.41 | 9.93 | 11.4 | 12.9   | 15.7 | 18.5 | 21.3 | 24.0 | 26.2 | 22.3 | 17.0 | 13.5 | 11.0 |
| 13        | 0.51               | 1.16 | 2.16 | 3.10 | 4.03   | 4.91 | 5.80 | 6.66 | 7.52 | 9.16 | 10.8 | 12.4 | 14.0   | 17.1 | 20.2 | 23.2 | 26.2 | 29.1 | 25.2 | 19.2 | 15.2 | 12.5 |
| 14        | 0.55               | 1.25 | 2.34 | 3.35 | 4.36   | 5.33 | 6.29 | 7.22 | 8.14 | 9.92 | 11.7 | 13.4 | 15.2   | 18.6 | 21.9 | 25.1 | 28.4 | 31.5 | 28.2 | 21.4 | 17.0 | 13.9 |
| 15        | 0.59               | 1.35 | 2.52 | 3.61 | 4.70   | 5.74 | 6.77 | 7.77 | 8.77 | 10.7 | 12.6 | 14.5 | 16.4   | 20.0 | 23.6 | 27.1 | 30.6 | 34.0 | 31.2 | 23.8 | 18.9 | 15.4 |
| 16        | 0.63               | 1.45 | 2.70 | 3.87 | 5.04   | 6.15 | 7.26 | 8.34 | 9.41 | 11.5 | 13.5 | 15.6 | 17.6   | 21.5 | 25.3 | 29.0 | 32.8 | 36.4 | 34.4 | 26.2 | 20.8 | 17.0 |
| 17        | 0.68               | 1.55 | 2.88 | 4.13 | 5.38   | 6.57 | 7.75 | 8.88 | 10.0 | 12.3 | 14.5 | 16.6 | 18.7   | 22.9 | 27.0 | 31.0 | 35.0 | 38.9 | 37.7 | 28.7 | 22.7 | 18.6 |
| 18        | 0.72               | 1.64 | 3.07 | 4.40 | 5.72   | 6.99 | 8.25 | 9.48 | 10.7 | 13.1 | 15.4 | 17.6 | 19.9   | 24.4 | 28.7 | 33.0 | 37.2 | 41.4 | 41.1 | 31.2 | 24.8 | 20.3 |
| 19        | 0.76               | 1.74 | 3.25 | 4.66 | 6.07   | 7.41 | 8.74 | 10.0 | 11.3 | 13.8 | 16.3 | 18.7 | 21.1   | 25.8 | 30.4 | 35.0 | 39.4 | 43.8 | 44.5 | 33.9 | 26.9 | 22.0 |
| 20        | 0.81               | 1.84 | 3.44 | 4.93 | 6.41   | 7.83 | 9.24 | 10.6 | 12.0 | 14.6 | 17.2 | 19.7 | 22.3   | 27.3 | 32.2 | 37.0 | 41.7 | 46.3 | 48.1 | 36.6 | 29.0 | 23.8 |
| 21        | 0.85               | 1.94 | 3.62 | 5.19 | 6.76   | 8.25 | 9.74 | 11.2 | 12.6 | 15.4 | 18.2 | 20.9 | 23.5   | 28.8 | 33.9 | 39.0 | 43.9 | 48.9 | 51.7 | 39.4 | 31.2 | 25.6 |
| 22        | 0.90               | 2.04 | 3.81 | 5.46 | 7.11   | 8.66 | 10.2 | 11.8 | 13.3 | 16.2 | 19.1 | 22.0 | 24.8   | 30.3 | 35.7 | 41.0 | 46.2 | 51.4 | 55.5 | 42.2 | 33.5 | 27.4 |
| 23        | 0.94               | 2.14 | 4.00 | 5.73 | 7.46   | 9.08 | 10.7 | 12.3 | 13.9 | 17.0 | 20.1 | 23.1 | 26.0   | 31.8 | 37.4 | 43.0 | 48.5 | 53.9 | 59.3 | 45.1 | 35.8 | 29.3 |
| 24        | 0.98               | 2.24 | 4.19 | 6.00 | 7.81   | 9.56 | 11.3 | 13.0 | 14.6 | 17.8 | 21.0 | 24.1 | 27.2   | 33.2 | 39.2 | 45.0 | 50.8 | 56.4 | 62.0 | 48.1 | 38.2 | 31.2 |
| 25        | 1.03               | 2.34 | 4.37 | 6.27 | 8.16   | 9.98 | 11.8 | 13.5 | 15.2 | 18.6 | 21.9 | 25.2 | 28.4   | 34.7 | 40.9 | 47.0 | 53.0 | 59.0 | 64.8 | 51.1 | 40.6 | 33.2 |
| 26        | 1.07               | 2.45 | 4.56 | 6.54 | 8.52   | 10.4 | 12.3 | 14.1 | 15.9 | 19.4 | 22.9 | 26.3 | 29.7   | 36.2 | 42.7 | 49.1 | 55.3 | 61.5 | 67.6 | 54.2 | 43.0 | 35.2 |
| 28        | 1.16               | 2.65 | 4.94 | 7.09 | 9.23   | 11.3 | 13.3 | 15.3 | 17.2 | 21.0 | 24.8 | 28.5 | 32.1   | 39.3 | 46.3 | 53.2 | 59.9 | 66.7 | 73.7 | 60.6 | 48.1 | 39.4 |
| 30        | 1.25               | 2.85 | 5.33 | 7.64 | 9.94   | 12.1 | 14.3 | 16.4 | 18.5 | 22.6 | 26.7 | 30.7 | 34.6   | 42.3 | 49.9 | 57.3 | 64.6 | 71.8 | 78.9 | 67.2 | 53.3 | 43.6 |
| 32        | 1.34               | 3.06 | 5.71 | 8.21 | 10.7   | 13.0 | 15.3 | 17.6 | 19.9 | 24.3 | 28.6 | 32.9 | 37.1   | 45.4 | 53.5 | 61.4 | 69.2 | 77.0 | 84.6 | 74.0 | 58.7 | 48.1 |
| 35        | 1.48               | 3.37 | 6.29 | 9.00 | 11.7   | 14.3 | 16.9 | 19.4 | 21.9 | 26.8 | 31.6 | 36.3 | 40.9   | 50.0 | 58.9 | 67.6 | 76.3 | 84.8 | 93.3 | 84.7 | 67.2 | 55.0 |
| 40        | 1.71               | 3.89 | 7.27 | 10.4 | 13.6   | 16.5 | 19.5 | 22.4 | 25.3 | 30.9 | 36.4 | 41.8 | 47.2   | 57.7 | 68.0 | 78.1 | 88.1 | 99.0 | 108  | 103  | 82.1 | 67.2 |
| 45        | 1.94               | 4.42 | 8.25 | 11.8 | 15.4   | 18.8 | 22.2 | 25.5 | 28.7 | 35.1 | 41.4 | 47.5 | 53.6   | 65.6 | 77.2 | 88.7 | 100  | 111  | 122  | 123  | 98.0 | 80.2 |
|           | TYPE A             |      |      |      | TYPE B |      |      |      |      |      |      |      | TYPE C |      |      |      |      |      |      |      |      |      |

#### Lubrication Note

TYPE A: Manual or Drip  
 TYPE B: Bath or Disc  
 TYPE C: Oil Stream

#### Multiple Strand Chain HP Factors:

|               |     |
|---------------|-----|
| Single Strand | 1.0 |
| Double Strand | 1.9 |
| Triple Strand | 2.8 |

FEATURES/BENEFITS  
PAGE PT14-2

SPECIFICATIONS  
PAGE PT14-3

RELATED PRODUCTS  
PAGE PT14-28

ENGINEERING/TECHNICAL  
PAGE PT14-30



## Basic Horsepower Ratings

### 100

#### 1-1/4" Pitch Single Strand Roller Chain

### HORSEPOWER RATINGS

| No. Teeth     | Small Sprocket RPM |      |      |               |      |       |      |       |      |      |      |               |      |      |      |      |      |      |       |       |       |       |
|---------------|--------------------|------|------|---------------|------|-------|------|-------|------|------|------|---------------|------|------|------|------|------|------|-------|-------|-------|-------|
|               | 10                 | 25   | 50   | 75            | 100  | 125   | 150  | 175   | 200  | 250  | 300  | 350           | 400  | 450  | 500  | 600  | 700  | 800  | 900   | 1000  | 1100  | 1200  |
| 9             | 0.65               | 1.49 | 2.78 | 3.985         | 5.19 | 6.33  | 7.47 | 8.575 | 9.68 | 11.8 | 13.9 | 16.0          | 18.1 | 20.1 | 22.1 | 26.0 | 29.6 | 34.2 | 38.8  | 43.4  | 48.0  | 52.6  |
| 10            | 0.73               | 1.67 | 3.11 | 4.46          | 5.81 | 7.09  | 8.37 | 9.585 | 10.8 | 13.2 | 15.6 | 17.9          | 20.2 | 22.5 | 24.7 | 29.2 | 33.5 | 38.4 | 43.2  | 48.0  | 52.8  | 57.6  |
| 11            | 0.81               | 1.85 | 3.45 | 4.945         | 6.44 | 7.86  | 9.28 | 10.6  | 12.0 | 14.6 | 17.3 | 19.8          | 22.4 | 24.9 | 27.4 | 32.3 | 37.1 | 42.0 | 46.8  | 51.6  | 56.4  | 61.2  |
| 12            | 0.89               | 2.03 | 3.79 | 5.435         | 7.08 | 8.64  | 10.2 | 11.7  | 13.2 | 16.1 | 19.0 | 21.8          | 24.6 | 27.4 | 30.1 | 35.5 | 40.8 | 46.2 | 51.6  | 57.0  | 62.4  | 67.8  |
| 13            | 0.97               | 2.22 | 4.13 | 5.925         | 7.72 | 9.41  | 11.1 | 12.8  | 14.4 | 17.5 | 20.7 | 23.8          | 26.9 | 29.8 | 32.8 | 38.7 | 44.5 | 50.4 | 56.4  | 62.4  | 68.4  | 74.4  |
| 14            | 1.05               | 2.40 | 4.48 | 6.42          | 8.36 | 10.18 | 12.0 | 13.8  | 15.6 | 19.0 | 22.5 | 25.8          | 29.1 | 32.3 | 35.6 | 41.9 | 48.2 | 54.6 | 61.0  | 67.4  | 73.8  | 80.2  |
| 15            | 1.13               | 2.59 | 4.83 | 6.92          | 9.01 | 11.0  | 13.0 | 14.9  | 16.8 | 20.5 | 24.2 | 27.8          | 31.4 | 34.8 | 38.3 | 45.2 | 51.9 | 58.8 | 65.7  | 72.6  | 79.5  | 86.4  |
| 16            | 1.22               | 2.77 | 5.17 | 7.415         | 9.66 | 11.8  | 13.9 | 15.9  | 18.0 | 22.0 | 26.0 | 29.8          | 33.6 | 37.3 | 41.1 | 48.4 | 55.6 | 62.8 | 70.0  | 77.2  | 84.4  | 91.6  |
| 17            | 1.30               | 2.96 | 5.52 | 7.91          | 10.3 | 12.6  | 14.8 | 17.0  | 19.2 | 23.5 | 27.7 | 31.8          | 35.9 | 39.9 | 43.9 | 51.7 | 59.4 | 67.0 | 74.6  | 82.2  | 89.8  | 97.4  |
| 18            | 1.38               | 3.15 | 5.88 | 8.44          | 11.0 | 13.4  | 15.8 | 18.1  | 20.5 | 25.0 | 29.5 | 33.8          | 38.2 | 42.5 | 46.7 | 55.0 | 63.2 | 71.4 | 79.6  | 87.8  | 96.0  | 104.2 |
| 19            | 1.46               | 3.34 | 6.23 | 8.915         | 11.6 | 14.2  | 16.7 | 19.2  | 21.7 | 26.5 | 31.2 | 35.8          | 40.5 | 45.0 | 49.5 | 58.3 | 67.0 | 75.8 | 84.6  | 93.4  | 102.2 | 111.0 |
| 20            | 1.55               | 3.53 | 6.58 | 9.44          | 12.3 | 15.0  | 17.7 | 20.3  | 22.9 | 28.0 | 33.0 | 37.9          | 42.8 | 47.5 | 52.3 | 61.6 | 70.8 | 79.8 | 88.8  | 97.8  | 106.8 | 115.8 |
| 21            | 1.63               | 3.72 | 6.94 | 9.97          | 13.0 | 15.9  | 18.7 | 21.5  | 24.2 | 29.5 | 34.8 | 39.9          | 45.1 | 50.1 | 55.1 | 65.0 | 74.6 | 84.2 | 93.8  | 103.4 | 113.0 | 122.6 |
| 22            | 1.71               | 3.91 | 7.30 | 10.45         | 13.6 | 16.6  | 19.6 | 22.5  | 25.4 | 31.0 | 36.6 | 42.0          | 47.4 | 52.7 | 58.0 | 68.3 | 78.5 | 88.5 | 98.5  | 108.5 | 118.5 | 128.5 |
| 23            | 1.80               | 4.10 | 7.66 | 11.0          | 14.3 | 17.5  | 20.6 | 23.7  | 26.7 | 32.6 | 38.4 | 44.1          | 49.8 | 55.3 | 60.8 | 71.7 | 82.3 | 92.8 | 103.3 | 113.8 | 124.3 | 134.8 |
| 24            | 1.88               | 4.30 | 8.02 | 11.5          | 15.0 | 18.3  | 21.5 | 24.7  | 27.9 | 34.0 | 40.2 | 46.2          | 52.1 | 57.9 | 63.7 | 75.0 | 86.2 | 97.2 | 108.2 | 119.2 | 130.2 | 141.2 |
| 25            | 1.97               | 4.49 | 8.38 | 12.0          | 15.6 | 19.0  | 22.5 | 25.9  | 29.2 | 35.6 | 42.0 | 48.2          | 54.4 | 60.5 | 66.6 | 78.4 | 90.1 | 102  | 113.8 | 125.6 | 137.4 | 149.2 |
| 26            | 2.05               | 4.68 | 8.74 | 12.5          | 16.3 | 19.9  | 23.5 | 27.0  | 30.4 | 37.1 | 43.8 | 50.3          | 56.8 | 63.1 | 69.4 | 81.8 | 94.0 | 106  | 118.2 | 130.4 | 142.6 | 154.8 |
| 28            | 2.22               | 5.07 | 9.47 | 13.6          | 17.7 | 21.6  | 25.5 | 29.3  | 33.0 | 40.3 | 47.5 | 54.5          | 61.5 | 68.3 | 75.2 | 88.6 | 102  | 115  | 128   | 141   | 154   | 167   |
| 30            | 2.40               | 5.47 | 10.2 | 14.6          | 19.0 | 23.2  | 27.4 | 31.5  | 35.5 | 43.3 | 51.2 | 58.8          | 66.3 | 73.7 | 81.0 | 95.5 | 110  | 124  | 138   | 152   | 166   | 180   |
| 32            | 2.57               | 5.86 | 10.9 | 15.6          | 20.4 | 24.9  | 29.4 | 33.8  | 38.1 | 46.5 | 54.9 | 63.0          | 71.1 | 79.0 | 86.9 | 102  | 118  | 133  | 148   | 163   | 178   | 193   |
| 35            | 2.83               | 6.46 | 12.0 | 17.3          | 22.5 | 27.5  | 32.4 | 37.2  | 42.0 | 51.2 | 60.4 | 69.4          | 78.3 | 87.0 | 95.7 | 113  | 130  | 146  | 162   | 178   | 194   | 210   |
| 40            | 3.27               | 7.46 | 13.9 | 20.0          | 26.0 | 31.7  | 37.4 | 43.0  | 48.5 | 59.2 | 69.8 | 80.1          | 90.4 | 101  | 111  | 130  | 150  | 169  | 188   | 207   | 226   | 245   |
| 45            | 3.71               | 8.47 | 15.8 | 22.6          | 29.5 | 36.0  | 42.5 | 48.8  | 55.0 | 67.2 | 79.3 | 91.2          | 103  | 114  | 126  | 148  | 170  | 192  | 213   | 234   | 255   | 276   |
| <b>TYPE A</b> |                    |      |      | <b>TYPE B</b> |      |       |      |       |      |      |      | <b>TYPE C</b> |      |      |      |      |      |      |       |       |       |       |

### 120

#### 1-1/2" Pitch Single Strand Roller Chain

### HORSEPOWER RATINGS

| No. Teeth     | Small Sprocket RPM |      |      |               |      |      |      |      |      |      |      |               |      |       |      |      |       |       |       |       |       |       |
|---------------|--------------------|------|------|---------------|------|------|------|------|------|------|------|---------------|------|-------|------|------|-------|-------|-------|-------|-------|-------|
|               | 10                 | 25   | 50   | 75            | 100  | 125  | 150  | 175  | 200  | 250  | 300  | 350           | 400  | 450   | 500  | 600  | 700   | 800   | 900   | 1000  | 1100  | 1200  |
| 9             | 1.10               | 2.52 | 4.69 | 6.73          | 8.76 | 10.7 | 12.6 | 14.4 | 16.3 | 19.9 | 23.5 | 27.0          | 30.5 | 33.9  | 37.3 | 43.2 | 49.1  | 55.0  | 60.9  | 66.8  | 72.7  | 78.6  |
| 10            | 1.24               | 2.82 | 5.26 | 7.54          | 9.81 | 12.0 | 14.1 | 16.2 | 18.3 | 22.3 | 26.4 | 30.3          | 34.2 | 38.0  | 41.8 | 49.2 | 56.6  | 64.0  | 71.4  | 78.8  | 86.2  | 93.6  |
| 11            | 1.37               | 3.12 | 5.83 | 8.36          | 10.9 | 13.3 | 15.7 | 18.0 | 20.3 | 24.8 | 29.2 | 33.6          | 37.9 | 42.1  | 46.3 | 54.6 | 62.3  | 70.0  | 77.7  | 85.4  | 93.1  | 100.8 |
| 12            | 1.50               | 3.43 | 6.40 | 9.15          | 11.9 | 14.6 | 17.2 | 19.7 | 22.3 | 27.2 | 32.1 | 36.8          | 41.6 | 46.3  | 50.9 | 59.9 | 68.3  | 76.6  | 84.9  | 93.2  | 101.5 | 109.8 |
| 13            | 1.64               | 3.74 | 6.98 | 10.0          | 13.0 | 15.9 | 18.8 | 21.5 | 24.3 | 29.6 | 35.0 | 40.2          | 45.4 | 50.5  | 55.5 | 65.3 | 74.1  | 82.8  | 91.5  | 100.2 | 108.9 | 117.6 |
| 14            | 1.78               | 4.05 | 7.56 | 10.8          | 14.1 | 17.2 | 20.3 | 23.3 | 26.3 | 32.1 | 37.9 | 43.5          | 49.1 | 54.6  | 60.1 | 70.8 | 80.6  | 90.4  | 100.2 | 110.0 | 119.8 | 129.6 |
| 15            | 1.91               | 4.37 | 8.15 | 11.7          | 15.2 | 18.5 | 21.9 | 25.1 | 28.4 | 34.7 | 40.9 | 47.0          | 53.0 | 58.8  | 64.7 | 76.3 | 86.2  | 96.0  | 105.8 | 115.6 | 125.4 | 135.2 |
| 16            | 2.05               | 4.68 | 8.74 | 12.5          | 16.3 | 19.9 | 23.5 | 27.0 | 30.4 | 37.1 | 43.8 | 50.3          | 56.8 | 63.1  | 69.4 | 81.8 | 91.8  | 101.6 | 111.4 | 121.2 | 131.0 | 140.8 |
| 17            | 2.19               | 5.00 | 9.33 | 13.4          | 17.4 | 21.3 | 25.1 | 28.8 | 32.5 | 39.7 | 46.8 | 53.7          | 60.6 | 67.3  | 74.1 | 87.3 | 97.2  | 107.0 | 116.8 | 126.6 | 136.4 | 146.2 |
| 18            | 2.33               | 5.32 | 9.92 | 14.2          | 18.5 | 22.6 | 26.7 | 30.6 | 34.6 | 42.2 | 49.8 | 57.2          | 64.5 | 71.7  | 78.8 | 92.9 | 102.8 | 112.6 | 122.4 | 132.2 | 142.0 | 151.8 |
| 19            | 2.47               | 5.64 | 10.5 | 15.1          | 19.6 | 24.0 | 28.3 | 32.4 | 36.6 | 44.7 | 52.8 | 60.6          | 68.4 | 76.0  | 83.6 | 98.5 | 108.4 | 118.2 | 128.0 | 137.8 | 147.6 | 157.4 |
| 20            | 2.61               | 5.96 | 11.1 | 15.9          | 20.7 | 25.3 | 29.9 | 34.3 | 38.7 | 47.3 | 55.8 | 64.0          | 72.2 | 80.3  | 88.3 | 104  | 114   | 124   | 134   | 144   | 154   | 164   |
| 21            | 2.75               | 6.28 | 11.7 | 16.8          | 21.9 | 26.7 | 31.5 | 36.2 | 40.8 | 49.8 | 58.8 | 67.5          | 76.2 | 84.6  | 93.1 | 110  | 122   | 132   | 142   | 152   | 162   | 172   |
| 22            | 2.90               | 6.60 | 12.3 | 17.6          | 23.0 | 28.0 | 33.1 | 38.0 | 42.9 | 52.3 | 61.8 | 70.9          | 80.1 | 89.0  | 97.9 | 115  | 131   | 141   | 151   | 161   | 171   | 181   |
| 23            | 3.04               | 6.93 | 12.9 | 18.5          | 24.1 | 29.5 | 34.8 | 39.9 | 45.0 | 55.0 | 64.9 | 74.4          | 84.0 | 93.5  | 103  | 121  | 139   | 149   | 159   | 169   | 179   | 189   |
| 24            | 3.18               | 7.25 | 13.5 | 19.4          | 25.3 | 30.9 | 36.4 | 41.8 | 47.1 | 57.5 | 67.9 | 77.9          | 88.0 | 98.0  | 108  | 127  | 146   | 156   | 166   | 176   | 186   | 196   |
| 25            | 3.32               | 7.58 | 14.1 | 20.3          | 26.4 | 32.2 | 38.0 | 43.7 | 49.3 | 60.2 | 71.0 | 81.4          | 91.9 | 102   | 112  | 132  | 152   | 162   | 172   | 182   | 192   | 202   |
| 26            | 3.47               | 7.91 | 14.8 | 21.1          | 27.5 | 33.6 | 39.7 | 45.6 | 51.4 | 62.7 | 74.0 | 84.9          | 95.9 | 106   | 117  | 138  | 159   | 169   | 179   | 189   | 199   | 209   |
| 28            | 3.76               | 8.57 | 16.0 | 22.9          | 29.8 | 36.4 | 43.0 | 49.3 | 55.7 | 67.9 | 80.2 | 92.1          | 104  | 115.5 | 127  | 150  | 172   | 194   | 216   | 238   | 260   | 282   |
| 30            | 4.05               | 9.23 | 17.2 | 24.6          | 32.1 | 39.2 | 46.3 | 53.2 | 60.0 | 73.2 | 86.4 | 99.2          | 112  | 124.5 | 137  | 161  | 185   | 209   | 233   | 257   | 281   | 305   |
| 32            | 4.34               | 9.90 | 18.5 | 26.5          | 34.5 | 42.0 | 49.6 | 57.0 | 64.3 | 78.4 | 92.6 | 106.3         | 120  | 133.5 | 147  | 173  | 199   | 225   | 251   | 277   | 303   | 329   |
| 35            | 4.78               | 10.9 | 20.3 | 29.1          | 38.0 | 46.3 | 54.7 | 62.8 | 70.9 | 86.4 | 102  | 117           | 132  | 147   | 162  | 190  | 219   | 248   | 277   | 306   | 335   | 364   |
| 40            | 5.52               | 12.6 | 23.5 | 33.7          | 43.9 | 53.6 | 63.2 | 72.5 | 81.8 | 99.9 | 118  | 135.5         | 153  | 170   | 187  | 220  | 253   | 286   | 319   | 352   | 385   | 418   |
| 45            | 6.27               | 14.3 | 26.7 | 38.3          | 49.8 | 60.8 | 71.7 | 82.3 | 92.9 | 113  | 134  | 153.5         | 173  | 192.5 | 212  | 250  | 287   | 324   | 361   | 398   | 435   | 472   |
| <b>TYPE A</b> |                    |      |      | <b>TYPE B</b> |      |      |      |      |      |      |      | <b>TYPE C</b> |      |       |      |      |       |       |       |       |       |       |

#### Lubrication Note

- TYPE A: Manual or Drip
- TYPE B: Bath or Disc
- TYPE C: Oil Stream

#### Multiple Strand Chain HP Factors:

|               |     |
|---------------|-----|
| Single Strand | 1.0 |
| Double Strand | 1.9 |
| Triple Strand | 2.8 |

|                                  |                               |                                  |                                       |
|----------------------------------|-------------------------------|----------------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT14-2 | SPECIFICATIONS<br>PAGE PT14-3 | RELATED PRODUCTS<br>PAGE PT14-28 | ENGINEERING/TECHNICAL<br>PAGE PT14-30 |
|----------------------------------|-------------------------------|----------------------------------|---------------------------------------|



# SELECTION

## Basic Horsepower Ratings

### 140 1-3/4" Pitch Single Strand Roller Chain

### HORSEPOWER RATINGS

| No.<br>Teeth | Small Sprocket RPM |      |      |        |      |      |      |       |      |       |      |        |      |      |      |      |      |      |      |      |      |      |
|--------------|--------------------|------|------|--------|------|------|------|-------|------|-------|------|--------|------|------|------|------|------|------|------|------|------|------|
|              | 10                 | 25   | 50   | 75     | 100  | 125  | 150  | 175   | 200  | 225   | 250  | 275    | 300  | 325  | 350  | 400  | 450  | 500  | 550  | 600  | 700  | 800  |
| 9            | 1.71               | 3.89 | 7.26 | 10.4   | 13.6 | 16.5 | 19.5 | 22.4  | 25.3 | 28.1  | 30.9 | 33.7   | 36.4 | 39.1 | 41.8 | 47.2 | 52.5 | 57.7 | 55.7 | 48.9 | 38.8 | 31.7 |
| 10           | 1.91               | 4.36 | 8.14 | 11.7   | 15.2 | 18.5 | 21.9 | 25.1  | 28.3 | 31.4  | 34.6 | 37.7   | 40.8 | 43.8 | 46.9 | 52.9 | 58.8 | 64.6 | 65.2 | 57.2 | 45.4 | 37.2 |
| 11           | 2.12               | 4.83 | 9.02 | 12.9   | 16.8 | 20.5 | 24.2 | 27.8  | 31.4 | 34.9  | 38.4 | 41.8   | 45.2 | 48.6 | 52.0 | 58.6 | 65.2 | 71.6 | 75.2 | 66.0 | 52.4 | 42.9 |
| 12           | 2.33               | 5.31 | 9.91 | 14.2   | 18.5 | 22.5 | 26.6 | 30.5  | 34.5 | 38.3  | 42.2 | 46.0   | 49.7 | 53.4 | 57.1 | 64.4 | 71.6 | 78.7 | 85.7 | 75.2 | 59.7 | 48.9 |
| 13           | 2.54               | 5.79 | 10.8 | 15.5   | 20.2 | 24.6 | 29.0 | 33.3  | 37.6 | 41.8  | 46.0 | 50.1   | 54.2 | 58.2 | 62.2 | 70.2 | 78.0 | 85.8 | 93.5 | 84.8 | 67.3 | 55.1 |
| 14           | 2.75               | 6.27 | 11.7 | 16.8   | 21.8 | 26.6 | 31.5 | 36.2  | 40.8 | 45.3  | 49.8 | 54.3   | 58.7 | 63.1 | 67.4 | 76.0 | 84.5 | 93.0 | 101  | 94.8 | 75.2 | 61.6 |
| 15           | 2.96               | 6.76 | 12.6 | 18.0   | 23.5 | 28.7 | 33.9 | 38.9  | 43.9 | 48.8  | 53.7 | 58.5   | 63.2 | 67.9 | 72.7 | 81.9 | 91.1 | 100  | 109  | 105  | 83.4 | 68.3 |
| 16           | 3.18               | 7.24 | 13.5 | 19.4   | 25.2 | 30.8 | 36.3 | 41.7  | 47.1 | 52.3  | 57.5 | 62.7   | 67.8 | 72.9 | 77.9 | 87.8 | 97.7 | 107  | 117  | 116  | 91.9 | 75.2 |
| 17           | 3.39               | 7.73 | 14.4 | 20.6   | 26.9 | 32.8 | 38.8 | 44.5  | 50.3 | 55.8  | 61.4 | 66.9   | 72.4 | 77.8 | 83.2 | 93.8 | 104  | 115  | 125  | 127  | 101  | 82.4 |
| 18           | 3.61               | 8.23 | 15.4 | 22.0   | 28.6 | 35.0 | 41.3 | 47.4  | 53.5 | 59.4  | 65.3 | 71.2   | 77.0 | 82.8 | 88.5 | 99.8 | 111  | 122  | 133  | 138  | 110  | 89.8 |
| 19           | 3.82               | 8.72 | 16.3 | 23.3   | 30.4 | 37.0 | 43.7 | 50.2  | 56.7 | 63.0  | 69.3 | 75.4   | 81.6 | 87.7 | 93.8 | 106  | 118  | 129  | 141  | 150  | 119  | 97.4 |
| 20           | 4.04               | 9.22 | 17.2 | 24.6   | 32.1 | 39.2 | 46.2 | 53.1  | 59.9 | 66.6  | 73.2 | 79.8   | 86.3 | 92.7 | 99.1 | 112  | 124  | 137  | 149  | 161  | 128  | 105  |
| 21           | 4.26               | 9.72 | 18.1 | 26.0   | 33.8 | 41.3 | 48.7 | 55.9  | 63.1 | 70.1  | 77.2 | 84.1   | 91.0 | 97.5 | 104  | 118  | 131  | 144  | 157  | 170  | 138  | 113  |
| 22           | 4.48               | 10.2 | 19.1 | 27.3   | 35.6 | 43.4 | 51.3 | 58.8  | 66.4 | 73.8  | 81.2 | 88.4   | 95.6 | 103  | 110  | 124  | 138  | 151  | 165  | 178  | 148  | 121  |
| 23           | 4.70               | 10.7 | 20.0 | 28.6   | 37.3 | 45.5 | 53.8 | 61.8  | 69.7 | 77.4  | 85.2 | 92.6   | 100  | 107  | 115  | 130  | 145  | 159  | 173  | 187  | 158  | 130  |
| 24           | 4.92               | 11.2 | 20.9 | 30.0   | 39.1 | 47.7 | 56.3 | 64.6  | 72.9 | 81.1  | 89.2 | 97.1   | 105  | 113  | 121  | 136  | 151  | 166  | 181  | 196  | 169  | 138  |
| 25           | 5.14               | 11.7 | 21.9 | 31.3   | 40.8 | 49.8 | 58.8 | 67.5  | 76.2 | 84.7  | 93.2 | 102    | 110  | 118  | 126  | 142  | 158  | 174  | 189  | 205  | 180  | 147  |
| 26           | 5.37               | 12.2 | 22.8 | 32.7   | 42.6 | 52.0 | 61.4 | 70.4  | 79.5 | 88.3  | 97.2 | 106    | 115  | 124  | 132  | 148  | 165  | 181  | 198  | 214  | 190  | 156  |
| 28           | 5.81               | 13.3 | 24.7 | 35.5   | 46.2 | 56.3 | 66.5 | 76.3  | 86.2 | 95.6  | 105  | 114    | 124  | 134  | 143  | 161  | 179  | 197  | 214  | 232  | 213  | 174  |
| 30           | 6.26               | 14.3 | 26.7 | 38.2   | 49.7 | 60.7 | 71.6 | 82.2  | 92.8 | 102.9 | 113  | 124    | 134  | 144  | 154  | 173  | 193  | 212  | 231  | 249  | 236  | 193  |
| 32           | 6.71               | 15.3 | 28.6 | 41.0   | 53.3 | 65.1 | 76.8 | 88.2  | 99.5 | 111   | 122  | 132    | 143  | 154  | 165  | 186  | 206  | 227  | 247  | 267  | 260  | 213  |
| 35           | 7.40               | 16.9 | 31.5 | 45.1   | 58.7 | 71.7 | 84.6 | 97.3  | 110  | 122   | 134  | 146    | 158  | 169  | 181  | 205  | 227  | 250  | 272  | 295  | 297  | 243  |
| 40           | 8.54               | 19.5 | 36.4 | 52.2   | 67.9 | 82.8 | 97.7 | 112   | 127  | 141   | 155  | 168    | 182  | 196  | 210  | 236  | 263  | 289  | 315  | 340  | 363  | 297  |
| 45           | 9.70               | 22.1 | 41.3 | 59.2   | 77.1 | 94.1 | 111  | 127.5 | 144  | 160   | 176  | 192    | 207  | 222  | 238  | 268  | 298  | 328  | 357  | 387  | 434  | 355  |
| TYPE A       |                    |      |      | TYPE B |      |      |      |       |      |       |      | TYPE C |      |      |      |      |      |      |      |      |      |      |

### 160 2" Pitch Single Strand Roller Chain

### HORSEPOWER RATINGS

| No.<br>Teeth | Small Sprocket RPM |      |      |        |      |      |      |      |      |      |      |        |      |      |      |      |      |      |      |      |      |      |
|--------------|--------------------|------|------|--------|------|------|------|------|------|------|------|--------|------|------|------|------|------|------|------|------|------|------|
|              | 10                 | 25   | 50   | 75     | 100  | 125  | 150  | 175  | 200  | 225  | 250  | 275    | 300  | 325  | 350  | 375  | 400  | 450  | 500  | 550  | 600  | 700  |
| 9            | 2.48               | 5.65 | 10.5 | 15.1   | 19.7 | 24.0 | 28.3 | 32.5 | 36.7 | 40.8 | 44.8 | 48.8   | 52.8 | 56.8 | 60.7 | 64.6 | 68.5 | 76.1 | 71.5 | 62.0 | 54.4 | 43.2 |
| 10           | 2.77               | 6.33 | 11.8 | 16.9   | 22.0 | 26.9 | 31.7 | 36.4 | 41.1 | 45.7 | 50.3 | 54.8   | 59.2 | 63.6 | 68.0 | 72.3 | 76.7 | 85.3 | 83.7 | 72.6 | 63.7 | 50.5 |
| 11           | 3.07               | 7.01 | 13.1 | 18.8   | 24.4 | 29.8 | 35.2 | 40.4 | 45.6 | 50.7 | 55.7 | 60.7   | 65.6 | 70.5 | 75.4 | 80.2 | 85.0 | 94.5 | 96.6 | 83.7 | 73.5 | 58.3 |
| 12           | 3.38               | 7.70 | 14.4 | 20.6   | 26.8 | 32.7 | 38.6 | 44.3 | 50.1 | 55.7 | 61.2 | 66.7   | 72.1 | 77.4 | 82.8 | 88.1 | 93.4 | 104  | 110  | 95.4 | 83.7 | 66.4 |
| 13           | 3.68               | 8.40 | 15.7 | 22.5   | 29.2 | 35.7 | 42.1 | 48.3 | 54.6 | 60.6 | 66.7 | 72.6   | 78.6 | 84.4 | 90.3 | 96.2 | 102  | 113  | 124  | 108  | 94.4 | 74.9 |
| 14           | 3.99               | 9.10 | 17.0 | 24.4   | 31.7 | 38.7 | 45.6 | 52.3 | 59.1 | 65.7 | 72.3 | 78.8   | 85.2 | 91.5 | 97.8 | 104  | 110  | 123  | 135  | 120  | 105  | 83.7 |
| 15           | 4.30               | 9.80 | 18.3 | 26.2   | 34.1 | 41.7 | 49.2 | 56.5 | 63.7 | 70.8 | 77.9 | 84.8   | 91.7 | 98.3 | 105  | 112  | 119  | 132  | 145  | 133  | 117  | 92.8 |
| 16           | 4.61               | 10.5 | 19.6 | 28.1   | 36.6 | 44.7 | 52.7 | 60.5 | 68.3 | 75.9 | 83.5 | 90.9   | 98.4 | 106  | 113  | 120  | 127  | 142  | 156  | 147  | 129  | 102  |
| 17           | 4.92               | 11.2 | 20.9 | 30.0   | 39.1 | 47.7 | 56.3 | 64.6 | 72.9 | 81.0 | 89.1 | 97.1   | 105  | 113  | 121  | 128  | 136  | 151  | 166  | 161  | 141  | 112  |
| 18           | 5.23               | 11.9 | 22.3 | 31.9   | 41.6 | 50.8 | 59.9 | 68.8 | 77.6 | 86.2 | 94.8 | 103    | 112  | 120  | 128  | 136  | 145  | 161  | 177  | 175  | 154  | 122  |
| 19           | 5.55               | 12.7 | 23.6 | 33.8   | 44.1 | 53.8 | 63.5 | 72.8 | 82.2 | 91.6 | 101  | 109    | 118  | 127  | 136  | 145  | 153  | 171  | 188  | 190  | 167  | 132  |
| 20           | 5.86               | 13.4 | 25.0 | 35.8   | 46.6 | 56.8 | 67.1 | 77.0 | 86.9 | 96.4 | 106  | 115    | 125  | 135  | 144  | 153  | 162  | 180  | 198  | 205  | 180  | 143  |
| 21           | 6.18               | 14.1 | 26.3 | 37.7   | 49.1 | 59.9 | 70.7 | 81.1 | 91.6 | 102  | 112  | 122    | 132  | 142  | 152  | 162  | 171  | 190  | 209  | 221  | 194  | 154  |
| 22           | 6.50               | 14.8 | 27.7 | 39.7   | 51.6 | 63.0 | 74.4 | 85.4 | 96.3 | 107  | 118  | 128    | 139  | 149  | 159  | 169  | 180  | 200  | 220  | 237  | 208  | 165  |
| 23           | 6.82               | 15.6 | 29.0 | 41.6   | 54.2 | 66.1 | 78.0 | 89.5 | 101  | 112  | 124  | 135    | 146  | 156  | 167  | 178  | 189  | 210  | 231  | 251  | 222  | 176  |
| 24           | 7.14               | 16.3 | 30.4 | 43.5   | 56.7 | 69.2 | 81.7 | 93.8 | 106  | 117  | 129  | 141    | 152  | 163  | 175  | 186  | 197  | 220  | 241  | 263  | 237  | 188  |
| 25           | 7.46               | 17.0 | 31.1 | 45.2   | 59.3 | 72.3 | 85.4 | 98.2 | 111  | 123  | 135  | 147    | 159  | 171  | 183  | 195  | 206  | 229  | 252  | 275  | 252  | 200  |
| 26           | 7.78               | 17.8 | 31.8 | 46.8   | 61.8 | 75.4 | 89.1 | 102  | 115  | 128  | 141  | 153    | 166  | 179  | 191  | 203  | 215  | 239  | 263  | 287  | 267  | 212  |
| 28           | 8.43               | 19.2 | 35.9 | 51.5   | 67.0 | 81.8 | 96.5 | 111  | 125  | 139  | 153  | 166    | 180  | 193  | 207  | 220  | 233  | 259  | 285  | 311  | 298  | 237  |
| 30           | 9.08               | 20.7 | 38.7 | 55.4   | 72.2 | 88.1 | 104  | 119  | 135  | 150  | 165  | 179    | 194  | 209  | 223  | 237  | 251  | 279  | 307  | 336  | 331  | 263  |
| 32           | 9.74               | 22.2 | 41.5 | 59.5   | 77.4 | 94.2 | 111  | 128  | 144  | 160  | 176  | 192    | 208  | 223  | 239  | 254  | 269  | 300  | 329  | 359  | 365  | 289  |
| 35           | 10.7               | 24.5 | 45.7 | 65.4   | 85.2 | 104  | 123  | 141  | 159  | 176  | 194  | 212    | 229  | 246  | 263  | 280  | 297  | 330  | 363  | 395  | 417  | 331  |
| 40           | 12.4               | 28.3 | 52.8 | 75.7   | 98.5 | 120  | 142  | 163  | 184  | 205  | 225  | 245    | 265  | 284  | 304  | 324  | 343  | 381  | 419  | 457  | 494  | 404  |
| 45           | 14.1               | 32.1 | 59.9 | 85.9   | 112  | 136  | 161  | 185  | 209  | 232  | 255  | 278    | 301  | 323  | 345  | 367  | 389  | 433  | 476  | 519  | 561  | 482  |
| TYPE A       |                    |      |      | TYPE B |      |      |      |      |      |      |      | TYPE C |      |      |      |      |      |      |      |      |      |      |

#### Lubrication Note

TYPE A: Manual or Drip  
 TYPE B: Bath or Disc  
 TYPE C: Oil Stream

#### Multiple Strand Chain HP Factors:

|               |     |
|---------------|-----|
| Single Strand | 1.0 |
| Double Strand | 1.9 |
| Triple Strand | 2.8 |

|                                  |                               |                                  |                                       |
|----------------------------------|-------------------------------|----------------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT14-2 | SPECIFICATIONS<br>PAGE PT14-3 | RELATED PRODUCTS<br>PAGE PT14-28 | ENGINEERING/TECHNICAL<br>PAGE PT14-30 |
|----------------------------------|-------------------------------|----------------------------------|---------------------------------------|

# SELECTION



## Basic Horsepower Ratings

180

2-1/4" Pitch Single Strand Roller Chain

HORSEPOWER RATINGS

| No.<br>Teeth | Small Sprocket RPM |      |      |        |      |      |      |      |      |      |      |        |      |      |      |      |     |     |     |
|--------------|--------------------|------|------|--------|------|------|------|------|------|------|------|--------|------|------|------|------|-----|-----|-----|
|              | 10                 | 20   | 30   | 40     | 50   | 75   | 100  | 125  | 150  | 175  | 200  | 225    | 250  | 275  | 300  | 325  | 350 | 375 | 400 |
| 11           | 4.24               | 7.87 | 11.4 | 14.7   | 18.1 | 25.9 | 33.7 | 41.2 | 48.6 | 55.7 | 62.9 | 69.9   | 76.9 | 83.8 | 90.6 | 97.3 | 104 | 110 | 117 |
| 12           | 4.66               | 8.62 | 12.4 | 16.1   | 19.8 | 28.4 | 37.0 | 45.2 | 53.4 | 61.3 | 69.1 | 76.8   | 84.5 | 92.1 | 99.6 | 107  | 114 | 121 | 129 |
| 13           | 5.08               | 9.43 | 13.6 | 17.6   | 21.6 | 31.0 | 40.4 | 49.3 | 58.2 | 66.8 | 75.4 | 83.8   | 92.1 | 101  | 109  | 117  | 125 | 133 | 141 |
| 14           | 5.51               | 10.2 | 14.8 | 19.1   | 23.4 | 33.5 | 43.7 | 53.3 | 63.0 | 72.3 | 81.6 | 90.7   | 99.8 | 109  | 118  | 126  | 135 | 143 | 152 |
| 15           | 5.93               | 11.0 | 15.9 | 20.6   | 25.3 | 36.2 | 47.1 | 57.5 | 67.9 | 77.9 | 88.0 | 98.0   | 108  | 117  | 127  | 136  | 146 | 155 | 164 |
| 16           | 6.36               | 11.8 | 17.0 | 22.1   | 27.1 | 38.8 | 50.5 | 61.7 | 72.8 | 83.6 | 94.3 | 105    | 115  | 125  | 136  | 146  | 156 | 166 | 176 |
| 17           | 6.79               | 12.6 | 18.2 | 23.5   | 28.9 | 41.5 | 54.0 | 65.8 | 77.7 | 89.3 | 101  | 112    | 123  | 134  | 145  | 156  | 167 | 178 | 188 |
| 18           | 7.22               | 13.4 | 19.4 | 25.1   | 30.8 | 44.1 | 57.4 | 70.1 | 82.7 | 94.8 | 107  | 119    | 131  | 142  | 154  | 165  | 177 | 189 | 200 |
| 19           | 7.66               | 14.2 | 20.5 | 26.6   | 32.6 | 46.7 | 60.8 | 74.2 | 87.6 | 101  | 114  | 126    | 139  | 152  | 164  | 176  | 188 | 200 | 212 |
| 20           | 8.10               | 15.0 | 21.7 | 28.1   | 34.5 | 49.4 | 64.3 | 78.4 | 92.6 | 106  | 120  | 134    | 147  | 160  | 173  | 186  | 199 | 212 | 224 |
| 21           | 8.53               | 15.8 | 22.9 | 29.6   | 36.3 | 52.1 | 67.8 | 82.7 | 97.6 | 112  | 126  | 141    | 155  | 168  | 182  | 195  | 209 | 222 | 236 |
| 22           | 8.97               | 16.7 | 24.0 | 31.1   | 38.2 | 54.8 | 71.3 | 87.2 | 103  | 118  | 133  | 148    | 163  | 178  | 192  | 206  | 220 | 234 | 248 |
| 23           | 9.41               | 17.5 | 25.2 | 32.7   | 40.1 | 57.5 | 74.8 | 91.4 | 108  | 124  | 140  | 155    | 171  | 186  | 201  | 216  | 231 | 246 | 260 |
| 24           | 9.86               | 18.3 | 26.4 | 34.2   | 42.0 | 60.2 | 78.3 | 95.7 | 113  | 129  | 146  | 162    | 179  | 195  | 210  | 226  | 242 | 258 | 273 |
| 25           | 10.3               | 19.1 | 27.6 | 35.7   | 43.9 | 62.9 | 81.8 | 99.9 | 118  | 135  | 153  | 170    | 187  | 203  | 220  | 236  | 253 | 269 | 285 |
| 26           | 10.7               | 19.9 | 28.7 | 37.2   | 45.7 | 65.6 | 85.4 | 104  | 123  | 141  | 159  | 177    | 195  | 212  | 229  | 246  | 264 | 281 | 297 |
| 28           | 11.6               | 21.6 | 31.2 | 40.4   | 49.6 | 71.1 | 92.5 | 113  | 133  | 153  | 173  | 192    | 211  | 230  | 249  | 267  | 286 | 304 | 322 |
| 30           | 12.5               | 23.2 | 33.6 | 43.5   | 53.4 | 76.5 | 99.6 | 122  | 144  | 165  | 186  | 206    | 227  | 247  | 268  | 288  | 308 | 327 | 347 |
| 32           | 13.4               | 24.9 | 36.0 | 46.6   | 57.2 | 82.1 | 107  | 131  | 154  | 176  | 199  | 222    | 244  | 265  | 287  | 308  | 330 | 351 | 372 |
| 35           | 14.8               | 27.5 | 39.7 | 51.4   | 63.1 | 90.6 | 118  | 144  | 170  | 195  | 220  | 244    | 268  | 292  | 316  | 339  | 363 | 386 | 410 |
| TYPE A       |                    |      |      | TYPE B |      |      |      |      |      |      |      | TYPE C |      |      |      |      |     |     |     |

200

2-1/2" Pitch Single Strand Roller Chain

HORSEPOWER RATINGS

| No.<br>Teeth | Small Sprocket RPM |      |      |        |      |      |      |      |      |      |      |        |      |      |      |      |     |     |     |
|--------------|--------------------|------|------|--------|------|------|------|------|------|------|------|--------|------|------|------|------|-----|-----|-----|
|              | 10                 | 15   | 20   | 30     | 40   | 50   | 60   | 70   | 80   | 90   | 100  | 125    | 150  | 175  | 200  | 225  | 250 | 275 | 300 |
| 11           | 5.64               | 8.12 | 10.5 | 15.1   | 19.6 | 24.0 | 28.3 | 32.5 | 36.6 | 40.7 | 44.8 | 54.7   | 64.5 | 74.0 | 83.5 | 92.8 | 102 | 111 | 120 |
| 12           | 6.19               | 8.92 | 11.6 | 16.6   | 21.6 | 26.4 | 31.0 | 35.7 | 40.2 | 44.7 | 49.2 | 60.0   | 70.8 | 81.3 | 91.8 | 102  | 112 | 122 | 132 |
| 13           | 6.75               | 9.72 | 12.6 | 18.1   | 23.5 | 28.7 | 33.8 | 38.9 | 43.8 | 48.7 | 53.6 | 65.4   | 77.2 | 88.6 | 100  | 111  | 122 | 133 | 144 |
| 14           | 7.31               | 10.5 | 13.6 | 19.7   | 25.5 | 31.1 | 36.6 | 42.1 | 47.4 | 52.8 | 58.1 | 70.9   | 83.7 | 95.8 | 108  | 120  | 132 | 144 | 156 |
| 15           | 7.88               | 11.3 | 14.7 | 21.2   | 27.4 | 33.5 | 39.5 | 45.4 | 51.1 | 56.9 | 62.6 | 76.3   | 90.1 | 104  | 117  | 130  | 143 | 155 | 168 |
| 16           | 8.45               | 12.2 | 15.8 | 22.7   | 29.4 | 36.0 | 42.3 | 48.7 | 54.8 | 61.0 | 67.1 | 81.8   | 96.6 | 111  | 125  | 139  | 153 | 166 | 180 |
| 17           | 9.02               | 13.0 | 16.8 | 24.2   | 31.4 | 38.4 | 45.2 | 52.0 | 58.5 | 65.1 | 71.6 | 87.3   | 103  | 119  | 134  | 148  | 163 | 178 | 193 |
| 18           | 9.59               | 13.8 | 17.9 | 25.8   | 33.4 | 40.8 | 48.0 | 55.3 | 62.3 | 69.2 | 76.2 | 93.1   | 110  | 126  | 142  | 158  | 174 | 189 | 205 |
| 19           | 10.2               | 14.6 | 19.0 | 27.3   | 35.4 | 43.3 | 50.9 | 58.6 | 66.0 | 73.4 | 80.8 | 98.4   | 116  | 134  | 151  | 168  | 184 | 200 | 217 |
| 20           | 10.7               | 15.5 | 20.1 | 28.9   | 37.4 | 45.8 | 53.8 | 61.9 | 69.7 | 77.6 | 85.4 | 104    | 123  | 141  | 159  | 177  | 195 | 212 | 229 |
| 21           | 11.3               | 16.3 | 21.1 | 30.5   | 39.5 | 48.2 | 56.8 | 65.3 | 73.5 | 81.8 | 90.0 | 110    | 130  | 149  | 168  | 186  | 205 | 223 | 242 |
| 22           | 11.9               | 17.2 | 22.2 | 32.0   | 41.5 | 50.7 | 59.7 | 68.7 | 77.3 | 86.0 | 94.6 | 115    | 136  | 156  | 177  | 196  | 216 | 235 | 254 |
| 23           | 12.5               | 18.0 | 23.3 | 33.6   | 43.5 | 53.2 | 62.6 | 72.0 | 81.1 | 90.2 | 99.3 | 121    | 143  | 164  | 185  | 205  | 226 | 246 | 267 |
| 24           | 13.1               | 18.9 | 24.4 | 35.2   | 45.6 | 55.7 | 65.6 | 75.4 | 84.9 | 94.5 | 104  | 127    | 150  | 172  | 194  | 216  | 237 | 258 | 279 |
| 25           | 13.7               | 19.7 | 25.5 | 36.8   | 47.6 | 58.2 | 68.5 | 78.8 | 88.9 | 98.9 | 109  | 132    | 156  | 179  | 203  | 226  | 248 | 270 | 292 |
| 26           | 14.3               | 20.6 | 26.6 | 38.4   | 49.7 | 60.7 | 71.4 | 82.2 | 92.5 | 103  | 113  | 138    | 163  | 188  | 212  | 236  | 259 | 282 | 305 |
| TYPE A       |                    |      |      | TYPE B |      |      |      |      |      |      |      | TYPE C |      |      |      |      |     |     |     |

240

3" Pitch Single Strand Roller Chain

HORSEPOWER RATINGS

| No.<br>Teeth | Small Sprocket RPM |      |      |        |      |      |      |      |      |      |      |        |      |      |     |     |     |     |     |
|--------------|--------------------|------|------|--------|------|------|------|------|------|------|------|--------|------|------|-----|-----|-----|-----|-----|
|              | 5                  | 10   | 15   | 20     | 25   | 30   | 40   | 50   | 60   | 70   | 80   | 90     | 100  | 125  | 150 | 175 | 200 | 250 | 300 |
| 11           | 4.86               | 9.08 | 13.1 | 16.9   | 20.7 | 24.4 | 31.6 | 38.6 | 45.5 | 52.3 | 59.0 | 65.6   | 72.1 | 88.1 | 104 | 119 | 135 | 164 | 194 |
| 12           | 5.34               | 9.97 | 14.4 | 18.6   | 22.7 | 26.8 | 34.7 | 42.4 | 50.0 | 57.4 | 64.8 | 72.0   | 79.2 | 96.8 | 114 | 131 | 148 | 181 | 213 |
| 13           | 5.83               | 10.9 | 15.7 | 20.3   | 24.8 | 29.2 | 37.9 | 46.3 | 54.5 | 62.5 | 70.6 | 78.5   | 86.4 | 106  | 124 | 143 | 161 | 197 | 232 |
| 14           | 6.31               | 11.8 | 17.0 | 22.0   | 26.9 | 31.7 | 41.0 | 50.1 | 59.1 | 67.8 | 76.5 | 85.1   | 93.6 | 114  | 135 | 155 | 175 | 213 | 251 |
| 15           | 6.80               | 12.7 | 18.3 | 23.7   | 28.9 | 34.1 | 44.2 | 54.0 | 63.6 | 73.0 | 82.4 | 91.7   | 101  | 123  | 145 | 167 | 188 | 230 | 271 |
| 16           | 7.29               | 13.6 | 19.6 | 25.4   | 31.0 | 36.6 | 47.4 | 57.9 | 68.2 | 78.3 | 88.4 | 98.2   | 108  | 132  | 156 | 179 | 202 | 247 | 290 |
| 17           | 7.78               | 14.5 | 20.9 | 27.1   | 33.1 | 39.0 | 50.6 | 61.8 | 72.9 | 83.7 | 94.4 | 105    | 115  | 141  | 166 | 191 | 215 | 263 | 310 |
| 18           | 8.28               | 15.4 | 22.3 | 28.8   | 35.2 | 41.5 | 53.8 | 65.8 | 77.5 | 88.8 | 100  | 112    | 123  | 150  | 177 | 203 | 229 | 280 | 330 |
| 19           | 8.78               | 16.4 | 23.6 | 30.6   | 37.4 | 44.0 | 57.0 | 69.7 | 82.2 | 94.1 | 106  | 118    | 130  | 159  | 187 | 215 | 243 | 297 | 350 |
| 20           | 9.28               | 17.3 | 24.9 | 32.3   | 39.5 | 46.5 | 60.3 | 73.7 | 86.8 | 99.4 | 112  | 125    | 138  | 168  | 198 | 228 | 257 | 314 | 370 |
| 21           | 9.78               | 18.2 | 26.3 | 34.1   | 41.6 | 49.0 | 63.5 | 77.7 | 91.5 | 105  | 119  | 132    | 145  | 177  | 209 | 240 | 270 | 331 | 390 |
| 22           | 10.3               | 19.2 | 27.6 | 35.8   | 43.8 | 51.6 | 66.8 | 81.7 | 96.2 | 111  | 125  | 138    | 152  | 186  | 220 | 252 | 284 | 348 | 410 |
| 23           | 10.8               | 20.1 | 29.0 | 37.6   | 45.9 | 54.1 | 70.1 | 85.7 | 101  | 116  | 131  | 145    | 160  | 195  | 230 | 265 | 298 | 365 | 430 |
| 24           | 11.3               | 21.1 | 30.4 | 39.3   | 48.1 | 56.7 | 73.4 | 89.7 | 106  | 121  | 137  | 152    | 167  | 205  | 241 | 277 | 312 | 382 | 450 |
| 25           | 11.8               | 22.0 | 31.7 | 41.1   | 50.3 | 59.2 | 76.7 | 93.8 | 110  | 126  | 143  | 159    | 175  | 214  | 252 | 290 | 327 | 399 | 470 |
| 26           | 12.3               | 23.0 | 33.1 | 42.9   | 52.4 | 61.8 | 80.0 | 97.8 | 115  | 132  | 149  | 166    | 183  | 223  | 263 | 302 | 341 | 416 | 491 |
| TYPE A       |                    |      |      | TYPE B |      |      |      |      |      |      |      | TYPE C |      |      |     |     |     |     |     |

**Lubrication Note**

- TYPE A: Manual or Drip
- TYPE B: Bath or Disc
- TYPE C: Oil Stream

**Multiple Strand Chain HP Factors:**

|               |     |
|---------------|-----|
| Single Strand | 1.0 |
| Double Strand | 1.9 |
| Triple Strand | 2.8 |

**Shaded Area: Operation is in the galling range - consult factory**

|                                  |                               |                                  |                                       |
|----------------------------------|-------------------------------|----------------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT14-2 | SPECIFICATIONS<br>PAGE PT14-3 | RELATED PRODUCTS<br>PAGE PT14-28 | ENGINEERING/TECHNICAL<br>PAGE PT14-30 |
|----------------------------------|-------------------------------|----------------------------------|---------------------------------------|

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets



# SELECTION

## Basic Horsepower Ratings

### 2040 — HP Ratings for 2040 Double Pitch Drive Chain

| No. of Effective Teeth, Small Spkt. | HP Ratings @ Various RPM, Small Sprocket |      |      |      |      |         |      |     |     |     |     |     |     |          |     |     |      |      |      |      |
|-------------------------------------|--|------|------|------|------|---------|------|-----|-----|-----|-----|-----|-----|----------|-----|-----|------|------|------|------|
|                                     | 25                                       | 50   | 100  | 150  | 200  | 250     | 300  | 350 | 400 | 450 | 500 | 550 | 600 | 700      | 800 | 900 | 1000 | 1100 | 1200 | 1300 |
| 6                                   | .10                                      | .17  | ...  | ...  | ...  | ...     | ...  | ... | ... | ... | ... | ... | ... | ...      | ... | ... | ...  | ...  | ...  | ...  |
| 7                                   | .12                                      | .21  | .35  | .46  | .54  | ...     | ...  | ... | ... | ... | ... | ... | ... | ...      | ... | ... | ...  | ...  | ...  | ...  |
| 8                                   | .14                                      | .25  | .64  | .72  | .82  | .90     | ...  | ... | ... | ... | ... | ... | ... | ...      | ... | ... | ...  | ...  | ...  | ...  |
| 9                                   | .16                                      | .30  | .53  | .72  | .88  | 1.02    | 1.14 | 1.3 | 1.3 | ... | ... | ... | ... | ...      | ... | ... | ...  | ...  | ...  | ...  |
| 10                                  | .18                                      | .34  | .61  | .82  | 1.04 | 1.21    | 1.37 | 1.5 | 1.6 | 1.7 | 1.8 | 1.9 | ... | ...      | ... | ... | ...  | ...  | ...  | ...  |
| 11                                  | .20                                      | .38  | .69  | .96  | 1.20 | 1.41    | 1.59 | 1.8 | 1.9 | 2.0 | 2.1 | 2.2 | 2.3 | ...      | ... | ... | ...  | ...  | ...  | ...  |
| 12                                  | .22                                      | .42  | .77  | 1.07 | 1.34 | 1.58    | 1.80 | 2.0 | 2.2 | 2.3 | 2.5 | 2.6 | 2.7 | 2.9      | ... | ... | ...  | ...  | ...  | ...  |
| 13                                  | .24                                      | .46  | .84  | 1.18 | 1.48 | 1.76    | 2.01 | 2.2 | 2.4 | 2.6 | 2.8 | 2.9 | 3.1 | 3.3      | 3.5 | ... | ...  | ...  | ...  | ...  |
| 14                                  | .26                                      | .50  | .92  | 1.29 | 1.62 | 1.93    | 2.21 | 2.5 | 2.7 | 2.9 | 3.1 | 3.3 | 3.4 | 3.7      | 3.9 | 4.1 | ...  | ...  | ...  | ...  |
| 15                                  | .28                                      | .54  | .99  | 1.39 | 1.76 | 2.09    | 2.40 | 2.7 | 2.9 | 3.2 | 3.4 | 3.6 | 3.8 | 4.1      | 4.3 | 4.5 | 4.7  | ...  | ...  | ...  |
| 16                                  | .30                                      | .57  | 1.06 | 1.50 | 1.89 | 2.25    | 2.59 | 2.9 | 3.2 | 3.4 | 3.7 | 3.9 | 4.1 | 4.4      | 4.7 | 5.0 | 5.1  | ...  | ...  | ...  |
| 17                                  | .32                                      | .61  | 1.13 | 1.60 | 2.02 | 2.41    | 2.77 | 3.1 | 3.4 | 3.7 | 4.0 | 4.2 | 4.4 | 4.8      | 5.1 | 5.4 | 5.6  | 5.7  | ...  | ...  |
| 18                                  | .34                                      | .65  | 1.20 | 1.70 | 2.15 | 2.57    | 2.95 | 3.3 | 3.6 | 3.9 | 4.2 | 4.5 | 4.7 | 5.1      | 5.5 | 5.8 | 6.0  | 6.2  | 6.6  | 6.7  |
| 19                                  | .36                                      | .69  | 1.27 | 1.80 | 2.28 | 2.73    | 3.13 | 3.5 | 3.9 | 4.2 | 4.5 | 4.8 | 5.0 | 5.5      | 5.9 | 6.2 | 6.4  | 6.6  | 6.7  | ...  |
| 20                                  | .38                                      | .72  | 1.34 | 1.89 | 2.40 | 2.87    | 3.30 | 3.7 | 4.1 | 4.4 | 4.7 | 5.0 | 5.3 | 5.8      | 6.2 | 6.5 | 6.8  | 7.0  | 7.1  | ...  |
| 21                                  | .40                                      | .76  | 1.41 | 1.99 | 2.53 | 3.01    | 3.47 | 3.9 | 4.3 | 4.6 | 5.0 | 5.3 | 5.6 | 6.1      | 6.5 | 6.9 | 7.1  | 7.4  | 7.5  | ...  |
| 22                                  | .42                                      | .79  | 1.48 | 2.09 | 2.64 | 3.16    | 3.63 | 4.1 | 4.5 | 4.9 | 5.2 | 5.5 | 5.8 | 6.4      | 6.8 | 7.2 | 7.5  | 7.7  | 7.9  | ...  |
| 23                                  | .44                                      | .83  | 1.54 | 2.18 | 2.76 | 3.30    | 3.80 | 4.3 | 4.7 | 5.1 | 5.4 | 5.8 | 6.1 | 6.6      | 7.1 | 7.5 | 7.8  | 8.0  | 8.2  | 8.3  |
| 24                                  | .46                                      | .87  | 1.61 | 2.27 | 2.88 | 3.44    | 3.95 | 4.4 | 4.9 | 5.3 | 5.7 | 6.0 | 6.4 | 6.9      | 7.4 | 7.8 | 8.1  | 8.4  | 8.5  | 8.6  |
| 25                                  | .48                                      | .90  | 1.67 | 2.36 | 3.00 | 3.58    | 4.11 | 4.6 | 5.1 | 5.5 | 5.9 | 6.3 | 6.6 | 7.2      | 7.7 | 8.1 | 8.4  | 8.7  | 8.8  | 8.9  |
| 30                                  | .57                                      | 1.08 | 1.99 | 2.81 | 3.56 | 4.24    | 4.87 | 5.4 | 6.0 | 6.5 | 6.9 | 7.4 | 7.8 | 8.4      | 8.9 | 9.4 | 9.7  | 10.0 | 10.1 | 10.1 |
|                                     | TYPE I                                   |      |      |      |      | TYPE II |      |     |     |     |     |     |     | TYPE III |     |     |      |      |      |      |

### 2050 — HP Ratings for 2050 Double Pitch Drive Chain

| No. of Effective Teeth, Small Spkt. | HP Ratings @ Various RPM, Small Sprocket |      |      |      |      |         |      |      |       |       |       |       |       |          |       |       |       |       |       |       |
|-------------------------------------|--|------|------|------|------|---------|------|------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-------|
|                                     | 25                                       | 50   | 100  | 150  | 200  | 250     | 300  | 350  | 400   | 450   | 500   | 550   | 600   | 650      | 700   | 750   | 800   | 850   | 900   | 950   |
| 6                                   | .18                                      | .31  | ...  | ...  | ...  | ...     | ...  | ...  | ...   | ...   | ...   | ...   | ...   | ...      | ...   | ...   | ...   | ...   | ...   | ...   |
| 7                                   | .22                                      | .40  | .65  | ...  | ...  | ...     | ...  | ...  | ...   | ...   | ...   | ...   | ...   | ...      | ...   | ...   | ...   | ...   | ...   | ...   |
| 8                                   | .26                                      | .48  | .82  | 1.08 | 1.28 | ...     | ...  | ...  | ...   | ...   | ...   | ...   | ...   | ...      | ...   | ...   | ...   | ...   | ...   | ...   |
| 9                                   | .31                                      | .56  | .98  | 1.32 | 1.59 | 1.82    | 1.99 | ...  | ...   | ...   | ...   | ...   | ...   | ...      | ...   | ...   | ...   | ...   | ...   | ...   |
| 10                                  | .35                                      | .64  | 1.14 | 1.55 | 1.89 | 2.19    | 2.42 | 2.62 | 2.80  | ...   | ...   | ...   | ...   | ...      | ...   | ...   | ...   | ...   | ...   | ...   |
| 11                                  | .39                                      | .72  | 1.30 | 1.77 | 2.19 | 2.55    | 2.85 | 3.11 | 3.35  | 3.55  | ...   | ...   | ...   | ...      | ...   | ...   | ...   | ...   | ...   | ...   |
| 12                                  | .43                                      | .80  | 1.45 | 1.99 | 2.47 | 2.90    | 3.26 | 3.58 | 3.88  | 4.12  | 4.31  | ...   | ...   | ...      | ...   | ...   | ...   | ...   | ...   | ...   |
| 13                                  | .47                                      | .88  | 1.59 | 2.20 | 2.74 | 3.23    | 3.65 | 4.03 | 4.38  | 4.66  | 4.90  | 5.11  | 5.30  | ...      | ...   | ...   | ...   | ...   | ...   | ...   |
| 14                                  | .51                                      | .95  | 1.73 | 2.41 | 3.01 | 3.55    | 4.02 | 4.45 | 4.85  | 5.17  | 5.47  | 5.73  | 5.95  | 6.09     | ...   | ...   | ...   | ...   | ...   | ...   |
| 15                                  | .55                                      | 1.02 | 1.87 | 2.62 | 3.27 | 3.87    | 4.37 | 4.86 | 5.30  | 5.67  | 6.01  | 6.31  | 6.57  | 6.75     | 6.94  | ...   | ...   | ...   | ...   | ...   |
| 16                                  | .58                                      | 1.09 | 2.01 | 2.82 | 3.52 | 4.17    | 4.72 | 5.25 | 5.73  | 6.15  | 6.53  | 6.87  | 7.17  | 7.39     | 7.61  | 7.79  | ...   | ...   | ...   | ...   |
| 17                                  | .62                                      | 1.17 | 2.14 | 3.01 | 3.77 | 4.46    | 5.07 | 5.67 | 6.15  | 6.61  | 7.05  | 7.42  | 7.74  | 7.99     | 8.24  | 8.46  | 8.62  | ...   | ...   | ...   |
| 18                                  | .66                                      | 1.24 | 2.27 | 3.20 | 4.01 | 4.75    | 5.41 | 6.04 | 6.56  | 7.07  | 7.54  | 7.95  | 8.29  | 8.56     | 8.84  | 9.08  | 9.28  | ...   | ...   | ...   |
| 19                                  | .70                                      | 1.31 | 2.40 | 3.39 | 4.25 | 5.04    | 5.75 | 6.40 | 6.96  | 7.51  | 8.01  | 8.46  | 8.82  | 9.12     | 9.42  | 9.68  | 9.90  | 10.08 | ...   | ...   |
| 20                                  | .74                                      | 1.38 | 2.53 | 3.57 | 4.48 | 5.32    | 6.07 | 6.75 | 7.35  | 7.94  | 8.46  | 8.94  | 9.33  | 9.65     | 9.97  | 10.25 | 10.49 | 10.69 | ...   | ...   |
| 21                                  | .77                                      | 1.45 | 2.66 | 3.75 | 4.71 | 5.59    | 6.38 | 7.10 | 7.74  | 8.36  | 8.90  | 9.40  | 9.82  | 10.16    | 10.50 | 10.80 | 11.06 | 11.28 | 11.44 | ...   |
| 22                                  | .81                                      | 1.52 | 2.79 | 3.92 | 4.93 | 5.85    | 6.69 | 7.44 | 8.12  | 8.77  | 9.33  | 9.84  | 10.29 | 10.65    | 11.01 | 11.32 | 11.59 | 11.83 | 12.00 | ...   |
| 23                                  | .84                                      | 1.59 | 2.92 | 4.10 | 5.15 | 6.11    | 6.99 | 7.77 | 8.49  | 9.16  | 9.75  | 10.27 | 10.74 | 11.12    | 11.57 | 11.97 | 12.30 | 12.59 | 12.85 | 13.03 |
| 24                                  | .88                                      | 1.66 | 3.05 | 4.27 | 5.37 | 6.37    | 7.29 | 8.10 | 8.85  | 9.54  | 10.16 | 10.70 | 11.18 | 11.57    | 11.97 | 12.30 | 12.59 | 12.85 | 13.03 | ...   |
| 25                                  | .91                                      | 1.72 | 3.17 | 4.45 | 5.59 | 6.62    | 7.57 | 8.42 | 9.20  | 9.91  | 10.56 | 11.12 | 11.61 | 12.01    | 12.42 | 12.75 | 13.05 | 13.33 | 13.50 | 13.57 |
| 30                                  | 1.09                                     | 2.05 | 3.77 | 5.29 | 6.62 | 7.82    | 8.92 | 9.92 | 10.80 | 11.65 | 12.32 | 12.99 | 13.55 | 13.96    | 14.39 | 14.76 | 15.06 | 15.30 | 15.48 | ...   |
|                                     | TYPE I                                   |      |      |      |      | TYPE II |      |      |       |       |       |       |       | TYPE III |       |       |       |       |       |       |

|                                  |                               |                                  |                                       |
|----------------------------------|-------------------------------|----------------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT14-2 | SPECIFICATIONS<br>PAGE PT14-3 | RELATED PRODUCTS<br>PAGE PT14-28 | ENGINEERING/TECHNICAL<br>PAGE PT14-30 |
|----------------------------------|-------------------------------|----------------------------------|---------------------------------------|

V-Drives

FHP Drives

Drive Component Accessories

DVNA-SYNC

HT200/HTD Synchronous Drives

HT500 Synchronous Drives

Roller Chain Sprockets





## Basic Horsepower Ratings

### 2060 — HP Ratings for 2060 Double Pitch Drive Chain

| No. of Effective Teeth, Small Spkt. | HP Ratings @ Various RPM, Small Sprocket |      |      |      |      |      |      |                |       |       |       |       |       |       |                 |       |       |       |       |       |
|-------------------------------------|--|------|------|------|------|------|------|----------------|-------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|-------|
|                                     | 25                                       | 50   | 75   | 100  | 125  | 150  | 175  | 200            | 225   | 250   | 275   | 300   | 350   | 400   | 450             | 500   | 550   | 600   | 650   | 700   |
| 6                                   | .30                                      | ...  | ...  | ...  | ...  | ...  | ...  | ...            | ...   | ...   | ...   | ...   | ...   | ...   | ...             | ...   | ...   | ...   | ...   | ...   |
| 7                                   | .37                                      | .66  | .88  | 1.06 | ...  | ...  | ...  | ...            | ...   | ...   | ...   | ...   | ...   | ...   | ...             | ...   | ...   | ...   | ...   | ...   |
| 8                                   | .44                                      | .80  | 1.09 | 1.34 | 1.56 | 1.74 | 1.89 | ...            | ...   | ...   | ...   | ...   | ...   | ...   | ...             | ...   | ...   | ...   | ...   | ...   |
| 9                                   | .52                                      | .94  | 1.30 | 1.62 | 1.90 | 2.15 | 2.36 | 2.55           | 2.72  | ...   | ...   | ...   | ...   | ...   | ...             | ...   | ...   | ...   | ...   | ...   |
| 10                                  | .59                                      | 1.08 | 1.51 | 1.89 | 2.23 | 2.54 | 2.82 | 3.07           | 3.29  | 3.50  | 3.68  | 3.83  | ...   | ...   | ...             | ...   | ...   | ...   | ...   | ...   |
| 11                                  | .66                                      | 1.21 | 1.71 | 2.15 | 2.54 | 2.92 | 3.25 | 3.58           | 3.84  | 4.12  | 4.34  | 4.56  | 4.93  | ...   | ...             | ...   | ...   | ...   | ...   | ...   |
| 12                                  | .73                                      | 1.34 | 1.90 | 2.41 | 2.85 | 3.29 | 3.67 | 4.06           | 4.37  | 4.71  | 4.97  | 5.24  | 5.71  | 6.06  | ...             | ...   | ...   | ...   | ...   | ...   |
| 13                                  | .79                                      | 1.47 | 2.09 | 2.66 | 3.15 | 3.65 | 4.08 | 4.52           | 4.88  | 5.27  | 5.59  | 5.91  | 6.46  | 6.92  | 7.25            | ...   | ...   | ...   | ...   | ...   |
| 14                                  | .86                                      | 1.60 | 2.27 | 2.90 | 3.45 | 4.00 | 4.48 | 4.96           | 5.37  | 5.80  | 6.17  | 6.54  | 7.17  | 7.72  | 8.10            | 8.51  | ...   | ...   | ...   | ...   |
| 15                                  | .92                                      | 1.72 | 2.45 | 3.14 | 3.74 | 4.34 | 4.86 | 5.39           | 5.85  | 6.32  | 6.73  | 7.14  | 7.86  | 8.48  | 8.92            | 9.40  | ...   | ...   | ...   | ...   |
| 16                                  | .99                                      | 1.85 | 2.64 | 3.37 | 4.02 | 4.67 | 5.24 | 5.81           | 6.32  | 6.82  | 7.27  | 7.72  | 8.52  | 9.21  | 9.71            | 10.25 | 10.70 | ...   | ...   | ...   |
| 17                                  | 1.05                                     | 1.97 | 2.82 | 3.59 | 4.29 | 4.99 | 5.61 | 6.22           | 6.78  | 7.32  | 7.80  | 8.29  | 9.16  | 9.91  | 10.47           | 11.06 | 11.59 | 11.99 | ...   | ...   |
| 18                                  | 1.12                                     | 2.10 | 3.00 | 3.82 | 4.56 | 5.31 | 5.97 | 6.63           | 7.23  | 7.81  | 8.32  | 8.84  | 9.78  | 10.58 | 11.21           | 11.84 | 12.42 | 12.88 | ...   | ...   |
| 19                                  | 1.18                                     | 2.22 | 3.17 | 4.04 | 4.83 | 5.62 | 6.32 | 7.03           | 7.67  | 8.29  | 8.83  | 9.38  | 10.38 | 11.23 | 11.93           | 12.60 | 13.22 | 13.73 | 14.14 | ...   |
| 20                                  | 1.25                                     | 2.34 | 3.34 | 4.25 | 5.09 | 5.93 | 6.67 | 7.42           | 8.09  | 8.74  | 9.33  | 9.91  | 10.95 | 11.86 | 12.62           | 13.34 | 13.99 | 14.54 | 14.99 | ...   |
| 21                                  | 1.31                                     | 2.46 | 3.51 | 4.48 | 5.36 | 6.24 | 7.02 | 7.80           | 8.50  | 9.19  | 9.81  | 10.43 | 11.53 | 12.47 | 13.28           | 14.05 | 14.73 | 15.31 | 15.80 | ...   |
| 22                                  | 1.37                                     | 2.58 | 3.67 | 4.70 | 5.62 | 6.54 | 7.35 | 8.17           | 8.90  | 9.63  | 10.28 | 10.93 | 12.08 | 13.06 | 13.92           | 14.73 | 15.44 | 16.05 | 16.57 | ...   |
| 23                                  | 1.44                                     | 2.69 | 3.84 | 4.91 | 5.87 | 6.83 | 7.68 | 8.54           | 9.30  | 10.06 | 10.74 | 11.42 | 12.62 | 13.63 | 14.54           | 15.39 | 16.12 | 16.76 | 17.30 | 17.78 |
| 24                                  | 1.50                                     | 2.80 | 4.00 | 5.12 | 6.12 | 7.12 | 8.01 | 8.91           | 9.69  | 10.48 | 11.19 | 11.90 | 13.15 | 14.18 | 15.15           | 16.03 | 16.77 | 17.44 | 18.00 | 18.40 |
| 25                                  | 1.56                                     | 2.92 | 4.17 | 5.32 | 6.36 | 7.41 | 8.34 | 9.27           | 10.08 | 10.89 | 11.62 | 12.37 | 13.58 | 14.72 | 15.75           | 16.65 | 17.40 | 18.09 | 18.67 | 19.09 |
| 30                                  | 1.86                                     | 3.48 | 4.96 | 6.32 | 7.58 | 8.78 | 9.86 | 10.94          | 11.85 | 12.76 | 13.71 | 14.55 | 15.98 | 17.28 | 18.40           | 19.40 | 20.22 | 20.92 | 21.32 | 22.00 |
|                                     | <b>TYPE I</b>                            |      |      |      |      |      |      | <b>TYPE II</b> |       |       |       |       |       |       | <b>TYPE III</b> |       |       |       |       |       |

### 2080 — HP Ratings for 2080 Double Pitch Drive Chain

| No. of Effective Teeth, Small Spkt. | HP Ratings @ Various RPM, Small Sprocket |      |      |      |      |      |       |       |       |       |                |       |       |       |       |                 |       |       |       |       |
|-------------------------------------|--|------|------|------|------|------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|
|                                     | 10                                       | 20   | 30   | 40   | 50   | 60   | 70    | 80    | 90    | 100   | 125            | 150   | 175   | 200   | 225   | 250             | 300   | 350   | 400   | 450   |
| 6                                   | .32                                      | .55  | .76  | ...  | ...  | ...  | ...   | ...   | ...   | ...   | ...            | ...   | ...   | ...   | ...   | ...             | ...   | ...   | ...   | ...   |
| 7                                   | .38                                      | .70  | .98  | 1.22 | 1.44 | 1.63 | 1.80  | ...   | ...   | ...   | ...            | ...   | ...   | ...   | ...   | ...             | ...   | ...   | ...   | ...   |
| 8                                   | .46                                      | .84  | 1.18 | 1.50 | 1.78 | 2.04 | 2.28  | 2.50  | 2.70  | 2.88  | ...            | ...   | ...   | ...   | ...   | ...             | ...   | ...   | ...   | ...   |
| 9                                   | .52                                      | .98  | 1.39 | 1.76 | 2.11 | 2.43 | 2.74  | 3.02  | 3.29  | 3.53  | 4.08           | 4.54  | ...   | ...   | ...   | ...             | ...   | ...   | ...   | ...   |
| 10                                  | .59                                      | 1.11 | 1.58 | 2.02 | 2.43 | 2.82 | 3.18  | 3.53  | 3.85  | 4.16  | 4.85           | 5.45  | 5.98  | ...   | ...   | ...             | ...   | ...   | ...   | ...   |
| 11                                  | .66                                      | 1.24 | 1.77 | 2.27 | 2.76 | 3.20 | 3.60  | 4.02  | 4.38  | 4.77  | 5.60           | 6.33  | 6.98  | 7.56  | 8.07  | ...             | ...   | ...   | ...   | ...   |
| 12                                  | .72                                      | 1.37 | 1.96 | 2.52 | 3.08 | 3.56 | 4.02  | 4.50  | 4.92  | 5.36  | 6.33           | 7.19  | 7.95  | 8.66  | 9.27  | 9.82            | ...   | ...   | ...   | ...   |
| 13                                  | .79                                      | 1.49 | 2.15 | 2.77 | 3.38 | 3.81 | 4.44  | 4.97  | 5.45  | 5.93  | 7.02           | 8.02  | 8.89  | 9.72  | 10.42 | 11.08           | ...   | ...   | ...   | ...   |
| 14                                  | .85                                      | 1.62 | 2.33 | 3.01 | 3.67 | 4.26 | 4.85  | 5.42  | 5.96  | 6.49  | 7.69           | 8.82  | 9.80  | 10.74 | 11.53 | 12.29           | 13.60 | ...   | ...   | ...   |
| 15                                  | .91                                      | 1.74 | 2.52 | 3.25 | 3.96 | 4.60 | 5.25  | 5.86  | 6.45  | 7.03  | 8.34           | 9.60  | 10.68 | 11.73 | 12.60 | 13.46           | 14.94 | ...   | ...   | ...   |
| 16                                  | .98                                      | 1.87 | 2.70 | 3.48 | 4.24 | 4.94 | 5.64  | 6.29  | 6.93  | 7.56  | 8.98           | 10.36 | 11.53 | 12.69 | 13.63 | 14.59           | 16.24 | 17.65 | ...   | ...   |
| 17                                  | 1.04                                     | 1.99 | 2.88 | 3.71 | 4.52 | 5.28 | 6.02  | 6.72  | 7.40  | 8.09  | 9.61           | 11.10 | 12.36 | 13.62 | 14.63 | 15.69           | 17.50 | 19.04 | ...   | ...   |
| 18                                  | 1.11                                     | 2.11 | 3.05 | 3.94 | 4.80 | 5.61 | 6.40  | 7.14  | 7.87  | 8.60  | 10.23          | 11.82 | 13.18 | 14.52 | 15.60 | 16.76           | 18.72 | 20.38 | 21.77 | ...   |
| 19                                  | 1.17                                     | 2.23 | 3.23 | 4.17 | 5.08 | 5.94 | 6.77  | 7.56  | 8.33  | 9.10  | 10.84          | 12.52 | 13.98 | 15.39 | 16.55 | 17.80           | 19.90 | 21.67 | 23.18 | ...   |
| 20                                  | 1.23                                     | 2.35 | 3.40 | 4.40 | 5.35 | 6.26 | 7.13  | 7.98  | 8.78  | 9.60  | 11.44          | 13.20 | 14.76 | 16.24 | 17.48 | 18.81           | 21.04 | 22.91 | 24.52 | ...   |
| 21                                  | 1.29                                     | 2.47 | 3.57 | 4.62 | 5.62 | 6.58 | 7.49  | 8.39  | 9.23  | 10.09 | 12.03          | 13.87 | 15.52 | 17.07 | 18.39 | 19.79           | 22.14 | 24.11 | 25.80 | ...   |
| 22                                  | 1.36                                     | 2.58 | 3.74 | 4.84 | 5.89 | 6.89 | 7.84  | 8.79  | 9.67  | 10.57 | 12.62          | 14.53 | 16.27 | 17.89 | 19.28 | 20.74           | 23.20 | 25.27 | 27.03 | ...   |
| 23                                  | 1.42                                     | 2.70 | 3.90 | 5.06 | 6.16 | 7.20 | 8.19  | 9.18  | 10.10 | 11.05 | 13.20          | 15.18 | 17.01 | 18.70 | 20.15 | 21.66           | 24.23 | 26.40 | 28.22 | ...   |
| 24                                  | 1.48                                     | 2.82 | 4.05 | 5.27 | 6.43 | 7.51 | 8.54  | 9.56  | 10.53 | 11.52 | 13.77          | 15.82 | 17.74 | 19.50 | 21.01 | 22.55           | 25.23 | 27.50 | 29.38 | 30.98 |
| 25                                  | 1.54                                     | 2.93 | 4.20 | 5.48 | 6.70 | 7.81 | 8.89  | 9.94  | 10.95 | 11.98 | 14.33          | 16.45 | 18.46 | 20.29 | 21.86 | 23.42           | 26.20 | 28.57 | 30.52 | 32.16 |
| 30                                  | 1.84                                     | 3.50 | 5.02 | 6.54 | 7.96 | 9.29 | 10.59 | 11.74 | 12.97 | 14.23 | 16.98          | 19.46 | 21.79 | 23.91 | 25.73 | 27.52           | 30.70 | 33.56 | 35.52 | 37.26 |
|                                     | <b>TYPE I</b>                            |      |      |      |      |      |       |       |       |       | <b>TYPE II</b> |       |       |       |       | <b>TYPE III</b> |       |       |       |       |

**Explanation of Lubrication:**

**TYPE I:** Steady Drip (4-10 drops/minute) shallow bath or manual w/oil applied by brush or spout can to link plate edges when in lower span of chain.

**TYPE II:** Rapid Drip (20 drops/minute, min.) or continuous w/ shallow bath, disc or slinger.

**TYPE III:** Continuous w/disc, slinger or circulating pump.

**Additional Information**—ANSI Roller Chain Standard B29.3, Section A1.3.

|                                  |                               |                                  |                                       |
|----------------------------------|-------------------------------|----------------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT14-2 | SPECIFICATIONS<br>PAGE PT14-3 | RELATED PRODUCTS<br>PAGE PT14-28 | ENGINEERING/TECHNICAL<br>PAGE PT14-30 |
|----------------------------------|-------------------------------|----------------------------------|---------------------------------------|



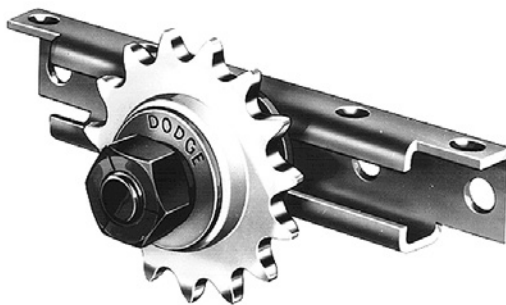


## RELATED PRODUCTS

### Tensioner Frame, Idler Sprockets

Proper chain tension is necessary for normal life expectancy. It's also a prime consideration for the efficient, quiet operation of the drive.

The tensioner frame shown below provides an economical means of locating an idler sprocket on a 1/2, diameter machine bolt or a 5/8, diameter spacer. Frame can be mounted in several positions on surfaces either parallel or perpendicular to the chain, suitable for either conventional or cantilever mounting.



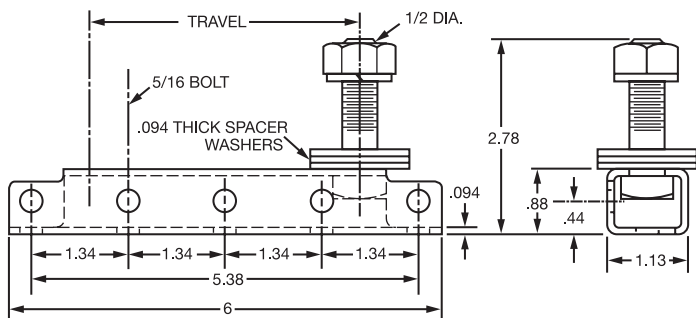
#### Chain Tensioner Frame, P/N 102050

This formed steel frame has mounting holes in the bottom and one side so it can be mounted in several positions on surfaces parallel or perpendicular to the chain. Included is a 5/8" O.D. sleeve and a 1/2" diameter machine bolt to use with 1/2" and 5/8" bore idler sprockets.

Spacer washers may be used to obtain the chain clearance required. Idler sprocket table below shows minimum space required for chain clearance.

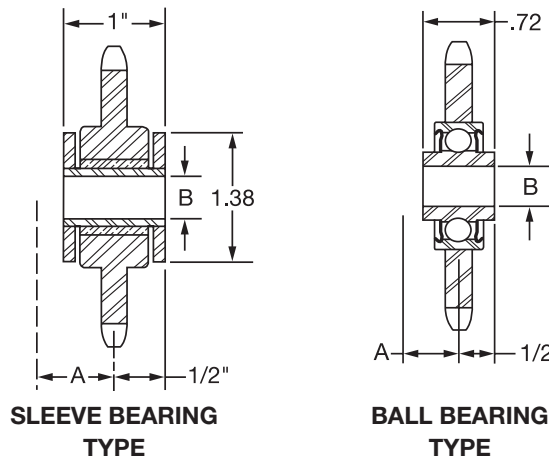
Part Number **102050**

Weight .73 lbs



#### Idler Sprockets

Although these idler sprockets are designed to be used with the frames shown above, they can be mounted on standard machine bolts as shown in table below. Idler sprockets will operate at the same speeds permitted for driver sprockets of the same number of teeth. They are machined all over with teeth hardened to assure smooth-running drives. They are available with either bronze sleeve or ball bearings in the sprocket bore. The sleeve bearing runs on a hardened and ground steel journal. The ball bearings are double-sealed and prelubricated.



| For Chain: |       | Description + | Part No.      | No. of Spkt. Teeth | Spkt. O.D. | Brg. Type | Wt.  | A * | B † | Ref. Old No. |
|------------|-------|---------------|---------------|--------------------|------------|-----------|------|-----|-----|--------------|
| No.        | Pitch |               |               |                    |            |           |      |     |     |              |
| 35         | 3/8"  | 31E20         | <b>102052</b> | 20                 | 2.593      | Brz.      | .53  | .59 | 1/2 | CT320        |
|            |       | 35BB20H       | <b>102060</b> |                    |            | Ball      | .30  | .44 | 5/8 | 320H         |
| 41-40      | 1/2"  | 41E15         | <b>102053</b> | 15                 | 2.652      | Brz.      | .58  | .59 | 1/2 | CT415        |
|            |       | 40BB17H       | <b>102061</b> | 17                 | 2.974      | Ball      | .50  | .44 | 5/8 | 417H         |
| 50         | 5/8"  | 40BB18H       | <b>102070</b> | 18                 | 3.14       | Ball      | .53  | .44 | 5/8 | ...          |
|            |       | 51E15         | <b>102054</b> | 15                 | 3.315      | Brz.      | .83  | .72 | 1/2 | CT515        |
|            |       | 50BB15H       | <b>102062</b> |                    |            | Ball      | .60  | .56 | 5/8 | 515H         |
| 60, 60H    | 3/4"  | 50BB17H       | <b>102073</b> | 17                 | .372       | Ball      | .78  | .56 | 5/8 | ...          |
|            |       | 61E14         | <b>102055</b> | 14                 | 3.736      | Brz.      | 1.09 | .81 | 1/2 | CT614        |
|            |       | 60BB13H       | <b>102063</b> | 13                 | 3.493      | Ball      | .90  | .66 | 5/8 | 613H         |
|            |       | 60BB15H       | <b>Δ</b>      | 15                 | 3.98       | Ball      | 1.06 | .66 | 5/8 | ...          |
| 80, 80H    | 1"    | 80BB12H       | <b>102064</b> | 12                 | 4.332      | Ball      | 1.5  | .69 | 5/8 | 812H         |

\* Minimum space required for chain clearance.

† Size of standard machine bolt on which sprocket can be mounted.

Δ Non-Stock. Allow 2-4 weeks delivery.

+ "H" suffix indicates hardened teeth

|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT14-2 | SPECIFICATIONS<br>PAGE PT14-3 | SELECTION<br>PAGE PT14-16 | ENGINEERING/TECHNICAL<br>PAGE PT14-30 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|



# RELATED PRODUCTS

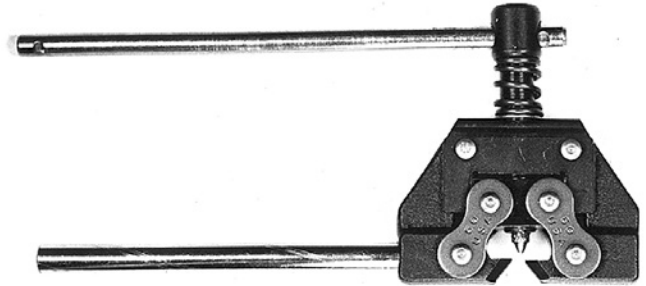
## Chain Tools



**Chain Assembly Tools**

This unique tool was designed to make sizes 35 thru 240 chain installation easy. By hooking the two jaws into each end of the chain and turning the screw (handle) until the two ends almost meet, the connecting link can be inserted and fastened in place. The photo shows the Model 35 tool. The Model 80 uses a T-handle instead of a knob.

| For Chain Nos. | Jaw Spread of Tool | Part No. | Wt. (Lbs.) |
|----------------|--------------------|----------|------------|
| 35 thru 60     | 2"                 | 098190   | .4         |
| 80 thru 240    | 5"                 | 098191   | 2.2        |



**Chain Pin Extractors (Chain Breaker)**

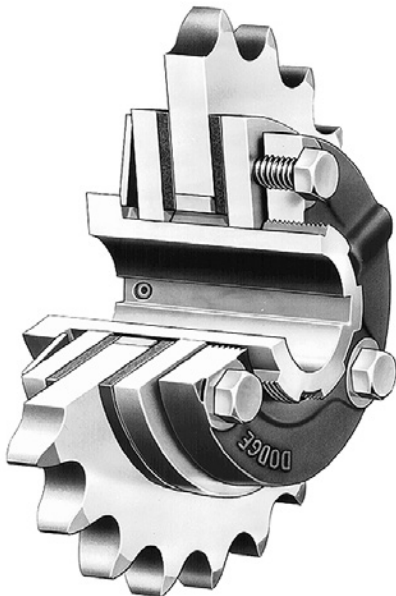
This fast working tool is practical for removing chain pins when roller chain needs to be disconnected or when various lengths of chain need to be made up.

Three sizes of pin extractors are available to use on riveted and cottered chain, sizes 25 thru 160. This tool, if properly used, will not damage chain, and pins can be reused.

| For Chain Nos. | Part No. | Ref. Model No. | Wt. (Lbs.) | Replacement Parts |          |
|----------------|----------|----------------|------------|-------------------|----------|
|                |          |                |            | Screw & Tip       | Tip Only |
| 25 thru 50     | 098175   | 101-1          | 1.0        | 391301*           | 098180   |
| 60 thru 80     | 098176   | 101-2          | 1.9        | 391304            | 098181   |
| 100 thru 160   | 098177   | 101-3          | 8.5        | 391308            | 098182   |

\* Includes handle

**TORQUE-TAMER torque overload clutch offers thrifty overload protection that's a cinch to adjust.**



See TORQUE TAMER Section for complete specifications and ordering information.

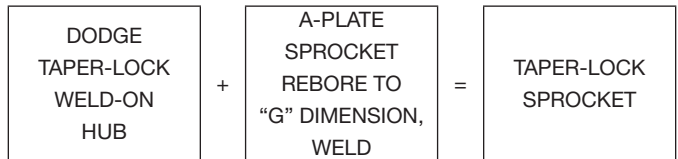
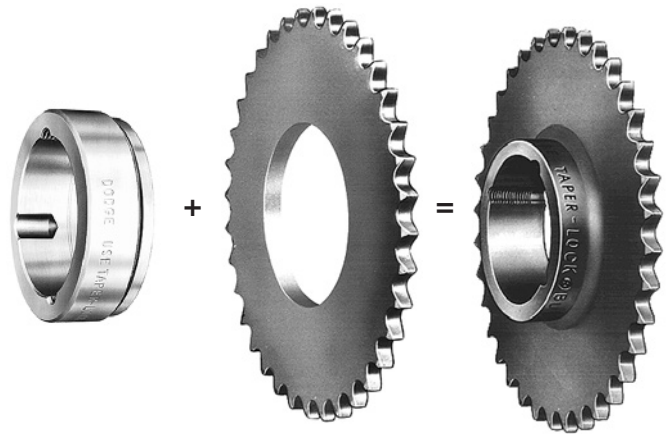
|                                  |                               |                           |                                       |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT14-2 | SPECIFICATIONS<br>PAGE PT14-3 | SELECTION<br>PAGE PT14-16 | ENGINEERING/TECHNICAL<br>PAGE PT14-30 |
|----------------------------------|-------------------------------|---------------------------|---------------------------------------|



## ENGINEERING/TECHNICAL

### Custom TAPER-LOCK Sprockets

Non-stock or special TAPER-LOCK sprockets may be fabricated from stock TAPER-LOCK hubs and A-Plate sprockets rebored to fit the hubs. This provides the capability for fabricating sprockets with larger bore capacity, or number of teeth that are stocked as A-Plate but not TAPER-LOCK. This operation can be done on location, or supplied by DODGE, price on application. DODGE TAPER-LOCK hubs are available in three types: S, K and W/WA. All are of quality steel bar stock or forgings, easily welded, and ready to accept TAPER-LOCK Bushings. For more detailed information and dimensions, refer to Bushings/Hubs section of this catalog.



| Chain Pitch | No. Teeth | TAPER-LOCK Hub | A-Plate Sprocket | Fabricated Sprocket |
|-------------|-----------|----------------|------------------|---------------------|
| 50          | 50        | S30-6          | 50A50            | 50BTL50             |
| 60          | 34        | S20-6          | 60A34            | 60BTL34             |
| 60          | 96        | S35            | 60A96            | 60BTL96             |
| 100         | 42        | 835            | 100A42           | 100BTL42            |
| 140         | 80        | WA60           | 140A80           | 140CTL80            |
| 240         | 54        | WA70           | 240A54           | 240CTL54            |

| Hub No.<br>◇ | Part No.      | For Use With Bush. + | Bushing Bore Range | A-Plate Rebore Dia. | Minimum Number Teeth for Chain Pitch No. |       |    |    |    |     |     |     |     |     |     |     |
|--------------|---------------|----------------------|--------------------|---------------------|--|-------|----|----|----|-----|-----|-----|-----|-----|-----|-----|
|              |               |                      |                    |                     | 35                                       | 40/41 | 50 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 240 |
| S16-4        | <b>097023</b> | 1610                 | 1/2 - 11/16        | 2.875Δ              | 31                                       | 24    | -  | -  | -  | -   | -   | -   | -   | -   | -   | -   |
| S16-6        | <b>097024</b> | 1610                 | 1/2 - 11/16        | 2.875Δ              | -  | -     | 21 | 19 | -  | -   | -   | -   | -   | -   | -   | -   |
| S20-6        | <b>097025</b> | 2012                 | 1/2 - 2-1/8        | 3.4375Δ             | 36                                       | 28    | 24 | 21 | -  | -   | -   | -   | -   | -   | -   | -   |
| S20-8        | <b>097015</b> | 2012                 | 1/2 - 2-1/8        | 3.4375Δ             | -  | -     | -  | -  | 17 | -   | -   | -   | -   | -   | -   | -   |
| S25-6        | <b>097016</b> | 2517                 | 1/2 - 2-11/16      | 4.125Δ              | 42                                       | 33    | 27 | 24 | -  | -   | -   | -   | -   | -   | -   | -   |
| S25-8        | <b>097017</b> | 2517                 | 1/2 - 2-11/16      | 4.125Δ              | -  | -     | -  | -  | 19 | -   | -   | -   | -   | -   | -   | -   |
| S25-10       | <b>097018</b> | 2517                 | 1/2 - 2-11/16      | 4.125Δ              | -  | -     | -  | -  | -  | 16  | -   | -   | -   | -   | -   | -   |
| S25-16       | <b>097019</b> | 2517                 | 1/2 - 2-11/16      | 4.125Δ              | -  | -     | -  | -  | -  | -   | 15  | 13  | 12  | -   | -   | -   |
| S30-10       | <b>097020</b> | 3020                 | 7/8 - 3-1/4        | 5.125Δ              | 49                                       | 39    | 32 | 28 | 22 | 19  | -   | -   | -   | -   | -   | -   |
| S30-16       | <b>097021</b> | 3020                 | 7/8 - 3-1/4        | 5.125Δ              | -  | -     | -  | -  | -  | -   | -   | 17  | 15  | 14  | -   | -   |
| S35          | <b>097022</b> | 3535                 | 1-3/16 - 3-15/16   | 6.375Δ              | -  | 44    | 38 | 33 | 26 | 22  | 20  | 17  | 16  | -   | -   | -   |
| WA40         | <b>228089</b> | 4040                 | 1-7/16 - 4-7/16    | 7.250Δ              | -  | -     | 45 | 38 | 30 | 25  | 22  | 20  | 18  | 17  | 15  | -   |
| WA45         | <b>228090</b> | 4545                 | 1-15/16 - 4-15/16  | 8.000+              | -  | -     | 50 | 43 | 33 | 28  | 24  | 21  | 20  | 18  | 17  | 15  |
| WA50         | <b>228091</b> | 5050                 | 2-7/16 - 5         | 8.750+              | -  | -     | 52 | 46 | 35 | 29  | 26  | 23  | 21  | 19  | 18  | 15  |
| WA60         | <b>228092</b> | 6050                 | 3-7/16 - 6         | 12.250+             | -  | -     | -  | -  | 47 | 39  | 34  | 29  | 26  | 24  | 22  | 19  |
| WA70         | <b>228093</b> | 7060                 | 3-15/16 - 7        | 13.500+             | -  | -     | -  | -  | 51 | 42  | 36  | 32  | 28  | 26  | 24  | 21  |
| WA80         | <b>228094</b> | 8065                 | 4-7/16 - 8         | 14.250+             | -  | -     | -  | -  | -  | 44  | 38  | 33  | 30  | 27  | 25  | 21  |
| WA100        | <b>228095</b> | 10085                | 7 - 10             | 18.750+             | -  | -     | -  | -  | -  | -   | 47  | 41  | 36  | 33  | 30  | 26  |

◇ Refer to D1-12 & 13 for hub dimensions

REBORE TOLERANCES  
 Δ +.004 + .001  
 + +.010 + .004

|                                  |                               |                           |                                  |
|----------------------------------|-------------------------------|---------------------------|----------------------------------|
| FEATURES/BENEFITS<br>PAGE PT14-2 | SPECIFICATIONS<br>PAGE PT14-3 | SELECTION<br>PAGE PT14-16 | RELATED PRODUCTS<br>PAGE PT14-28 |
|----------------------------------|-------------------------------|---------------------------|----------------------------------|



## Sprocket Pitch Diameters

| No. Teeth | Chain Number |        |        |        |        |        |        |        |        |        |        |        |        |         |
|-----------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
|           | 25           | 35     | 41     | 40     | 50     | 60     | 80     | 100    | 120    | 140    | 160    | 180    | 200    | 240     |
| 9         | .731         | 1.097  | 1.462  | 1.462  | 1.828  | 2.193  | 2.924  | 3.655  | 4.356  | 5.117  | 5.848  | 6.579  | 7.310  | 8.771   |
| 10        | .809         | 1.214  | 1.618  | 1.618  | 2.023  | 2.427  | 3.236  | 4.045  | 4.854  | 5.663  | 6.472  | 7.281  | 8.090  | 9.708   |
| 11        | .887         | 1.331  | 1.775  | 1.775  | 2.219  | 2.663  | 3.550  | 4.438  | 5.325  | 6.213  | 7.100  | 7.986  | 8.875  | 10.649  |
| 12        | .996         | 1.449  | 1.932  | 1.932  | 2.415  | 2.898  | 3.864  | 4.830  | 5.796  | 6.762  | 7.728  | 8.693  | 9.660  | 11.591  |
| 13        | 1.045        | 1.567  | 2.089  | 2.089  | 2.612  | 3.134  | 4.179  | 5.224  | 6.269  | 7.313  | 8.358  | 9.402  | 10.447 | 12.536  |
| 14        | 1.124        | 1.685  | 2.247  | 2.247  | 2.809  | 3.371  | 4.494  | 5.618  | 6.741  | 7.865  | 8.988  | 10.112 | 11.235 | 13.482  |
| 15        | 1.203        | 1.804  | 2.405  | 2.405  | 3.006  | 3.608  | 4.810  | 6.013  | 7.215  | 8.418  | 9.620  | 10.822 | 12.025 | 14.429  |
| 16        | 1.282        | 1.922  | 2.563  | 2.563  | 3.204  | 3.845  | 5.126  | 6.408  | 7.698  | 8.971  | 10.252 | 11.533 | 12.815 | 15.377  |
| 17        | 1.361        | 2.041  | 2.721  | 2.721  | 3.401  | 4.082  | 5.442  | 6.803  | 8.163  | 9.524  | 10.844 | 12.245 | 13.605 | 16.327  |
| 18        | 1.440        | 2.160  | 2.879  | 2.879  | 3.599  | 4.319  | 5.759  | 7.199  | 8.639  | 10.078 | 11.518 | 12.957 | 14.397 | 17.276  |
| 19        | 1.519        | 2.279  | 3.038  | 3.038  | 3.798  | 4.557  | 6.076  | 7.595  | 9.114  | 10.633 | 12.152 | 13.670 | 15.190 | 18.227  |
| 20        | 1.598        | 2.397  | 3.196  | 3.196  | 3.995  | 4.794  | 6.392  | 7.990  | 9.588  | 11.186 | 12.784 | 14.383 | 15.980 | 19.177  |
| 21        | 1.678        | 2.516  | 3.355  | 3.355  | 4.194  | 5.033  | 6.710  | 8.388  | 10.065 | 11.743 | 13.420 | 15.096 | 16.775 | 20.129  |
| 22        | 1.757        | 2.635  | 3.513  | 3.513  | 4.392  | 5.270  | 7.027  | 8.784  | 10.541 | 12.297 | 14.054 | 15.810 | 17.567 | 21.080  |
| 23        | 1.836        | 2.754  | 3.673  | 3.672  | 4.590  | 5.508  | 7.344  | 9.180  | 11.016 | 12.852 | 14.688 | 16.524 | 18.360 | 22.032  |
| 24        | 1.915        | 2.873  | 3.831  | 3.831  | 4.788  | 5.746  | 7.661  | 9.576  | 11.492 | 13.407 | 15.322 | 17.238 | 19.153 | 22.984  |
| 25        | 1.995        | 2.992  | 3.989  | 3.989  | 4.987  | 5.984  | 7.979  | 9.974  | 11.969 | 13.963 | 15.958 | 17.952 | 19.947 | 23.936  |
| 26        | 2.074        | 3.111  | 4.148  | 4.148  | 5.185  | 6.222  | 8.296  | 10.370 | 12.444 | 14.518 | 16.592 | 18.666 | 20.740 | 24.889  |
| 27        | ....         | 3.230  | 4.307  | 4.307  | 5.384  | 6.461  | 8.614  | 10.768 | 12.921 | 15.075 | 17.228 | 19.381 | 21.535 | 25.841  |
| 28        | 2.233        | 3.349  | 4.465  | 4.465  | 5.582  | 6.698  | 8.931  | 11.164 | 13.397 | 15.629 | 17.862 | 20.096 | 22.327 | 26.794  |
| 29        | ....         | 3.468  | 4.625  | 4.625  | 5.781  | 6.937  | 9.249  | 11.561 | 13.874 | 16.186 | 18.498 | 20.810 | 23.123 | 27.747  |
| 30        | 2.392        | 3.588  | 4.783  | 4.783  | 5.979  | 7.175  | 9.567  | 11.959 | 14.351 | 16.742 | 19.134 | 21.525 | 23.917 | 28.700  |
| 31        | ....         | 3.707  | 4.942  | 4.942  | 6.178  | 7.413  | 9.884  | 12.355 | 14.826 | 17.297 | 19.768 | 22.240 | 24.710 | 29.654  |
| 32        | 2.551        | 3.826  | 5.101  | 5.101  | 6.376  | 7.652  | 10.202 | 12.753 | 15.303 | 17.854 | 20.404 | 22.955 | 25.505 | 30.607  |
| 33        | ....         | 3.945  | 5.260  | 5.260  | 6.575  | 7.890  | 10.520 | 13.150 | 15.780 | 18.410 | 21.040 | 23.670 | 26.300 | 31.560  |
| 34        | ....         | 4.064  | 5.419  | 5.419  | 6.774  | 8.129  | 10.838 | 13.548 | 16.257 | 18.967 | 21.676 | 24.385 | 27.095 | 32.514  |
| 35        | ....         | 4.184  | 5.578  | 5.578  | 6.973  | 8.367  | 11.156 | 13.945 | 16.734 | 19.523 | 22.312 | 25.101 | 27.890 | 33.467  |
| 36        | 2.869        | 4.303  | 5.737  | 5.737  | 7.171  | 8.606  | 11.474 | 14.343 | 17.211 | 20.080 | 22.948 | 25.815 | 28.685 | 34.421  |
| 37        | ....         | 4.422  | 5.896  | 5.896  | 7.370  | 8.841  | 11.792 | 14.740 | 17.688 | 20.636 | 23.584 | 26.531 | 29.480 | 35.375  |
| 38        | ....         | 4.541  | 6.055  | 6.055  | 7.569  | 9.083  | 12.110 | 15.138 | 18.165 | 21.193 | 24.220 | 27.246 | 30.275 | 36.329  |
| 39        | ...          | 4.661  | 6.214  | 6.214  | 7.768  | 9.321  | 12.428 | 15.535 | 18.642 | 21.749 | 24.856 | 27.962 | 31.070 | 37.283  |
| 40        | 3.187        | 4.780  | 6.373  | 6.373  | 7.966  | 9.560  | 12.745 | 15.933 | 19.119 | 22.306 | 25.492 | 28.677 | 31.865 | 38.237  |
| 41        | ....         | 4.599  | 6.532  | 6.532  | 8.165  | 9.798  | 13.064 | 16.330 | 19.596 | 22.862 | 26.128 | 29.393 | 32.660 | 39.191  |
| 42        | ....         | 5.018  | 6.691  | 6.691  | 8.364  | 10.037 | 13.382 | 16.728 | 20.073 | 23.419 | 26.764 | 30.108 | 33.455 | 40.145  |
| 43        | ....         | 5.138  | 6.850  | 6.850  | 8.563  | 10.275 | 13.700 | 17.125 | 20.550 | 23.975 | 27.400 | 30.824 | 34.250 | 41.099  |
| 44        | ....         | 5.257  | 7.009  | 7.009  | 8.761  | 10.514 | 14.018 | 17.523 | 21.027 | 24.532 | 28.036 | 31.539 | 35.045 | 42.053  |
| 45        | 3.584        | 5.376  | 7.168  | 7.168  | 8.960  | 10.752 | 14.336 | 17.920 | 21.504 | 25.088 | 28.672 | 32.255 | 35.840 | 43.007  |
| 46        | ....         | 5.495  | 7.327  | 7.327  | 9.159  | 10.991 | 14.654 | 18.318 | 21.981 | 25.645 | 29.308 | 32.971 | 36.635 | 43.961  |
| 47        | ....         | 5.615  | 7.486  | 7.486  | 9.358  | 11.229 | 14.972 | 18.715 | 22.458 | 26.201 | 29.944 | 33.686 | 37.430 | 44.915  |
| 48        | 3.823        | 5.734  | 7.645  | 7.645  | 9.556  | 11.468 | 15.290 | 19.113 | 22.935 | 26.758 | 30.580 | 34.402 | 38.225 | 45.869  |
| 49        | ....         | 5.853  | 7.804  | 7.804  | 9.755  | 11.706 | 15.608 | 19.510 | 23.412 | 27.314 | 31.216 | 35.118 | 39.020 | 46.824  |
| 50        | ....         | 5.972  | 7.963  | 7.963  | 9.954  | 11.945 | 15.926 | 19.908 | 23.889 | 27.871 | 31.852 | 35.834 | 39.815 | 47.778  |
| 51        | ....         | 6.092  | 8.122  | 8.122  | 10.153 | 12.183 | 16.244 | 20.305 | 24.366 | 28.427 | 32.488 | 36.549 | 40.610 | 48.732  |
| 52        | ....         | 6.211  | 8.281  | 8.281  | 10.351 | 12.422 | 16.562 | 20.703 | 24.843 | 28.984 | 33.124 | 37.265 | 41.405 | 49.687  |
| 53        | ....         | 6.330  | 8.440  | 8.440  | 10.550 | 12.660 | 16.850 | 21.100 | 25.320 | 29.540 | 33.760 | 37.981 | 42.200 | 50.641  |
| 54        | 4.300        | 6.449  | 8.599  | 8.599  | 10.749 | 12.599 | 17.198 | 21.498 | 25.797 | 30.097 | 34.396 | 38.696 | 42.995 | 51.595  |
| 55        | ....         | 6.569  | 8.758  | 8.758  | 10.948 | 13.137 | 17.516 | 21.895 | 26.274 | 30.653 | 35.032 | 39.412 | 43.790 | 52.550  |
| 56        | ....         | 6.688  | 8.917  | 8.917  | 11.147 | 13.376 | 17.835 | 22.294 | 26.753 | 31.211 | 35.670 | 40.128 | 44.587 | 53.504  |
| 57        | ....         | 6.807  | 9.077  | 9.077  | 11.346 | 13.615 | 18.153 | 22.691 | 27.230 | 31.765 | 36.306 | 40.844 | 45.383 | 54.458  |
| 55        | ....         | 6.927  | 9.235  | 9.235  | 11.544 | 13.853 | 18.789 | 23.089 | 27.707 | 32.324 | 36.942 | 41.560 | 46.177 | 55.413  |
| 59        | ....         | 7.046  | 9.395  | 9.395  | 11.743 | 14.092 | 18.789 | 23.486 | 28.184 | 32.881 | 37.578 | 42.276 | 46.973 | 56.368  |
| 60        | 4.777        | 7.165  | 9.554  | 9.554  | 11.942 | 14.330 | 19.107 | 23.584 | 28.661 | 33.437 | 38.214 | 42.991 | 47.768 | 57.322  |
| 68        | ....         | 8.120  | 10.826 | 10.826 | 13.533 | 16.240 | 21.653 | 27.066 | 32.480 | 37.893 | 43.306 | 48.719 | 54.132 | 64.958  |
| 72        | 5.732        | 5.597  | 11.463 | 11.463 | 14.329 | 17.195 | 22.926 | 28.658 | 34.359 | 40.121 | 45.852 | 51.583 | 57.315 | 68.777  |
| 76        | ....         | 9.074  | 12.099 | 12.099 | 15.124 | 18.149 | 24.198 | 30.248 | 36.297 | 42.347 | 48.396 | 54.446 | 60.495 | 72.595  |
| 80        | ....         | 9.552  | 12.736 | 12.736 | 15.919 | 19.103 | 25.471 | 31.839 | 38.207 | 44.574 | 50.942 | 57.310 | 63.678 | 76.414  |
| 84        | ....         | 10.029 | 13.372 | 13.372 | 16.715 | 20.058 | 26.744 | 33.430 | 40.116 | 46.802 | 53.488 | 60.175 | 66.860 | 80.233  |
| 95        | ....         | 11.342 | 15.122 | 15.122 | 18.903 | 22.684 | 30.245 | 37.806 | 45.368 | 52.929 | 60.490 | 68.051 | 75.612 | 90.735  |
| 96        | ....         | 11.461 | 15.282 | 15.252 | 19.102 | 22.922 | 30.563 | 38.204 | 45.845 | 53.485 | 61.126 | 68.767 | 76.408 | 91.690  |
| 102       | ....         | 12.177 | 16.236 | 16.236 | 20.296 | 24.355 | 32.473 | 40.591 | 48.710 | 56.828 | 64.946 | 73.064 | 81.182 | 97.418  |
| 112       | ....         | 13.371 | 17.827 | 17.527 | 22.284 | 26.741 | 35.655 | 44.569 | 53.483 | 62.396 | 71.310 | 80.225 | 59.137 | 106.966 |

V-Drives  
FHP Drives  
Drive Component Accessories  
DYNA-SYNC  
HT200/HTD Synchronous Drives  
HT500 Synchronous Drives  
Roller Chain Sprockets

|                                  |                               |                           |                                  |
|----------------------------------|-------------------------------|---------------------------|----------------------------------|
| FEATURES/BENEFITS<br>PAGE PT14-2 | SPECIFICATIONS<br>PAGE PT14-3 | SELECTION<br>PAGE PT14-16 | RELATED PRODUCTS<br>PAGE PT14-28 |
|----------------------------------|-------------------------------|---------------------------|----------------------------------|



## ENGINEERING/TECHNICAL

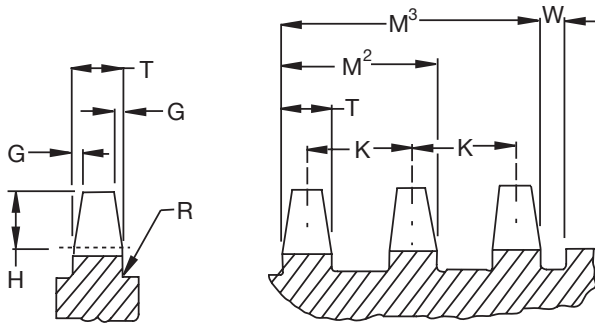
### Sprocket Dimensions, Chain Data

| Ref. For Single & Multiple Chain |       |             |              | G    | H    | K     | M <sup>2</sup> | M <sup>3</sup> | R Max. | Nominal Tooth Thickness (T) |                            | Tolerance on "T"        |                                      |                  |
|----------------------------------|-------|-------------|--------------|------|------|-------|----------------|----------------|--------|-----------------------------|----------------------------|-------------------------|--------------------------------------|------------------|
| Chain No.                        | Pitch | Roller Dia. | Roller Width |      |      |       |                |                |        | Using Single Strand Chain   | Using 2 and 3 Strand Chain | For Machined Sprocket * | For Sprocket Which Is Not Machined † | W Side Clearance |
| 35                               | 3/8   | .200        | 3/16         | 3/64 | 3/16 | .399  | .561           | .960           | .015   | .168                        | .162                       | +0.00-0.08              | +0.00-.027                           | 3/16             |
| 41                               | 1/2   | .306        | 1/4          | 1/16 | 1/4  | ....  | ....           | ....           | .020   | .227                        | ....                       | +0.00-.009              | +0.00-.032                           | 7/32             |
| 40                               | 1/2   | .312        | 5/16         | 1/16 | 1/4  | .566  | .841           | 1.407          | .020   | .284                        | .275                       | +0.00-.009              | +0.00-.035                           | 1/4              |
| 50                               | 5/8   | .400        | 3/8          | 5/64 | 5/16 | .713  | 1.045          | 1.758          | .025   | .343                        | .332                       | +0.00-.010              | +0.00-.036                           | 9/32             |
| 60                               | 3/4   | .469        | 1/2          | 3/32 | 3/8  | .897  | 1.341          | 2.238          | .030   | .459                        | .444                       | +0.00-.011              | +0.00-.036                           | 11/32            |
| 80                               | 1     | .625        | 5/8          | 1/8  | 1/2  | 1.153 | 1.710          | 2.863          | .040   | .575                        | .557                       | +0.00-.012              | +0.00-.040                           | 7/16             |
| 100                              | 1-1/4 | .750        | 3/4          | 5/32 | 5/8  | 1.408 | 2.077          | 3.485          | .050   | .692                        | .669                       | +0.00-.014              | +0.00-.046                           | 17/32            |
| 120                              | 1-1/2 | .875        | 1            | 3/16 | 3/4  | 1.789 | 2.683          | 4.472          | .060   | .924                        | .894                       | +0.00-.016              | +0.00-.057                           | 21/32            |
| 140                              | 1-3/4 | 1.000       | 1            | 7/32 | 7/8  | 1.924 | 2.818          | 4.742          | .070   | .924                        | .894                       | +0.00-.016              | +0.00-.057                           | 3/4              |
| 160                              | 2     | 1.125       | 1-1/4        | 1/4  | 1    | 2.305 | 3.424          | 5.729          | .080   | 1.156                       | 1.119                      | +0.00-.019              | +0.00-.062                           | 7/8              |

\* Represents Type B or C hub type sprocket.

† Represents an "A" plate sprocket or a welded sprocket using an "A" plate.

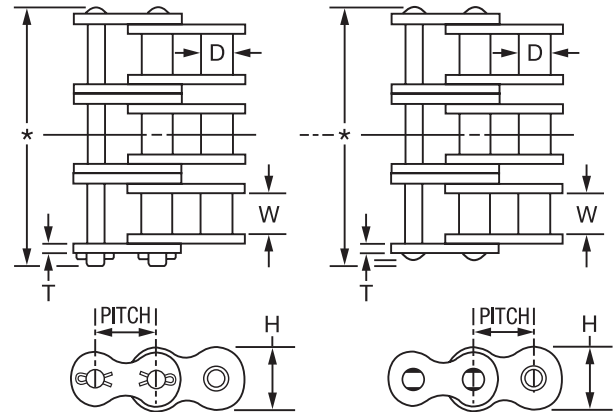
#### Sprockets



Single Stand

2 and 3 Strand

#### Roller Chain



COTTERED TYPE

RIVETED TYPE

#### ANSI Standard Roller Chain Dimensions

| ANSI No. | Roller W | Roller D | Inside Link Plate Height | Cottered Chain Width* | Riveted Chain Width* | Average Tensile Strength |
|----------|----------|----------|--------------------------|-----------------------|----------------------|--------------------------|
| 25-2     | 1/8      | .130     | .237                     | .37                   | .34                  | 875                      |
| 25-2     | 1/8      | .130     | .237                     | .63                   | .59                  | 1750                     |
| 25-3     | 1/8      | .130     | .237                     | .88                   | .84                  | 2626                     |
| 35       | 3/16     | .200     | .356                     | .56                   | .50                  | 2100                     |
| 35-2     | 3/16     | .200     | .356                     | .96                   | .90                  | 4200                     |
| 35-3     | 3/16     | .200     | .356                     | 1.36                  | 1.31                 | 6300                     |
| 41       | 1/4      | .306     | .383                     | .65                   | .57                  | 2000                     |
| 40       | 5/16     | .312     | .475                     | .72                   | .67                  | 3700                     |
| 40-2     | 5/16     | .312     | .475                     | 1.29                  | 1.24                 | 7400                     |
| 40-3     | 5/16     | .312     | .475                     | 1.85                  | 1.80                 | 11100                    |
| 50       | 3/8      | .400     | .594                     | .89                   | .83                  | 6600                     |
| 50-2     | 3/8      | .400     | .594                     | 1.60                  | 1.55                 | 13200                    |
| 50-3     | 3/8      | .400     | .594                     | 2.31                  | 2.26                 | 19800                    |
| 60       | 1/2      | .469     | .712                     | 1.11                  | 1.04                 | 8500                     |
| 60-2     | 1/2      | .469     | .712                     | 2.01                  | 1.94                 | 17000                    |
| 60-3     | 1/2      | .469     | .712                     | 2.91                  | 2.84                 | 25500                    |
| 80       | 5/8      | .625     | .950                     | 1.44                  | 1.32                 | 14500                    |
| 80-2     | 5/8      | .625     | .950                     | 2.59                  | 2.47                 | 29000                    |
| 80-3     | 5/8      | .625     | .950                     | 3.74                  | 3.62                 | 43500                    |

\* Dimensions are across pins.

| ANSI No. | Roller W | Roller D | Inside Link Plate Height | Cottered Chain Width* | Riveted Chain Width* | Average Tensile Strength |
|----------|----------|----------|--------------------------|-----------------------|----------------------|--------------------------|
| 100      | 3/4      | .750     | 1.187                    | 1.73                  | 1.61                 | 24000                    |
| 100-2    | 3/4      | .750     | 1.187                    | 3.14                  | 3.02                 | 48000                    |
| 100-3    | 3/4      | .750     | 1.187                    | 4.56                  | 4.43                 | 72000                    |
| 120      | 1        | .875     | 1.425                    | 2.14                  | 2.00                 | 34000                    |
| 120-2    | 1        | .875     | 1.425                    | 3.93                  | 3.79                 | 68000                    |
| 120-3    | 1        | .875     | 1.425                    | 5.72                  | 5.58                 | 102000                   |
| 140      | 1        | 1.000    | 1.662                    | 2.31                  | 2.14                 | 46000                    |
| 140-2    | 1        | 1.000    | 1.662                    | 4.24                  | 4.07                 | 92000                    |
| 140-3    | 1        | 1.000    | 1.662                    | 6.16                  | 6.00                 | 138000                   |
| 160      | 1-1/4    | 1.125    | 1.900                    | 2.73                  | 2.54                 | 58000                    |
| 160-2    | 1-1/4    | 1.125    | 1.900                    | 5.04                  | 4.85                 | 116000                   |
| 160-3    | 1-1/4    | 1.125    | 1.900                    | 7.35                  | 7.16                 | 174000                   |
| 180      | 1-13/32  | 1.406    | 2.137                    | 3.15                  | 2.88                 | 76000                    |
| 180-2    | 1-13/32  | 1.406    | 2.137                    | 5.75                  | 5.48                 | 152000                   |
| 180-3    | 1-13/32  | 1.406    | 2.137                    | 8.34                  | 8.07                 | 228000                   |
| 200      | 1-1/2    | 1.562    | 2.375                    | 3.44                  | 3.12                 | 95000                    |
| 200-2    | 1-1/2    | 1.562    | 2.375                    | 6.26                  | 5.94                 | 190000                   |
| 200-3    | 1-1/2    | 1.562    | 2.375                    | 9.08                  | 8.76                 | 285000                   |
| 240      | 1-7/8    | 1.875    | 2.812                    | 4.06                  | 3.72                 | 130000                   |
| 240-2    | 1-7/8    | 1.875    | 2.812                    | 7.52                  | 7.18                 | 260000                   |

|                                  |                               |                           |                                  |
|----------------------------------|-------------------------------|---------------------------|----------------------------------|
| FEATURES/BENEFITS<br>PAGE PT14-2 | SPECIFICATIONS<br>PAGE PT14-3 | SELECTION<br>PAGE PT14-16 | RELATED PRODUCTS<br>PAGE PT14-28 |
|----------------------------------|-------------------------------|---------------------------|----------------------------------|





## Installation, Maintenance

### Installation of Roller Chain Drives

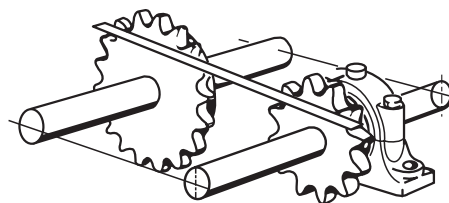
**Shaft Alignment** – Shafts must be parallel. The use of a spirit level is recommended to make sure shafts are horizontal; then, if the distance between the shafts are equal on both sides of the drive, the shafts are parallel. Shafts, bearings and supporting structure should be suitable to maintain this alignment.

**Sprocket Location** – Locate each sprocket as close as possible to a bearing.

**Sprocket Alignment** – Sprockets must be aligned accurately. This can best be accomplished by checking with a straight edge along the finished sides of the sprockets as shown in the drawing.

**Chain Tension** – Chains should be installed fairly tight with only a small amount of slack. In the case of vertical drives the chain should be kept snug. New chains will loosen up slightly as the joints seat themselves, causing initial elongation which is many times greater than the elongation during the balance of the chain life. After the first several weeks of operation it is advisable to adjust the centers, particularly on long center drives. After this initial elongation, with proper care and lubrication, roller chains will give long service without undue elongation or wear.

**Center Distance** – It is desirable to provide some means of adjusting the center distance between sprockets.



This is particularly true with drives of long center distance. When the centers are fixed it is advisable to use an idler sprocket to provide the proper chain tension originally, and also to compensate for natural chain wear.

**Hardened Teeth** – The advantages gained by hardening the teeth of the small sprocket easily offset the hardening cost. Longer life, increased strength, equalized wear between small and large sprockets—all result in lower overall cost to the chain drive user. Hardened steel sprockets are recommended for use under the following conditions: 1. Slow speed, heavily loaded drives where chains and sprockets are selected on the basis of chain tensile strengths; 2. Moderate speed drives where sprockets have 17 teeth or less; 3. High speed drives where sprockets have 25 teeth or less; 4. When speed ratios exceed 4 to 1; 5. When drives are operating exposed to dirty or dusty surroundings.

### Lubrication of Roller Chain Drives

Lubrication of roller chains is essential for effectively minimizing metal-to-metal bearing contact of pin-bushing joints of the chain. Oil should be applied to outside plate and inside plate edges, since access to pin-bushing areas is possible only through clearances between the outside plates and the inside plates. Oil applied on the center line of rollers cannot reach pin-bushing joints.

Chain drives should be protected against dirt and moisture and the oil supply kept free of contamination. Periodic oil change is desirable. A good grade of non-detergent petroleum base oil is recommended. Heavy oils and greases are generally too stiff to enter and fill the chain joints. The following table indicates the proper lubricant viscosity for various surrounding temperatures. For higher temperatures—consult factory.

| Temperature Degrees F. | Recommended Lubricant |
|------------------------|-----------------------|
| 20 to 40               | SAE 20                |
| 40 to 100              | SAE 30                |
| 100 to 120             | SAE 40                |
| 120 to 140             | SAE 50                |

The method of lubrication, which is governed by the speed of the chain and the amount of power transmitted, is indicated in the HP Rating Tables. Note that these are minimum lubrication requirements and the use of a better type (for example, Type 4 instead of Type 3) is acceptable and may be beneficial. The four basic types of lubrication indicated are described below.

**Type A—Manual Lubrication** – Oil is applied periodically with a brush or spout can, preferably once every 8 hours of operation. Volume and frequency should be sufficient to prevent discoloration of lubricant in the chain joints.

**Type A – Drip Lubrication** – Oil drops are directed between the link plate edges from a drip lubricator. Volume and frequency should be sufficient to prevent discoloration of lubricant in the chain joints. Precaution must be taken against misdirection of the drops by windage.

**Type B – Bath or Disc Lubrication** – With bath lubrication the lower strand of chain runs through a sump of oil in the drive housing. The oil level should reach the pitch line of the chain at its lowest point while operating. With disc lubrication, the chain operates above the oil level. The disc picks up oil from the sump and deposits it onto the chain, usually by means of a trough. The diameter of the disc should be such as to produce rim speeds between 600 fpm minimum and 8000 fpm maximum.

**Type C – Oil Stream Lubrication** – The lubricant is usually supplied by a circulating pump capable of supplying each chain drive with a continuous stream of oil. The oil should be applied inside the chain loop evenly across the chain width, and directed at the lower strand.

|                                  |                               |                           |                                  |
|----------------------------------|-------------------------------|---------------------------|----------------------------------|
| FEATURES/BENEFITS<br>PAGE PT14-2 | SPECIFICATIONS<br>PAGE PT14-3 | SELECTION<br>PAGE PT14-16 | RELATED PRODUCTS<br>PAGE PT14-28 |
|----------------------------------|-------------------------------|---------------------------|----------------------------------|





# NOTES

V-Drives

FHP Drives

Drive Component  
Accessories

DYNA-SYNC

HT200/HTD  
Synchronous Drives

HT500  
Synchronous Drives

Roller Chain Sprockets



## Conveyor Components

|   |          |
|---|----------|
| <b>Features/Benefits</b> .....            | PT14-2   |
| <b>Specifications</b> .....               | PT14-4   |
| <b>How To Order</b> .....                 | PT14-6   |
| <b>Nomenclature</b> .....                 | PT14-7   |
| <b>Selection</b> .....                    | PT14-9   |
| <b>Selection/Dimensions</b>               |          |
| Drum and Wing Pulleys .....               | PT14-10  |
| HE Heavy Duty Drum Pulleys .....          | PT14-15  |
| TAPER-LOCK Heavy Duty Drum Pulleys .....  | PT14-22  |
| QD Heavy Duty Drum Pulleys .....          | PT14-26  |
| Heavy Duty Drum Pulley Weights .....      | PT14-30  |
| HE Heavy Duty Wing Pulleys .....          | PT14-34  |
| TAPER-LOCK Heavy Duty Wing Pulleys .....  | PT14-38  |
| QD Heavy Duty Wing Pulleys .....          | PT14-41  |
| Heavy Duty Wing Pulley Weights .....      | PT14-48  |
| Mine Duty Extra Drum Pulleys .....        | PT14-49  |
| Mine Duty Extra Wing Pulleys .....        | PT14-53  |
| Engineered Class Pulleys .....            | PT14-56  |
| Turbine Pulleys .....                     | PT14-57  |
| Elevator Pulleys .....                    | PT14-58  |
| Dead Shaft Pulleys .....                  | PT14-60  |
| Spiral Drum and Spiral Wing Pulleys ..... | PT14-61  |
| Magnetic Pulleys .....                    | PT14-61  |
| Stainless Steel Pulleys .....             | PT14-61  |
| Steel Split Pulleys .....                 | PT14-62  |
| <b>Shafting</b> .....                     | PT14-64  |
| <b>Lagging</b> .....                      | PT14-65  |
| <b>HE Bushings</b> .....                  | PT14-70  |
| <b>Keyless Locking Assemblies</b> .....   | PT14-73  |
| <b>XT Bushings</b> .....                  | PT14-74  |
| <b>Engineering/Technical</b> .....        | PT14-78  |
| Part Number Index .....                   | INDEX-1  |
| Keyword Index .....                       | INDEX-43 |



## FEATURES/BENEFITS

Today, the industrial marketplace demands quality products and services. Dodge has the experience and expertise to meet those demands from engineering support to on-time delivery. Dodge offers the broadest range of conveyor pulleys with a combination of the best resources for pulley manufacturing. The Dodge Conveyor Components Team is ready to provide you the best customer service in the industry.



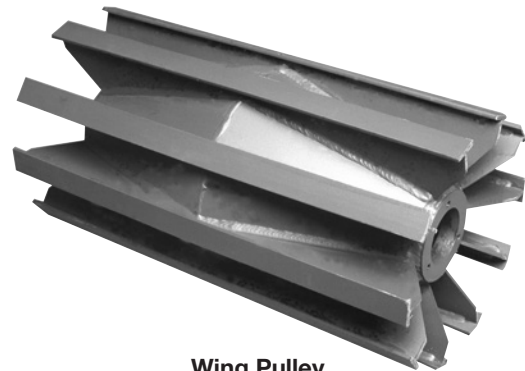
**Lagged Drum Pulley**



**T-Section Pulley**



**Mine Duty Extra Drum Pulley**



**Wing Pulley**



## Conveyor Pulley Locking Devices

### HE Bushing/Hub



- Most dependable mounting system for conveyor pulleys
- Specifically designed for drum and wing pulleys
- Flange mount design
- Easy installation/removal
- Shaft diameters up to 12"
- Taper angle of 14° reduces axial movement along the shaft to tighten the bushing
- Disc deflection and pre-stressing are greatly reduced
- Full length hub engagement

### Keyless Locking Devices



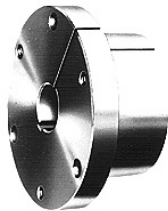
- High torque capability
- No axial movement during assembly
- Shrink fit design assures a tight mechanical fit
- Easy installation/removal
- No keyway stress - no keys required
- Recommended for shafts over 12" and up to 30" in diameter

### Taper-Lock Bushings



- Industry standard for over 40 years
- Easy-on, Easy-off
- 8° taper grips tight, holds tight, runs true, no wobble
- World-wide acceptance and availability
- Flush mounting - no protruding parts

### QD Bushings



- Flanged design
- 4° taper
- Easy-on, Easy-off
- Manufactured precisely to industry standards
- Reverse mounting

### XT Bushings/Hub



- Designed for conveyor pulley applications
- 9-1/2° taper
- 2" per foot taper for easy on, easy off
- Full length hub engagement



# SPECIFICATIONS

## Belt Conveyor Pulleys

Dodge offers two standard designs that are stocked for quick delivery, CEMA duty (Conveyor Equipment Manufacturers Association), HE (High Endurance) welded hub and Mine Duty Extra HE integral hub construction. These are available with a plain surface and rubber lagged. HE bushings with 14 degree taper and 3/8 inch 60 Durometer SBR rubber, with herringbone groove lagging, are standard, stocked features.

Dodge recommends pulley designs within the four classes of service detailed below. All of our designs strive for balance between cost and reliability. When possible, welds are avoided or eliminated to maintain the full strength of the base metal. Our welded designs rely upon the chemistry of the base metal, the type of weld and the geometry of the structure to achieve optimum post-weld performance as explained below.

### WARRANTY

- Class IV and III pulleys are conditionally warranted against defects in material and workmanship for one year of operation. A two-year warranty is available when loading information is provided.

Note: Special Construction features listed at the bottom of page PT14-6 can be added to both Class IV and III pulleys to extend service life. Because these pulleys are made-to-order, they will require longer leadtime for shipment. The Special Construction modifications must be quoted at the time of inquiry and before order entry.

- Class II and I pulleys are conditionally warranted against defects in material and workmanship for two years of operation, because loading information must be provided.

### CLASS IV

Dodge Heavy Duty CEMA Standard drum pulleys use 14 degree taper welded hubs and bushings with special consideration for post weld strength with submerged arc welds. These pulleys meet or exceed all requirements for steel drum pulleys established by CEMA, and as detailed in

ANSI standard number B105.1. The standard establishes load ratings and dimensions for use with fabric belts rated to 800 PIW (Pounds per Inch of belt Width).

### CLASS III

Dodge Mine Duty Extra pulleys use a proprietary 14 degree (taper) one piece integral hub to accept HE bushings. This eliminates the two welds of the hub into the end disc and delivers 100% of the capacity of the end disc steel. There is not a universal standard published for this class of service. The Dodge MDX design gives much higher safety factors than pulleys designed to meet the CEMA load ratings, while fitting into the CEMA dimensions.

### CLASS II

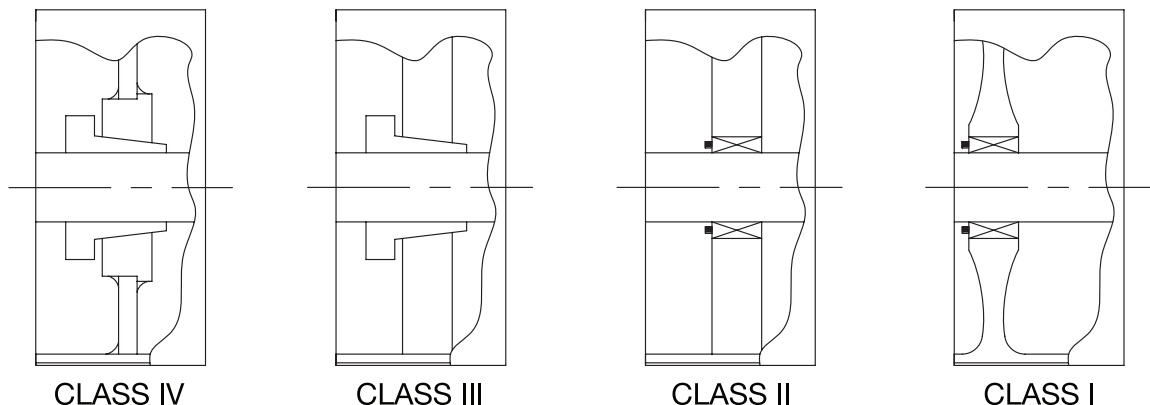
Dodge Engineered pulleys utilize one-piece integral hub-and-end-discs and either HE 14 degree taper compression bushings or keyless locking devices. They are designed specifically to meet customer supplied load and tension ratings. This class is for fabric or steel cable conveyor belts rated to 2,499 PIW. These pulleys incorporate machined rims and lagging, static balance, stress relieving, magnetic particle and/or ultrasonic weld testing.

### CLASS I

Dodge Engineered pulleys with one piece "T" section machined end discs are continuously butt welded to the pulley rim for fabric or steel cable belts rated over 2,500 PIW up to the maximum available from belt manufacturers, currently in excess of 10,000 PIW. These pulleys use keyless locking devices for shafts up to 30" in diameter. These pulleys incorporate machined rims and lagging, static balance, stress relieving, magnetic particle and/or ultrasonic weld testing. All Class I pulleys are manufactured within a 60 step documented Quality Assurance Process.

**Important Note: To Ensure You Get The Right Class Of Pulley For Your Application, Please Fill Out And Send the Engineered Pulley Data Sheet, Shown On Page PT14-9.**

### Bushing and End Disc Constructions



|                                  |                             |                          |                                      |
|----------------------------------|-----------------------------|--------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT15-2 | HOW TO ORDER<br>PAGE PT15-6 | SELECTION<br>PAGE PT15-9 | SELECTION/DIMENSIONS<br>PAGE PT15-10 |
|----------------------------------|-----------------------------|--------------------------|--------------------------------------|



## Belt Conveyor Design Program - Available on [www.ptwizard.com](http://www.ptwizard.com)

The Dodge Computerized Conveyor Design Program selects Baldor/Dodge drive products for simple horizontal or uphill conveyors up to 3500 feet long, 800 feet lift, and 3500 tons per hour. The program operates with a minimum of input information and provides detailed design and product information as output. Input variables and output data are:

### INPUT

- Conveyor Capacity (tons per hour)
- Length of Conveyor
- Lift of Conveyor
- Basic Conveyor Profile (7 profiles)
- Material to be Moved
- Belt Speed (not required, can be selected by program)
- Belt Width (not required, can be selected by program)
- Idler Angle (not required, can be selected by program)

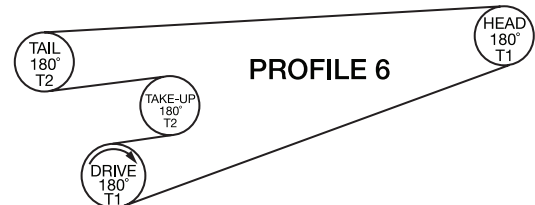
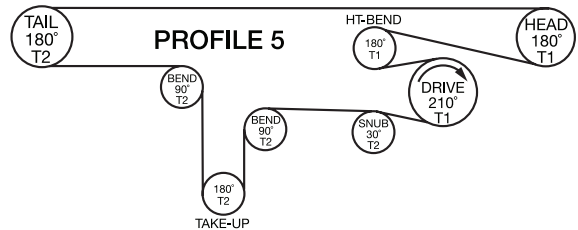
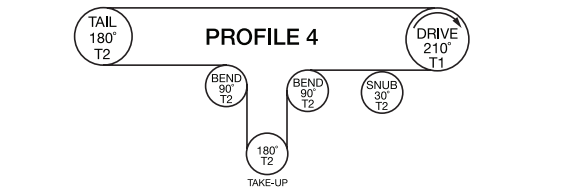
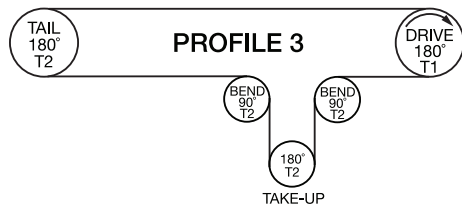
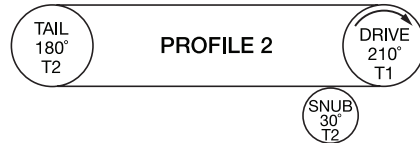
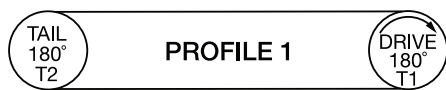
### OUTPUT

- Motor Horsepower
- Belt Width (if not input)
- Idler Angle (if not input)
- Belt Speed (if not input)
- Drive Pulley RPM
- Belt Tensions (& take-up weight)
- Pulley Diameters, Face Width & Shaft Diameter
- Bearing Centers
- Lagging
- Shaft Lengths
- Bearing Diameter with L10 Life
- Maximum Running Belt Tension (PIW)
- Backstop Requirement
- Dodge Torque-Arm Reducers Selected

Baldor/Dodge has a conveyor design program, available at [www.ptwizard.com](http://www.ptwizard.com), for selecting CEMA drum pulleys for conveyor profiles shown. For other types of pulleys, please contact Baldor/Dodge Conveyors. For more information call 864-297-4800.

## Conveyor Profiles

*Only the seven types of profiles shown are available for design program analysis.*



|                                  |                             |                          |                                      |
|----------------------------------|-----------------------------|--------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT15-2 | HOW TO ORDER<br>PAGE PT15-6 | SELECTION<br>PAGE PT15-9 | SELECTION/DIMENSIONS<br>PAGE PT15-10 |
|----------------------------------|-----------------------------|--------------------------|--------------------------------------|





# HOW TO ORDER

## Standard, Stocked CEMA and Mine Duty Extra Pulleys

Dodge Conveyor Drum and Wing Pulleys are available from stock in either CEMA, Mine Duty Extra Drum or Mine Duty Extra Wing pulley designs. Many part numbers are already available for various sizes of drum and wing pulleys in either crown or straight face. We can provide pulleys bare faced, or with a number of different lagging patterns and thicknesses. You can use the Nomenclature page to help provide a complete pulley description, for which you can find part numbers in the catalog that have already been assigned, or that our Conveyor Team can quote for you.

If you know the belt width you are using, you can use the CEMA standards to get the face width needed for the pulley. CEMA standards for pulley face width are belt width + 2 inches for belt widths up to 42 inches and belt width + 3 inches for belt widths for 48 inches to 60 inches. Drum and wing pulley diameters are dependent upon belting and the shaft diameter required for the application.

The selection process recommended by Baldor•Dodge for Dodge conveyor pulleys is covered beginning on page PT14-10.

### PULLEY ASSEMBLIES

One of the most popular services we offer is to package and assemble pulleys, shaft, bearings and coupling halves for shipment, ready to install on the customer's conveyor truss. However, to do this we must have accurate shaft dimensions and tolerances at the time of order entry. These determine the hub size of the pulley and the bearing size. Bearings are shipped to Clio from another Dodge plant. The pulley assembly process can be shortened by providing the shaft details outlined on page PT14-8. Please note – all pulley assemblies are considered non-standard because of the variability of size and weight.

## Special Construction Pulleys

There are Special Construction specifications that can be stipulated by the customer to extend the service life of CEMA and Mine Duty Extra pulleys, for demanding applications, or to meet special job requirements. If these modifications are required, the products will become made-to-order and identified by product description. These nonstandard modifications must be documented and quoted at the time of inquiry and before order entry.

These features include but are not limited to:

1. Rim and rubber lagging thickness
2. Rubber lagging material and durometer
3. Machining of rims and/or rubber lagging to a specified total indicated run-out (TIR)
4. End disc steel thickness
5. Shaft material surface finish (RMS) and turndown radii
6. Keyless locking devices with dust covers vs standard HE 14-degree compression bushings

7. Post weld thermal stress relieving before machining
8. Magnetic particle and/or ultra-sonic weld inspections
9. Static or dynamic balancing
10. Identification tags
11. Export or other special packaging

### ENGINEERED, MADE-TO-ORDER PULLEYS

All Dodge heavy duty CEMA or Mine Duty Extra pulleys are designed to meet or exceed the CEMA steel pulley ANSI standard B105.1. However, for pulleys engineered to the customer's application loads and tensions, we require completion of the Engineered Pulley Data Sheet, on page PT14-9.

Installation and Maintenance instructions for Dodge products are available at [www.dodge-pt.com](http://www.dodge-pt.com)

|                                  |                              |                          |                                      |
|----------------------------------|------------------------------|--------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT15-2 | SPECIFICATION<br>PAGE PT15-4 | SELECTION<br>PAGE PT15-9 | SELECTION/DIMENSIONS<br>PAGE PT15-10 |
|----------------------------------|------------------------------|--------------------------|--------------------------------------|



# NOMENCLATURE

## Pulleys

(QTY) Diameter X Face Width • Face Type • Pulley Type • Hub Type & Size • Class

(QTY) Lagging Thickness and Material • Pattern

(QTY) Bushing Size & Bore

|  |   |
|--|---|
| <b>Diameter:</b>                           | 6"-60" (Other diameters available upon request)   |
| <b>Face Width:</b>                         | 8"-100" (Other face widths available upon request)  |
| <b>Face Type:</b>                          | CR – Crown Face<br>ST – Straight Face   |
| <b>Pulley Type:</b>                        | DR – Drum<br>WI – Wing  |
| <b>Hub Type &amp; Size:</b>                | HE – (High Endurance) and Size (HE25)<br>TL – (TAPER-LOCK) and Size (K25, F30, K35)<br>QD – (Quick Disconnect) and Size (SF, E, F)<br>Keyless Locking Device and Size (200mm)                                 |
| <b>Class:</b>                              | CEMA (Heavy Duty)<br>MD (Mine Duty)<br>MDX (Mine Duty Extra)<br>ENG (Engineered)  |
| <b>Lagging Thickness:</b>                  | 1/4", 3/8", 1/2", 3/4", 1" (Standard) Other Thicknesses Available on Request  |
| <b>Lagging Material &amp; (Durometer):</b> | SBR (60/45/70), D-LAG (60), Neoprene (60/45/70), Ceramic, Holz, Holz SOF  |
| <b>Lagging Pattern:</b>                    | Plain, Herringbone, Chevron, Diamond, Concentric, Parallel  |
| <b>Bushing Size:</b>                       | HE25 (Max. Bore 2-1/2")<br>F30 (Max. Bore 3")<br>E (Max. Bore 3-1/2")   |
| <b>Examples:</b>                           | 1-12 x 26 CR DR HE25 MDX<br>3/8" Herringbone Lagging<br>2-HE25 x 2-7/16" Bushings<br><br>1-14 x 42 CR WI W25<br>2-2517 x 2-7/16" TAPER-LOCK Bushings<br><br>1-16 x 44 ST DR QD F<br>2-F x 3-7/16" QD Bushings |

## Shafting

Diameter x Length • # of Keyseats • # of Turndowns x Turndown Diameters

|                  |                                    |
|------------------|------------------------------------|
| <b>Examples:</b> | 2-7/16" x 63"                      |
|                  | 3-7/16" x 84" x 3KS                |
|                  | 3-15/16" x 76", 3KS, 2TD x 3-7/16" |

**NOTE:** All shafts require a drawing which indicates the location of keyseats, length of turndowns, bearing centers, turn down radii and location of the pulley on the shaft.

|                                  |                              |                          |                                      |
|----------------------------------|------------------------------|--------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT15-2 | SPECIFICATION<br>PAGE PT15-4 | SELECTION<br>PAGE PT15-9 | SELECTION/DIMENSIONS<br>PAGE PT15-10 |
|----------------------------------|------------------------------|--------------------------|--------------------------------------|

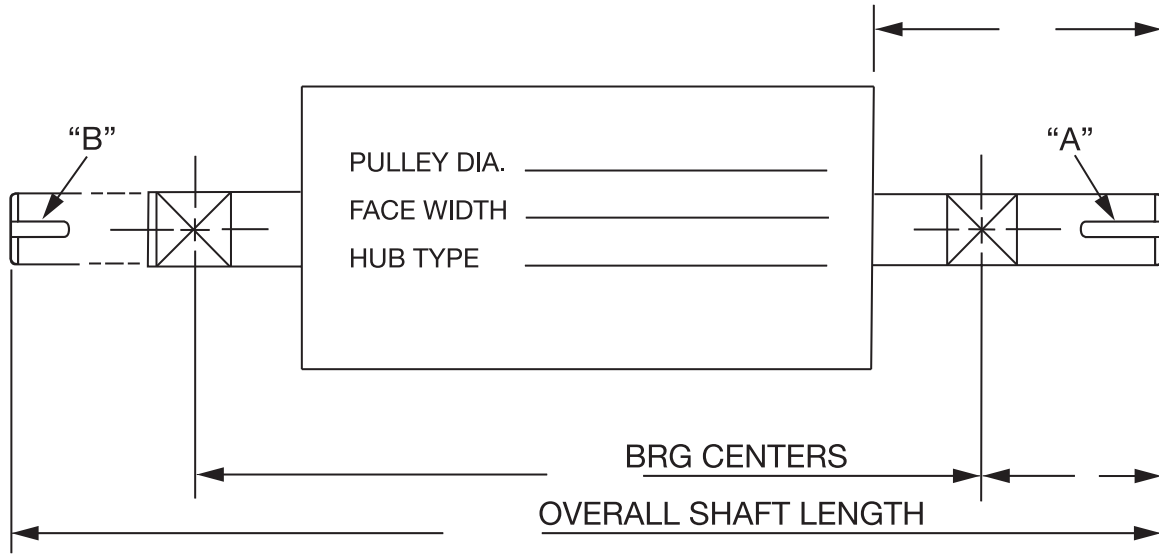


# HOW TO ORDER

## Pulley Assemblies

To order shafting, please copy and complete the sketches shown below

### DRIVE PULLEY & SHAFT DIMENSIONS

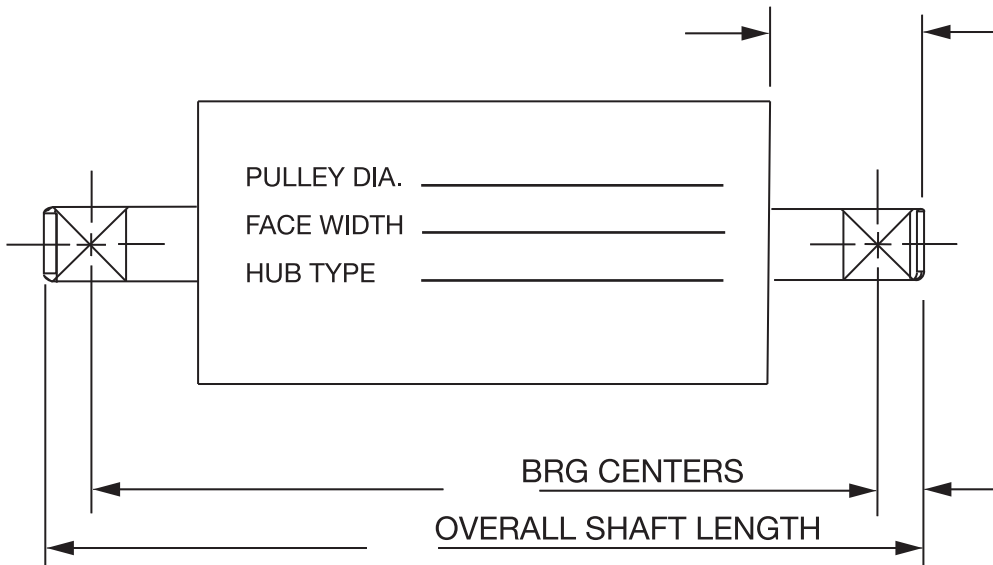


|                            |  |
|----------------------------|--|
| SHAFT DIA. AT HUB - _____  | KEYSEAT "A" - _____ X _____ X _____ LONG |
| SHAFT DIA. AT BRG. - _____ | KEYSEAT "B" - _____ X _____ X _____ LONG |
| SHAFT DIA. AT "A" - _____  | DIRECTION OF ROTATION _____              |
| SHAFT DIA. AT "B" - _____  | (LOOKING AT DRIVEN END) _____            |
| NUMBER OF KEYSEATS - _____ | LAGGING - THICKNESS - _____              |
|                            | TYPE - _____                             |

### NON-DRIVE PULLEY & SHAFT DIMENSIONS

DRUM -

WING -



|                            |                                       |
|----------------------------|---------------------------------------|
| SHAFT DIA. AT HUB - _____  | KEYSEAT - 0 _____ , 1 _____ , 2 _____ |
| SHAFT DIA. AT BRG. - _____ |                                       |



## Engineered Pulley Data Sheet

LIMITED WARRANTY: Baldor/Dodge offers a 2-year limited warranty and a serialized nameplate for all engineered pulleys designed to customer supplied loading information.

Selection of Dodge Conveyor Pulleys can be simplified by supplying the information in the Application Data Sheet provided below. Dodge can then engineer the correct pulleys or pulley assemblies for your specific application.

Company Name \_\_\_\_\_ Date \_\_\_\_\_ By \_\_\_\_\_

Address \_\_\_\_\_ Est. No. \_\_\_\_\_

Project \_\_\_\_\_

Conveyor Information - \_\_\_\_\_

Belt:  Fabric:  Steel:  Other \_\_\_\_\_ Belt Width \_\_\_\_\_ in

Take-Up:  Screw  Gravity  Hyd.  Other \_\_\_\_\_

Drive Motor: HP \_\_\_\_\_ Belt Speed \_\_\_\_\_ FPM Capacity \_\_\_\_\_ TPH

Center to Center Distance \_\_\_\_\_ Lift in Feet \_\_\_\_\_

### Pulley Data:

|  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
| Conveyor Identification                                    |  |  |  |  |  |  |
| Pulley Location (Drive, Tail, etc.)                        |  |  |  |  |  |  |
| Pulley Quantity  |  |  |  |  |  |  |
| Pulley Type (Drum or Wing)                                 |  |  |  |  |  |  |
| Diameter x Face Width                                      |  |  |  |  |  |  |
| Crown or Straight Face                                     |  |  |  |  |  |  |
| Lagging Thickness - Type of Grooves                        |  |  |  |  |  |  |
| Shaft Diameter Through Pulley                              |  |  |  |  |  |  |
| Shaft Diameter Through Bearing                             |  |  |  |  |  |  |
| Shaft Diameter at Drive                                    |  |  |  |  |  |  |
| Shaft Length   |  |  |  |  |  |  |
| Number of Keyseats   |  |  |  |  |  |  |
| Drive Type (Sprocket, Coupling, Shaft Mount Reducer, etc.) |  |  |  |  |  |  |
| Bearing Centers  |  |  |  |  |  |  |
| Arc of Contact ( $\alpha$ )                                |  |  |  |  |  |  |
| T <sub>1</sub> _____ Lbs.<br>T <sub>2</sub> _____ Lbs.<br> |  |  |  |  |  |  |

### Special Requirements:

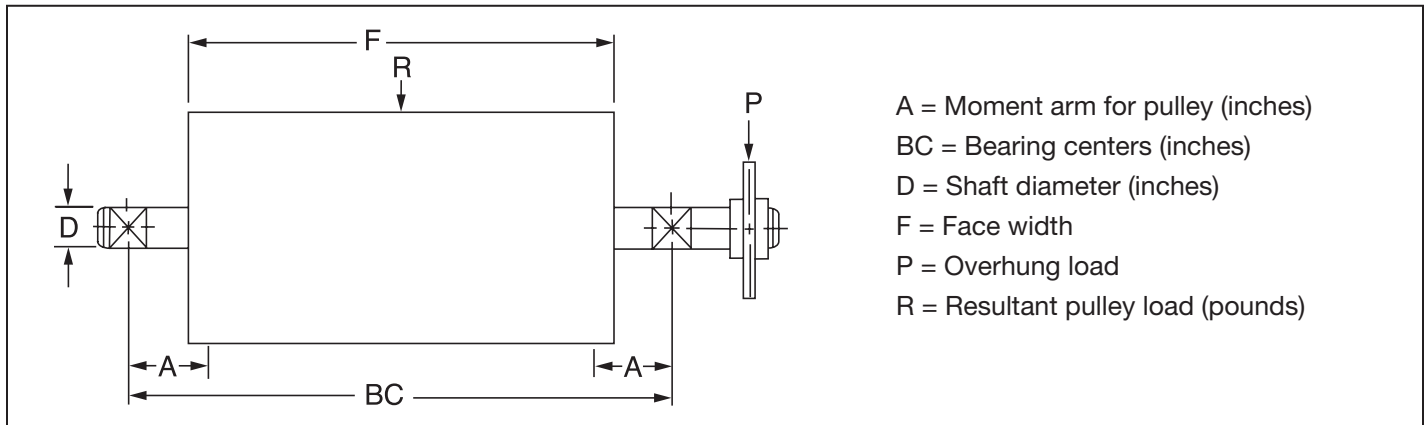


# SELECTION

## Drum and Wing Pulleys - CEMA, MDX, Mine Duty

Proper selection of pulley diameter, face width and shaft diameter can easily be determined if the following information is known:

- Belt Width (BW)
- Bearing Centers (BC)
- Arc of Belt Contact ( $\alpha$ )
- Tight Side Belt Tension ( $T_1$ ) (for drive pulleys only)\*
- Slack Side Belt Tension ( $T_2$ )\*



### STEP 1

#### Determine Required Pulley Face Width

From:  $F = BW + 2''$  (for BW 42" and under)  
 $F = BW + 3''$  (for BW over 42")

Where: F = Pulley face width  
 BW = Belt width

**Note:** For replacement pulleys use face width of existing pulleys.

### STEP 2

#### Determine Bearing Center Minus Face Dimension

From:  $BCMF = BC - F$   
 Where: BCMF = Bearing center minus face dimension  
 F = Face width  
 BC = Bearing centerline to centerline dimension

**Note:** This selection guide is for conveyors with fabric belting. For other conveyor systems, consult factory for pulley selection.

**\*Note:** If belt tensions  $T_1$  and  $T_2$  are not known, please contact Dodge at (864) 297-8287.

### STEP 3

#### Determine Pulley Pounds Per Inch of Belt Width

From:  $PIW = T_1 \div BW$  (for drive pulleys)  
 $PIW = T_2 \div BW$  (for non-drive pulleys)\*

Where: PIW = Pounds per inch of width value  
 $T_1$  = Tight side tension  
 $T_2$  = Slack side tension\*  
 BW = Belt Width

**\*Note:** If non-drive pulley is on tight side of belt, substitute  $T_1$  for  $T_2$ . Wing pulleys should not be used as drive pulleys.

### STEP 4

#### Determine Minimum Pulley Diameter

**(Drum pulleys only)** Determine minimum pulley diameter using PIW, arc of belt contact ( $\alpha$ ) and Table 1. Reading across the table from proper arc of contact select pulley diameter with PIW rating greater than actual PIW. Final pulley diameter may be greater than the diameter selected from Table 1 and must be greater than the belt manufacturer's recommended minimum diameter.

**(Wing pulleys only)** Determine minimum pulley diameter using PIW and Table 2. Select pulley diameter with PIW rating greater than actual PIW. Final pulley diameter may be greater than the diameter selected from Table 2 and must be greater than the belt manufacturer's recommended minimum diameter.

|                                  |                              |                             |                                      |
|----------------------------------|------------------------------|-----------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT15-2 | SPECIFICATION<br>PAGE PT15-4 | NOMENCLATURE<br>PAGE PT15-7 | SELECTION/DIMENSIONS<br>PAGE PT15-10 |
|----------------------------------|------------------------------|-----------------------------|--------------------------------------|



## Drum and Wing Pulleys

**Table 1**

Use in STEP 4 to determine minimum pulley diameter for Drum Pulleys Only Maximum Belt Tension (Pounds Per Inch Of Belt Width)

| Arc of Contact (Deg.) | Pulley Diameter (Inches) |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----------------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                       | 8                        | 10  | 12  | 14  | 16  | 18  | 20  | 24  | 30  | 36  | 42  | 48  | 54  | 60  |
| 10                    | 65                       | 80  | 95  | 120 | 145 | 175 | 205 | 260 | 345 | 430 | 520 | 605 | 690 | 775 |
| 20                    | 50                       | 60  | 75  | 95  | 115 | 135 | 160 | 200 | 265 | 335 | 400 | 465 | 535 | 600 |
| 30                    | 45                       | 55  | 65  | 80  | 100 | 115 | 140 | 175 | 230 | 290 | 345 | 405 | 460 | 520 |
| 40                    | 35                       | 45  | 55  | 70  | 85  | 100 | 120 | 150 | 200 | 245 | 295 | 345 | 395 | 445 |
| 50                    | 30                       | 40  | 45  | 60  | 70  | 85  | 100 | 130 | 170 | 215 | 255 | 300 | 340 | 385 |
| 60                    | 30                       | 40  | 45  | 60  | 70  | 85  | 100 | 125 | 165 | 205 | 250 | 290 | 330 | 375 |
| 70                    | 30                       | 40  | 50  | 60  | 75  | 85  | 105 | 130 | 175 | 220 | 260 | 305 | 350 | 395 |
| 80                    | 35                       | 45  | 50  | 65  | 80  | 95  | 115 | 140 | 190 | 235 | 285 | 330 | 375 | 425 |
| 90                    | 35                       | 45  | 55  | 70  | 85  | 100 | 120 | 150 | 200 | 255 | 305 | 355 | 405 | 455 |
| 100                   | 40                       | 50  | 60  | 75  | 90  | 110 | 130 | 160 | 215 | 270 | 325 | 380 | 430 | 485 |
| 110                   | 45                       | 55  | 65  | 80  | 100 | 115 | 140 | 175 | 230 | 290 | 345 | 405 | 460 | 520 |
| 120                   | 45                       | 55  | 65  | 85  | 105 | 120 | 145 | 185 | 245 | 305 | 365 | 425 | 490 | 550 |
| 130                   | 50                       | 60  | 75  | 95  | 115 | 135 | 160 | 200 | 265 | 335 | 400 | 465 | 535 | 600 |
| 140                   | 55                       | 70  | 80  | 105 | 125 | 150 | 180 | 225 | 300 | 375 | 450 | 525 | 600 | 675 |
| 150                   | 60                       | 75  | 90  | 115 | 140 | 170 | 200 | 250 | 335 | 420 | 505 | 590 | 670 | 755 |
| 160                   | 70                       | 85  | 100 | 130 | 160 | 185 | 225 | 280 | 375 | 465 | 560 | 650 | 745 | 800 |
| 170                   | 75                       | 95  | 115 | 145 | 175 | 205 | 250 | 310 | 415 | 520 | 620 | 725 | 800 | 800 |
| 180                   | 85                       | 105 | 125 | 160 | 195 | 230 | 275 | 345 | 460 | 575 | 690 | 800 | 800 | 800 |
| 190                   | 75                       | 95  | 115 | 145 | 175 | 205 | 250 | 310 | 415 | 520 | 620 | 725 | 800 | 800 |
| 200                   | 70                       | 85  | 100 | 130 | 160 | 185 | 225 | 280 | 375 | 465 | 560 | 650 | 745 | 800 |
| 210                   | 60                       | 75  | 90  | 115 | 140 | 170 | 200 | 250 | 335 | 420 | 505 | 590 | 670 | 755 |
| 220                   | 55                       | 70  | 80  | 105 | 125 | 150 | 180 | 225 | 300 | 375 | 450 | 525 | 600 | 675 |
| 230                   | 50                       | 60  | 75  | 95  | 115 | 130 | 160 | 200 | 265 | 335 | 400 | 465 | 535 | 600 |
| 240                   | 45                       | 55  | 65  | 85  | 105 | 120 | 145 | 185 | 245 | 305 | 365 | 425 | 490 | 550 |

### STEP 5

#### Determine Pulley Resultant Load

Determine pulley resultant load from belt tensions and arc of contact.

Resultant load is calculated by:

$$R = 2 \times T_2 \times \sin(\alpha/2) \text{ (non-drive)*}$$

$$R = (T_1 + T_2) \times \sin(\alpha/2) \text{ (drive)*}$$

Where: R = Pulley resultant load

T<sub>1</sub> = Tight side tension

T<sub>2</sub> = Slack side tension

α = Arc of contact

\*Note: If non-drive pulley is on tight side of belt, substitute T<sub>1</sub> for T<sub>2</sub>. Wing pulleys should not be used as drive pulleys.

listed, interpolate or use the next higher value) until a load rating greater than the resultant load calculated in Step 5 is found. The proper shaft diameter is then read from the vertical shaft diameter column.

### STEP 6

#### Determine Shaft Diameter

Determine shaft diameter from Table 3. Go down the proper pulley face width column and across from the bearing center minus face value (if the correct value is not

**Table 2**

Use in STEP 4 to determine minimum pulley diameter for Wing Pulleys only MAXIMUM BELT TENSION (Pounds Per Inch of Belt Width)

| Dia. | Pounds Per Inch | Dia. | Pounds Per Inch |
|------|-----------------|------|-----------------|
| 8"   | 80#             | 18"  | 180#            |
| 10"  | 100#            | 20"  | 200#            |
| 12"  | 120#            | 24"  | 240#            |
| 14"  | 140#            | 30"  | 280#            |
| 16"  | 160#            | 36"  | 350#            |





# SELECTION

## Drum and Wing Pulleys

**Table 3 - Use In Step 6 To Determine Shaft Diameter Load Ratings (Pounds) For Pulley And Shaft Combinations**

| Shaft Diameter (Inches) | (L) Bearing Centers Minus Face | Pulley Face Width (Inches) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-------------------------|--------------------------------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                         |                                | 12                         | 14    | 16    | 18    | 20    | 22    | 26    | 32    | 38    | 44    | 51    | 57    | 63    | 66    |       |
| 1-3/16                  | 2                              | 1000                       | 920   | 780   | 670   | 590   | 530   | 440   | 350   | 290   | 240   | 210   | 180   | 170   | 160   |       |
|                         | 6                              | 570                        | 520   | 440   | 380   | 340   | 300   | 250   | 700   | 160   | 140   | 170   | 100   | 94    | 90    |       |
|                         | 10                             | 400                        | 370   | 310   | 270   | 230   | 210   | 170   | 140   | 110   | 96    | 82    | 73    | 66    | 63    |       |
|                         | 14                             | 300                        | 280   | 240   | 200   | 180   | 160   | 130   | 110   | 87    | 74    | 63    | 56    | 51    | 48    |       |
| 1-7/16                  | 3                              | 1500                       | 1500  | 1400  | 1200  | 1100  | 950   | 790   | 620   | 510   | 440   | 370   | 330   | 300   | 290   |       |
|                         | 6                              | 1000                       | 1000  | 950   | 820   | 720   | 640   | 530   | 420   | 350   | 300   | 250   | 220   | 200   | 190   |       |
|                         | 10                             | 700                        | 700   | 660   | 570   | 500   | 450   | 370   | 290   | 240   | 210   | 180   | 160   | 140   | 130   |       |
|                         | 14                             | 540                        | 540   | 510   | 440   | 390   | 350   | 290   | 230   | 190   | 160   | 140   | 120   | 110   | 100   |       |
| 1-11/16                 | 3                              | 2400                       | 2400  | 2400  | 2300  | 2000  | 1800  | 1500  | 1200  | 980   | 830   | 710   | 630   | 570   | 540   |       |
|                         | 6                              | 1600                       | 1600  | 1600  | 1600  | 1400  | 1200  | 1000  | 800   | 660   | 560   | 480   | 430   | 380   | 370   |       |
|                         | 10                             | 1100                       | 1100  | 1100  | 1100  | 960   | 850   | 700   | 560   | 460   | 390   | 340   | 300   | 270   | 260   |       |
|                         | 16                             | 780                        | 780   | 780   | 750   | 660   | 590   | 490   | 380   | 320   | 270   | 230   | 210   | 180   | 180   |       |
| 1-15/16                 | 3                              | 3700                       | 3700  | 3700  | 3700  | 3500  | 3100  | 2600  | 2100  | 1700  | 1400  | 1200  | 1100  | 990   | 940   |       |
|                         | 6                              | 2500                       | 2500  | 2500  | 2500  | 2400  | 2100  | 1800  | 1400  | 1100  | 980   | 840   | 740   | 670   | 640   |       |
|                         | 10                             | 1700                       | 1700  | 1700  | 1700  | 1700  | 1500  | 1200  | 970   | 800   | 680   | 580   | 520   | 470   | 420   |       |
|                         | 16                             | 1200                       | 1200  | 1200  | 1200  | 1100  | 1000  | 840   | 670   | 550   | 470   | 400   | 360   | 320   | 310   |       |
| 2-3/16                  | 3                              | 5300                       | 5300  | 5300  | 5300  | 5300  | 5100  | 4200  | 3300  | 2800  | 2400  | 2000  | 1800  | 1600  | 1500  |       |
|                         | 8                              | 2900                       | 2900  | 2900  | 2900  | 2900  | 2800  | 2300  | 1900  | 1500  | 1300  | 1100  | 990   | 890   | 850   |       |
|                         | 12                             | 2200                       | 2200  | 2200  | 2200  | 2200  | 2100  | 1700  | 1400  | 1100  | 970   | 820   | 730   | 660   | 630   |       |
|                         | 18                             | 1500                       | 1500  | 1500  | 1500  | 1500  | 1500  | 1200  | 980   | 810   | 690   | 590   | 530   | 470   | 450   |       |
| 2-7/16                  | 4                              | 6300                       | 6300  | 6300  | 6300  | 6300  | 6300  | 5600  | 4400  | 3700  | 3100  | 2700  | 2400  | 2100  | 2000  |       |
|                         | 8                              | 4000                       | 4000  | 4000  | 4000  | 4000  | 4000  | 3600  | 2900  | 2400  | 2000  | 1700  | 1500  | 1400  | 1300  |       |
|                         | 12                             | 3000                       | 3000  | 3000  | 3000  | 3000  | 3000  | 2700  | 2100  | 1700  | 1500  | 1300  | 1100  | 1000  | 910   |       |
|                         | 18                             | 2100                       | 2100  | 2100  | 2100  | 2100  | 2100  | 1900  | 1500  | 1300  | 1100  | 910   | 810   | 130   | 690   |       |
| 2-11/16                 | 4                              | 8100                       | 8100  | 8100  | 8100  | 8100  | 8100  | 8100  | 6400  | 5300  | 4500  | 3800  | 3400  | 3100  | 2900  |       |
|                         | 8                              | 5300                       | 5300  | 5300  | 5300  | 5300  | 5300  | 5300  | 4200  | 3400  | 2900  | 2500  | 2200  | 2000  | 1900  |       |
|                         | 12                             | 3900                       | 3900  | 3900  | 3900  | 3900  | 3900  | 3900  | 3100  | 2600  | 2200  | 1900  | 1600  | 1500  | 1400  |       |
|                         | 18                             | 2800                       | 2800  | 2800  | 2800  | 2800  | 2800  | 2800  | 2200  | 1800  | 1600  | 1300  | 1200  | 1100  | 1000  |       |
| 2-15/16                 | 4                              | 10600                      | 10600 | 10600 | 10600 | 10600 | 10600 | 10600 | 9100  | 7500  | 6400  | 5500  | 4900  | 4400  | 4200  |       |
|                         | 8                              | 6900                       | 6900  | 6900  | 6900  | 6900  | 6900  | 6900  | 6000  | 4900  | 4200  | 3600  | 3200  | 2900  | 4700  |       |
|                         | 14                             | 4600                       | 4600  | 4600  | 4600  | 4600  | 4600  | 4600  | 3900  | 3200  | 2800  | 2300  | 2100  | 1900  | 1800  |       |
|                         | 20                             | 3400                       | 3400  | 3400  | 3400  | 3400  | 3400  | 3400  | 2900  | 2400  | 2000  | 1700  | 1600  | 1400  | 1300  |       |
| 3-7/16                  | 6                              | 11600                      | 11600 | 11600 | 11600 | 11600 | 11600 | 11600 | 11600 | 10100 | 8500  | 7200  | 6400  | 5700  | 5500  |       |
|                         | 10                             | 8500                       | 8500  | 8500  | 8500  | 8500  | 8500  | 8500  | 8500  | 7400  | 6300  | 5300  | 4700  | 4200  | 4000  |       |
|                         | 14                             | 6700                       | 6700  | 6700  | 6700  | 6700  | 6700  | 6700  | 6700  | 5800  | 4900  | 4200  | 3700  | 3300  | 3200  |       |
|                         | 20                             | 5100                       | 5100  | 5100  | 5100  | 5100  | 5100  | 5100  | 5100  | 4400  | 3800  | 3200  | 2800  | 2500  | 2400  |       |
| 3-15/16                 | 6                              | 16700                      | 16700 | 16700 | 16700 | 16700 | 16700 | 16700 | 16700 | 16700 | 14200 | 12000 | 10600 | 9500  | 9000  |       |
|                         | 10                             | 12400                      | 12400 | 12400 | 12400 | 12400 | 12400 | 12400 | 12400 | 12400 | 10600 | 8900  | 7900  | 7100  | 6700  |       |
|                         | 14                             | 9800                       | 9800  | 9800  | 9800  | 9800  | 9800  | 9800  | 9800  | 9800  | 8400  | 7100  | 6300  | 5600  | 5300  |       |
|                         | 20                             | 7500                       | 7500  | 7500  | 7500  | 7500  | 7500  | 7500  | 7500  | 7500  | 6400  | 5400  | 4800  | 4300  | 4100  |       |
| 4-7/16                  | 8                              | 19600                      | 19600 | 19600 | 19600 | 19600 | 19600 | 19600 | 19600 | 19600 | 19100 | 16100 | 14200 | 12700 | 12100 |       |
|                         | 12                             | 15300                      | 15300 | 15300 | 15300 | 15300 | 15300 | 15300 | 15300 | 15300 | 14800 | 12500 | 11100 | 9900  | 9400  |       |
|                         | 16                             | 12500                      | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12500 | 12100 | 10300 | 9100  | 8100  | 7700  |
|                         | 22                             | 9800                       | 9800  | 9800  | 9800  | 9800  | 9800  | 9800  | 9800  | 9800  | 9800  | 9500  | 8100  | 7100  | 6400  | 6000  |
| 4-15/16                 | 8                              |                            | 25200 | 25200 | 25200 | 25200 | 25200 | 25200 | 25200 | 25200 | 25200 | 23600 | 20800 | 18500 | 17600 |       |
|                         | 12                             |                            | 19900 | 19900 | 19900 | 19900 | 19900 | 19900 | 19900 | 19900 | 19900 | 19900 | 18600 | 16400 | 14600 | 13900 |
|                         | 16                             |                            | 16400 | 16400 | 16400 | 16400 | 16400 | 16400 | 16400 | 16400 | 16400 | 16400 | 15400 | 13500 | 12100 | 11500 |
|                         | 22                             |                            | 13000 | 13000 | 13000 | 13000 | 13000 | 13000 | 13000 | 13000 | 13000 | 13000 | 12200 | 10700 | 9600  | 9100  |
| 5-7/16                  | 10                             |                            |       | 26600 | 26600 | 26600 | 26600 | 26600 | 26600 | 26600 | 26600 | 26600 | 25100 | 22300 | 21100 |       |
|                         | 14                             |                            |       | 22000 | 22000 | 22000 | 20000 | 22000 | 22000 | 22000 | 22000 | 22000 | 22000 | 20700 | 17500 |       |
|                         | 18                             |                            |       | 18700 | 18700 | 18700 | 18700 | 18700 | 18700 | 18700 | 18700 | 18700 | 18700 | 17700 | 14900 |       |
|                         | 24                             |                            |       | 15300 | 15300 | 15300 | 15300 | 15300 | 15300 | 15300 | 15300 | 15300 | 15300 | 14500 | 12800 | 12200 |

|                                  |                              |                             |                                      |
|----------------------------------|------------------------------|-----------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT15-2 | SPECIFICATION<br>PAGE PT15-4 | NOMENCLATURE<br>PAGE PT15-7 | SELECTION/DIMENSIONS<br>PAGE PT15-10 |
|----------------------------------|------------------------------|-----------------------------|--------------------------------------|



## Drum and Wing Pulleys

**Table 3 (Continued) - Use In Step 6 To Determine Shaft Diameter Load Ratings (Pounds) For Pulley And Shaft Combinations**

| Shaft Diameter (Inches) | (L) Bearing Centers Minus Face | Pulley Face Width (Inches) |    |       |       |       |        |        |        |        |        |        |        |        |        |
|-------------------------|--------------------------------|----------------------------|----|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                         |                                | 12                         | 14 | 16    | 18    | 20    | 22     | 26     | 32     | 38     | 44     | 51     | 57     | 63     | 66     |
| 6                       | 10                             |                            |    | 35700 | 35700 | 35700 | 35700  | 35700  | 35700  | 35700  | 35700  | 35700  | 35700  | 33100  | 31300  |
|                         | 14                             |                            |    | 29500 | 29500 | 29500 | 29500  | 29500  | 29500  | 29500  | 29500  | 29500  | 29500  | 27300  | 25900  |
|                         | 18                             |                            |    | 25100 | 25100 | 25100 | 25100  | 25100  | 25100  | 25100  | 25100  | 25100  | 25100  | 23300  | 22100  |
|                         | 24                             |                            |    | 20600 | 20600 | 20600 | 20600  | 20600  | 20600  | 20600  | 20600  | 20600  | 20600  | 19000  | 19000  |
| 6-1/2                   | 12                             |                            |    |       | 39200 | 39200 | 39200  | 39200  | 39200  | 39200  | 39200  | 39200  | 39200  | 39200  | 38000  |
|                         | 16                             |                            |    |       | 33200 | 33200 | 33200  | 33200  | 33200  | 33200  | 33200  | 33200  | 33200  | 33200  | 32100  |
|                         | 20                             |                            |    |       | 28800 | 28800 | 28800  | 28800  | 28800  | 28800  | 28800  | 28800  | 28800  | 28800  | 27800  |
|                         | 26                             |                            |    |       | 24000 | 24000 | 24000  | 24000  | 24000  | 24000  | 24000  | 24000  | 24000  | 24000  | 23200  |
| 7                       | 12                             |                            |    |       | 49000 | 49000 | 49000  | 49000  | 49000  | 49000  | 49000  | 49000  | 49000  | 49000  | 49000  |
|                         | 16                             |                            |    |       | 41400 | 41400 | 41400  | 41400  | 41400  | 41400  | 41400  | 41400  | 41400  | 41400  | 41400  |
|                         | 20                             |                            |    |       | 35900 | 35900 | 35900  | 35900  | 35900  | 35900  | 35900  | 35900  | 35900  | 35900  | 35900  |
|                         | 26                             |                            |    |       | 29900 | 29900 | 20000  | 29900  | 29900  | 29900  | 29900  | 29900  | 29900  | 29900  | 29900  |
| 7-1/2                   | 14                             |                            |    |       | 54100 | 54100 | 54100  | 54100  | 54100  | 54100  | 54100  | 54100  | 54100  | 54100  | 54100  |
|                         | 18                             |                            |    |       | 46500 | 46500 | 46500  | 48500  | 48500  | 46500  | 46500  | 46500  | 46500  | 46500  | 46500  |
|                         | 22                             |                            |    |       | 40800 | 40800 | 40800  | 40800  | 40800  | 40800  | 40800  | 40800  | 40800  | 40800  | 40800  |
|                         | 28                             |                            |    |       | 34400 | 34400 | 34400  | 34400  | 34400  | 34400  | 34400  | 34400  | 34400  | 34400  | 34400  |
| 8                       | 14                             |                            |    |       | 65700 | 65700 | 65700  | 65700  | 65700  | 65700  | 65700  | 65700  | 65700  | 65700  | 65700  |
|                         | 18                             |                            |    |       | 56400 | 56400 | 56400  | 56400  | 56400  | 56400  | 56400  | 56400  | 56400  | 56400  | 56400  |
|                         | 22                             |                            |    |       | 49500 | 49500 | 49500  | 49500  | 49500  | 49500  | 49500  | 49500  | 49500  | 49500  | 49500  |
|                         | 28                             |                            |    |       | 41800 | 41800 | 41800  | 41800  | 41800  | 41800  | 41800  | 41800  | 41800  | 41800  | 41800  |
| 8-1/2                   | 16                             |                            |    |       |       |       | 67700  | 67700  | 67700  | 67700  | 67700  | 67700  | 67700  | 67700  | 67700  |
|                         | 20                             |                            |    |       |       |       | 59400  | 59400  | 59400  | 59400  | 59400  | 59400  | 59400  | 59400  | 59400  |
|                         | 24                             |                            |    |       |       |       | 52900  | 52900  | 52900  | 52900  | 52900  | 52900  | 52900  | 52900  | 52900  |
|                         | 30                             |                            |    |       |       |       | 45400  | 45400  | 45400  | 45400  | 45400  | 45400  | 45400  | 45400  | 45400  |
| 9                       | 16                             |                            |    |       |       |       | 80400  | 80400  | 80400  | 80400  | 80400  | 80400  | 80400  | 80400  | 80400  |
|                         | 20                             |                            |    |       |       |       | 70500  | 70500  | 70500  | 70500  | 70500  | 70500  | 70500  | 70500  | 70500  |
|                         | 26                             |                            |    |       |       |       | 59500  | 59500  | 59500  | 59500  | 59500  | 59500  | 59500  | 59500  | 59500  |
|                         | 32                             |                            |    |       |       |       | 51500  | 51500  | 51500  | 51500  | 51500  | 51500  | 51500  | 51500  | 51500  |
| 9-1/2                   | 16                             |                            |    |       |       |       | 94500  | 94500  | 94500  | 94500  | 94500  | 94500  | 94500  | 94500  | 94500  |
|                         | 22                             |                            |    |       |       |       | 78100  | 78100  | 78100  | 78100  | 78100  | 78100  | 78100  | 78100  | 78100  |
|                         | 28                             |                            |    |       |       |       | 66500  | 66500  | 66500  | 66500  | 66500  | 66500  | 66500  | 66500  | 66500  |
|                         | 34                             |                            |    |       |       |       | 57900  | 57900  | 57900  | 57900  | 57900  | 57900  | 57900  | 57900  | 57900  |
| 10                      | 16                             |                            |    |       |       |       | 110000 | 110000 | 110000 | 110000 | 110000 | 110000 | 110000 | 110000 | 110000 |
|                         | 22                             |                            |    |       |       |       | 91100  | 91100  | 91100  | 91100  | 91100  | 91100  | 91100  | 91100  | 91100  |
|                         | 28                             |                            |    |       |       |       | 77600  | 77600  | 77600  | 77600  | 77600  | 77600  | 77600  | 77600  | 77600  |
|                         | 34                             |                            |    |       |       |       | 64800  | 64800  | 64800  | 64800  | 64800  | 64800  | 64800  | 64800  | 64800  |



# SELECTION

## Drum and Wing Pulleys

### STEP 7

#### Determine Drive Pulley Shaft Diameter

(For drive pulleys only) The shaft diameter determined in Step 6 must be checked for torque capacity. The shaft diameter required for torque is determined from:

$$D_T = 3 \sqrt{\frac{16}{\pi \times S} \times \sqrt{(K_B \times A \times R \div 2)^2 + [(T_1 - T_2) \times D \div 2]^2}}$$

- Where:  $D_T$  = Required shaft diameter from torque  
 $p = 3.1416$   
 $S = 8000$  psi for 1042 -1045 shafting  
 (10,000 for 4140)  
 $K_B = 1.5^*$   
 $A$  = Moment arm (from Table 4)  
 $R$  = Resultant load from Step 5  
 $T_1$  = Tight side tension  
 $T_2$  = Slack side tension  
 $D$  = Pulley Diameter

\*Note: Use  $K_B = 2.5$  for overhung load drive (chain, torque arm, etc.)  
 If  $D_T$  is greater than the shaft diameter from Step 6, round  $D_T$  up to the next standard shaft diameter and use that value. If  $D_T$  is less than the shaft diameter from Step 6, use the diameter selected from Step 6.

**Table 4 - A-Values**

| Shaft Dia. (inches) | A       | Shaft Dia. (inches) | A       |
|---------------------|---------|---------------------|---------|
| 1 to 2-7/16         | N+1-5/8 | 4-15/16             | N+3-1/4 |
| 2-11/16 to 2-15/16  | N+1-3/4 | 5-7/16 to 6         | N+4-1/2 |
| 3-7/16              | N+2-1/2 | 6-1/2 to 7          | N+5     |
| 3-15/16             | N+2-3/4 | 7-1/2 to 8          | N+5-1/4 |
| 4-7/16              | N+3     | 8-1/2 to 10         | N+6-1/4 |

N = BCMF ÷ 2

### STEP 8

#### Compare Pulley Diameter

Compare the pulley diameter, face width combination selected with the standard drum pulley listing on pages PT14-15 - PT14-33 or the standard wing pulley listing on pages PT14-34 - PT14-48 to insure the selected combination is available. If the selected combination is not available increase shaft diameter or pulley diameter until a standard pulley is listed.

#### Example 1 (Drive Pulley)

- Given: 36" belt width                      3600 lb.  $T_1$   
 52" bearing centers                      1600 lb.  $T_2$   
 210° arc of contact

#### Step 1

Determine required face width from:  
 $F = BW + 2"$                        $F = 36 + 2 = 38$

#### Step 2

Determine bearing center minus face dimension from:  
 $BCMF = BC - F$                        $BCMF = 52 - 38 = 14"$

#### Step 3

Determine pounds per inch of face width from:  
 $PIW = T_1 \div BW$                        $PIW = 3600 \div 36 = 100$  PIW

#### Step 4

Determine minimum pulley diameter using Table 1. Since  $PIW = 100$  and arc of contact is 210°, the minimum pulley diameter is 14".

#### Step 5

Determine resultant load from:  
 $R = (T_1 + T_2) \times \sin(\alpha/2)$   
 $R = (3600 + 1600) \times \sin(210/2) = 5023$  lb.

#### Step 6

**Determine shaft diameter using Table 3.** Using a face width of 38" bearing center minus face dimension of 14" and a pulley resultant load of 5023 lbs., read down the 38" face width column until the load rating at BCMF = 14" exceeds 5023 lb. The first value to exceed 5023 lbs. is 5800 lbs. at a shaft diameter of 3-7/16.

#### Step 7

Check torque capacity of selected shaft using:

$$D_T = 3 \sqrt{\frac{16}{\pi \times S} \times \sqrt{(K_B \times A \times R \div 2)^2 + [(T_1 - T_2) \times D \div 2]^2}}$$

$$D_T = 3 \sqrt{\frac{16}{3.1416 \times 8000} \times \sqrt{(1.5 \times 9.5 \times 5023 \div 2)^2 + [(3600 - 1600) \times D \div 2]^2}}$$

$D_T = 2.86"$

The 3-7/16 shaft diameter selected in Step 6 is greater than 2.86: therefore 3-7/16 is the final shaft diameter selection.

#### Step 8

Checking the standard pulley listing on page PT14-30, a 14 x 38 pulley with 3-7/16 shaft (HE35 Hub) is a standard pulley.

#### Example 2 (Non-drive wing pulley).

- Given: 54" belt width                      180° arc of contact  
 71 bearing centers                      8600 lb.  $T_2$

#### Step 1

Determine required face width from:  
 $F = BW + 3,$                        $F = 54 + 3 = 57,$

#### Step 2

Determine bearing center minus face dimension from: BCMF = BC - F  
 $BCMF = 71 - 57 = 14,$

#### Step 3

Determine pounds per inch of face width from:  
 $PIW = T_2 \div BW$                        $PIW = 8600 \div 54 = 159$  PIW

#### Step 4

Determine minimum pulley diameter using Table 2. Since  $PIW = 159$  the minimum pulley diameter is 16".

#### Step 5

Determine resultant load from:  
 $R = 2 \times T_2 \times \sin(\alpha/2)$   
 $R = 2 \times 8600 \times \sin(180/2) = 17,200$  lbs.

#### Step 6

Determine shaft diameter using Table 3. Using a face width of 57", bearing center minus face dimension of 14" and a pulley resultant load of 17,200 lbs., read down the 57" face width column until the load rating at BCMF = 14" exceeds 17,200 lbs. The first value to exceed 17,200 lbs. is 20,700 lbs. at a shaft diameter of 5-7/16.

#### Step 7

Checking the standard wing pulley listing on page PT14-46, a 16 x 57 wing pulley with 5-7/16 shaft (HE60 hub) is not a standard pulley. For a 5-7/16 shaft you must select a 24" diameter pulley.

|                                  |                              |                             |                                      |
|----------------------------------|------------------------------|-----------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT15-2 | SPECIFICATION<br>PAGE PT15-4 | NOMENCLATURE<br>PAGE PT15-7 | SELECTION/DIMENSIONS<br>PAGE PT15-10 |
|----------------------------------|------------------------------|-----------------------------|--------------------------------------|

# SELECTION/DIMENSIONS



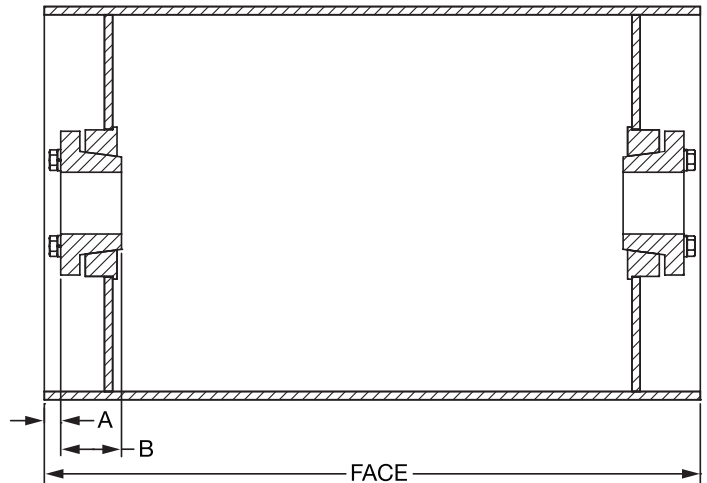
## HE Heavy Duty Drum Pulleys



- Designed to CEMA specifications
- Standard crown face or straight face available
- 6" - 60" diameter and face widths exceeding 100", others available upon request
- HE bushing system designed specifically for Dodge Conveyor pulleys
- Most dependable mounting system for conveyor pulleys
- One piece die formed rim through 18"
- Rolled rim over 18"
- Available from stock

### HE Dimensions

| Hub   | A     | B    | Bushing | Max. Bore | Screw Torque (in.-lb.) |
|-------|-------|------|---------|-----------|------------------------|
| HE25  | 3/4   | 1.80 | HE25    | 2-1/2     | 360                    |
| HE30  | 3/4   | 2.20 | HE30    | 3         | 710                    |
| HE35  | 3/4   | 2.78 | HE35    | 3-1/2     | 1080                   |
| HE40  | 3/4   | 2.93 | HE40    | 4         | 1680                   |
| HE45  | 3/4   | 3.20 | HE45    | 4-1/2     | 1680                   |
| HE50  | 3/4   | 3.70 | HE50    | 5         | 2400                   |
| HE60  | 1     | 3.95 | HE60    | 6         | 4200                   |
| HE70  | 1     | 4.45 | HE70    | 7         | 6000                   |
| HE80  | 1-1/4 | 5.20 | HE80    | 8         | 6000                   |
| HE100 | 1-1/4 | 6.45 | HE100   | 10        | 7200                   |
| HE120 | 1-1/4 | 7.45 | HE120   | 12        | 7200                   |



# SELECTION



## HE Heavy Duty Crown Drum Pulley Part Numbers

| Dia | Hub    | Face Width |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-----|--------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|     |        | 10         | 12     | 14     | 16     | 18     | 20     | 22     | 24     | 26     | 28     | 30     | 32     | 34     |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 6   | HE25   |            | 206001 | 206003 | 209942 | 203500 | 203501 | 206009 | 203502 | 206012 |        | 203503 | 203504 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 8   | HE25   |            | 206020 | 206022 |        | 206024 | 203516 |        | 209945 | 206029 |        | 203519 | 206031 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 10  | HE25   | 203268     | 206035 | 206036 | 206037 | 206039 | 206041 | 206042 | 203530 | 206044 | 223058 | 209710 | 206046 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|     | 209948 |            |        |        | 203910 | 203526 | 203531 |        | 203533 | 206048 |        |        | 203538 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|     |        |            |        |        |        | 203527 | 203529 |        | 203534 | 206050 |        |        | 203539 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 12  | HE25   |            | 209716 | 206056 | 206057 | 206058 | 206060 | 209718 | 203561 | 206063 | 203272 | 209720 | 206066 | 209721 |        |        |        |        |        |        |        |        |        |        |        |        |        |
|     | HE30   |            |        |        |        |        |        |        |        |        |        |        |        |        | 223061 | 206071 | 203558 | 203562 | 206064 | 206067 |        |        |        |        |        |        |        |
|     | HE35   |            |        |        |        |        |        |        |        |        |        |        |        |        |        | 203556 | 203559 | 203563 | 203565 | 203571 |        |        |        |        |        |        |        |
|     | HE40   |            |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 203560 | 203566 | 203566 | 203572 |        |        |        |        |        |        |        |
| 14  | HE25   |            | 203594 | 209726 | 203596 | 203597 | 206080 | 209951 | 203607 | 206081 | 209729 | 209730 | 206083 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|     | HE30   |            |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 209727 | 203603 | 203608 | 206082 | 203616 |        |        |        |        |        |        |
|     | HE35   |            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 203609 | 209728 | 203617 |        |        |        |        |        |        |
|     | HE40   |            |        |        |        |        |        |        |        |        |        |        |        |        | 209725 |        | 203600 |        | 203613 | 203618 | 203621 |        |        |        |        |        |        |
|     | HE45   |            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 203606 | 203611 |        | 203622 |        |        |        |        |        |        |
|     | HE60   |            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 203623 |        |        |        |        |        |        |
| 16  | HE25   | 203207     | 203651 | 203652 | 206090 | 206091 | 206092 | 209736 | 209952 | 206095 | 223074 | 209739 | 206097 | 209740 |        |        |        |        |        |        |        |        |        |        |        |        |        |
|     | HE30   |            |        |        |        |        |        |        |        |        |        |        |        |        | 202002 | 209734 | 202005 | 203283 | 209735 | 203657 | 206098 |        |        |        |        |        |        |
|     | HE35   |            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 203654 | 203658 | 203674 |        |        |        |        |        |        |
|     | HE40   |            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 203655 | 203659 | 203675 |        |        |        |        |        |        |
|     | HE45   |            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 203664 | 203676 |        |        |        |        |        |        |
|     | HE50   |            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 203668 | 223076 |        |        |        |        |        |        |
| 18  | HE25   | 202006     | 203703 | 203704 | 209743 | 209744 | 206110 | 203712 | 209746 | 206111 | 223096 | 209749 | 206114 | 203732 |        |        |        |        |        |        |        |        |        |        |        |        |        |
|     | HE30   |            |        |        |        |        |        |        |        |        |        |        |        |        | 202009 | 202010 | 202015 | 203707 | 209745 | 203713 | 206112 |        |        |        |        |        |        |
|     | HE35   |            |        |        |        |        |        |        |        |        |        |        |        |        | 202007 | 224523 | 202011 | 202016 | 202017 | 203709 | 209953 | 206113 |        |        |        |        |        |
|     | HE40   |            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 203710 | 203715 | 203718 | 206114 |        |        |        |        |        |
|     | HE45   |            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 203719 | 206113 |        |        |        |        |        |
|     | HE50   |            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 209747 | 206113 |        |        |        |        |        |
| 20  | HE25   | 203309     | 209756 | 203765 | 203766 | 203767 | 206125 | 203773 | 203778 | 206126 | 223124 | 209955 | 206089 | 223130 |        |        |        |        |        |        |        |        |        |        |        |        |        |
|     | HE30   |            |        |        |        |        |        |        |        |        |        |        |        |        | 202018 | 224524 | 202024 | 202029 | 202031 | 209757 | 203774 | 209758 | 206127 |        |        |        |        |
|     | HE35   |            |        |        |        |        |        |        |        |        |        |        |        |        | 202019 | 202023 | 202025 | 202030 | 203768 | 203770 | 203775 | 203780 | 206128 |        |        |        |        |
|     | HE40   |            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 203771 | 203776 | 203781 | 209759 | 223127 |        |        |        |        |
|     | HE45   |            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 203784 | 223127 | 203788 | 203790 |        |        |
|     | HE50   |            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 223123 | 223128 | 203789 | 203791 |        |        |
|     |        |            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 223128 | 223128 | 203791 | 203311 |        |
|     |        |            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 223128 | 223128 | 203791 | 203311 |
|     |        |            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 223128 | 223128 | 203791 | 203311 |
|     |        |            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 223128 | 223128 | 203791 | 203311 |
| 24  | HE25   | 224528     | 202035 | 202038 | 202041 | 202043 | 202046 | 202047 | 202049 | 223160 | 223161 | 209955 | 206089 | 223130 |        |        |        |        |        |        |        |        |        |        |        |        |        |
|     | HE30   |            |        |        |        |        |        |        |        |        |        |        |        |        | 203814 | 209957 | 203816 | 203817 | 203818 | 203819 | 209958 | 203827 | 206140 |        |        |        |        |
|     | HE35   |            |        |        |        |        |        |        |        |        |        |        |        |        | 202032 | 202036 | 209767 | 202042 | 202044 | 203820 | 203824 | 203828 | 206141 |        |        |        |        |
|     | HE40   |            |        |        |        |        |        |        |        |        |        |        |        |        | 224529 | 202037 | 203339 | 224533 | 202045 | 203821 | 202048 | 203829 | 203908 |        |        |        |        |
|     | HE45   |            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 203822 | 203826 |        | 203908 | 203831 | 206144 |        |        |
|     | HE60   |            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 203340 | 223163 | 209772 | 209773 |        |
| 30  | HE30   | 202050     | 224534 | 203857 | 203858 | 209959 | 203860 | 202070 | 202073 | 223160 | 223161 | 209955 | 206089 | 223130 |        |        |        |        |        |        |        |        |        |        |        |        |        |
|     | HE35   |            |        |        |        |        |        |        |        |        |        |        |        |        | 202051 | 224535 | 202062 | 203210 | 202067 | 203861 | 203864 | 203868 | 206141 |        |        |        |        |
|     | HE40   |            |        |        |        |        |        |        |        |        |        |        |        |        | 202052 | 224536 | 224537 | 209780 |        | 203862 | 203865 | 203869 | 206141 |        |        |        |        |
|     | HE45   |            |        |        |        |        |        |        |        |        |        |        |        |        | 202053 | 202060 | 202063 | 202151 | 202068 | 203863 | 202071 | 203870 | 203908 | 203872 | 206144 |        |        |
|     | HE50   |            |        |        |        |        |        |        |        |        |        |        |        |        | 202054 | 202061 | 202064 | 202066 |        | 202069 | 202072 | 202074 | 203873 | 203873 | 206144 |        |        |
|     | HE60   |            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 209772 | 209772 |        |
| 36  | HE30   | 202075     | 202085 | 202090 | 203906 | 202096 | 202098 | 202103 | 202107 | 223160 | 223161 | 209955 | 206089 | 223130 |        |        |        |        |        |        |        |        |        |        |        |        |        |
|     | HE35   |            |        |        |        |        |        |        |        |        |        |        |        |        | 202076 | 202086 |        | 202096 | 202099 | 202104 | 202108 | 206141 |        |        |        |        |        |
|     | HE40   |            |        |        |        |        |        |        |        |        |        |        |        |        | 202077 | 202087 |        | 202100 | 202100 | 202104 | 202109 | 206141 |        |        |        |        |        |
|     | HE45   |            |        |        |        |        |        |        |        |        |        |        |        |        | 202078 | 202088 | 202091 | 202095 | 202101 | 202105 | 202110 | 206141 |        |        |        |        |        |
|     | HE50   |            |        |        |        |        |        |        |        |        |        |        |        |        | 202079 | 202089 | 202092 |        | 202102 | 202106 | 202111 | 206141 |        |        |        |        |        |
|     | HE60   |            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 206141 |        |        |        |        |        |
|     | HE70   |            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 206141 |        |        |        |        |        |



**HE Heavy Duty Crown Drum Pulley Part Numbers (continued)**

| Dia  | Hub  | Face Width |        |        |        |        |        |        |        |        |        |        |        |
|------|------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|      |      | 36         | 38     | 40     | 44     | 46     | 50     | 51     | 54     | 56     | 57     | 60     | 63     |
| 6    | HE25 | 203505     | 206014 | 209700 | 209701 |        | 203510 | 203511 | 203512 |        |        | 209703 | 209704 |
| 8    | HE25 |            | 209707 |        | 206033 |        |        | 206034 | 203524 |        |        |        |        |
| 10   | HE25 | 209949     | 206048 |        | 206049 |        |        | 206052 | 209712 |        | 223059 |        | 223060 |
|      | HE30 |            | 203543 |        | 206051 |        |        | 206050 |        |        |        | 209713 | 209714 |
|      | HE35 |            | 203544 |        | 209711 |        | 203203 | 203551 |        | 203204 |        |        | 209715 |
| 12   | HE25 | 209950     | 206069 | 203274 | 206072 | 203583 |        | 206074 | 203590 |        | 203275 |        | 203276 |
|      | HE30 | 203574     | 206070 | 209722 | 206073 | 203584 |        | 203587 | 203591 |        | 223063 |        | 209724 |
|      | HE35 | 203575     | 203577 | 206071 | 203581 | 203585 |        | 203588 | 203592 |        | 209723 |        | 203277 |
|      | HE40 |            | 203578 | 203579 | 203582 | 203586 |        | 203589 | 203593 |        |        |        | 223065 |
| 14   | HE25 | 203624     | 206084 |        | 203633 | 203637 |        | 203642 | 209731 |        |        |        | 223070 |
|      | HE30 | 203625     | 206085 |        | 203907 | 203638 |        | 206087 | 203647 |        | 223067 |        | 223071 |
|      | HE35 |            | 203629 | 206086 | 203634 | 203639 |        | 203643 | 203648 |        | 223068 |        | 209733 |
|      | HE40 | 203627     | 203097 |        | 203635 |        |        | 203644 | 203649 |        | 223069 |        | 223072 |
|      | HE45 |            | 203631 |        | 203636 | 203641 |        | 203645 |        |        | 209732 |        |        |
|      | HE60 |            |        |        |        |        | 203205 |        |        |        | 203206 |        |        |
| 16   | HE25 | 203677     | 206099 | 223080 | 203685 | 203689 |        | 203695 | 203698 |        |        |        | 223091 |
|      | HE30 | 203678     | 206100 | 223081 | 206102 | 203690 |        | 203696 |        |        | 223086 | 223090 | 209742 |
|      | HE35 | 203679     | 203682 | 206101 | 203686 | 223084 |        | 206103 | 203700 |        | 223087 |        | 223092 |
|      | HE40 | 203680     | 203683 | 223082 | 203687 | 203691 |        | 206104 | 203701 |        | 223088 |        | 203293 |
|      | HE45 |            | 203684 | 209741 | 203688 | 203692 |        | 203697 |        |        | 203292 |        | 223093 |
|      | HE50 |            | 223079 | 223083 |        |        |        | 223085 |        |        | 223089 |        | 223094 |
| 18   | HE25 | 203735     | 206116 | 223101 | 203744 | 203748 |        | 203755 | 203759 |        | 223111 |        | 223118 |
|      | HE30 | 203098     | 206117 | 203742 | 203745 | 203749 |        | 203756 | 203760 |        | 223112 |        | 223119 |
|      | HE35 | 203737     | 206118 | 209751 | 206121 | 203750 |        | 203757 | 203761 |        | 223113 |        | 209755 |
|      | HE40 | 203738     | 203740 | 206119 | 203746 | 203751 | 203754 | 206120 | 203762 |        | 223114 |        | 223120 |
|      | HE45 | 203739     | 203741 | 223102 | 209752 | 209753 |        | 203758 | 203763 |        | 223115 |        | 203307 |
|      | HE50 | 223100     | 203303 | 223104 | 203305 | 203753 |        | 209754 | 223110 |        | 223116 |        | 203308 |
| 20   | HE25 | 209956     | 206131 | 223133 | 203799 | 203802 |        | 223142 |        |        | 223148 |        | 223155 |
|      | HE30 | 203793     | 206132 | 223134 | 206134 | 203803 |        | 203807 | 203810 |        | 203320 |        | 223156 |
|      | HE35 | 203794     | 206133 | 223135 | 206135 | 223139 |        | 203808 | 203811 |        | 203322 |        | 209766 |
|      | HE40 | 203795     | 203797 | 203314 | 206136 | 203804 |        | 203809 | 203812 |        | 223149 |        | 203326 |
|      | HE45 | 203796     | 209761 | 203315 | 209762 | 209763 |        | 206137 | 203813 |        | 223150 |        | 203327 |
|      | HE50 |            | 223132 | 223136 | 203801 | 203317 |        | 209764 | 209765 |        | 203323 | 223154 | 203328 |
| 24   | HE25 |            | 203342 | 223168 | 223174 |        |        | 223179 | 223181 |        | 223183 |        | 223186 |
|      | HE30 | 203837     | 206145 |        | 206148 | 203845 |        | 203848 | 209777 |        | 223184 |        |        |
|      | HE35 | 203838     | 206146 | 203842 | 206149 | 203846 |        | 203849 | 203853 |        | 203361 |        | 223187 |
|      | HE40 | 203839     | 206147 | 203843 | 203844 | 203349 |        | 203850 | 203854 |        | 203856 |        | 209778 |
|      | HE45 | 203840     | 203841 | 223170 | 206150 | 203350 |        | 206151 | 203855 |        | 203362 |        | 203371 |
|      | HE50 |            | 203343 | 223171 | 209774 | 209775 |        | 209776 | 223182 |        | 203363 |        | 209779 |
|      | HE60 | 223166     | 203344 | 223172 | 203346 | 203352 |        | 203355 | 203359 |        | 203364 |        | 203373 |
| 30   | HE30 |            | 203886 |        | 203891 | 203895 |        | 223200 |        |        |        |        | 223208 |
|      | HE35 | 203883     | 209960 |        | 203892 | 203896 |        | 203900 |        |        |        |        |        |
|      | HE40 | 203884     | 203888 | 203890 | 209784 | 203897 |        | 203901 |        |        | 223206 |        |        |
|      | HE45 | 203885     | 209782 |        | 203894 | 203898 |        | 209786 | 203905 |        | 203408 |        | 223209 |
|      | HE50 |            | 203393 | 209783 | 209785 | 223198 |        | 203402 | 223204 |        | 203409 | 223207 | 223210 |
|      | HE60 | 223193     | 203394 | 223195 | 203398 | 203401 |        | 203403 | 203406 |        | 203410 |        | 203414 |
| 36   | HE30 |            |        |        |        |        |        |        |        |        |        |        |        |
|      | HE35 |            |        |        |        |        |        |        |        |        |        |        |        |
|      | HE40 |            | 203474 |        | 223213 |        |        | 223219 |        |        |        | 223224 | 223225 |
|      | HE45 |            |        |        | 203475 |        |        | 223220 |        |        |        |        |        |
|      | HE50 |            |        |        | 223214 | 223217 |        | 223221 |        |        |        |        | 223226 |
|      | HE60 |            |        |        | 203437 | 223218 |        | 203438 |        |        | 203441 |        | 223227 |
| HE70 |      |            |        | 223215 |        |        | 203439 |        |        | 223223 |        | 223228 |        |

Conveyor Components

Engineering

Part Number Index

Keyword Index





**HE Heavy Duty Straight Drum Pulley Part Numbers**

| Dia  | Hub  | Face Width |        |        |        |        |        |        |        |        |        |        |
|------|------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|      |      | 10         | 12     | 14     | 16     | 18     | 20     | 24     | 26     | 28     | 30     | 32     |
| 6    | HE25 |            | 223230 | 209800 |        | 209801 | 209802 |        | 209803 |        |        | 223231 |
| 8    | HE25 | 223233     | 223234 | 223235 | 223236 | 223237 | 223238 |        | 223239 |        | 223240 | 209810 |
|      | HE30 |            |        |        |        |        |        |        |        |        |        |        |
|      | HE35 |            |        |        |        |        |        |        |        |        |        |        |
| 10   | HE25 |            |        |        |        |        | 209814 |        | 209815 |        |        | 209816 |
|      | HE30 |            |        |        |        |        |        |        |        |        |        | 223245 |
|      | HE35 |            |        |        |        |        |        |        |        |        |        |        |
| 12   | HE25 |            |        |        |        | 209818 | 209819 | 223250 | 209820 | 223252 |        | 223253 |
|      | HE30 |            |        |        |        |        |        |        | 223251 |        |        | 209821 |
|      | HE35 |            |        |        |        |        |        |        |        |        |        | 223254 |
|      | HE40 |            |        |        |        |        |        |        |        |        |        |        |
|      | HE45 |            |        |        |        |        |        |        |        |        |        |        |
| 14   | HE25 |            |        |        |        |        |        |        | 209826 |        |        | 209827 |
|      | HE30 |            |        |        |        |        |        |        | 223262 |        |        | 223263 |
|      | HE35 |            |        |        |        |        |        |        |        |        |        |        |
|      | HE40 |            |        |        |        |        |        |        |        |        |        |        |
|      | HE45 |            |        |        |        |        |        |        |        |        |        |        |
| 16   | HE25 |            |        |        |        |        | 223275 |        | 223277 | 223280 |        | 209832 |
|      | HE30 |            |        |        |        |        | 223276 |        | 209831 | 223281 |        | 223283 |
|      | HE35 |            |        |        |        |        |        |        | 223278 | 223282 |        | 223284 |
|      | HE40 |            |        |        |        |        |        |        | 223279 |        |        | 209833 |
|      | HE45 |            |        |        |        |        |        |        |        |        |        | 223285 |
|      | HE50 |            |        |        |        |        |        |        |        |        |        |        |
| 18   | HE25 |            |        |        |        |        |        |        | 223307 | 223308 |        | 223311 |
|      | HE30 |            |        |        |        |        |        |        | 209843 | 223309 | 209845 | 223312 |
|      | HE35 |            |        |        |        |        |        |        | 209844 | 223310 |        | 209846 |
|      | HE40 |            |        |        |        |        |        |        |        |        |        | 223313 |
|      | HE45 |            |        |        |        |        |        |        |        |        |        | 223314 |
|      | HE50 |            |        |        |        |        |        |        |        |        |        |        |
|      | HE60 |            |        |        |        |        |        |        |        |        |        |        |
| 20   | HE25 |            |        |        |        |        |        |        | 223361 |        |        | 223366 |
|      | HE30 |            |        |        |        |        |        |        | 223362 |        |        | 223367 |
|      | HE35 |            |        |        |        |        |        |        | 209852 | 223363 |        | 223368 |
|      | HE40 |            |        |        |        |        |        |        |        | 223364 |        | 223369 |
|      | HE45 |            |        |        |        |        |        |        |        |        |        | 223370 |
|      | HE50 |            |        |        |        |        |        |        |        |        |        | 223371 |
|      | HE60 |            |        |        |        |        |        |        |        | 223365 |        |        |
| HE70 |      |            |        |        |        |        |        |        |        |        |        |        |



## HE Heavy Duty Straight Drum Pulley Part Numbers (continued)

| Dia | Hub  | Face Width |        |        |        |        |        |        |        |        |        |        |
|-----|------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|     |      | 34         | 36     | 38     | 40     | 44     | 46     | 51     | 54     | 57     | 60     | 63     |
| 6   | HE25 |            |        | 209804 | 223232 | 209805 |        |        |        | 209806 | 209807 | 209808 |
| 8   | HE25 |            |        | 209811 |        | 223242 |        | 209812 |        | 223244 |        | 209813 |
|     | HE30 |            |        |        |        |        |        | 223243 |        |        |        |        |
|     | HE35 |            |        | 223241 |        |        |        |        |        |        |        |        |
| 10  | HE25 |            |        | 209817 |        | 223246 |        |        |        |        |        | 223248 |
|     | HE30 |            |        |        |        |        | 223247 |        |        |        |        | 223249 |
|     | HE35 |            |        |        |        |        |        |        |        |        |        |        |
| 12  | HE25 |            |        |        |        | 209823 |        | 223258 |        |        |        | 209825 |
|     | HE30 |            |        | 209822 |        |        | 223257 | 209824 | 223259 | 223260 |        |        |
|     | HE35 |            |        | 223255 |        |        |        |        |        |        |        |        |
|     | HE40 |            |        |        |        |        |        |        |        |        |        |        |
|     | HE45 |            |        |        |        | 223256 |        |        |        |        |        |        |
| 14  | HE25 |            |        | 209828 |        |        |        |        |        |        |        |        |
|     | HE30 |            |        | 223265 |        | 209829 |        |        | 223271 |        |        | 209830 |
|     | HE35 |            | 223264 | 223266 |        | 223268 |        |        |        |        |        | 223272 |
|     | HE40 |            |        | 223267 |        | 223269 |        |        |        |        |        |        |
|     | HE45 |            |        |        |        |        |        |        |        |        |        | 223273 |
|     | HE50 |            |        |        |        |        |        |        |        |        |        | 223274 |
| 16  | HE25 |            |        | 209835 |        |        |        | 209839 |        |        |        |        |
|     | HE30 | 209834     |        | 209836 | 223290 | 223293 | 223294 | 223301 |        |        | 209841 |        |
|     | HE35 |            |        | 223287 | 223291 | 209837 | 223295 | 209840 |        |        |        | 209842 |
|     | HE40 | 223286     |        |        | 223292 | 209838 | 223296 | 223302 |        | 223305 |        | 223306 |
|     | HE45 |            |        | 223289 |        |        | 223297 | 223303 |        |        |        |        |
|     | HE50 |            |        |        |        |        | 223298 | 223304 |        |        |        |        |
|     | HE60 |            |        |        |        |        | 223299 |        |        |        |        |        |
| 18  | HE25 |            |        | 223319 | 223324 |        | 223334 | 223340 | 223345 |        |        | 223355 |
|     | HE30 |            |        | 223320 | 223325 | 223330 | 223335 |        |        |        |        |        |
|     | HE35 |            | 223315 | 209847 | 223326 | 209848 | 223336 | 223341 | 223346 | 223351 |        | 209851 |
|     | HE40 |            | 223316 | 223321 | 223327 | 223331 | 223337 | 223342 | 223347 | 223352 |        | 223356 |
|     | HE45 |            | 223317 | 223322 | 223328 | 209849 |        | 223343 | 223348 |        |        | 223357 |
|     | HE50 |            | 223318 | 223323 | 223329 | 223332 |        | 209850 | 223349 | 223353 |        | 223358 |
|     | HE60 |            |        |        |        | 223333 |        | 223344 | 223350 | 223354 |        | 223359 |
|     | HE70 |            |        |        |        |        |        |        |        |        |        | 223360 |
| 20  | HE25 |            |        |        | 223380 | 223386 |        | 223398 |        |        |        |        |
|     | HE30 |            |        | 223375 | 223381 | 223387 | 223391 | 223399 | 223405 |        |        |        |
|     | HE35 | 223372     |        | 223376 | 223382 | 223388 | 223392 | 223400 |        | 223407 |        | 223409 |
|     | HE40 |            |        | 223377 | 209853 | 223389 | 223393 | 223401 | 209855 |        |        | 223410 |
|     | HE45 |            |        | 223378 | 223383 | 223390 | 223394 | 223402 |        |        |        | 223411 |
|     | HE50 | 223373     | 223374 | 223379 | 223384 | 209854 | 223395 | 223403 | 223406 |        |        | 223412 |
|     | HE60 |            |        |        | 223385 |        | 223396 |        |        |        |        |        |
|     | HE70 |            |        |        |        |        |        | 223404 |        |        |        |        |

Conveyor Components

Engineering

Part Number Index

Keyword Index



# SELECTION

## HE Heavy Duty Straight Drum Pulley Part Numbers (continued)

| Dia | Hub  | Face Width |    |    |    |    |    |    |    |    |    |    |        |
|-----|------|------------|----|----|----|----|----|----|----|----|----|----|--------|
|     |      | 10         | 12 | 14 | 16 | 18 | 20 | 24 | 26 | 28 | 30 | 32 |        |
| 24  | HE25 |            |    |    |    |    |    |    |    |    |    |    | 223415 |
|     | HE30 |            |    |    |    |    |    |    |    |    |    |    | 223416 |
|     | HE35 |            |    |    |    |    |    |    |    |    |    |    | 223417 |
|     | HE40 |            |    |    |    |    |    |    |    |    |    |    |        |
|     | HE45 |            |    |    |    |    |    |    |    |    |    |    | 223418 |
|     | HE50 |            |    |    |    |    |    |    |    |    |    |    | 223419 |
|     | HE60 |            |    |    |    |    |    |    |    |    |    |    |        |
|     | HE70 |            |    |    |    |    |    |    |    |    |    |    |        |
| 30  | HE25 |            |    |    |    |    |    |    |    |    |    |    |        |
|     | HE30 |            |    |    |    |    |    |    |    |    |    |    |        |
|     | HE35 |            |    |    |    |    |    |    |    |    |    |    |        |
|     | HE40 |            |    |    |    |    |    |    |    |    |    |    |        |
|     | HE45 |            |    |    |    |    |    |    |    |    |    |    |        |
|     | HE50 |            |    |    |    |    |    |    |    |    |    |    |        |
|     | HE60 |            |    |    |    |    |    |    |    |    |    |    |        |
|     | HE70 |            |    |    |    |    |    |    |    |    |    |    |        |
| 36  | HE35 |            |    |    |    |    |    |    |    |    |    |    |        |
|     | HE40 |            |    |    |    |    |    |    |    |    |    |    |        |
|     | HE45 |            |    |    |    |    |    |    |    |    |    |    |        |
|     | HE50 |            |    |    |    |    |    |    |    |    |    |    |        |
|     | HE60 |            |    |    |    |    |    |    |    |    |    |    |        |
|     | HE70 |            |    |    |    |    |    |    |    |    |    |    |        |

| Dia | Hub  | Face Width |        |        |        |        |        |        |        |        |        |    |        |
|-----|------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|--------|
|     |      | 34         | 36     | 38     | 40     | 44     | 46     | 51     | 54     | 57     | 60     | 63 |        |
| 24  | HE25 |            |        |        | 223426 |        | 223437 | 223443 |        |        |        |    |        |
|     | HE30 |            |        |        | 223427 |        |        |        | 223449 |        |        |    |        |
|     | HE35 |            |        | 223420 | 223428 | 223433 | 223438 | 223444 | 223450 | 223454 |        |    | 223460 |
|     | HE40 |            |        | 223421 | 223429 | 223434 | 223439 | 223445 | 223451 | 223455 |        |    |        |
|     | HE45 |            |        | 223422 | 223430 | 223435 | 223440 | 223446 | 223452 | 223456 |        |    | 223461 |
|     | HE50 |            |        | 223423 | 223431 | 209856 |        | 209857 |        | 223457 |        |    | 223462 |
|     | HE60 |            |        | 223424 | 223432 | 223436 |        | 223447 | 223453 | 223458 | 223459 |    | 223463 |
|     | HE70 |            |        | 223425 |        |        |        | 223448 |        |        |        |    | 223464 |
| 30  | HE25 |            |        |        |        |        |        |        |        |        |        |    |        |
|     | HE30 |            |        |        |        |        |        |        |        |        |        |    |        |
|     | HE35 |            |        |        |        |        |        |        |        | 223484 |        |    |        |
|     | HE40 |            |        |        |        | 223472 |        |        |        |        |        |    |        |
|     | HE45 |            |        | 223467 |        |        |        |        |        |        |        |    | 223487 |
|     | HE50 |            |        | 223468 |        | 223473 |        |        | 223481 |        |        |    | 223488 |
|     | HE60 |            |        | 223469 |        | 223474 |        | 223479 | 223482 | 223485 |        |    | 223489 |
|     | HE70 |            | 223466 |        |        | 223475 | 223477 | 223480 |        |        |        |    | 223490 |
| 36  | HE35 |            |        |        |        |        |        |        |        |        |        |    |        |
|     | HE40 |            |        |        |        |        |        |        |        |        |        |    |        |
|     | HE45 |            |        |        |        |        |        |        |        |        |        |    |        |
|     | HE50 |            |        |        |        |        |        |        | 223496 | 223497 |        |    |        |
|     | HE60 |            |        |        |        |        |        |        |        | 223498 |        |    | 223499 |
|     | HE70 |            |        |        |        | 223492 |        | 223493 | 223494 |        |        |    | 223500 |

# SELECTION



## HE Heavy Duty Crown Drum Pulleys with Lagging Part Numbers

| Dia | Hub  | Lagging | Face Width |        |        |        |        |        |        |        |        |        |  |  |
|-----|------|---------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
|     |      |         | 12         | 14     | 18     | 20     | 26     | 32     | 38     | 44     | 51     | 63     |  |  |
| 6   | HE25 | 3/8 HBG |            |        |        | 209896 |        |        |        |        |        |        |  |  |
| 8   | HE25 | 3/8 HBG |            |        |        |        | 209897 |        |        |        |        |        |  |  |
| 10  | HE25 | 3/8 HBG |            |        |        |        | 209898 | 209899 | 203911 | 209900 | 209902 |        |  |  |
|     | HE30 | 3/8 HBG |            |        |        |        |        | 207971 | 207973 | 209901 |        |        |  |  |
| 12  | HE25 | 3/8 HBG |            |        |        | 209903 | 209904 | 209905 | 209906 | 224508 |        | 203473 |  |  |
|     | HE30 | 3/8 HBG |            |        |        |        | 206105 | 206106 | 209907 | 209909 | 209910 |        |  |  |
|     | HE35 | 3/8 HBG |            |        |        |        |        |        | 209908 |        | 209911 | 207578 |  |  |
| 14  | HE25 | 3/8 HBG |            |        |        | 209912 | 207954 | 207950 | 207951 | 207205 | 207952 | 207953 |  |  |
|     | HE30 | 3/8 HBG |            |        |        |        | 209913 | 209914 | 209915 | 209916 | 209918 |        |  |  |
|     | HE35 | 3/8 HBG |            |        |        |        | 205669 |        | 205670 | 209917 | 209919 |        |  |  |
| 16  | HE25 | 3/8 HBG |            |        |        | 209920 | 207206 | 205671 | 207209 | 205673 |        |        |  |  |
|     | HE30 | 3/8 HBG |            |        |        |        | 207207 | 207208 | 207210 | 209922 | 209923 |        |  |  |
|     | HE35 | 3/8 HBG |            |        |        |        | 206054 | 206075 | 206076 | 208923 | 205675 |        |  |  |
|     | HE40 | 3/8 HBG |            |        |        |        |        | 205672 | 209921 | 205674 | 205676 |        |  |  |
| 18  | HE25 | 3/8 HBG |            |        |        |        |        | 209924 |        |        |        |        |  |  |
|     | HE30 | 3/8 HBG |            |        |        |        | 207211 | 207212 | 207213 |        | 205520 |        |  |  |
|     | HE35 | 3/8 HBG |            |        |        |        | 206107 | 206077 | 206108 | 209927 | 205521 | 205523 |  |  |
|     | HE40 | 3/8 HBG |            |        |        |        |        | 209925 | 209926 | 209928 | 205522 | 205524 |  |  |
| 20  | HE25 | 3/8 HBG |            |        |        |        | 209929 | 209932 |        |        |        |        |  |  |
|     | HE30 | 3/8 HBG |            |        |        |        | 209930 | 207214 | 209934 |        |        |        |  |  |
|     | HE35 | 3/8 HBG |            |        |        |        | 209931 | 209933 | 209935 |        | 205527 | 205528 |  |  |
|     | HE40 | 3/8 HBG |            |        |        |        | 206078 | 206079 | 206088 | 205985 | 209936 |        |  |  |
|     | HE45 | 3/8 HBG |            |        |        |        |        |        | 209983 |        |        |        |  |  |
| 24  | HE25 | 3/8 HBG | 203912     |        |        |        |        |        |        |        |        |        |  |  |
|     | HE30 | 3/8 HBG |            | 203913 |        |        |        | 209937 |        |        |        |        |  |  |
|     | HE35 | 3/8 HBG |            |        | 203914 |        | 207977 | 209938 | 209939 |        | 205530 |        |  |  |
|     | HE40 | 3/8 HBG |            |        |        |        | 207978 | 207215 | 207216 | 209940 | 209941 | 205532 |  |  |
|     | HE45 | 3/8 HBG |            |        |        | 206017 | 206018 | 206019 | 206053 | 205531 | 205533 |        |  |  |

Conveyor Components

Engineering

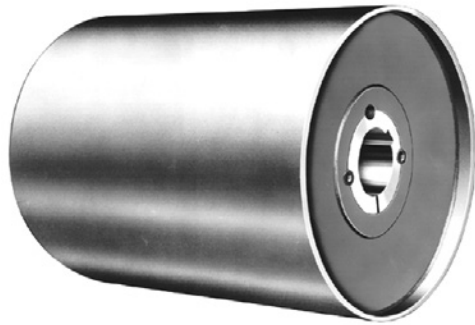
Part Number Index

Keyword Index



# SELECTION/DIMENSIONS

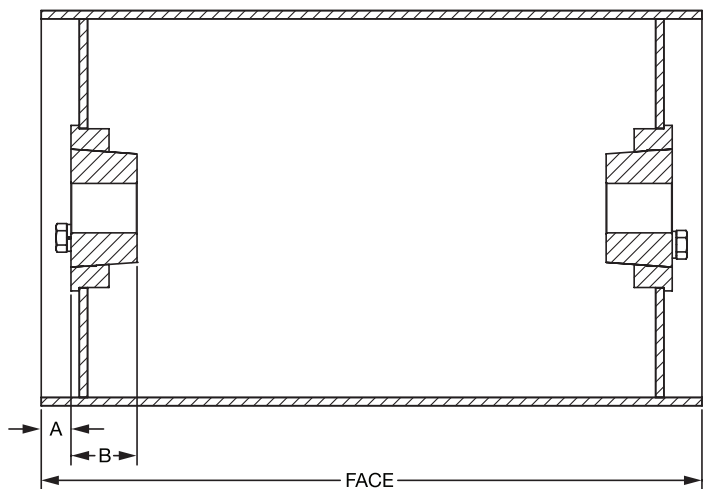
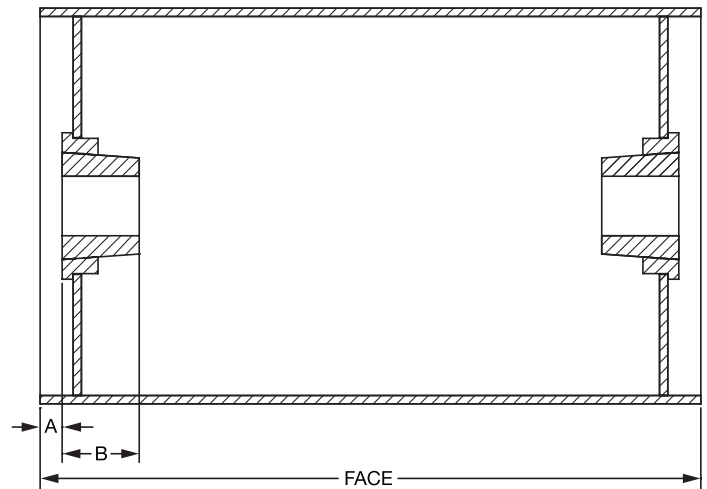
## TAPER-LOCK Heavy Duty Drum Pulleys



- Designed to CEMA specifications
- Standard crown face or straight face available
- 6" - 60" diameter and face widths exceeding 100". Others available upon request.
- Flush mount, compact design mounting system
- One piece die formed rim through 18"
- Rolled rim over 18"
- Available from stock

### TAPER-LOCK Dimensions

| Hub  | A     | B     | Bushing | Max. Bore | Screw Torque (in.-lb.) |
|------|-------|-------|---------|-----------|------------------------|
| K25  | 1     | 1-3/4 | 2517    | 2-1/2     | 430                    |
| F25  | 1     | 1-3/4 | 2517    | 2-1/2     | 430                    |
| F30  | 1     | 2     | 3020    | 3         | 800                    |
| K35  | 1     | 3-1/2 | 3535    | 3-1/2     | 1000                   |
| K40  | 1     | 4     | 4040    | 4         | 1700                   |
| K45  | 1     | 4-1/2 | 4545    | 4-1/2     | 2450                   |
| K50  | 1     | 5     | 5050    | 5         | 3100                   |
| K60  | 2-1/4 | 5     | 6050    | 6         | 7820                   |
| K70  | 2-1/4 | 6     | 7060    | 7         | 7820                   |
| K80  | 2-1/4 | 6-1/2 | 8065    | 8         | 7820                   |
| K100 | 2-1/4 | 8-1/2 | 10085   | 10        | 13700                  |
| K120 | 2-1/4 | 10    | 120100  | 12        | 13700                  |





## Taper-Lock Heavy Duty Crown Drum Pulley Part Numbers

| Dia | Hub | Face Width |        |        |        |        |        |        |        |        |        |        |
|-----|-----|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|     |     | 10         | 12     | 14     | 16     | 18     | 20     | 22     | 24     | 26     | 30     | 32     |
| 6   | F25 |            | 204505 | 204506 | 204507 | 204508 | 204509 | 204510 | 204511 | 204512 | 204514 | 204515 |
| 8   | F25 | 204417     | 204524 | 204525 |        |        | 204528 |        |        | 204531 |        | 204534 |
|     | F30 |            |        |        |        |        |        |        |        |        |        |        |
|     | K35 |            |        |        |        |        |        |        |        |        |        |        |
| 10  | K25 |            | 204549 | 204550 | 204551 | 204552 | 204553 | 204554 | 204555 | 204556 | 204558 | 204559 |
|     | F30 |            |        |        |        | 205050 | 205051 | 205052 | 205053 | 205054 | 205056 |        |
|     | K35 |            |        |        |        |        |        | 205123 | 205124 | 205125 |        |        |
| 12  | K25 |            | 204574 | 204575 | 204576 | 204577 | 204578 | 204579 | 204580 | 204581 | 204582 | 204584 |
|     | F30 |            |        |        |        | 204760 | 205063 | 205064 | 204700 | 205065 | 204701 |        |
|     | K35 |            |        |        |        | 205132 | 205133 | 205134 | 205135 | 205136 | 205137 |        |
|     | K40 |            |        |        |        |        |        |        |        |        | 205225 |        |
|     | K45 |            |        |        |        |        |        |        |        |        |        |        |
| 14  | K25 |            | 204599 | 204600 | 204601 | 204602 | 204603 | 204604 | 204605 | 204606 | 204608 | 204609 |
|     | F30 |            |        |        |        | 205070 | 205071 | 205072 | 205073 |        | 204266 |        |
|     | K35 |            |        |        |        |        | 205145 |        | 205147 | 205148 | 205149 |        |
|     | K40 |            |        |        |        |        |        |        | 205234 |        |        |        |
|     | K45 |            |        |        |        |        |        |        |        |        |        |        |
| 16  | K25 |            | 204623 | 204624 | 204625 | 204626 | 204627 | 204628 | 204629 | 204630 | 204632 | 204633 |
|     | F30 |            |        |        |        | 204706 | 205080 |        |        | 204707 | 205082 | 204708 |
|     | K35 |            |        |        |        | 205156 |        |        |        | 205159 |        | 205161 |
|     | K40 |            |        |        |        |        |        |        |        | 205246 |        | 205248 |
|     | K45 |            |        |        |        |        |        |        |        |        |        |        |
| 18  | K25 |            | 204649 | 204650 | 204651 | 204652 | 204653 | 204654 | 204655 | 204656 | 204658 | 204659 |
|     | F30 |            |        |        |        | 204353 | 205086 | 205087 | 205088 | 204713 | 205089 | 204714 |
|     | K35 |            |        |        |        |        | 205165 |        |        | 205168 | 205169 | 205170 |
|     | K40 |            |        |        |        |        | 205252 |        |        | 205255 | 205256 | 205257 |
|     | K45 |            |        |        |        |        |        |        |        | 205332 |        | 205334 |
|     | K50 |            |        |        |        |        |        |        |        |        |        |        |
| 20  | K25 |            | 204672 | 204673 |        | 204675 | 204676 | 204677 |        | 204679 | 204681 | 204682 |
|     | F30 |            |        |        |        |        | 204719 | 205094 | 205095 | 204720 | 205096 | 204721 |
|     | K35 |            |        |        |        |        | 205175 | 205176 | 205177 | 204424 | 205178 | 204425 |
|     | K40 |            |        |        |        |        | 205264 | 205265 |        | 205267 | 205268 | 205269 |
|     | K45 |            |        |        |        |        | 205341 |        | 205343 | 205344 | 205345 | 205346 |
|     | K50 |            |        |        |        |        |        |        |        |        |        |        |
|     | K60 |            |        |        |        |        |        |        |        |        |        |        |
| K70 |     |            |        |        |        |        |        |        |        |        |        |        |

Conveyor Components

Engineering

Part Number Index

Keyword Index





## Taper-Lock Heavy Duty Crown Drum Pulley Part Numbers (cont)

| Dia | Hub | Face Width |        |        |        |        |        |        |        |        |        |        |
|-----|-----|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|     |     | 34         | 36     | 38     | 40     | 44     | 46     | 48     | 51     | 54     | 57     | 63     |
| 6   | F25 |            | 204517 | 204518 |        |        | 204520 | 204339 |        | 204522 |        | 204342 |
| 8   | F25 |            |        | 204537 |        | 204538 | 204539 |        |        |        |        | 204346 |
|     | F30 |            |        |        |        |        |        |        |        |        |        |        |
|     | K35 |            |        |        |        |        |        |        |        |        |        |        |
| 10  | K25 |            | 204561 | 204562 |        | 204565 | 204566 |        | 204568 | 204571 |        |        |
|     | F30 |            | 205057 | 205058 |        | 205059 | 205060 |        | 205061 |        |        |        |
|     | K35 |            |        | 205127 |        | 205128 | 205129 |        |        |        |        |        |
| 12  | K25 |            | 204586 | 204587 |        | 204590 | 204591 |        | 204593 |        |        |        |
|     | F30 |            | 205066 | 204702 |        | 204703 | 205067 |        | 205068 |        |        |        |
|     | K35 |            | 205138 | 205139 |        | 205140 | 205141 |        | 205142 |        |        |        |
|     | K40 |            |        | 205227 | 204349 | 205228 | 204275 |        | 205229 | 205230 |        |        |
|     | K45 |            |        |        |        |        |        |        |        |        |        |        |
| 14  | K25 |            | 204611 | 204612 |        | 204615 |        |        | 204618 |        |        |        |
|     | F30 |            | 205075 | 205076 |        | 204761 |        |        | 205078 |        |        |        |
|     | K35 |            | 205150 | 205151 |        | 205152 | 205153 |        | 205154 |        |        |        |
|     | K40 |            |        |        | 204265 | 205240 | 204276 |        | 205241 |        |        |        |
|     | K50 |            |        | 205312 |        |        |        |        |        |        |        |        |
| 16  | K25 |            | 204635 | 204636 |        | 204639 | 204640 |        | 204642 |        |        |        |
|     | F30 |            | 205083 | 204709 |        | 204710 |        | 204267 | 205085 |        |        |        |
|     | K35 |            | 205162 | 204268 |        | 205163 |        | 204269 |        |        |        |        |
|     | K40 |            |        | 204277 |        | 204278 |        | 205250 | 205251 |        |        |        |
|     | K45 |            |        |        |        | 205325 |        | 205327 | 205328 |        |        |        |
|     | K60 |            |        |        |        |        |        |        |        |        |        |        |
| 18  | K25 |            | 204661 | 204662 |        | 204665 | 204666 |        | 204668 | 204669 |        |        |
|     | F30 | 204354     | 205090 | 204715 | 204357 | 204716 | 205091 |        | 205092 | 205093 |        |        |
|     | K35 | 204355     | 205171 | 204270 | 204358 | 204271 | 205172 |        | 203099 |        | 223504 |        |
|     | K40 | 204356     | 205258 | 204280 |        | 204281 | 205261 |        | 205262 | 205263 |        |        |
|     | K45 |            |        | 205336 |        | 205337 | 205338 |        | 205339 | 205340 |        |        |
|     | K50 |            |        | 223503 |        |        | 204359 |        |        |        |        |        |
|     | K60 |            |        |        |        |        |        |        |        |        |        |        |
| 20  | K25 |            | 204684 | 204685 |        | 204687 |        |        |        |        |        |        |
|     | F30 |            | 205097 | 204722 |        | 204723 | 205098 |        | 204724 |        |        |        |
|     | K35 | 204754     | 205179 | 204426 |        | 204427 | 204769 |        | 205180 | 205181 |        |        |
|     | K40 |            | 205270 | 204282 |        | 204283 | 205273 |        | 204284 | 205275 |        |        |
|     | K45 |            | 205347 | 205348 |        | 205349 | 203096 |        | 205350 | 205351 |        |        |
|     | K50 |            |        |        |        | 204362 | 204770 |        |        |        |        |        |
|     | K60 |            |        |        |        |        |        |        |        |        |        |        |
| K70 |     |            |        |        |        |        |        |        |        |        |        |        |



## Taper-Lock Heavy Duty Crown Drum Pulley Part Numbers (cont)

| Dia | Hub | Face Width |        |        |        |        |        |        |        |        |        |        |
|-----|-----|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|     |     | 10         | 12     | 14     | 16     | 18     | 20     | 22     | 24     | 26     | 30     | 32     |
| 24  | K25 | 204365     | 204727 | 204728 | 204729 | 204730 | 204731 | 204732 | 204733 | 204734 | 204735 | 204736 |
|     | F30 |            |        |        |        |        | 204428 |        |        | 204429 |        | 204430 |
|     | K35 |            |        |        |        |        | 205276 |        |        | 204772 |        | 204285 |
|     | K40 |            |        |        |        |        | 205352 |        |        | 205355 |        | 204290 |
|     | K45 |            |        |        |        |        |        |        |        |        |        |        |
|     | K50 |            |        |        |        |        |        |        |        |        |        |        |
|     | K60 |            |        |        |        |        |        |        |        |        |        |        |
|     | K70 |            |        |        |        |        |        |        |        |        |        |        |
| K80 |     |            |        |        |        |        |        |        |        |        |        |        |
| 30  | K25 |            |        | 204744 | 204745 | 204746 | 204747 | 204748 | 205102 | 204749 | 205290 | 204750 |
|     | F30 |            |        | 205188 | 204435 | 204436 |        |        |        |        |        |        |
|     | K35 |            |        | 205286 | 205289 | 205291 |        |        |        |        |        |        |
|     | K40 |            |        | 205363 | 205365 | 205368 |        |        |        |        |        |        |
|     | K45 |            |        |        |        |        |        |        |        |        |        |        |
|     | K50 |            |        |        |        |        |        |        |        |        |        |        |
|     | K60 |            |        |        |        |        |        |        |        |        |        |        |
|     | K70 |            |        |        |        |        |        |        |        |        |        |        |
| K80 |     |            |        |        |        |        |        |        |        |        |        |        |
| 36  | K35 |            |        |        | 204780 |        |        |        |        |        |        |        |
|     | K40 |            |        |        |        |        |        |        |        |        |        |        |
|     | K45 |            |        |        |        |        |        |        |        |        |        |        |
|     | K50 |            |        |        |        |        |        |        |        |        |        |        |
|     | K60 |            |        |        |        |        |        |        |        |        |        |        |
|     | K70 |            |        |        |        |        |        |        |        |        |        |        |
| K80 |     |            |        |        |        |        |        |        |        |        |        |        |

| Dia | Hub | Face Width |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
|-----|-----|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|--|--|
|     |     | 34         | 36     | 38     | 40     | 44     | 46     | 48     | 51     | 54     | 57     | 63     |        |  |  |  |  |
| 24  | K25 |            | 204738 | 204739 | 204366 | 204740 | 205100 | 204774 | 204741 | 205101 | 204368 |        |        |  |  |  |  |
|     | F30 |            |        | 204431 |        | 204432 | 205186 |        |        | 204272 |        | 205187 |        |  |  |  |  |
|     | K35 |            |        | 204286 |        | 204287 | 204773 |        |        | 204288 |        | 205285 |        |  |  |  |  |
|     | K40 |            |        | 204291 |        | 204292 |        |        |        | 204293 |        | 205362 |        |  |  |  |  |
|     | K45 |            |        | 204295 |        |        |        |        |        | 204779 |        |        |        |  |  |  |  |
|     | K50 |            |        | 204946 |        |        |        |        |        | 204329 |        |        |        |  |  |  |  |
|     | K60 |            |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
|     | K70 |            |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
| K80 |     |            |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
| 30  | K25 |            |        | 204751 | 204369 | 205105 | 205192 | 204381 | 205193 | 205296 | 205374 |        |        |  |  |  |  |
|     | F30 |            |        | 204437 |        | 204438 |        |        |        |        |        | 205295 | 205373 |  |  |  |  |
|     | K35 |            |        | 205293 |        | 205294 |        |        |        |        |        | 205295 |        |  |  |  |  |
|     | K40 |            |        | 205370 |        | 205371 |        |        |        |        |        | 205372 |        |  |  |  |  |
|     | K45 |            |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
|     | K50 |            |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
|     | K60 |            |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
|     | K70 |            |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
| K80 |     |            |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
| 36  | K35 |            |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
|     | K40 |            |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
|     | K45 |            |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
|     | K50 |            |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
|     | K60 |            |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
|     | K70 |            |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |
| K80 |     |            |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |



# SELECTION/DIMENSIONS

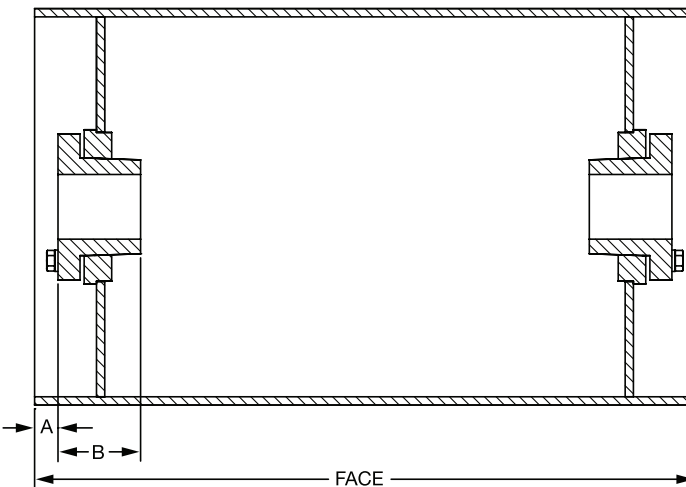
## QD Heavy Duty Drum Pulleys



- Designed to CEMA specifications
- Standard crown face or straight face available
- 6" - 60" diameter and face widths exceeding 100". Others available upon request.
- Flange mount bushing system
- One piece die formed rim through 18"
- Rolled rim over 18"
- Available from stock

| QD Hub | A      | B       | Bushing | Max. Bore* | Screw Torque (in.-lb.) |
|--------|--------|---------|---------|------------|------------------------|
| SF     | 7/8    | 2-1/16  | SF      | 2-1/2      | 360                    |
| E      | 1      | 2-3/4   | E       | 3          | 720                    |
| F      | 1-1/16 | 3-3/4   | F       | 3-1/2      | 900                    |
| JS     | 1-1/8  | 3-3/8   | J       | 4          | 1620                   |
| MS     | 1-1/4  | 4-13/16 | M       | 4-1/2      | 2700                   |
| NS     | 1-5/16 | 6       | N       | 5          | 3600                   |
| PS     | 1-3/8  | 6-1/2   | P       | 6          | 5400                   |
| WS     | 1-9/16 | 7-1/4   | W       | 8          | 7200                   |
| SS     | 1-5/8  | 8-3/4   | S       | 10         | 9000                   |
| ZS     | 1-9/16 | 8-3/4   | Z       | 12         | 7200                   |

\* Maximum recommended for conveyor pulley applications





## QD Heavy Duty Crown Drum Pulley Part Numbers

| Dia | Hub                              | Face Width |        |                      |        |        |  |                            |                            |  |                            |  |
|-----|----------------------------------|------------|--------|----------------------|--------|--------|--|----------------------------|----------------------------|--|----------------------------|--|
|     |                                  | 10         | 12     | 14                   | 16     | 18     | 20                                       | 22                         | 24                         | 26   | 30                         | 32   |
| 6   | SF                               |            | 208301 | 208302               | 208303 | 208304 | 208305                                   | 208306                     | 208307                     | 208308   | 208309                     | 208310   |
| 8   | SF<br>E<br>F                     |            |        |                      |        |        |  |                            |                            |  |                            |  |
| 10  | SF<br>E<br>F                     |            | 208337 | 208338               | 208339 | 208340 | 208341<br>208342                         | 208344<br>208345           | 208347<br>208348           | 207500<br>208350                               | 208352                     | 207501<br>208355<br>208356                     |
| 12  | SF<br>E<br>F<br>J<br>M           |            | 208375 | 208377               | 208378 | 208379 | 207503<br>208380                         | 208383<br>208384<br>208385 | 208387<br>208388<br>208389 | 207504<br>207514<br>208391                     | 208393<br>208394<br>208395 | 207505<br>207515<br>208397<br>208398           |
| 14  | SF<br>E<br>F<br>J<br>M<br>N      |            | 208422 | 208423               | 208424 | 208425 | 208426<br><br>208428                     | 208431<br><br>208433       | 208436<br>208437           | 207507<br>208441<br>208442<br>208443           | 208445                     | 207508<br>208450                               |
| 16  | SF<br>E<br>F<br>J<br>M<br>N<br>P |            | 208474 |                      |        | 208476 | 208477<br>208478<br>208479               | 208482<br><br>208484       | 208487<br>208488<br>208489 | 207510<br>207517<br>208492<br>208493           | 208495<br>208496           | 207511<br>208500<br>208501<br>208502           |
| 18  | SF<br>E<br>F<br>J<br>M<br>N<br>P |            | 208531 | 208532               |        | 208534 | 208536<br>208537<br>208538               | 208541<br><br>208543       | 208546<br>208547<br>208548 | 207513<br>207519<br>208551<br>208552           | 208554<br>208555           | 208559<br>207520<br>207527<br>208561<br>208562 |
| 20  | SF<br>E<br>F<br>J<br>M<br>N<br>P |            | 208597 | 208598<br><br>223528 |        | 208600 | 208602<br>208603<br>208604<br><br>208606 | 208607<br>208608           | 208612<br>208613           | 208617<br>207522<br>207529<br>208618<br>208619 | 208621<br>208622<br>208623 | 208625<br>207523<br>207530<br>208626<br>208627 |



## QD Heavy Duty Crown Drum Pulley Part Numbers (Continued)

| Dia | Hub | Face Width |        |        |        |        |        |        |        |        |        |        |
|-----|-----|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|     |     | 34         | 36     | 38     | 40     | 44     | 46     | 48     | 51     | 54     | 57     | 63     |
| 6   | SF  |            | 208311 | 208312 |        | 208313 | 208314 | 208315 | 208316 |        |        | 208319 |
| 8   | SF  |            | 208330 | 208331 |        |        | 208333 |        | 208334 | 208335 |        | 208336 |
|     | E   |            |        |        |        |        |        |        |        |        |        |        |
|     | F   |            |        |        |        |        |        |        |        |        |        |        |
| 10  | SF  |            | 208357 | 207502 |        | 208363 |        |        | 208369 | 208372 | 223518 | 223519 |
|     | E   |            | 208358 | 208360 |        | 208364 |        |        | 208370 | 208373 |        |        |
|     | F   |            |        | 208361 |        |        |        |        | 208371 |        |        |        |
| 12  | SF  |            | 208399 | 207506 |        | 208406 |        |        | 208414 |        |        |        |
|     | E   |            | 208400 | 207516 |        | 208407 |        |        | 208415 |        |        | 223520 |
|     | F   |            | 208401 | 208403 |        | 208408 |        |        | 208416 |        |        | 223521 |
|     | J   |            |        |        |        | 208409 |        |        | 208417 |        |        |        |
| 14  | M   |            |        |        |        |        |        |        |        |        |        |        |
|     | SF  |            | 208454 | 207509 |        | 208464 | 208469 |        |        |        |        |        |
|     | E   |            |        | 208459 |        | 208465 | 208470 |        | 208794 |        |        | 223523 |
|     | F   |            |        | 208460 |        | 208466 |        |        | 223522 |        |        |        |
|     | J   |            |        | 208461 |        | 208467 |        |        |        |        |        |        |
| 16  | M   |            |        |        |        |        |        |        |        |        |        |        |
|     | N   |            |        |        |        |        |        |        |        |        |        |        |
|     | SF  |            | 208504 | 207512 |        | 208512 | 208517 |        | 208521 |        |        |        |
|     | E   |            | 208505 | 207518 |        | 208513 |        | 208522 | 208527 |        |        | 208800 |
|     | F   |            | 208506 | 207526 |        | 208514 |        | 208523 |        |        |        |        |
|     | J   |            | 208507 | 208510 |        | 208515 |        | 208524 | 208529 | 223524 |        |        |
| 18  | M   |            |        |        |        |        |        |        |        |        |        |        |
|     | N   |            |        |        |        |        |        |        |        |        |        |        |
|     | P   |            |        |        |        |        |        |        |        |        |        |        |
|     | SF  |            | 208566 | 208571 |        | 208577 |        |        | 208587 |        |        |        |
|     | E   | 208563     | 208567 | 207521 | 208575 | 208578 |        |        | 208588 | 208593 |        | 223526 |
|     | F   | 208564     | 208568 | 207528 | 208576 | 208579 | 208584 |        | 208589 |        |        | 208806 |
|     | J   |            | 208569 | 208573 |        | 208580 |        |        | 208590 |        |        | 223527 |
| 20  | M   |            |        |        |        |        |        |        |        |        |        |        |
|     | N   |            |        |        |        |        |        |        |        |        |        |        |
|     | P   |            |        |        |        |        |        |        |        |        |        |        |
|     | SF  |            | 208628 | 208633 |        | 208636 |        |        |        |        |        |        |
|     | E   |            | 208629 | 207524 |        | 208637 | 208643 |        | 208646 |        |        |        |
|     | F   |            |        | 207531 |        | 208638 |        |        | 208647 |        |        |        |
| 20  | J   |            | 208631 | 208634 |        | 208639 | 208644 |        | 208648 |        |        |        |
|     | M   |            |        | 208635 |        | 208640 |        |        | 208649 |        |        |        |
|     | N   |            |        | 223529 |        |        |        |        |        |        | 223530 |        |
| P   |     |            |        |        |        |        |        |        |        |        |        |        |



## QD Heavy Duty Crown Drum Pulley Part Numbers (Continued)

| Dia | Hub | Face Width |        |        |        |        |        |        |        |        |        |
|-----|-----|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|     |     | 10         | 12     | 14     | 16     | 18     | 20     | 22     | 24     | 26     | 30     |
| 24  | SF  | 208654     | 208655 | 208656 | 208657 |        | 208659 | 208664 | 208667 | 208671 | 208673 |
|     | E   |            |        |        |        |        | 208660 |        | 207532 |        |        |
|     | F   |            |        |        |        |        | 208661 |        | 208672 |        |        |
|     | J   |            |        |        |        |        | 208662 |        |        |        |        |
|     | M   |            |        |        |        |        |        |        |        |        |        |
| N   |     |            |        |        |        |        |        |        |        |        |        |
| P   |     |            |        |        |        |        |        |        |        |        |        |
| 30  | SF  |            |        | 208703 | 208704 | 208705 | 208706 |        |        | 208717 | 208723 |
|     | E   |            |        | 208758 |        |        | 208707 |        |        | 208718 |        |
|     | F   |            |        |        |        |        | 208708 |        |        | 208719 |        |
|     | J   |            |        |        |        |        | 208709 |        |        |        |        |
|     | M   |            |        |        |        |        |        |        |        |        |        |
| N   |     |            |        |        |        |        |        |        |        |        |        |
| P   |     |            |        |        |        |        |        |        |        |        |        |
| 36  | SF  |            |        |        |        |        |        |        |        |        |        |
|     | E   |            |        |        |        |        |        |        |        |        |        |
|     | F   |            |        |        |        |        |        |        |        |        |        |
|     | J   |            |        |        |        |        |        |        |        |        |        |
|     | M   |            |        |        |        |        |        |        |        |        |        |
| N   |     |            |        |        |        |        |        |        |        |        |        |
| P   |     |            |        |        |        |        |        |        |        |        |        |

| Dia | Hub    | Face Width |                  |        |                  |        |                  |    |        |                  |    |    |
|-----|--------|------------|------------------|--------|------------------|--------|------------------|----|--------|------------------|----|----|
|     |        | 34         | 36               | 38     | 40               | 44     | 46               | 48 | 51     | 54               | 57 | 63 |
| 24  | SF     |            | 208679<br>208680 | 208683 | 208686<br>208687 | 208688 | 208693           |    | 208694 | 208699<br>208700 |    |    |
|     | E      |            |                  | 207534 |                  | 208689 |                  |    | 208695 |                  |    |    |
|     | F      |            |                  | 208684 |                  | 208690 |                  |    | 208696 |                  |    |    |
|     | J      |            |                  | 208685 |                  | 208691 |                  |    | 208697 |                  |    |    |
|     | M      |            |                  | 223531 |                  | 223533 |                  |    | 223535 |                  |    |    |
| N   | 223532 | 223534     | 223536           |        |                  |        |                  |    |        |                  |    |    |
| P   |        |            |                  |        |                  |        |                  |    |        |                  |    |    |
| 30  | SF     |            |                  | 208731 | 208734           | 208735 | 208740<br>208742 |    | 208743 | 208746<br>208747 |    |    |
|     | E      |            |                  | 207536 |                  | 208736 |                  |    | 208744 |                  |    |    |
|     | F      |            |                  | 208732 |                  | 208737 |                  |    | 208745 |                  |    |    |
|     | J      |            |                  | 208733 |                  | 208738 |                  |    |        |                  |    |    |
|     | M      |            |                  |        |                  |        |                  |    |        |                  |    |    |
| N   |        |            |                  |        |                  |        |                  |    |        |                  |    |    |
| P   |        |            | 223538           |        |                  |        |                  |    |        |                  |    |    |
| 36  | SF     |            |                  |        |                  |        |                  |    |        |                  |    |    |
|     | E      |            |                  |        |                  |        |                  |    |        |                  |    |    |
|     | F      |            |                  |        |                  |        |                  |    |        |                  |    |    |
|     | J      |            |                  |        |                  |        |                  |    |        |                  |    |    |
|     | M      |            |                  |        |                  |        |                  |    |        |                  |    |    |
| N   |        |            |                  |        |                  |        |                  |    |        |                  |    |    |
| P   |        |            |                  |        |                  |        |                  |    |        |                  |    |    |



# SELECTION



## Heavy Duty Drum Pulley Average Weights - HE, TAPER-LOCK, QD

| Dia. | Max. Bore | Face Width |     |     |     |     |     |     |     |     |     |     |
|------|-----------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|      |           | 12         | 14  | 16  | 18  | 20  | 22  | 24  | 26  | 30  | 32  | 36  |
| 6    | 2.5       | 27         | 29  | 31  | 33  | 35  | 37  | 39  | 41  | 45  | 47  | 52  |
| 8    | 2.5       | 34         | 37  | 40  | 42  | 45  | 48  | 51  | 53  | 59  | 62  | 69  |
| 10   | 2.5       | 43         | 46  | 50  | 53  | 56  | 60  | 63  | 67  | 74  | 77  | 88  |
|      | 3         | 49         | 53  | 56  | 60  | 63  | 67  | 70  | 74  | 80  | 84  | 94  |
| 12   | 2.5       | 52         | 56  | 60  | 64  | 69  | 73  | 77  | 81  | 89  | 93  | 107 |
|      | 3         | 60         | 64  | 68  | 72  | 77  | 81  | 85  | 89  | 97  | 102 | 115 |
|      | 3.5       | 75         | 79  | 83  | 87  | 92  | 96  | 100 | 104 | 112 | 116 | 129 |
| 14   | 2.5       | 62         | 67  | 72  | 77  | 82  | 87  | 91  | 96  | 106 | 111 | 128 |
|      | 3         | 62         | 67  | 72  | 77  | 82  | 86  | 91  | 96  | 106 | 111 | 128 |
|      | 3.5       | 85         | 90  | 95  | 100 | 105 | 110 | 114 | 119 | 129 | 134 | 150 |
|      | 4         | 95         | 100 | 105 | 110 | 114 | 119 | 124 | 129 | 139 | 144 | 160 |
| 16   | 2.5       | 67         | 72  | 78  | 83  | 89  | 94  | 100 | 105 | 117 | 122 | 144 |
|      | 3         | 72         | 77  | 83  | 88  | 94  | 99  | 105 | 111 | 122 | 127 | 148 |
|      | 3.5       | 90         | 96  | 101 | 107 | 112 | 118 | 124 | 129 | 140 | 146 | 166 |
|      | 4         | 106        | 112 | 117 | 123 | 129 | 134 | 140 | 145 | 156 | 162 | 182 |
|      | 4.5       | ...        | 126 | 131 | 137 | 142 | 148 | 153 | 159 | 170 | 176 | 195 |
| 18   | 2.5       | 77         | 83  | 89  | 96  | 102 | 108 | 114 | 121 | 133 | 139 | 165 |
|      | 3         | 90         | 97  | 103 | 109 | 115 | 122 | 128 | 134 | 147 | 153 | 178 |
|      | 3.5       | 100        | 107 | 113 | 119 | 125 | 132 | 138 | 144 | 157 | 163 | 188 |
|      | 4         | 123        | 131 | 139 | 148 | 156 | 164 | 173 | 181 | 198 | 206 | 235 |
|      | 4.5       | ...        | 145 | 154 | 162 | 170 | 179 | 187 | 193 | 212 | 220 | 248 |
|      | 5         | ...        | ... | 192 | 201 | 209 | 217 | 226 | 234 | 251 | 259 | 286 |
| 20   | 2.5       | 101        | 111 | 120 | 129 | 138 | 148 | 157 | 166 | 185 | 194 | 229 |
|      | 3         | 117        | 127 | 136 | 145 | 154 | 164 | 173 | 182 | 201 | 210 | 245 |
|      | 3.5       | 125        | 134 | 144 | 153 | 162 | 171 | 181 | 190 | 208 | 218 | 252 |
|      | 4         | 135        | 144 | 154 | 163 | 172 | 181 | 191 | 200 | 218 | 228 | 261 |
|      | 4.5       | ...        | 159 | 168 | 177 | 186 | 196 | 205 | 214 | 233 | 242 | 275 |
|      | 5         | ...        | ... | 207 | 216 | 225 | 234 | 244 | 253 | 271 | 281 | 313 |
| 24   | 3         | 149        | 160 | 171 | 183 | 194 | 205 | 216 | 227 | 249 | 260 | 307 |
|      | 3.5       | 167        | 179 | 190 | 201 | 212 | 223 | 234 | 245 | 268 | 279 | 325 |
|      | 4         | 177        | 188 | 199 | 211 | 222 | 233 | 244 | 255 | 277 | 288 | 334 |
|      | 4.5       | ...        | 202 | 213 | 224 | 235 | 247 | 258 | 269 | 291 | 302 | 347 |
|      | 5         | ...        | ... | 274 | 287 | 301 | 315 | 329 | 343 | 371 | 385 | 434 |
|      | 6         | ...        | ... | ... | 386 | 403 | 419 | 436 | 453 | 486 | 502 | 561 |
| 30   | 3         | 204        | 218 | 232 | 246 | 260 | 274 | 288 | 301 | 329 | 343 | 409 |
|      | 3.5       | 222        | 236 | 250 | 264 | 278 | 292 | 306 | 320 | 348 | 362 | 427 |
|      | 4         | 253        | 270 | 287 | 305 | 344 | 340 | 357 | 374 | 409 | 426 | 498 |
|      | 4.5       | ...        | 284 | 301 | 319 | 336 | 353 | 371 | 388 | 423 | 440 | 512 |
|      | 5         | ...        | ... | 340 | 357 | 374 | 392 | 409 | 427 | 461 | 479 | 550 |
|      | 6         | ...        | ... | ... | 462 | 483 | 504 | 524 | 545 | 587 | 608 | 693 |
|      | 7         | ...        | ... | ... | 536 | 557 | 578 | 598 | 619 | 703 | 724 | 765 |
|      | 8         | ...        | ... | ... | ... | 613 | 634 | 655 | 676 | 758 | 779 | 820 |

- Crown face pulleys will be provided unless straight face is specified
- These pulleys are designed to meet the CEMA Pulley Specification B105.1-1993. They are not to be used with steel cable belts or other high modulus belts.

|                                  |                              |                             |                                      |
|----------------------------------|------------------------------|-----------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT15-2 | SPECIFICATION<br>PAGE PT15-4 | NOMENCLATURE<br>PAGE PT15-7 | SELECTION/DIMENSIONS<br>PAGE PT15-10 |
|----------------------------------|------------------------------|-----------------------------|--------------------------------------|

# SELECTION



## Heavy Duty Drum Pulley Average Weights - HE, TAPER-LOCK, QD

| Face Width |     |     |     |     |      |      |      |      |      |      |      |      |
|------------|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| 38         | 40  | 44  | 46  | 51  | 54   | 57   | 60   | 63   | 66   | 72   | 75   | 78   |
| 54         | 56  | 60  | 62  | 67  | 71   | 74   | 77   | 80   | 83   | 90   | 93   | 96   |
| 72         | 75  | 80  | 83  | 90  | 96   | 100  | 104  | 108  | 112  | 122  | 127  | 131  |
| 91         | 94  | 101 | 105 | 113 | 122  | 127  | 132  | 138  | 143  | 157  | 162  | 167  |
| 97         | 101 | 108 | 111 | 120 | 128  | 133  | 138  | 143  | 149  | 162  | 167  | 172  |
| 111        | 116 | 124 | 128 | 138 | 150  | 156  | 163  | 169  | 175  | 193  | 199  | 205  |
| 119        | 123 | 135 | 139 | 149 | 160  | 167  | 173  | 179  | 185  | 203  | 209  | 215  |
| 134        | 138 | 146 | 150 | 161 | 171  | 178  | 184  | 190  | 196  | 213  | 220  | 226  |
| 133        | 138 | 148 | 153 | 165 | 180  | 187  | 194  | 202  | 209  | 231  | 239  | 246  |
| 133        | 137 | 162 | 166 | 179 | 193  | 200  | 208  | 215  | 222  | 244  | 251  | 259  |
| 155        | 160 | 170 | 175 | 187 | 201  | 208  | 216  | 223  | 230  | 252  | 259  | 266  |
| 164        | 169 | 179 | 184 | 196 | 210  | 217  | 224  | 231  | 239  | 260  | 267  | 274  |
| 149        | 155 | 166 | 171 | 185 | 204  | 212  | 221  | 229  | 237  | 264  | 273  | 281  |
| 154        | 159 | 190 | 196 | 210 | 228  | 236  | 245  | 253  | 261  | 288  | 296  | 305  |
| 172        | 177 | 189 | 194 | 214 | 232  | 241  | 249  | 257  | 266  | 292  | 300  | 308  |
| 187        | 193 | 204 | 210 | 224 | 241  | 249  | 257  | 266  | 274  | 300  | 308  | 316  |
| 201        | 206 | 217 | 223 | 237 | 254  | 262  | 270  | 279  | 287  | 312  | 320  | 329  |
| 172        | 178 | 190 | 197 | 212 | 235  | 244  | 254  | 263  | 273  | 305  | 314  | 323  |
| 185        | 191 | 212 | 218 | 234 | 256  | 266  | 275  | 284  | 294  | 325  | 335  | 334  |
| 194        | 200 | 213 | 219 | 243 | 265  | 275  | 284  | 293  | 303  | 334  | 343  | 353  |
| 243        | 251 | 268 | 276 | 297 | 321  | 334  | 346  | 359  | 371  | 408  | 421  | 433  |
| 256        | 265 | 281 | 290 | 311 | 334  | 347  | 359  | 372  | 384  | 421  | 433  | 446  |
| 295        | 303 | 320 | 350 | 371 | 394  | 406  | 419  | 431  | 444  | 480  | 492  | 504  |
| 238        | 248 | 266 | 275 | 299 | 329  | 343  | 357  | 371  | 385  | 429  | 443  | 457  |
| 254        | 263 | 282 | 291 | 314 | 344  | 358  | 372  | 386  | 400  | 444  | 457  | 471  |
| 261        | 270 | 289 | 298 | 321 | 351  | 365  | 379  | 393  | 406  | 450  | 464  | 478  |
| 271        | 280 | 298 | 308 | 331 | 360  | 374  | 388  | 402  | 415  | 458  | 472  | 486  |
| 284        | 294 | 312 | 321 | 344 | 373  | 387  | 401  | 415  | 429  | 471  | 485  | 499  |
| 323        | 332 | 350 | 360 | 383 | 411  | 425  | 439  | 452  | 466  | 508  | 522  | 536  |
| 318        | 329 | 351 | 362 | 390 | 431  | 447  | 464  | 481  | 497  | 555  | 571  | 588  |
| 336        | 347 | 369 | 380 | 408 | 448  | 465  | 482  | 498  | 515  | 572  | 589  | 605  |
| 345        | 356 | 378 | 389 | 417 | 457  | 473  | 490  | 507  | 524  | 580  | 597  | 613  |
| 358        | 369 | 391 | 403 | 430 | 470  | 486  | 503  | 520  | 536  | 592  | 609  | 626  |
| 448        | 462 | 490 | 504 | 538 | 581  | 602  | 623  | 643  | 664  | 728  | 749  | 769  |
| 577        | 594 | 627 | 644 | 685 | 735  | 760  | 785  | 810  | 834  | 909  | 934  | 959  |
| 423        | 437 | 465 | 479 | 514 | 573  | 594  | 615  | 636  | 657  | 737  | 757  | 778  |
| 441        | 455 | 483 | 497 | 532 | 590  | 611  | 632  | 653  | 674  | 754  | 775  | 796  |
| 516        | 533 | 568 | 585 | 629 | 692  | 718  | 744  | 770  | 796  | 886  | 912  | 938  |
| 529        | 547 | 581 | 599 | 642 | 705  | 731  | 757  | 783  | 809  | 898  | 924  | 950  |
| 567        | 584 | 619 | 637 | 680 | 742  | 768  | 794  | 820  | 847  | 935  | 961  | 987  |
| 714        | 735 | 777 | 797 | 849 | 925  | 956  | 987  | 1018 | 1049 | 1156 | 1187 | 1218 |
| 786        | 807 | 849 | 869 | 921 | 995  | 1026 | 1057 | 1088 | 1120 | 1182 | 1213 | 1287 |
| 841        | 862 | 904 | 925 | 977 | 1049 | 1080 | 1111 | 1142 | 1174 | 1236 | 1267 | 1339 |

Conveyor Components

Engineering

Part Number Index

Keyword Index

|                                  |                              |                             |                                      |
|----------------------------------|------------------------------|-----------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT15-2 | SPECIFICATION<br>PAGE PT15-4 | NOMENCLATURE<br>PAGE PT15-7 | SELECTION/DIMENSIONS<br>PAGE PT15-10 |
|----------------------------------|------------------------------|-----------------------------|--------------------------------------|



# SELECTION

## Heavy Duty Drum Pulley Average Weights - HE, TAPER-LOCK, QD

| Dia. | Max. Bore | Face Width |      |      |      |      |      |      |      |      |      |      |      |
|------|-----------|------------|------|------|------|------|------|------|------|------|------|------|------|
|      |           | 12         | 14   | 16   | 18   | 20   | 22   | 24   | 26   | 30   | 32   | 36   | 38   |
| 36   | 3         | 292        | 313  | 334  | 355  | 376  | 397  | 417  | 438  | 480  | 501  | 617  | 638  |
|      | .5        | 310        | 331  | 352  | 373  | 394  | 415  | 436  | 457  | 498  | 519  | 635  | 656  |
|      | 4         | 320        | 341  | 362  | 383  | 404  | 425  | 445  | 466  | 508  | 529  | 644  | 665  |
|      | 4.5       | ...        | 355  | 376  | 397  | 417  | 438  | 459  | 480  | 522  | 543  | 657  | 678  |
|      | 5         | ...        | ...  | 447  | 472  | 497  | 522  | 547  | 572  | 622  | 647  | 769  | 794  |
|      | 6         | ...        | ...  | ...  | 546  | 571  | 596  | 621  | 646  | 697  | 722  | 839  | 864  |
|      | 7         | ...        | ...  | ...  | 620  | 645  | 670  | 695  | 720  | 836  | 861  | 911  | 936  |
|      | 8         | ...        | ...  | ...  | ...  | 702  | 727  | 752  | 777  | 891  | 916  | 966  | 991  |
| 42   | 10        | ...        | ...  | ...  | ...  | ...  | ...  | 1221 | 1254 | 1321 | 1423 | 1490 | 1523 |
|      | 3.5       | 386        | 411  | 435  | 459  | 484  | 508  | 533  | 557  | 606  | 630  | 780  | 805  |
|      | 4         | 475        | 504  | 534  | 563  | 592  | 621  | 651  | 680  | 738  | 768  | 926  | 956  |
|      | 4.5       | ...        | 468  | 497  | 527  | 556  | 585  | 614  | 644  | 702  | 731  | 889  | 919  |
|      | 5         | ...        | ...  | 536  | 565  | 594  | 623  | 653  | 682  | 740  | 770  | 927  | 956  |
|      | 6         | ...        | ...  | ...  | 686  | 716  | 745  | 774  | 803  | 862  | 891  | 1044 | 1073 |
|      | 7         | ...        | ...  | ...  | 846  | 885  | 924  | 963  | 1002 | 1195 | 1234 | 1312 | 1351 |
|      | 8         | ...        | ...  | ...  | ...  | 941  | 980  | 1018 | 1057 | 1249 | 1288 | 1366 | 1405 |
| 48   | 10        | ...        | ...  | ...  | ...  | ...  | ...  | 1398 | 1437 | 1515 | 1657 | 1735 | 1773 |
|      | 4         | 579        | 613  | 646  | 680  | 713  | 747  | 780  | 814  | 881  | 914  | 1113 | 1146 |
|      | 4.5       | ...        | 626  | 660  | 693  | 727  | 760  | 794  | 827  | 894  | 928  | 1126 | 1159 |
|      | 5         | ...        | ...  | 698  | 731  | 765  | 798  | 832  | 865  | 932  | 966  | 1163 | 1196 |
|      | 6         | ...        | ...  | ...  | 803  | 837  | 870  | 904  | 937  | 1004 | 1038 | 1231 | 1264 |
|      | 7         | ...        | ...  | ...  | 976  | 1020 | 1065 | 1109 | 1154 | 1398 | 1442 | 1531 | 1576 |
|      | 8         | ...        | ...  | ...  | ...  | 1076 | 1120 | 1165 | 1209 | 1452 | 1497 | 1586 | 1630 |
|      | 10        | ...        | ...  | ...  | ...  | ...  | ...  | 1592 | 1636 | 1725 | 1913 | 2002 | 2046 |
| 54   | 4.5       | ...        | 745  | 783  | 821  | 859  | 896  | 934  | 972  | 1047 | 1085 | 1327 | 1365 |
|      | 5         | ...        | ...  | 821  | 859  | 897  | 934  | 972  | 1010 | 1085 | 1123 | 1364 | 1402 |
|      | 6         | ...        | ...  | ...  | 1124 | 1174 | 1124 | 1274 | 1324 | 1425 | 1475 | 1777 | 1827 |
|      | 7         | ...        | ...  | ...  | ...  | 1246 | 1296 | 1346 | 1396 | 1697 | 1747 | 1847 | 1897 |
|      | 8         | ...        | ...  | ...  | ...  | 1301 | 1351 | 1401 | 1451 | 1750 | 1800 | 1901 | 1951 |
|      | 10        | ...        | ...  | ...  | ...  | ...  | ...  | 1803 | 1853 | 1953 | 2191 | 2291 | 2341 |
| 60   | 4.5       | ...        | 1283 | 1338 | 1394 | 1450 | 1506 | 1561 | 1617 | 1729 | 1784 | 2155 | 2210 |
|      | 5         | ...        | ...  | 1375 | 1431 | 1487 | 1543 | 1598 | 1654 | 1765 | 1821 | 2191 | 2246 |
|      | 6         | ...        | ...  | ...  | 1497 | 1552 | 1608 | 1664 | 1720 | 1831 | 1887 | 2251 | 2306 |
|      | 7         | ...        | ...  | ...  | 1567 | 1622 | 1678 | 1734 | 1790 | 2151 | 2207 | 2319 | 2374 |
|      | 8         | ...        | ...  | ...  | ...  | 1676 | 1732 | 1788 | 1844 | 2204 | 2259 | 2371 | 2427 |
|      | 10        | ...        | ...  | ...  | ...  | ...  | ...  | 2030 | 2086 | 2198 | 2491 | 2602 | 2658 |

- Crown face pulleys will be provided unless straight face is specified
- These pulleys are designed to meet the CEMA Pulley Specification B105.1–1993. They are not to be used with steel cable belts or other high modulus belts.

# SELECTION



## Heavy Duty Drum Pulley Average Weights - HE, TAPER-LOCK, QD

| Dia. | Max. Bore | Face Width |      |      |      |      |      |      |      |      |      |      |      |
|------|-----------|------------|------|------|------|------|------|------|------|------|------|------|------|
|      |           | 40         | 44   | 46   | 51   | 54   | 57   | 60   | 63   | 66   | 72   | 75   | 78   |
| 36   | 3         | 659        | 701  | 721  | 774  | 879  | 910  | 942  | 973  | 1004 | 1141 | 1173 | 1204 |
|      | 3.5       | 676        | 718  | 739  | 791  | 896  | 928  | 959  | 990  | 1022 | 1158 | 1189 | 1221 |
|      | 4         | 685        | 727  | 748  | 800  | 905  | 936  | 967  | 999  | 1030 | 1165 | 1197 | 1228 |
|      | 4.5       | 699        | 740  | 797  | 850  | 953  | 984  | 1016 | 1047 | 1078 | 1213 | 1245 | 1276 |
|      | 5         | 819        | 869  | 894  | 957  | 1066 | 1103 | 1141 | 1178 | 1216 | 1362 | 1400 | 1437 |
|      | 6         | 889        | 939  | 964  | 1206 | 1131 | 1169 | 1206 | 1244 | 1281 | 1423 | 1461 | 1499 |
|      | 7         | 961        | 1011 | 1036 | 1099 | 1201 | 1239 | 1276 | 1314 | 1351 | 1427 | 1464 | 1567 |
|      | 8         | 1016       | 1066 | 1091 | 1154 | 1255 | 1293 | 1330 | 1368 | 1405 | 1480 | 1518 | 1620 |
|      | 10        | 1556       | 1623 | 1656 | 1739 | 1858 | 1908 | 1958 | 2008 | 2058 | 2157 | 2207 | 2326 |
| 42   | 3.5       | 829        | 878  | 902  | 1014 | 1151 | 1188 | 1225 | 1261 | 1298 | 1472 | 1509 | 1545 |
|      | 4         | 985        | 1043 | 1073 | 1046 | 1290 | 1334 | 1377 | 1421 | 1465 | 1653 | 1697 | 1741 |
|      | 4.5       | 946        | 1006 | 1085 | 1158 | 1302 | 1346 | 1390 | 1433 | 1477 | 1665 | 1708 | 1752 |
|      | 5         | 985        | 1044 | 1073 | 1146 | 1289 | 1333 | 1377 | 1421 | 1464 | 1651 | 1696 | 1739 |
|      | 6         | 1103       | 1161 | 1190 | 1263 | 1402 | 1446 | 1490 | 1533 | 1577 | 1760 | 1803 | 1847 |
|      | 7         | 1389       | 1467 | 1506 | 1603 | 1777 | 1836 | 1894 | 1952 | 2011 | 2127 | 2186 | 2360 |
|      | 8         | 1444       | 1521 | 1560 | 1658 | 1830 | 1888 | 1947 | 2005 | 2063 | 2180 | 2238 | 2411 |
|      | 10        | 1812       | 1890 | 1929 | 2026 | 2188 | 2246 | 2304 | 2362 | 2421 | 2538 | 2596 | 2758 |
| 48   | 4         | 1180       | 1247 | 1280 | 1364 | 1546 | 1596 | 1646 | 1696 | 1747 | 1979 | 2029 | 2079 |
|      | 4.5       | 1193       | 1259 | 1293 | 1377 | 1558 | 1608 | 1658 | 1709 | 1759 | 1990 | 2040 | 2091 |
|      | 5         | 1230       | 1297 | 1330 | 1414 | 1595 | 1645 | 1695 | 1745 | 1795 | 2026 | 2076 | 2126 |
|      | 6         | 1298       | 1364 | 1398 | 1462 | 1658 | 1708 | 1758 | 1808 | 1859 | 2085 | 2135 | 2186 |
|      | 7         | 1620       | 1709 | 1754 | 1865 | 2087 | 2154 | 2221 | 2287 | 2354 | 2468 | 2554 | 2777 |
|      | 8         | 1675       | 1764 | 1808 | 1919 | 2140 | 2207 | 2273 | 2340 | 2407 | 2540 | 2607 | 2828 |
|      | 10        | 2091       | 2180 | 2224 | 2335 | 2545 | 2612 | 2679 | 2745 | 2812 | 2946 | 3012 | 3222 |
| 54   | 4.5       | 1402       | 1478 | 1515 | 1610 | 1833 | 1890 | 1946 | 2003 | 2059 | 2339 | 2396 | 2452 |
|      | 5         | 1440       | 1515 | 1553 | 1647 | 1870 | 1926 | 1983 | 2039 | 2096 | 2375 | 2431 | 2488 |
|      | 6         | 1878       | 1978 | 2028 | 2153 | 2431 | 2506 | 2581 | 2656 | 2732 | 3084 | 3160 | 3235 |
|      | 7         | 1947       | 2048 | 2098 | 2223 | 2498 | 2573 | 2649 | 2724 | 2799 | 2949 | 3024 | 3350 |
|      | 8         | 2001       | 2101 | 2151 | 2277 | 2550 | 2625 | 2701 | 2776 | 2851 | 3001 | 3077 | 3550 |
|      | 10        | 2391       | 2492 | 2542 | 2667 | 2930 | 3005 | 3080 | 3155 | 3231 | 3381 | 3456 | 3719 |
| 60   | 4.5       | 2266       | 2378 | 2433 | 2573 | 2915 | 2999 | 3082 | 3166 | 3249 | 3675 | 3759 | 3843 |
|      | 5         | 2302       | 2414 | 2469 | 2609 | 2950 | 3034 | 3117 | 3201 | 3285 | 3710 | 3793 | 3877 |
|      | 6         | 2362       | 2474 | 2529 | 2669 | 3005 | 3089 | 3172 | 3256 | 3339 | 3759 | 3843 | 3926 |
|      | 7         | 2430       | 2541 | 2597 | 2737 | 3070 | 3154 | 3238 | 3321 | 3405 | 3572 | 3656 | 3989 |
|      | 8         | 2482       | 2594 | 2650 | 2789 | 3121 | 3205 | 3288 | 3372 | 3456 | 3623 | 3707 | 4039 |
|      | 10        | 2714       | 2825 | 2881 | 3021 | 3342 | 3426 | 3509 | 3593 | 3676 | 3844 | 3927 | 4249 |

Conveyor Components

Engineering

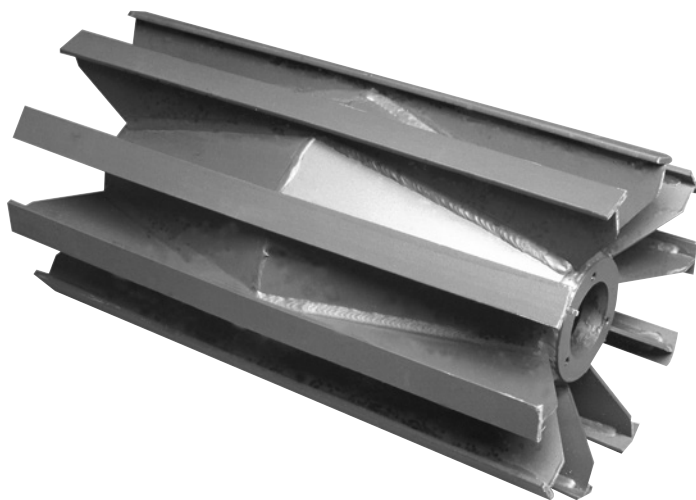
Part Number Index

Keyword Index



# SELECTION/DIMENSIONS

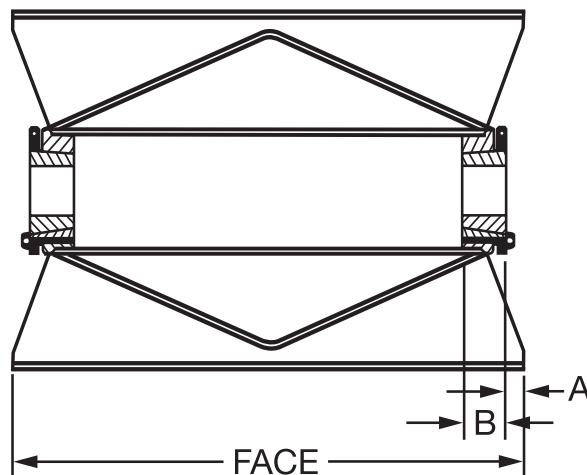
## HE Heavy Duty Wing Pulleys



- Designed to CEMA specifications
- Standard crown face or straight face available
- 6" - 60" diameter and face widths exceeding 100". Others available upon request.
- HE bushing system designed specifically for Dodge conveyor pulleys
- Most dependable mounting system for conveyor pulleys
- Available with replaceable WING-LAG, vulcanized lagging, or replaceable weld-on strip lagging
- Available from stock

### HE Dimensions

| Hub  | A     | B    | Bushing | Max. Bore | Screw Torque (in.-lb.) |
|------|-------|------|---------|-----------|------------------------|
| HE25 | 1     | 1.80 | HE25    | 2-1/2     | 360                    |
| HE30 | 3/4   | 2.20 | HE30    | 3         | 720                    |
| HE35 | 3/4   | 2.78 | HE35    | 3-1/2     | 1080                   |
| HE40 | 3/4   | 2.93 | HE40    | 4         | 1680                   |
| HE45 | 3/4   | 3.20 | HE45    | 4-1/2     | 1680                   |
| HE50 | 3/4   | 3.70 | HE50    | 5         | 2400                   |
| HE60 | 1     | 3.95 | HE60    | 6         | 4200                   |
| HE70 | 1     | 4.45 | HE70    | 7         | 6000                   |
| HE80 | 1-1/4 | 5.20 | HE80    | 8         | 6000                   |





## HE Heavy Duty Crown Wing Pulley Part Numbers

| DIA  | Hub  | FACE WIDTH |        |        |        |        |        |        |        |        |        |        |        |
|------|------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|      |      | 8          | 10     | 12     | 14     | 16     | 18     | 20     | 22     | 24     | 26     | 28     | 30     |
| 8    | HE25 | 206190     | 209652 | 209653 | 206193 | 209655 | 209656 | 206196 | 206197 | 206198 | 206199 | 223565 | 206204 |
| 10   | HE25 |            |        | 206228 | 206229 | 206237 | 209657 | 206200 | 206239 | 206244 | 206201 | 206332 | 206248 |
|      | HE30 |            |        |        |        |        |        |        |        |        | 203455 |        |        |
|      | HE35 |            |        |        |        |        |        |        |        |        |        |        |        |
| 12   | HE25 |            |        | 209659 | 206255 | 206256 | 206257 | 206205 | 206258 | 206259 | 206206 | 223574 | 206260 |
|      | HE30 |            |        |        |        | 206367 | 206368 | 209660 | 206370 | 206371 | 206212 |        | 206373 |
|      | HE35 |            |        |        |        |        |        |        |        |        | 223573 |        |        |
|      | HE40 |            |        |        |        |        |        |        |        |        |        |        |        |
| 14   | HE25 |            | 206265 | 206266 |        | 206268 | 206269 | 209664 | 206270 | 206271 | 206216 |        | 206272 |
|      | HE30 |            | 206379 | 206380 | 206381 | 206382 | 206383 | 206384 | 206385 | 206386 | 206387 |        | 206388 |
|      | HE35 |            |        |        |        |        |        |        |        |        | 223581 |        |        |
|      | HE40 |            |        |        |        |        |        |        |        |        |        |        |        |
|      | HE45 |            |        |        |        |        |        |        |        |        |        |        |        |
| HE50 |      |            |        |        |        |        |        |        |        |        |        |        |        |
| 16   | HE25 |            | 206279 | 209669 | 206286 | 206287 | 206288 | 206220 | 206289 | 206295 | 206221 | 223596 |        |
|      | HE30 |            | 206396 | 206397 | 206398 | 206399 | 206400 | 209670 | 206402 |        | 206222 | 223597 | 206404 |
|      | HE35 |            |        |        |        |        |        |        |        |        | 209671 | 223598 |        |
|      | HE40 |            |        |        |        |        |        |        |        |        | 209672 |        |        |
|      | HE45 |            |        |        |        |        |        |        |        |        |        |        |        |
| HE50 |      |            |        |        |        |        |        |        |        |        |        |        |        |
| 18   | HE25 |            |        | 209675 | 206308 | 206309 | 206312 | 209676 | 206313 | 206314 | 206231 |        | 206316 |
|      | HE30 |            |        | 206412 | 206413 | 206414 | 206415 | 206416 | 206417 | 206418 | 206232 | 223614 | 206419 |
|      | HE35 |            |        |        |        |        |        |        |        |        | 209677 | 223615 |        |
|      | HE40 |            |        |        |        |        |        |        |        |        | 223613 |        | 223616 |
|      | HE45 |            |        |        |        |        |        |        |        |        |        |        |        |
|      | HE50 |            |        |        |        |        |        |        |        |        |        |        |        |
| HE60 |      |            |        |        |        |        |        |        |        |        |        |        |        |
| 20   | HE25 |            |        | 209681 | 209682 | 209683 | 206328 | 209685 | 206330 | 206331 | 206240 |        |        |
|      | HE30 |            |        | 206428 | 206429 | 206430 | 209684 | 206432 | 206433 | 206434 | 206241 | 223630 |        |
|      | HE35 |            |        |        |        |        |        |        |        |        | 206492 | 223631 |        |
|      | HE40 |            |        |        |        |        |        |        |        |        | 223629 |        | 223632 |
|      | HE45 |            |        |        |        |        |        |        |        |        |        |        |        |
|      | HE50 |            |        |        |        |        |        |        |        |        |        |        |        |
| HE60 |      |            |        |        |        |        |        |        |        |        |        |        |        |
| 24   | HE25 |            |        |        | 209691 | 206342 | 206343 | 206344 | 206345 |        | 206346 |        |        |
|      | HE30 |            |        |        | 206442 | 206443 | 206444 | 206445 | 206446 |        | 206447 | 223646 |        |
|      | HE35 |            |        |        |        |        |        |        |        |        | 206502 |        |        |
|      | HE40 |            |        |        |        |        |        |        |        |        | 206524 |        |        |
|      | HE45 |            |        |        |        |        |        |        |        |        |        |        |        |
|      | HE50 |            |        |        |        |        |        |        |        |        |        | 223647 |        |
|      | HE60 |            |        |        |        |        |        |        |        |        |        |        |        |
| HE70 |      |            |        |        |        |        |        |        |        |        |        |        |        |
| 30   | HE25 |            |        |        | 206355 | 206356 | 206357 | 206358 |        |        | 206359 |        |        |
|      | HE30 |            |        |        | 206455 | 206456 | 206457 | 206458 |        |        | 206459 |        |        |
|      | HE35 |            |        |        |        |        |        |        |        |        |        |        |        |
|      | HE40 |            |        |        |        |        |        |        |        |        |        |        |        |
|      | HE45 |            |        |        |        |        |        |        |        |        |        |        |        |
|      | HE50 |            |        |        |        |        |        |        |        |        |        |        |        |
| HE60 |      |            |        |        |        |        |        |        |        |        |        |        |        |
| HE70 |      |            |        |        |        |        |        |        |        |        |        |        |        |
| 36   | HE30 |            |        |        |        | 206471 | 206472 |        |        |        |        |        |        |
|      | HE35 |            |        |        |        | 206515 |        |        |        |        |        |        |        |
|      | HE40 |            |        |        |        | 206539 |        |        |        |        |        |        |        |
|      | HE45 |            |        |        |        |        |        |        |        |        |        |        |        |
|      | HE50 |            |        |        |        |        |        |        |        |        |        |        |        |
| HE60 |      |            |        |        |        |        |        |        |        |        |        |        |        |

Conveyor Components

Engineering

Part Number Index

Keyword Index





## HE Heavy Duty Crown Wing Pulley Part Numbers

| DIA  | Hub  | FACE WIDTH |        |        |        |        |    |        |        |        |        |        |        |
|------|------|------------|--------|--------|--------|--------|----|--------|--------|--------|--------|--------|--------|
|      |      | 32         | 34     | 36     | 38     | 40     | 42 | 44     | 46     | 51     | 54     | 57     | 63     |
| 8    | HE25 | 206213     |        | 206158 | 206214 |        |    | 206219 | 207573 | 223566 |        |        | 205577 |
| 10   | HE25 | 206202     | 206249 | 206250 | 206203 | 206251 |    | 206253 | 207575 | 207418 |        |        | 223571 |
|      | HE30 | 207972     |        |        | 207566 |        |    | 206252 | 207574 | 207567 |        | 223569 | 205580 |
|      | HE35 |            |        |        | 223567 |        |    |        |        |        |        | 223570 | 205580 |
| 12   | HE25 | 206207     | 206261 | 206595 | 206208 | 206262 |    | 206210 | 206263 | 206264 |        | 209662 | 209663 |
|      | HE30 | 206374     | 206375 |        | 206209 | 206376 |    | 206211 | 206377 | 206378 |        |        | 206599 |
|      | HE35 | 209661     |        |        | 223575 |        |    | 223577 |        | 223579 |        | 223580 | 203094 |
|      | HE40 |            |        |        | 223576 |        |    | 223578 |        |        |        |        |        |
| 14   | HE25 | 206217     | 206273 | 206274 | 206218 | 206276 |    | 206277 |        | 206278 |        |        | 223593 |
|      | HE30 | 206389     | 206390 | 206391 | 206392 | 206393 |    | 206394 | 223586 | 206395 | 223589 | 223590 | 208974 |
|      | HE35 | 203482     |        |        | 209665 |        |    | 209666 |        | 209668 |        | 223591 | 223594 |
|      | HE40 |            |        |        | 223582 |        |    | 223585 |        | 223587 |        | 223592 | 223595 |
|      | HE45 |            |        |        | 223583 |        |    |        |        | 223588 |        |        |        |
|      | HE50 |            |        |        | 223584 |        |    |        |        |        |        |        |        |
| 16   | HE25 | 206223     | 206297 | 206298 | 206225 | 206299 |    | 206303 |        | 206305 |        | 206306 | 223608 |
|      | HE30 | 206224     | 206405 | 206406 | 206226 | 206407 |    | 206408 | 206409 | 206410 |        | 206411 | 223609 |
|      | HE35 | 209673     |        | 206478 | 206227 | 206547 |    | 206480 | 206481 | 206482 |        | 206483 | 223610 |
|      | HE40 | 203483     |        |        | 209674 | 223600 |    | 223602 |        | 223604 |        | 223606 | 207400 |
|      | HE45 |            |        |        | 223599 | 223601 |    | 223603 |        | 223605 |        | 223607 | 223611 |
|      | HE50 |            |        |        |        |        |    |        |        |        |        |        | 223612 |
| 18   | HE25 | 206233     | 206317 | 206318 | 206235 | 206319 |    | 206320 | 206321 | 206322 |        | 206323 | 206324 |
|      | HE30 | 206234     | 206420 | 206421 | 206236 | 206422 |    | 206423 | 206424 | 206425 |        | 206426 | 209680 |
|      | HE35 | 207402     |        | 206484 | 206485 | 206486 |    | 206487 |        | 209679 |        | 206490 | 206491 |
|      | HE40 | 209678     |        |        | 207569 | 223619 |    | 207570 |        | 207571 |        |        | 207406 |
|      | HE45 |            |        |        | 223617 | 223620 |    | 223621 | 223623 | 207404 |        | 223625 | 223626 |
|      | HE50 |            |        |        | 223618 |        |    | 223622 |        | 223624 |        |        | 223627 |
|      | HE60 |            |        |        |        |        |    |        |        |        |        |        | 223628 |
| 20   | HE25 | 206242     |        |        | 206334 | 206335 |    | 206336 | 206337 | 206338 |        |        | 209690 |
|      | HE30 | 207407     |        | 206435 | 206243 | 206436 |    | 206437 | 206438 | 206439 |        | 206440 | 206501 |
|      | HE35 | 209686     |        | 206494 | 206495 | 206496 |    | 206497 | 206498 | 206499 |        | 206500 | 207411 |
|      | HE40 | 209687     |        |        | 207572 | 223635 |    | 207408 |        | 207410 |        | 223642 | 207411 |
|      | HE45 |            |        |        | 223633 | 223636 |    | 209688 | 223639 | 209689 |        | 223643 | 223645 |
|      | HE50 |            |        |        | 223634 |        |    | 223637 |        | 223640 |        | 223644 | 207412 |
|      | HE60 |            |        |        |        |        |    | 223638 |        | 223641 |        |        |        |
| 24   | HE25 | 206347     |        | 206348 | 206349 |        |    | 206350 |        | 206352 |        |        |        |
|      | HE30 | 206448     |        | 206449 | 206245 |        |    | 206450 |        | 206452 |        | 206453 | 206454 |
|      | HE35 | 209692     |        | 206504 | 206246 |        |    | 206247 | 206505 | 206506 |        | 206507 | 206508 |
|      | HE40 | 206525     |        | 206526 | 206527 | 223651 |    | 206528 | 206529 | 206530 |        | 206531 | 206532 |
|      | HE45 |            |        |        | 223649 | 223652 |    | 209693 | 223655 | 223656 |        | 223659 | 223661 |
|      | HE50 |            |        |        | 223650 |        |    | 223653 |        | 223657 |        | 223660 | 223662 |
|      | HE60 |            |        | 223648 |        |        |    |        |        | 223658 |        |        | 223663 |
|      | HE70 |            |        |        |        |        |    | 223654 |        |        |        |        |        |
| 30   | HE25 | 206360     |        |        |        |        |    |        |        | 206363 |        |        |        |
|      | HE30 | 206460     |        |        |        | 206461 |    | 206462 |        | 206463 |        | 206464 |        |
|      | HE35 | 206510     |        |        |        | 206511 |    | 206512 |        | 206513 |        |        |        |
|      | HE40 | 206534     |        |        |        | 206535 |    | 206536 |        | 206537 |        | 206538 |        |
|      | HE45 |            |        |        |        | 207416 |    | 203484 |        | 223665 |        |        |        |
|      | HE50 |            |        |        |        |        |    | 223664 |        | 223666 |        | 223667 |        |
|      | HE60 |            |        |        |        |        |    |        |        | 203485 |        | 223668 | 207417 |
| HE70 |      |            |        |        |        |        |    |        |        |        | 223669 |        |        |
| 36   | HE30 |            |        |        |        |        |    |        |        | 206476 |        |        |        |
|      | HE35 |            |        |        |        |        |    |        |        | 206522 |        | 206523 |        |
|      | HE40 |            |        |        | 206543 |        |    | 206544 |        | 206545 |        | 206546 |        |
|      | HE45 |            |        |        |        |        |    |        |        |        |        |        |        |
|      | HE50 |            |        |        |        |        |    |        |        |        |        |        |        |
|      | HE60 |            |        |        |        |        |    |        |        | 203486 |        |        |        |

# SELECTION



## HE Heavy Duty Straight Wing Pulley Part Numbers

| Dia  | Hub  | Face Width |        |        |        |        |        |        |        |        |        |        |        |        |
|------|------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|      |      | 22         | 26     | 28     | 32     | 36     | 38     | 40     | 44     | 46     | 51     | 54     | 57     | 63     |
| 6    | HE25 |            |        |        |        |        |        |        |        |        |        |        |        |        |
| 8    | HE25 | 223670     | 223671 |        | 223672 |        |        |        |        |        |        |        |        |        |
|      | HE30 |            |        |        |        |        |        |        |        |        |        |        |        |        |
|      | HE35 |            |        |        |        |        |        |        |        |        |        |        |        |        |
| 10   | HE25 |            |        |        |        |        |        |        |        |        |        |        |        |        |
|      | HE30 |            |        |        |        |        |        |        |        |        |        |        |        |        |
|      | HE35 |            |        |        |        |        |        |        |        |        |        |        |        |        |
| 12   | HE25 |            |        |        | 223674 |        |        |        | 223676 |        |        |        |        |        |
|      | HE30 |            |        |        |        |        |        |        |        |        | 223677 |        |        |        |
|      | HE35 |            | 223673 |        |        |        | 223675 |        |        |        |        |        |        |        |
|      | HE40 |            |        |        |        |        |        |        |        |        |        |        |        |        |
|      | HE45 |            |        |        |        |        |        |        |        |        |        |        |        |        |
| 14   | HE25 |            |        |        | 223678 |        | 223680 |        |        |        |        |        |        |        |
|      | HE30 |            |        |        | 223679 |        |        | 223681 |        |        |        |        |        |        |
|      | HE35 |            |        |        |        |        |        |        |        |        |        |        |        |        |
|      | HE40 |            |        |        |        |        |        |        |        |        |        |        |        |        |
|      | HE45 |            |        |        |        |        |        |        |        |        |        |        |        |        |
| 16   | HE25 |            |        |        |        |        | 223685 |        |        |        |        |        |        |        |
|      | HE30 |            | 223682 |        | 223684 |        |        |        |        |        |        |        |        |        |
|      | HE35 |            | 223683 |        |        |        | 223686 |        | 223687 |        |        |        |        |        |
|      | HE40 |            |        |        |        |        |        |        |        |        |        | 223690 |        |        |
|      | HE45 |            |        |        |        |        |        |        |        |        |        | 223691 |        |        |
|      | HE50 |            |        |        |        |        |        |        |        |        |        |        |        |        |
| 18   | HE25 |            |        |        |        |        |        |        |        |        |        |        |        |        |
|      | HE30 |            | 223692 |        |        |        | 223697 |        |        |        |        |        |        |        |
|      | HE35 |            |        | 223693 | 223694 |        | 223698 |        |        | 223700 |        |        |        |        |
|      | HE40 |            |        |        | 223695 |        |        |        |        |        |        |        |        | 223703 |
|      | HE45 |            |        |        |        | 223696 |        |        |        | 223701 |        |        |        |        |
|      | HE50 |            |        |        |        |        | 223699 |        |        |        |        |        |        |        |
|      | HE60 |            |        |        |        |        |        |        |        |        |        |        |        |        |
| HE70 |      |            |        |        |        |        |        |        |        |        |        | 223702 | 223704 |        |
| 20   | HE25 |            |        |        |        |        |        |        |        |        |        |        |        |        |
|      | HE30 |            |        |        |        |        |        |        |        |        |        |        |        |        |
|      | HE35 |            |        |        |        |        |        |        |        |        |        |        |        |        |
|      | HE40 |            |        |        | 223705 |        |        |        |        |        |        |        |        |        |
|      | HE45 |            |        |        |        |        | 223706 |        |        | 223708 |        |        |        |        |
|      | HE50 |            |        |        |        |        |        |        | 223707 |        |        |        |        |        |
|      | HE60 |            |        |        |        |        |        |        |        |        |        |        |        |        |
|      | HE70 |            |        |        |        |        |        |        |        |        | 223709 | 223710 | 223712 |        |
| HE80 |      |            |        |        |        |        |        |        |        | 223711 |        |        | 223713 |        |
| 24   | HE25 |            |        |        |        |        |        |        |        |        |        |        |        |        |
|      | HE30 |            |        |        |        |        |        |        |        |        |        |        |        |        |
|      | HE35 |            |        |        |        |        |        |        |        |        |        |        |        |        |
|      | HE40 |            |        |        |        |        |        |        |        |        | 223717 |        |        |        |
|      | HE45 |            |        |        | 223714 | 223715 |        |        |        |        | 223719 |        |        |        |
|      | HE50 |            |        |        |        |        |        |        |        |        |        |        |        |        |
|      | HE60 |            |        |        |        |        |        |        |        |        |        |        |        |        |
|      | HE70 |            |        |        |        |        |        |        |        |        |        |        |        |        |
| HE80 |      |            |        |        |        |        |        |        |        |        |        |        |        |        |
| 30   | HE25 |            |        |        |        |        |        |        |        |        |        |        |        |        |
|      | HE30 |            |        |        |        |        |        |        |        |        |        |        |        |        |
|      | HE35 |            |        |        |        |        |        |        |        |        |        |        |        |        |
|      | HE40 |            |        |        |        |        |        |        |        |        |        |        |        |        |
|      | HE45 |            |        |        |        |        |        |        |        |        |        |        |        |        |
|      | HE50 |            |        |        |        |        |        |        |        |        |        |        |        |        |
|      | HE60 |            |        |        |        |        |        |        |        |        |        |        |        |        |
|      | HE70 |            |        |        |        |        |        |        |        |        |        |        |        |        |
| HE80 |      |            |        |        |        |        |        |        | 223720 |        |        |        |        |        |
|      |      |            |        |        |        |        |        |        |        | 223721 |        |        |        |        |

Conveyor Components

Engineering

Part Number Index

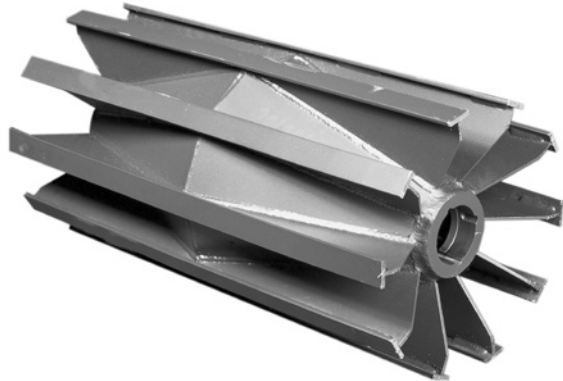
Keyword Index

|                                  |                              |                             |                                      |
|----------------------------------|------------------------------|-----------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT15-2 | SPECIFICATION<br>PAGE PT15-4 | NOMENCLATURE<br>PAGE PT15-7 | SELECTION/DIMENSIONS<br>PAGE PT15-10 |
|----------------------------------|------------------------------|-----------------------------|--------------------------------------|



# SELECTION/DIMENSIONS

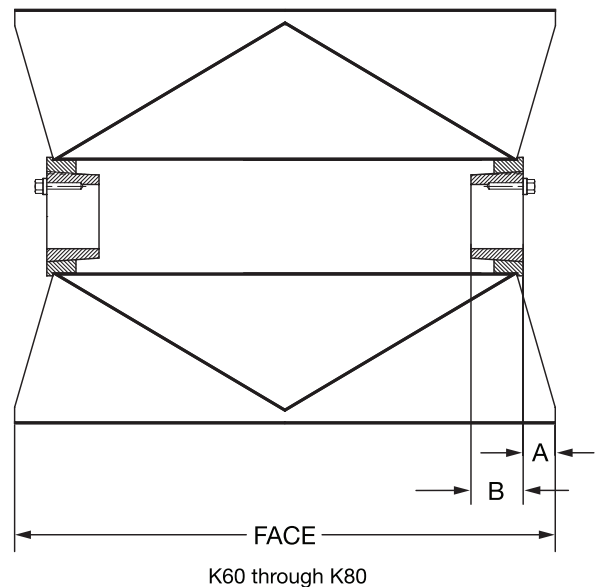
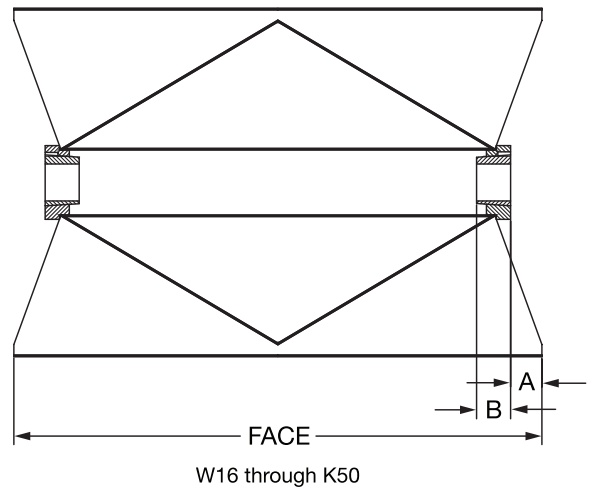
## TAPER-LOCK Heavy Duty Wing Pulleys



- Designed to CEMA specifications
- Standard crown face or straight face available
- 6" - 60" diameter and face widths exceeding 100". Others available upon request.
- Flush mount, compact design mounting system
- Available with replaceable WING-LAG, vulcanized lagging, or replaceable weld-on strip lagging
- Available from stock

### TAPER-LOCK Dimensions

| Hub | A     | B     | Bushing | Max. Bore | Screw Torque (in.-lb.) |
|-----|-------|-------|---------|-----------|------------------------|
| W16 | 1-5/8 | 1-1/2 | 1615    | 1-5/8     | 175                    |
| W25 | 1-1/2 | 1-3/4 | 2517    | 2-1/2     | 430                    |
| K30 | 1-3/4 | 2     | 3020    | 3         | 1800                   |
| K35 | 2-3/4 | 3-1/2 | 3535    | 3-1/2     | 1000                   |
| K40 | 2-3/4 | 4     | 4040    | 4         | 1750                   |
| K45 | 2-5/8 | 4-1/2 | 4545    | 4-1/2     | 2450                   |
| K50 | 3-3/8 | 5     | 5050    | 5         | 3100                   |
| K60 | 3-3/8 | 5     | 6050    | 6         | 7820                   |
| K70 | 3-1/4 | 6     | 7060    | 7         | 7820                   |
| K80 | 3-1/4 | 6-1/2 | 8065    | 8         | 7820                   |



# SELECTION



## TAPER-LOCK Heavy Duty Crown Wing Pulley Part Numbers

| Dia | Hub   | Face Width |        |        |        |        |                  |        |        |        |                  |        |
|-----|---|------------|--------|--------|--------|--------|------------------|--------|--------|--------|------------------|--------|
|     |   | 8          | 10     | 12     | 14     | 16     | 18               | 20     | 22     | 24     | 26               | 28     |
| 8   | W25   |            | 207644 | 207645 | 207646 | 207647 | 207648           | 207649 | 207650 | 207651 | 207652           |        |
| 10  | W25   |            |        | 207657 | 207658 | 207659 | 207660           | 201000 | 207661 | 207662 | 201001           |        |
|     | K30<br>K35                                    |            |        |        |        |        |                  |        |        |        | 223722           |        |
| 12  | W25   |            |        | 207669 | 207670 | 207671 | 207672           | 201004 | 207673 | 207674 | 201005           |        |
|     | K30<br>K35<br>K40                             |            |        |        | 206876 |        |                  | 206879 | 206880 | 206881 | 206882           |        |
| 14  | W25   |            | 207681 | 207682 | 207683 | 207684 | 207685           | 201012 | 207686 | 207687 | 201013           | 207433 |
|     | K30<br>K35<br>K40<br>K45<br>K50               |            |        |        |        |        |                  |        |        |        | 206897           |        |
| 16  | W25   |            | 207694 | 207695 | 207696 | 207697 | 207698           | 201018 | 207699 | 207700 | 201019           |        |
|     | K30<br>K35<br>K40<br>K45<br>K50               |            |        |        |        | 206923 |                  |        | 206926 | 206927 | 201020<br>207435 |        |
| 18  | W25   |            |        | 207709 | 207710 | 207711 | 206939           | 206940 | 207713 | 207714 | 201031           |        |
|     | K30<br>K35<br>K40<br>K45<br>K50<br>K60        |            |        |        |        |        |                  |        | 206968 |        | 201032<br>207441 |        |
| 20  | W25   | 207446     | 207447 | 207724 | 207725 | 207726 | 207727           | 207728 | 207729 | 207730 | 206562           |        |
|     | K30<br>K35<br>K40<br>K45<br>K50<br>K60        |            |        | 206979 | 206980 | 206981 |                  |        |        |        |                  |        |
| 24  | W25   |            |        |        | 207738 | 207739 | 207740           | 207741 |        |        | 207743           |        |
|     | K30<br>K35<br>K40<br>K45<br>K50<br>K60<br>K70 |            |        |        | 207600 | 207601 | 207602           | 207603 | 207604 |        | 201043<br>206852 |        |
| 30  | W25   |            |        |        |        | 207753 | 207754           |        |        |        |                  |        |
|     | K30<br>K35<br>K40<br>K45<br>K50<br>K60<br>K70 |            |        |        |        | 207612 |                  |        |        |        | 207615           |        |
| 36  | K30   |            |        |        |        | 207621 | 207622           |        |        |        |                  |        |
|     | K35<br>K40<br>K45<br>K50<br>K60               |            |        |        |        |        | 206588<br>206868 |        |        |        |                  |        |

Conveyor Components  
 Engineering  
 Part Number Index  
 Keyword Index



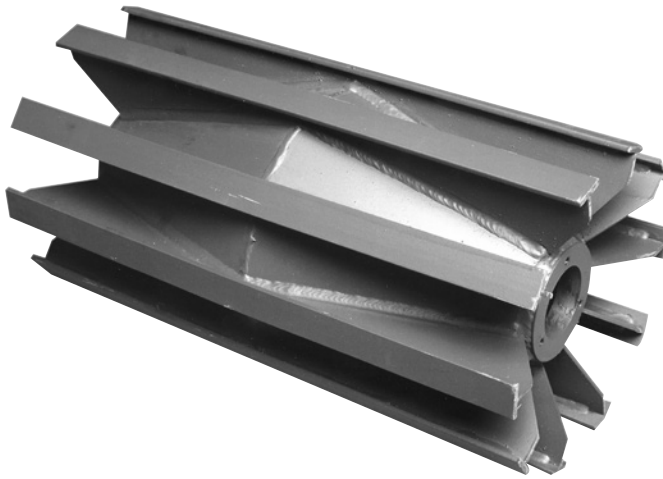
## TAPER-LOCK Heavy Duty Crown Wing Pulley Part Numbers (continued)

| Dia | Hub | Face Width |        |        |        |        |        |        |        |        |        |        |
|-----|-----|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|     |     | 30         | 32     | 34     | 36     | 38     | 40     | 44     | 46     | 51     | 57     | 63     |
| 8   | W25 | 207653     | 207654 |        |        | 207655 |        | 207656 |        |        |        |        |
| 10  | W25 | 207663     | 201002 | 207664 | 207665 | 201003 | 207666 | 207668 |        |        |        |        |
|     | K30 |            |        |        |        |        |        |        |        |        |        |        |
|     | K35 |            |        |        |        |        |        |        |        |        |        |        |
| 12  | W25 | 207675     | 201006 | 207676 |        | 201008 |        | 207678 | 207679 | 207680 |        |        |
|     | K30 | 206883     | 201007 |        |        | 201009 | 206885 | 206886 | 206887 | 206888 |        |        |
|     | K35 |            | 207430 |        |        |        |        | 207432 |        |        |        |        |
|     | K40 |            |        |        |        |        |        |        |        |        |        |        |
| 14  | W25 | 207688     | 201014 |        | 207690 | 201016 | 207691 | 207692 |        | 206919 |        |        |
|     | K30 |            | 201015 |        |        | 206916 | 206917 | 206918 |        |        |        |        |
|     | K35 |            |        |        |        | 223723 |        |        |        |        |        |        |
|     | K40 |            |        |        |        |        |        |        |        |        |        |        |
|     | K45 |            |        |        |        |        |        |        |        |        |        |        |
| 16  | W25 | 207701     | 201021 | 207702 | 207703 | 201023 |        | 207705 |        | 207707 | 207708 |        |
|     | K30 | 206928     | 201022 | 206929 | 206930 | 201024 | 206931 | 206932 |        | 206934 | 206935 |        |
|     | K35 |            | 223724 |        | 206548 | 207436 | 206549 | 206550 |        | 206552 | 206553 |        |
|     | K40 |            |        |        |        | 207437 |        | 207438 |        |        |        |        |
|     | K45 |            |        |        |        |        |        |        |        |        |        |        |
| 18  | W25 | 207715     | 201033 | 207716 | 207717 | 201035 |        | 207719 |        | 207721 |        |        |
|     | K30 | 206970     | 201034 |        | 206972 | 201036 |        | 206974 | 206975 | 206976 | 206977 | 223727 |
|     | K35 |            | 207442 |        |        | 206555 | 206556 | 206557 | 206558 | 206559 | 206560 | 206561 |
|     | K40 |            |        |        |        | 207443 |        | 223726 |        |        |        |        |
|     | K45 |            |        |        |        |        |        |        |        |        |        |        |
|     | K50 |            |        |        |        | 223725 |        |        |        |        |        |        |
| 20  | W25 |            |        |        | 207731 |        |        |        |        |        |        |        |
|     | K30 |            | 201040 |        |        | 201042 |        |        |        | 206990 |        |        |
|     | K35 |            | 206563 |        |        | 206565 | 206566 | 206988 |        |        | 206570 | 206571 |
|     | K40 |            | 207448 |        |        | 207449 |        | 206567 |        |        |        |        |
|     | K45 |            |        |        |        |        |        | 207450 |        |        |        |        |
|     | K50 |            |        |        |        |        |        | 207451 |        |        |        |        |
| 24  | W25 |            | 207744 |        |        | 207746 |        |        |        |        |        |        |
|     | K30 |            |        |        | 207605 | 201045 |        | 207606 |        | 207608 |        | 207610 |
|     | K35 |            | 206573 |        | 206574 | 206575 |        | 206576 |        | 206578 | 206579 | 206580 |
|     | K40 |            | 206853 |        | 206854 | 206855 |        | 206856 |        | 206858 |        | 206860 |
|     | K45 |            |        |        |        | 207456 |        |        |        |        | 207457 |        |
|     | K50 |            |        |        |        |        |        |        |        |        |        |        |
| 30  | W25 |            |        |        |        |        |        |        |        |        | 207761 |        |
|     | K30 |            | 207616 |        |        | 207617 |        |        |        |        |        |        |
|     | K35 |            | 206582 |        |        |        |        |        |        | 206585 |        |        |
|     | K40 |            |        |        |        |        |        | 206864 |        |        |        |        |
|     | K45 |            |        |        |        |        |        |        |        |        |        |        |
|     | K50 |            |        |        |        |        |        |        |        |        |        |        |
| 36  | W25 |            |        |        |        |        |        |        |        |        |        |        |
|     | K30 |            |        |        |        |        |        |        |        |        |        |        |
|     | K35 |            |        |        |        |        |        |        |        |        |        |        |
|     | K40 |            |        |        |        |        |        |        |        |        |        |        |
|     | K45 |            |        |        |        |        |        |        |        |        |        |        |
|     | K50 |            |        |        |        |        |        |        |        |        |        |        |

# SELECTION/DIMENSIONS



## QD Heavy Duty Wing Pulleys

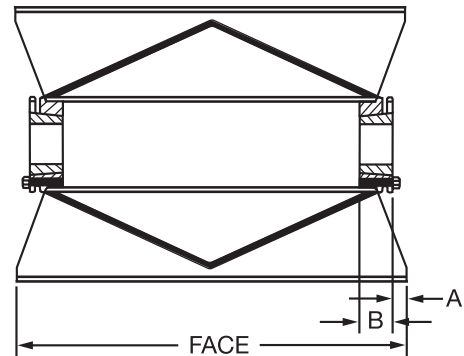


- Designed to CEMA specifications
- Standard crown face or straight face available
- 6" to 60" diameter and face widths exceeding 100". Others available upon request.
- Flange mount bushing system
- Available with replaceable WING-LAG, vulcanized lagging, or replaceable weld-on strip lagging
- Available from stock

### QD Dimensions

| QD Hub | A      | B       | Bushing | Max. Bore* | Screw Torque (in.-lb.) |
|--------|--------|---------|---------|------------|------------------------|
| SF     | 3/4    | 2-1/16  | SF      | 2-1/2      | 360                    |
| E      | 7/8    | 2-3/4   | E       | 3          | 720                    |
| F      | 15/16  | 3-3/4   | F       | 3-1/2      | 900                    |
| JS     | 1-1/16 | 3-3/8   | J       | 4          | 1620                   |
| MS     | 1-9/16 | 4-13/16 | M       | 4-1/2      | 2700                   |
| NS     | 1-1/4  | 6       | N       | 6          | 3600                   |
| PS     | 1      | 6-1/2   | P       | 7          | 5400                   |

\* Maximum recommended for Conveyor Pulley applications







## QD Heavy Duty Crown Wing Pulley Part Numbers

| Dia | Hub                        | Face Width |        |        |        |        |        |        |        |                            |        |                            |
|-----|----------------------------|------------|--------|--------|--------|--------|--------|--------|--------|----------------------------|--------|----------------------------|
|     |                            | 10         | 12     | 14     | 16     | 18     | 20     | 22     | 24     | 26                         | 30     | 32                         |
| 6   | SF                         |            |        |        |        |        |        |        |        |                            |        |                            |
| 8   | SF                         | 208001     | 208002 | 208003 | 208004 | 208005 | 208006 | 208007 | 208008 | 208009                     | 208010 | 208011                     |
|     | E<br>F                     |            |        |        |        |        |        |        |        |                            |        |                            |
| 10  | SF                         |            | 208014 | 208015 | 208016 | 208017 | 208018 | 208019 | 208020 | 207350                     | 208021 | 207351                     |
|     | E<br>F                     |            |        |        |        |        |        |        |        |                            |        |                            |
| 12  | SF                         |            | 208027 | 208029 | 208031 | 208033 | 207353 | 208036 | 208038 | 207354                     | 208040 | 207356                     |
|     | E<br>F<br>J<br>M           |            |        | 208030 |        | 208034 | 208035 | 208037 | 208039 | 207355                     | 208041 | 207357                     |
| 14  | SF                         | 208052     | 208054 | 208056 | 208058 |        | 207359 | 208063 | 208065 | 207360                     | 208067 | 207362                     |
|     | E<br>F<br>J<br>M<br>N      |            |        |        |        |        |        |        |        | 207361                     | 208068 | 207363                     |
| 16  | SF                         | 208079     | 208081 | 208083 | 208085 | 208087 | 208089 | 208091 | 208093 | 207366                     | 208095 | 207368                     |
|     | E<br>F<br>J<br>M<br>N<br>P |            |        | 208084 | 208086 |        | 208090 |        |        | 207367<br>223738<br>223739 | 208096 | 207369<br>208766<br>223740 |
| 18  | SF                         |            | 208117 | 208119 | 208121 | 208769 | 208124 | 208126 | 208128 | 207371                     | 208130 | 207376                     |
|     | E<br>F<br>J<br>M<br>N<br>P |            |        | 208120 | 208122 |        | 208125 | 208127 |        | 207372<br>223745<br>223746 | 208131 | 207373<br>223747<br>223748 |

# SELECTION



## QD Heavy Duty Crown Wing Pulley Part Numbers

| Dia | Hub | Face Width |        |        |        |        |        |        |        |        |        |
|-----|-----|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|     |     | 34         | 36     | 38     | 40     | 42     | 44     | 46     | 51     | 57     | 63     |
| 6   | SF  |            |        |        |        |        |        |        |        |        |        |
| 8   | SF  |            |        | 208012 |        |        | 208013 |        |        |        |        |
|     | E   |            |        |        |        |        |        |        |        |        |        |
|     | F   |            |        |        |        |        |        |        |        |        |        |
| 10  | SF  |            | 208023 | 207352 |        | 208025 | 208026 |        | 208762 | 223732 | 223734 |
|     | E   |            |        |        |        |        | 208761 |        | 223731 |        | 223733 |
|     | F   |            |        |        |        |        |        |        |        |        |        |
| 12  | SF  | 208042     |        | 207378 | 208044 |        | 208046 |        | 208050 |        |        |
|     | E   |            |        | 207358 | 208045 |        | 208047 |        | 208051 |        |        |
|     | F   |            |        | 223735 |        |        |        |        | 223737 |        |        |
|     | J   |            |        | 223736 |        |        |        |        |        |        |        |
|     | M   |            |        |        |        |        |        |        |        |        |        |
| 14  | SF  |            |        | 207364 | 208073 |        | 208075 |        | 208077 |        | 208765 |
|     | E   |            |        | 207365 | 208074 |        | 208076 |        | 208078 |        |        |
|     | F   |            |        | 208764 |        |        |        |        |        |        |        |
|     | J   |            |        |        |        |        |        |        |        |        |        |
|     | M   |            |        |        |        |        |        |        |        |        |        |
| 16  | SF  | 208097     | 208099 | 208767 | 208102 |        | 208105 |        | 208111 | 208114 | 208768 |
|     | E   |            | 208100 | 207370 | 208103 |        | 208106 |        | 208112 | 208115 |        |
|     | F   |            | 208101 | 223741 | 208104 |        | 208107 | 208110 | 208113 |        |        |
|     | J   |            |        | 223742 |        |        | 223743 |        |        |        |        |
|     | M   |            |        |        |        |        |        |        |        |        |        |
|     | N   |            |        |        |        |        |        |        |        |        |        |
| 18  | SF  | 208132     | 208134 | 207377 | 208137 |        | 208140 |        | 208146 | 208149 | 208153 |
|     | E   |            | 208135 | 207374 | 208138 |        | 208141 | 208144 | 208147 | 208150 |        |
|     | F   |            |        | 207375 |        |        | 208142 | 208145 | 208148 | 208151 |        |
|     | J   |            |        | 223749 |        |        | 223750 |        | 208770 |        |        |
|     | M   |            |        |        |        |        |        |        | 223751 |        |        |
|     | N   |            |        |        |        |        |        |        |        |        |        |
| P   |     |            |        |        |        |        |        |        |        |        |        |

Conveyor Components

Engineering

Part Number Index

Keyword Index



**QD Heavy Duty Crown Wing Pulley Part Numbers**

| Dia | Hub | Face Width |        |        |        |        |        |        |        |        |    |        |
|-----|-----|------------|--------|--------|--------|--------|--------|--------|--------|--------|----|--------|
|     |     | 10         | 12     | 14     | 16     | 18     | 20     | 22     | 24     | 26     | 30 | 32     |
| 20  | SF  |            | 208155 | 208157 | 208159 | 208161 | 208163 | 208165 | 208167 | 208169 |    | 208172 |
|     | E   |            |        | 208158 | 208160 | 208162 | 208164 |        |        | 208170 |    | 208173 |
|     | F   |            |        |        |        | 208771 |        |        |        | 208171 |    | 208174 |
|     | J   |            |        |        |        |        |        |        |        |        |    |        |
|     | M   |            |        |        |        |        |        |        |        |        |    |        |
|     | N   |            |        |        |        |        |        |        |        |        |    |        |
| 24  | SF  |            |        | 208199 | 208201 | 208203 | 208205 | 208207 |        | 208209 |    | 208213 |
|     | E   |            |        | 208200 | 208202 |        | 208206 |        |        | 208210 |    | 208214 |
|     | F   |            |        |        |        |        |        |        |        | 208211 |    | 208215 |
|     | J   |            |        |        |        |        |        |        |        |        |    | 208216 |
|     | M   |            |        |        |        |        |        |        |        |        |    |        |
|     | N   |            |        |        |        |        |        |        |        |        |    |        |
| 30  | SF  |            |        | 208245 | 208247 |        | 208251 |        |        | 208253 |    | 208259 |
|     | E   |            |        | 208246 | 208248 |        | 208252 |        |        | 208254 |    | 208260 |
|     | F   |            |        |        |        |        |        |        |        |        |    |        |
|     | J   |            |        |        |        |        |        |        |        |        |    |        |
|     | M   |            |        |        |        |        |        |        |        |        |    |        |
|     | N   |            |        |        |        |        |        |        |        |        |    |        |
| 36  | SF  |            |        |        | 208277 | 208280 |        |        |        |        |    |        |
|     | E   |            |        |        |        | 208281 |        |        |        |        |    |        |
|     | F   |            |        |        |        |        |        |        |        |        |    |        |
|     | J   |            |        |        | 208279 |        |        |        |        |        |    |        |
|     | M   |            |        |        |        |        |        |        |        |        |    |        |
|     | N   |            |        |        |        |        |        |        |        |        |    |        |



## QD Heavy Duty Crown Wing Pulley Part Numbers

| Dia | Hub    | Face Width |        |        |        |    |        |        |        |        |        |
|-----|--------|------------|--------|--------|--------|----|--------|--------|--------|--------|--------|
|     |        | 34         | 36     | 38     | 40     | 42 | 44     | 46     | 51     | 57     | 63     |
| 20  | SF     |            |        | 208178 |        |    | 208184 |        | 208190 |        |        |
|     | E      |            | 208176 | 208179 | 208182 |    | 208185 |        | 208191 |        | 208197 |
|     | F      |            |        | 208180 | 208183 |    | 208186 |        | 208192 | 208195 | 208198 |
|     | J      |            |        | 223752 |        |    | 208772 |        | 208775 |        |        |
|     | M      |            |        |        |        |    | 208773 |        |        |        |        |
|     | N<br>P |            |        |        |        |    |        |        |        |        |        |
| 24  | SF     |            |        | 208221 |        |    |        |        |        |        |        |
|     | E      |            | 208218 | 208222 |        |    | 208226 |        | 208234 |        | 208242 |
|     | F      |            |        | 208223 |        |    | 208227 | 208231 | 208235 | 208239 | 208243 |
|     | J      |            | 208220 | 208224 |        |    | 208228 |        | 208236 | 208240 | 208244 |
|     | M      |            |        |        |        |    | 223753 |        | 223754 |        |        |
|     | N<br>P |            |        |        |        |    | 208776 |        | 208777 | 208778 |        |
| 30  | SF     |            |        | 208261 |        |    |        |        | 208269 |        |        |
|     | E      |            |        | 208262 |        |    | 208266 |        | 208270 |        |        |
|     | F      |            |        | 208263 |        |    | 208267 |        | 208271 |        |        |
|     | J      |            |        | 208264 |        |    | 208268 |        | 208272 |        |        |
|     | M      |            |        |        |        |    |        |        |        |        |        |
|     | N<br>P |            |        |        |        |    |        |        |        |        |        |
| 36  | SF     |            |        | 208289 |        |    |        |        | 208295 |        |        |
|     | E      |            |        |        |        |    | 208293 |        | 208296 | 208299 |        |
|     | F      |            |        |        |        |    |        |        | 208297 | 208300 |        |
|     | J      |            |        | 208291 |        |    |        |        |        |        |        |
|     | M      |            |        |        |        |    |        |        |        |        |        |
|     | N<br>P |            |        |        |        |    |        |        |        |        |        |

Conveyor Components

Engineering

Part Number Index

Keyword Index



**QD Heavy Duty Crown Wing Pulley Part Numbers**

| Dia | Hub    | Face Width |        |        |        |        |        |        |        |        |    |        |
|-----|--------|------------|--------|--------|--------|--------|--------|--------|--------|--------|----|--------|
|     |        | 10         | 12     | 14     | 16     | 18     | 20     | 22     | 24     | 26     | 30 | 32     |
| 20  | SF     |            | 208155 | 208157 | 208159 | 208161 | 208163 | 208165 | 208167 | 208169 |    | 208172 |
|     | E      |            |        | 208158 | 208160 | 208162 | 208164 |        |        | 208170 |    | 208173 |
|     | F      |            |        |        |        | 208771 |        |        |        | 208171 |    | 208174 |
|     | J      |            |        |        |        |        |        |        |        |        |    |        |
|     | M      |            |        |        |        |        |        |        |        |        |    |        |
|     | N<br>P |            |        |        |        |        |        |        |        |        |    |        |
| 24  | SF     |            |        | 208199 | 208201 | 208203 | 208205 | 208207 |        | 208209 |    | 208213 |
|     | E      |            |        | 208200 | 208202 |        | 208206 |        |        | 208210 |    | 208214 |
|     | F      |            |        |        |        |        |        |        |        | 208211 |    | 208215 |
|     | J      |            |        |        |        |        |        |        |        |        |    | 208216 |
|     | M      |            |        |        |        |        |        |        |        |        |    |        |
|     | N<br>P |            |        |        |        |        |        |        |        |        |    |        |
| 30  | SF     |            |        | 208245 | 208247 |        | 208251 |        |        | 208253 |    |        |
|     | E      |            |        | 208246 | 208248 |        | 208252 |        |        | 208254 |    |        |
|     | F      |            |        |        |        |        |        |        |        |        |    | 208259 |
|     | J      |            |        |        |        |        |        |        |        |        |    | 208260 |
|     | M      |            |        |        |        |        |        |        |        |        |    |        |
|     | N<br>P |            |        |        |        |        |        |        |        |        |    |        |
| 36  | SF     |            |        |        | 208277 | 208280 |        |        |        |        |    |        |
|     | E      |            |        |        |        | 208281 |        |        |        |        |    |        |
|     | F      |            |        |        |        |        |        |        |        |        |    |        |
|     | J      |            |        |        | 208279 |        |        |        |        |        |    |        |
|     | M      |            |        |        |        |        |        |        |        |        |    |        |
|     | N<br>P |            |        |        |        |        |        |        |        |        |    |        |



## QD Heavy Duty Crown Wing Pulley Part Numbers

| Dia | Hub    | Face Width |        |        |        |    |        |        |        |        |        |
|-----|--------|------------|--------|--------|--------|----|--------|--------|--------|--------|--------|
|     |        | 34         | 36     | 38     | 40     | 42 | 44     | 46     | 51     | 57     | 63     |
| 20  | SF     |            |        | 208178 |        |    | 208184 |        | 208190 |        |        |
|     | E      |            | 208176 | 208179 | 208182 |    | 208185 |        | 208191 |        | 208197 |
|     | F      |            |        | 208180 | 208183 |    | 208186 |        | 208192 | 208195 | 208198 |
|     | J      |            |        | 223752 |        |    | 208772 |        | 208775 |        |        |
|     | M      |            |        |        |        |    | 208773 |        |        |        |        |
|     | N<br>P |            |        |        |        |    |        |        |        |        |        |
| 24  | SF     |            |        | 208221 |        |    |        |        |        |        |        |
|     | E      |            | 208218 | 208222 |        |    | 208226 |        | 208234 |        | 208242 |
|     | F      |            |        | 208223 |        |    | 208227 | 208231 | 208235 | 208239 | 208243 |
|     | J      |            | 208220 | 208224 |        |    | 208228 |        | 208236 | 208240 | 208244 |
|     | M      |            |        |        |        |    | 223753 |        | 223754 |        |        |
|     | N<br>P |            |        |        |        |    | 208776 |        | 208777 | 208778 |        |
| 30  | SF     |            |        | 208261 |        |    |        |        | 208269 |        |        |
|     | E      |            |        | 208262 |        |    | 208266 |        | 208270 |        |        |
|     | F      |            |        | 208263 |        |    | 208267 |        | 208271 |        |        |
|     | J      |            |        | 208264 |        |    | 208268 |        | 208272 |        |        |
|     | M      |            |        |        |        |    |        |        |        |        |        |
|     | N<br>P |            |        |        |        |    |        |        |        |        |        |
| 36  | SF     |            |        | 208289 |        |    |        |        | 208295 |        |        |
|     | E      |            |        |        |        |    | 208293 |        | 208296 | 208299 |        |
|     | F      |            |        |        |        |    |        |        | 208297 | 208300 |        |
|     | J      |            |        | 208291 |        |    |        |        |        |        |        |
|     | M      |            |        |        |        |    |        |        |        |        |        |
|     | N<br>P |            |        |        |        |    |        |        |        |        |        |

Conveyor Components

Engineering

Part Number Index

Keyword Index



# SELECTION



## Heavy Duty Wing Pulley Average Weights - HE, TAPER-LOCK and QD

| Dia. | Max. Bore | Face Width |     |     |     |     |     |     |     |      |      |
|------|-----------|------------|-----|-----|-----|-----|-----|-----|-----|------|------|
|      |           | 12         | 14  | 16  | 18  | 20  | 22  | 24  | 26  | 30   | 32   |
| 24   | 2.5       | 175        | 198 | 220 | 243 | 267 | 290 | 314 | 337 | 385  | 409  |
|      | 3         | 186        | 208 | 230 | 253 | 275 | 298 | 321 | 344 | 391  | 414  |
|      | 3.5       | 192        | 213 | 234 | 256 | 278 | 300 | 322 | 345 | 390  | 412  |
|      | 4         | 198        | 220 | 242 | 265 | 288 | 311 | 334 | 358 | 405  | 429  |
|      | 4.5       | ...        | 232 | 254 | 277 | 300 | 324 | 347 | 371 | 419  | 443  |
|      | 5         | ...        | ... | 285 | 307 | 330 | 353 | 376 | 399 | 446  | 470  |
| 30   | 6         | ...        | ... | ... | 375 | 397 | 419 | 442 | 464 | 510  | 533  |
|      | 2.5       | 281        | 318 | 354 | 391 | 429 | 466 | 504 | 542 | 618  | 656  |
|      | 3         | 291        | 326 | 362 | 398 | 434 | 471 | 508 | 545 | 619  | 657  |
|      | 3.5       | 295        | 329 | 363 | 398 | 434 | 469 | 505 | 541 | 614  | 650  |
|      | 4         | 298        | 333 | 368 | 404 | 440 | 476 | 513 | 549 | 623  | 660  |
|      | 4.5       | ...        | 343 | 378 | 414 | 450 | 486 | 523 | 559 | 633  | 670  |
|      | 5         | ...        | ... | 406 | 441 | 476 | 511 | 548 | 582 | 654  | 691  |
|      | 6         | ...        | ... | ... | 503 | 537 | 571 | 605 | 640 | 709  | 744  |
| 36   | 7         | ...        | ... | ... | 559 | 592 | 625 | 658 | 691 | 758  | 792  |
|      | 8         | ...        | ... | ... | ... | 630 | 663 | 697 | 731 | 800  | 834  |
|      | 3         | 452        | 510 | 568 | 627 | 686 | 745 | 804 | 864 | 984  | 1044 |
|      | 3.5       | 453        | 509 | 566 | 623 | 680 | 738 | 795 | 854 | 970  | 1029 |
|      | 4         | 453        | 509 | 566 | 623 | 680 | 738 | 796 | 854 | 971  | 1029 |
|      | 4.5       | ...        | 517 | 547 | 630 | 686 | 744 | 801 | 859 | 975  | 1033 |
|      | 5         | ...        | ... | 596 | 651 | 706 | 762 | 817 | 874 | 987  | 1044 |
|      | 6         | ...        | ... | ... | 705 | 758 | 812 | 866 | 920 | 1028 | 1083 |
| 36   | 7         | ...        | ... | ... | 754 | 805 | 856 | 908 | 959 | 1064 | 1117 |
|      | 8         | ...        | ... | ... | ... | 830 | 881 | 932 | 983 | 1086 | 1138 |

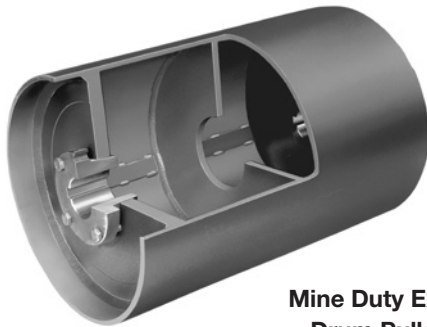
## Heavy Duty Wing Pulley Average Weights - HE, TAPER-LOCK and QD

| Dia. | Max. Bore | Face Width |      |      |      |      |      |      |      |      |      |      |
|------|-----------|------------|------|------|------|------|------|------|------|------|------|------|
|      |           | 36         | 38   | 40   | 44   | 46   | 51   | 54   | 57   | 60   | 63   | 66   |
| 24   | 2.5       | 457        | 482  | 506  | 555  | 579  | 640  | 676  | 713  | 750  | 787  | 823  |
|      | 3         | 461        | 485  | 508  | 556  | 579  | 639  | 674  | 710  | 746  | 782  | 818  |
|      | 3.5       | 458        | 481  | 504  | 550  | 573  | 630  | 665  | 700  | 734  | 769  | 804  |
|      | 4         | 477        | 501  | 525  | 573  | 597  | 657  | 694  | 730  | 766  | 803  | 839  |
|      | 4.5       | 491        | 515  | 539  | 588  | 612  | 673  | 710  | 746  | 783  | 819  | 856  |
|      | 5         | 517        | 541  | 564  | 612  | 636  | 695  | 731  | 767  | 803  | 839  | 875  |
| 30   | 6         | 579        | 602  | 625  | 671  | 694  | 752  | 787  | 821  | 856  | 891  | 926  |
|      | 2.5       | 733        | 772  | 811  | 889  | 928  | 1025 | 1084 | 1142 | 1201 | 1260 | 1319 |
|      | 3         | 732        | 770  | 808  | 884  | 922  | 1017 | 1074 | 1132 | 1189 | 1247 | 1304 |
|      | 3.5       | 723        | 760  | 797  | 871  | 908  | 1001 | 1056 | 1112 | 1168 | 1224 | 1280 |
|      | 4         | 735        | 773  | 810  | 886  | 923  | 1018 | 1075 | 1132 | 1189 | 1246 | 1303 |
|      | 4.5       | 745        | 782  | 820  | 895  | 933  | 1028 | 1084 | 1141 | 1198 | 1255 | 1312 |
|      | 5         | 764        | 800  | 837  | 911  | 948  | 1040 | 1095 | 1151 | 1207 | 1262 | 1318 |
|      | 6         | 815        | 850  | 886  | 957  | 993  | 1082 | 1136 | 1190 | 1243 | 1297 | 1351 |
| 36   | 7         | 860        | 895  | 929  | 998  | 1032 | 1119 | 1170 | 1222 | 1274 | 1326 | 1378 |
|      | 8         | 904        | 939  | 974  | 1044 | 1079 | 1167 | 1220 | 1272 | 1325 | 1378 | 1431 |
|      | 3         | 1165       | 1225 | 1286 | 1408 | 1469 | 1621 | 1713 | 1805 | 1897 | 1989 | 2082 |
|      | 3.5       | 1147       | 1206 | 1265 | 1384 | 1443 | 1592 | 1682 | 1772 | 1861 | 1951 | 2041 |
|      | 4         | 1147       | 1207 | 1266 | 1385 | 1445 | 1594 | 1684 | 1774 | 1864 | 1954 | 2044 |
|      | 4.5       | 1150       | 1209 | 1268 | 1386 | 1446 | 1594 | 1683 | 1772 | 1862 | 1951 | 2041 |
|      | 5         | 1158       | 1215 | 1273 | 1388 | 1446 | 1590 | 1677 | 1764 | 1852 | 1939 | 2026 |
|      | 6         | 1193       | 1249 | 1304 | 1415 | 1471 | 1610 | 1694 | 1778 | 1862 | 1946 | 2031 |
| 36   | 7         | 1223       | 1276 | 1329 | 1436 | 1490 | 1624 | 1705 | 1786 | 1867 | 1948 | 2029 |
|      | 8         | 1243       | 1296 | 1349 | 1454 | 1508 | 1640 | 1720 | 1800 | 1880 | 1961 | 2041 |

|                                  |                              |                             |                                      |
|----------------------------------|------------------------------|-----------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT15-2 | SPECIFICATION<br>PAGE PT15-4 | NOMENCLATURE<br>PAGE PT15-7 | SELECTION/DIMENSIONS<br>PAGE PT15-10 |
|----------------------------------|------------------------------|-----------------------------|--------------------------------------|



## Mine Duty Extra Drum Pulleys



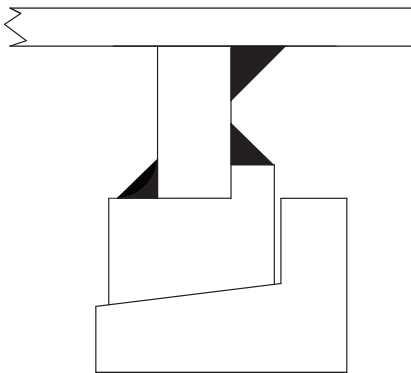
Mine Duty Extra Drum Pulley



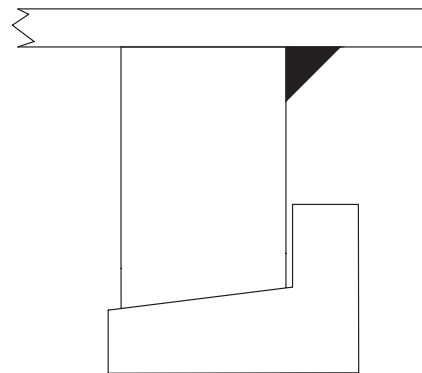
Mine Duty Extra Drum Pulley

- Integral one-piece end discs are machined, drilled and tapped to accept bushing and bushing bolts, serving as the hub and end disc in one piece, eliminating the hub to end disc weld - the most common failure point on a conveyor pulley
- Standard crown face or straight face available
- 6" - 60" diameter and face widths exceeding 100". Others available upon request.
- HE bushing system - 14° taper - designed specifically for Dodge conveyor pulleys
- Greater capacity than standard competitors' mine duty pulleys
- Available in spiral drum construction
- Increased rim thickness over CEMA construction

### Mine Duty Pulley Types



Welded Hub Design



Integral Hub Design

|                                  |                              |                             |                                      |
|----------------------------------|------------------------------|-----------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT15-2 | SPECIFICATION<br>PAGE PT15-4 | NOMENCLATURE<br>PAGE PT15-7 | SELECTION/DIMENSIONS<br>PAGE PT15-10 |
|----------------------------------|------------------------------|-----------------------------|--------------------------------------|



**Mine Duty Extra Crown Drum Pulley Part Numbers**

| Dia | Hub  | Face Width |                            |  |        |  |                            |  |
|-----|--|------------|----------------------------|--|--------|--|----------------------------|--|
|     |  | 20         | 24                         | 26   | 30     | 32   | 36                         | 38   |
| 6   | HE25   |            |                            |  |        |  |                            |  |
| 8   | HE25<br>HE30<br>HE35   |            |                            |  |        |  |                            |  |
| 10  | HE30<br>HE35   |            |                            | 209864   |        | 223984   |                            |  |
| 12  | HE30<br>HE35<br>HE40<br>HE45                                 |            |                            | 205917<br>205918<br>223991                     |        | 208831<br>205919<br>223993                               |                            | 208844<br>208845<br>209866                               |
| 14  | HE30<br>HE35<br>HE40<br>HE45<br>HE50                         |            |                            | 205924<br>224003                               |        | 208833<br>224004<br>224005                               |                            | 208847<br>205925<br>205926                               |
| 16  | HE30<br>HE35<br>HE40<br>HE45<br>HE50<br>HE60                 | 224013     |                            | 205934<br>205935<br>205705                     |        | 208835<br>205936<br>205937                               |                            | 208849<br>205938<br>205939<br>224015<br>224016           |
| 18  | HE30<br>HE35<br>HE40<br>HE45<br>HE50<br>HE60<br>HE70         |            |                            | 205945<br>205946<br>209874<br>224027<br>224028 | 224031 | 208837<br>205947<br>205948<br>224032                     | 224033<br><br>224034       | 208850<br>208851<br>208852<br>224035<br>209875           |
| 20  | HE30<br>HE35<br>HE40<br>HE45<br>HE50<br>HE60<br>HE70<br>HE80 |            | 224056<br>224057<br>224058 | 205955<br>205956<br>224059                     |        | 208838<br>208839<br>205958<br>209878                     |                            | 208853<br>208854<br>208855<br>224060<br>209879<br>224061 |
| 24  | HE30<br>HE35<br>HE40<br>HE45<br>HE50<br>HE60<br>HE70<br>HE80 |            |                            | 205965<br>205967<br>205968<br><br>205575       |        | 208840<br>208841<br>208842<br>224091<br>224092<br>224093 | 224095<br>224096<br>224097 | 205969<br>208856<br>208857<br>208858<br>209884<br>224099 |
| 30  | HE30<br>HE35<br>HE40<br>HE45<br>HE50<br>HE60<br>HE70<br>HE80 |            |                            |  |        | 224129<br>205976<br>205977<br>209889                     | 224130                     | 205978<br>209890<br>224131<br>224132<br>224133           |
| 36  | HE30<br>HE35<br>HE40<br>HE45<br>HE50<br>HE60<br>HE70<br>HE80 |            |                            |  |        |  |                            | 224152   |



## Mine Duty Extra Crown Drum Pulley Part Numbers (continued)

| Dia | Hub  | Face Width   |  |  |  |  |  |  |
|-----|--|--|--|--|--|--|--|--|
|     |  | 40   | 44   | 46   | 51   | 54   | 57   | 63   |
| 6   | HE25   |  |  |  |  |  |  |  |
| 8   | HE25<br>HE30<br>HE35   |  |  |  |  |  |  |  |
| 10  | HE30<br>HE35   |  | 223986   |  | 223987   |  |  |  |
| 12  | HE30<br>HE35<br>HE40<br>HE45                                 | 205900   | 208860<br>205920   | 223994   | 205922<br>209867<br>223995   |  | 223996<br>223997<br>223998   | 224000<br>224001   |
| 14  | HE30<br>HE35<br>HE40<br>HE45<br>HE50                         | 224006   | 205928<br>205929<br>224007   | 205901   | 205931<br>205932<br>224008<br><br>224009                           |  |  | 224010<br>224011   |
| 16  | HE30<br>HE35<br>HE40<br>HE45<br>HE50<br>HE60                 | 224017<br>209870<br>205902<br><br>205903                 | 208862<br>208863<br>208864<br>209871<br>224018                     | 205904<br><br><br>205905                       | 205941<br>205942<br>205943<br>209872<br>224019                     | 224020   | 224021<br>224022<br><br>224023                                     | 209873<br>224024<br>224025<br>224026                               |
| 18  | HE30<br>HE35<br>HE40<br>HE45<br>HE50<br>HE60<br>HE70         | 224036<br>205906<br>205907<br>205908                     | 208865<br>208866<br>205950<br>224038<br>224039<br>224040           | 224041<br>224042<br>205909<br>224043<br>205910 | 205951<br>205952<br>205953<br>224045<br>209876<br>224046           |  | 224047<br>224048<br>224049<br>209877<br>224050                     | 224051<br>224052<br>224053<br>224054                               |
| 20  | HE30<br>HE35<br>HE40<br>HE45<br>HE50<br>HE60<br>HE70<br>HE80 | 224062<br>224063<br>224064<br>205911<br>205912<br>224065 | 205960<br>208867<br>208868<br>209880<br>224067<br>224068           | 224069<br>224070<br>224071<br>209881<br>224072 | 205961<br>205962<br>205963<br>209882<br>224073<br>224074<br>224075 | 224076<br>224077<br>224078<br><br>224079       | 224080<br>224081<br>224082<br>224083                               | 205897<br>224084<br>224085<br>209883<br>224086<br>224087           |
| 24  | HE30<br>HE35<br>HE40<br>HE45<br>HE50<br>HE60<br>HE70<br>HE80 | 224100<br>209885<br>224101<br>205913                     | 205970<br>205971<br>208869<br>208870<br>224102<br>224103<br>224104 | 224105<br>224106<br>224107<br>205914<br>205915 | 205972<br>205973<br>205974<br>205975<br>209886<br>224109<br>224110 | 224112<br>224113<br>224114<br>224115<br>224116 | 224117<br>209887<br>209888<br>224118<br>224119<br>224120<br>224121 | 224122<br>224123<br>224124<br>224125<br>224126<br>224127<br>224128 |
| 30  | HE30<br>HE35<br>HE40<br>HE45<br>HE50<br>HE60<br>HE70<br>HE80 | 209891   | 224134<br>209892<br>209893<br>224135<br>224136                     | 224137<br><br><br>224138                       | 224139<br>209894<br>209895<br>224140<br>224141<br>224142           | 224143   | 224144<br>224145<br>224146   | 224147<br>224148<br>224149<br>224150<br>224151                     |
| 36  | HE30<br>HE35<br>HE40<br>HE45<br>HE50<br>HE60<br>HE70<br>HE80 |  | 224153<br>224154<br>224155<br>224156<br>224157                     | 224158   | 224159<br>224160<br>224161<br>224162                               | 224163   | 224164   | 224165<br>224166<br>224167   |

|                                  |                              |                             |                                      |
|----------------------------------|------------------------------|-----------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT15-2 | SPECIFICATION<br>PAGE PT15-4 | NOMENCLATURE<br>PAGE PT15-7 | SELECTION/DIMENSIONS<br>PAGE PT15-10 |
|----------------------------------|------------------------------|-----------------------------|--------------------------------------|



## Mine Duty Extra Crown Drum Pulleys With Lagging Part Numbers

| Dia | Hub  | Lagging | Face Width |        |        |        |        |        |        |
|-----|------|---------|------------|--------|--------|--------|--------|--------|--------|
|     |      |         | 26         | 32     | 38     | 40     | 44     | 46     | 51     |
| 10  | HE30 | 3/8 HBG |            |        |        |        |        |        |        |
|     | HE35 | 3/8 HBG |            |        |        |        |        |        |        |
| 12  | HE30 | 3/8 HBG |            | 208871 | 209519 |        | 208888 |        |        |
|     | HE35 | 3/8 HBG | 205629     | 205630 | 208877 |        |        |        |        |
|     | HE40 | 3/8 HBG |            |        |        | 208883 |        |        |        |
|     | HE45 | 3/8 HBG |            |        |        |        |        |        |        |
| 14  | HE30 | 3/8 HBG |            | 208872 | 208878 |        |        |        |        |
|     | HE35 | 3/8 HBG | 205631     | 205632 | 205633 |        |        |        |        |
|     | HE40 | 3/8 HBG |            |        |        |        |        |        |        |
|     | HE45 | 3/8 HBG |            |        |        |        |        |        |        |
|     | HE50 | 3/8 HBG |            |        |        |        |        |        |        |
| 16  | HE30 | 3/8 HBG |            | 208873 | 208879 |        |        |        |        |
|     | HE35 | 3/8 HBG | 205634     | 205635 | 205637 |        | 205639 |        |        |
|     | HE40 | 3/8 HBG |            | 205636 | 205638 |        | 208889 |        |        |
|     | HE45 | 3/8 HBG |            |        |        |        |        |        |        |
|     | HE50 | 3/8 HBG |            |        |        | 208884 |        | 208893 |        |
|     | HE60 | 3/8 HBG |            |        |        |        |        |        |        |
| 18  | HE30 | 3/8 HBG |            | 208874 |        |        |        |        |        |
|     | HE35 | 3/8 HBG | 205640     | 205643 | 205646 |        | 208890 |        | 205651 |
|     | HE40 | 3/8 HBG | 205641     | 205644 | 208880 |        | 205648 |        | 205652 |
|     | HE45 | 3/8 HBG | 205642     | 205645 | 205647 | 208885 | 205649 |        | 205653 |
|     | HE50 | 3/8 HBG |            |        |        |        | 205650 | 208894 | 205654 |
|     | HE60 | 3/8 HBG |            |        |        |        |        |        |        |
|     | HE70 | 3/8 HBG |            |        |        |        |        |        |        |
| 20  | HE30 | 3/8 HBG |            |        |        |        |        |        |        |
|     | HE35 | 3/8 HBG | 205655     | 208875 |        |        |        |        |        |
|     | HE40 | 3/8 HBG |            | 205656 | 208881 |        | 208891 |        |        |
|     | HE45 | 3/8 HBG |            | 205657 | 205658 |        | 205659 |        | 205661 |
|     | HE50 | 3/8 HBG |            |        |        |        | 205660 | 208886 | 205662 |
|     | HE60 | 3/8 HBG |            |        |        |        |        |        |        |
|     | HE70 | 3/8 HBG |            |        |        |        |        |        |        |
|     | HE80 | 3/8 HBG |            |        |        |        |        |        |        |
| 24  | HE30 | 3/8 HBG |            |        |        |        |        |        |        |
|     | HE35 | 3/8 HBG |            |        |        |        |        |        |        |
|     | HE40 | 3/8 HBG | 205663     | 208876 | 208882 |        |        |        | 205667 |
|     | HE45 | 3/8 HBG |            | 205664 | 205665 |        | 208892 |        | 205668 |
|     | HE50 | 3/8 HBG |            |        |        | 208887 | 205666 |        |        |
|     | HE60 | 3/8 HBG |            |        |        |        |        | 208895 |        |
|     | HE70 | 3/8 HBG |            |        |        |        |        |        |        |
|     | HE80 | 3/8 HBG |            |        |        |        |        |        |        |



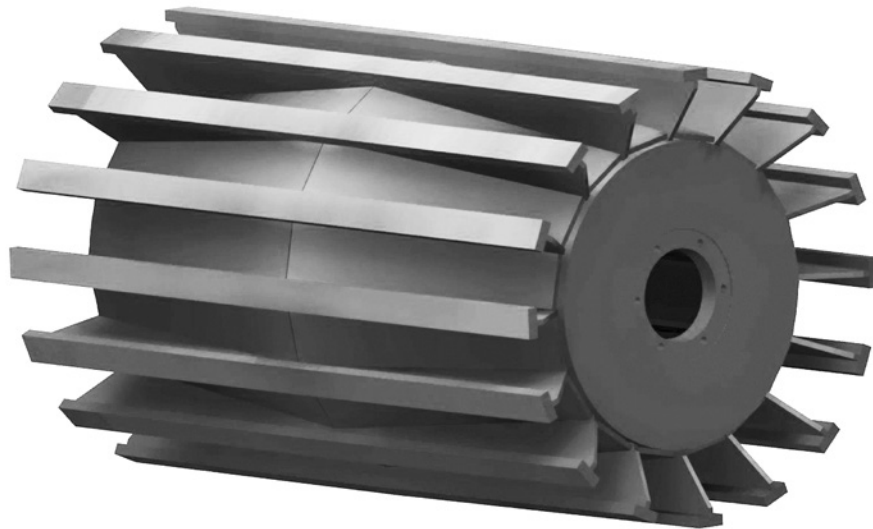
## Mine Duty Extra Wing Pulleys

Mine Duty Extra Wing Pulleys were developed to support the most rugged wing pulley applications in the quarry and mining industries. These pulleys are designed with a rigid end disc design that incorporates our proven HE bushing system. They are designed to reduce wing folding by minimizing the wing height. The Mine Duty Extra Wing pulleys far exceed the product life expectancy of other wing pulleys.

- 3/4" x 2" contact bars
- 3/8" wing thickness
- Up to 25% more belt contact area
- 5" maximum wing height (through 42" OD)

### Options

- AR400 contact bars available upon request
- Weld-on strip lagging is also available upon request



|                                  |                              |                             |                                      |
|----------------------------------|------------------------------|-----------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT15-2 | SPECIFICATION<br>PAGE PT15-4 | NOMENCLATURE<br>PAGE PT15-7 | SELECTION/DIMENSIONS<br>PAGE PT15-10 |
|----------------------------------|------------------------------|-----------------------------|--------------------------------------|





**MDX Crown Wing Pulley Part Numbers**

| Dia  | Hub  | Face Width |        |        |        |        |        |        |        |  |
|------|------|------------|--------|--------|--------|--------|--------|--------|--------|--|
|      |      | 20         | 22     | 24     | 26     | 30     | 32     | 36     | 38     | 40   |
| 10   | HE25 |            | 205518 | 205283 | 205811 |        | 205812 | 203100 | 205813 |  |
|      | HE30 |            |        |        | 205817 |        | 205818 | 203101 | 205819 |  |
| 12   | HE25 | 205845     |        |        | 205823 |        | 205824 | 203106 | 205825 |  |
|      | HE30 |            |        |        | 205829 |        | 205830 | 203107 | 205831 |  |
|      | HE35 |            |        |        | 205835 |        | 205836 | 203108 | 205837 |  |
| 14   | HE25 |            |        |        | 205377 |        | 205378 | 203115 | 205379 |  |
|      | HE30 |            |        |        | 205592 |        | 205593 | 203116 | 205594 |  |
|      | HE35 |            |        |        | 205598 |        | 205599 | 203117 | 205600 |  |
|      | HE40 |            |        |        |        |        |        |        |        |  |
| 16   | HE45 |            |        |        |        |        |        |        |        |  |
|      | HE25 |            |        |        | 205382 |        | 205383 | 203125 | 205384 |  |
|      | HE30 |            |        |        | 205387 |        | 205388 | 203126 | 205389 |  |
|      | HE35 |            |        |        | 205195 |        | 205196 | 203127 | 205197 |  |
|      | HE40 |            |        |        | 205604 |        | 205605 | 203128 | 205606 | 205841   |
| HE45 |      |            |        | 205610 |        | 205611 | 203129 | 205612 |        |  |
| 18   | HE50 |            |        |        |        |        |        |        |        |  |
|      | HE25 |            |        | 205690 | 205394 |        | 205395 | 203142 | 205396 | 205510<br>205691                               |
|      | HE30 |            |        |        | 205400 |        | 205401 | 203143 | 205402 |  |
|      | HE35 |            |        |        | 205198 |        | 205199 | 203144 | 205200 |  |
|      | HE40 |            |        |        | 205495 |        | 205496 | 203145 | 205497 |  |
|      | HE45 |            |        |        | 205616 |        | 205617 | 203146 | 205618 |  |
| HE50 |      |            |        |        |        |        |        |        |        |  |
| 20   | HE60 |            |        |        |        |        |        |        |        |  |
|      | HE30 |            |        |        | 205408 |        | 205409 | 203158 | 205410 | 205700<br>205698                               |
|      | HE35 |            |        |        | 205202 |        | 205414 | 203159 | 205415 |  |
|      | HE40 |            |        |        | 205419 |        | 205203 | 203160 | 205204 |  |
|      | HE45 |            |        |        | 205421 |        | 205422 | 203161 | 205423 |  |
|      | HE50 |            |        |        | 203157 |        | 205622 | 203162 | 205623 |  |
| HE60 |      |            |        |        |        |        |        |        |        |  |
| 24   | HE30 |            |        |        | 203202 |        | 205427 | 203170 | 205428 | 205516   |
|      | HE35 |            |        |        |        |        | 205432 | 203171 | 205433 |  |
|      | HE40 |            |        |        |        |        | 205437 | 203172 | 205438 |  |
|      | HE45 |            |        |        |        |        | 205442 | 203173 | 205443 |  |
|      | HE50 |            |        |        |        |        | 205445 | 203174 | 205446 |  |
|      | HE60 |            |        |        |        |        | 205450 |        | 205451 |  |
| 30   | HE70 |            |        |        |        |        |        |        |        |  |
|      | HE35 |            |        |        |        | 205485 |        |        | 205455 | 205455<br>205459<br>205463<br>205467<br>205471 |
|      | HE40 |            |        |        |        |        |        |        | 205459 |  |
|      | HE45 |            |        |        |        |        |        |        | 205463 |  |
|      | HE50 |            |        |        |        |        |        |        | 205467 |  |
| HE60 |      |            |        |        |        |        |        | 205471 |        |  |
| 36   | HE70 |            |        |        |        |        |        |        |        |  |
|      | HE35 |            |        |        |        |        |        |        |        |  |
|      | HE40 |            |        |        |        |        |        |        |        |  |
|      | HE45 |            |        |        |        |        |        |        |        |  |
|      | HE50 |            |        |        |        |        |        |        |        |  |
| HE60 |      |            |        |        |        |        |        |        |        |  |
| HE70 |      |            |        |        |        |        |        |        |        |  |



## MDX Crown Wing Pulley Part Numbers

| Dia | Hub  | Face Width |        |        |        |        |        |        |        |        |
|-----|------|------------|--------|--------|--------|--------|--------|--------|--------|--------|
|     |      | 44         | 46     | 50     | 51     | 52     | 54     | 57     | 60     | 63     |
| 10  | HE25 | 205814     |        |        | 205815 |        | 203102 | 203104 |        | 205816 |
|     | HE30 | 205820     |        |        | 205821 |        | 203103 | 203105 |        | 205822 |
| 12  | HE25 | 205826     |        |        | 205827 |        | 203109 | 203112 |        | 205828 |
|     | HE30 | 205832     |        |        | 205833 |        | 203110 | 203113 |        | 205834 |
|     | HE35 | 205838     | 203200 |        | 205839 | 203201 | 203111 | 203114 |        | 205840 |
| 14  | HE25 | 205380     |        | 203196 | 205381 |        | 203118 | 203121 |        | 203124 |
|     | HE30 | 205595     |        |        | 205596 |        | 203119 | 203122 |        | 205597 |
|     | HE35 | 205601     |        |        | 205602 |        | 203120 | 203123 |        | 205603 |
|     | HE40 |            |        |        |        |        |        |        |        | 205695 |
|     | HE45 | 205677     |        |        |        |        |        |        |        |        |
| 16  | HE25 | 205385     |        |        | 205386 |        | 203130 | 203135 |        | 203140 |
|     | HE30 | 205390     |        |        | 205391 |        | 203131 | 203136 |        | 203141 |
|     | HE35 | 205392     |        |        | 205393 |        | 203132 | 203137 |        | 205627 |
|     | HE40 | 205607     |        |        | 205608 |        | 203133 | 203138 |        | 205609 |
|     | HE45 | 205613     | 205842 |        | 205614 | 205843 | 203134 | 203139 |        | 205615 |
|     | HE50 | 205696     |        |        |        |        |        |        |        |        |
| 18  | HE25 | 205397     |        |        | 205398 |        | 203147 | 203152 |        | 205399 |
|     | HE30 | 205403     |        |        | 205404 |        | 203148 | 203153 | 205694 | 205405 |
|     | HE35 | 205201     |        |        | 205406 |        | 203149 | 203154 |        | 205407 |
|     | HE40 | 205498     |        |        | 205499 |        | 203150 | 203155 |        | 205500 |
|     | HE45 | 205619     | 205692 |        | 205620 | 205511 | 203151 | 203156 |        | 205621 |
|     | HE50 | 205693     | 205844 |        | 203197 |        |        |        |        |        |
|     | HE60 |            |        |        |        |        |        |        |        |        |
|     |      |            |        |        |        |        |        |        |        |        |
| 20  | HE30 | 205411     |        |        | 205412 |        | 203163 |        |        | 205413 |
|     | HE35 | 205416     |        |        | 205417 |        | 205512 | 203167 |        | 205418 |
|     | HE40 | 205205     | 203199 |        | 205206 | 205272 | 203164 | 205628 |        | 205420 |
|     | HE45 | 205424     |        |        | 205425 |        | 203165 | 203168 |        | 205426 |
|     | HE50 | 205624     |        |        | 205271 |        | 203166 | 203169 |        | 205626 |
|     | HE60 |            |        |        |        | 205282 |        | 205699 |        |        |
| 24  | HE30 | 205429     |        |        | 205430 |        | 203175 | 203181 |        | 205431 |
|     | HE35 | 205434     |        |        | 205435 |        | 203176 | 203182 |        | 205436 |
|     | HE40 | 205439     |        |        | 205440 | 205514 | 203177 | 203183 |        | 205441 |
|     | HE45 | 205207     |        |        | 205208 |        | 203178 | 203184 |        | 205444 |
|     | HE50 | 205447     |        |        | 205448 |        | 203179 | 203185 |        | 205449 |
|     | HE60 | 205452     |        |        | 205453 |        | 203180 | 205508 |        | 205454 |
|     | HE70 |            |        |        |        |        |        | 205509 |        |        |
| 30  | HE35 | 205456     |        |        | 205457 |        | 203186 |        |        | 205458 |
|     | HE40 | 205460     |        |        | 205461 |        | 203187 |        |        | 205462 |
|     | HE45 | 205464     |        |        | 205465 |        | 203188 |        |        | 205466 |
|     | HE50 | 205468     |        |        | 205469 |        | 203189 |        |        | 205470 |
|     | HE60 | 205472     |        |        | 205473 |        | 203190 |        |        | 205474 |
|     | HE70 |            |        |        |        |        |        |        |        |        |
| 36  | HE35 | 205475     |        |        | 205476 |        | 203191 |        |        | 205477 |
|     | HE40 | 205478     |        |        | 205479 |        | 203192 |        |        | 205480 |
|     | HE45 | 205481     |        |        | 205482 |        | 203193 |        |        | 205483 |
|     | HE50 | 205484     |        |        | 205490 |        | 203194 |        |        | 205491 |
|     | HE60 | 205492     |        |        | 205493 |        | 203195 |        |        | 205494 |
|     | HE70 | 205492     |        |        | 203198 |        |        |        |        |        |

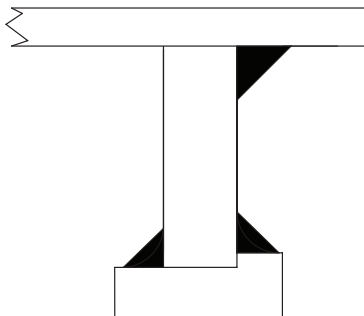


# SELECTION

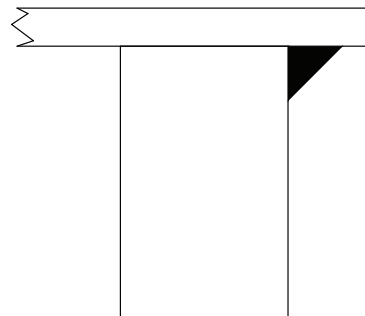
## Engineered Class Pulleys

A proven leader in its design and manufacturing - Dodge engineered class pulleys are custom-designed to the conveyor load, tensions, bearing centers and wrap angles of your application. They are supplied for belt ranges up to and exceeding 8000 pounds per inch of belt width. Finite element design, material certification, certified welding and technologically advanced lagging material assure you the exact pulley for your application.

- 14° HE bushings and hubs assure lowest bellows installation stress
- Integral hub and T-section pulleys minimize effects of welding in heat affected zones (HAZ)
- Keyless locking devices are offered for shafts up to 30" in diameter
- Full fillet welding of the internal center discs assure rugged reliability



**Welded Hub Design**



**Integral Hub Design**

|                                  |                              |                             |                                      |
|----------------------------------|------------------------------|-----------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT15-2 | SPECIFICATION<br>PAGE PT15-4 | NOMENCLATURE<br>PAGE PT15-7 | SELECTION/DIMENSIONS<br>PAGE PT15-10 |
|----------------------------------|------------------------------|-----------------------------|--------------------------------------|



# SELECTION

## Turbine Pulleys

### Turbine End Discs

Proprietary Software designs the rim, end disc, hub and shaft, and selects the locking assembly and bearings.

- All of the components designed as part of a dynamic system
- 3D Parametric Modeling and FEA are used in the design process
- Submerged Arc Welds
- No hub to end disc welds. This eliminates the most common failure point.
- Welds are Nondestructive Tested

Machining of the end disc increases the flexibility and reduces the bending moment carried by the locking assembly, hub, end disc, welds and rim.

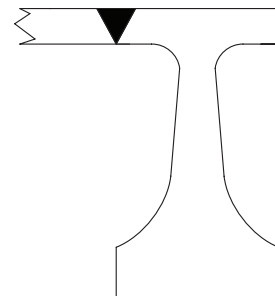
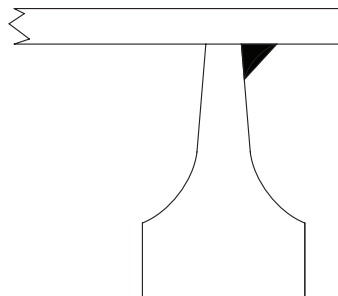
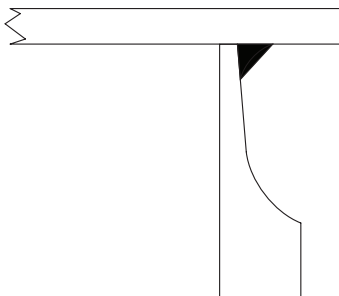


### Single and Double Profile:

- Hub and end disc machined from 1 piece of steel
- Welds are on the inside of the rim at the end disc

### T-Section

- Hub, end disc, and part of rim all machined from 1 piece of steel
- Circumferential butt weld joins the center section of the rim to the rim that is part of the end disc
- Welds are in the rim in a lower stress area away from the rim to end disc connection



**Single Profile Design**

**Double Profile Design**

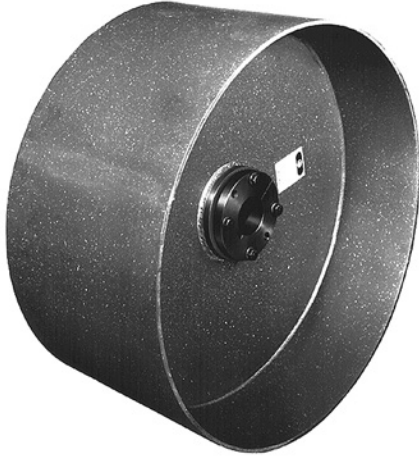
**T-Section Design**

|                                  |                              |                             |                                      |
|----------------------------------|------------------------------|-----------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT15-2 | SPECIFICATION<br>PAGE PT15-4 | NOMENCLATURE<br>PAGE PT15-7 | SELECTION/DIMENSIONS<br>PAGE PT15-10 |
|----------------------------------|------------------------------|-----------------------------|--------------------------------------|

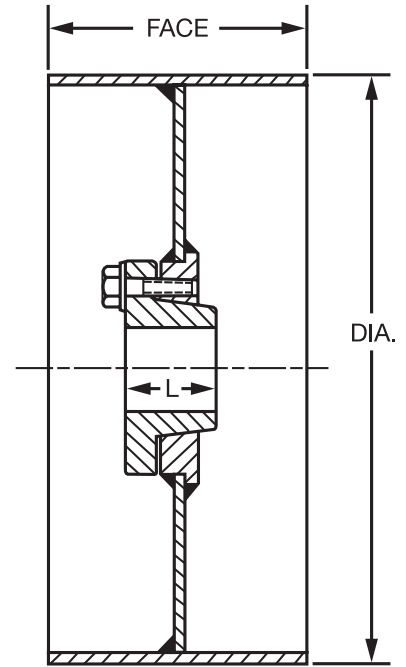


# SELECTION/DIMENSIONS

## Elevator Pulleys



- Single or dual end disc design
- Heavy, all steel construction
- Economical alternative in narrow belt applications
- Standard crown face or available straight face
- HE compression hubs
- Various diameters and face widths available
- QD and TAPER-LOCK hubs and bushings also available
- CEMA or Mine Duty Construction
- Engineered also available



### Double Disc Elevator Pulley Part Numbers

| DIA | HUB  | Face Width |        |        |        |        |        |        |        |        |        |
|-----|------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|     |      | 10         | 11     | 12     | 14     | 15     | 16     | 18     | 20     | 22     | 24     |
| 16  | HE25 | 203207     | 202000 | 203651 | 203652 | 202003 | 206090 | 206091 | 206092 | 209736 | 209952 |
|     | HE30 |            | 202001 | 202002 | 209734 | 202004 | 202005 | 203283 | 209735 | 203657 | 209737 |
| 18  | HE25 | 202006     | 224521 | 203703 | 203704 | 202012 | 209743 | 209744 | 206110 | 203712 | 209746 |
|     | HE30 | 203208     | 224522 | 202009 | 202010 | 202013 | 202015 | 203707 | 209745 | 203713 | 203718 |
|     | HE35 | 202007     | 202008 | 224523 | 202011 | 202014 | 202016 | 202017 | 203709 | 209953 | 203719 |
| 20  | HE25 | 203309     | 202020 | 209756 | 203765 | 202026 | 203766 | 203767 | 206125 | 203773 | 203778 |
|     | HE30 | 202018     | 202021 | 224524 | 202024 | 202027 | 202029 | 202031 | 209757 | 203774 | 209758 |
|     | HE35 | 202019     | 202022 | 202023 | 202025 | 202028 | 202030 | 203768 | 203770 | 203775 | 203780 |
| 24  | HE25 | 224528     | 202033 | 202035 | 202038 | 202039 | 202041 | 202043 | 202046 | 202047 | 202049 |
|     | HE30 | 203814     | 224530 | 209957 | 203816 | 224532 | 203817 | 203818 | 203819 | 209958 | 203827 |
|     | HE35 | 202032     | 224531 | 202036 | 209767 | 203392 | 202042 | 202044 | 203820 | 203824 | 203828 |
|     | HE40 | 224529     | 202034 | 202037 | 203339 | 202040 | 224533 | 202045 | 203821 | 202048 | 203829 |
| 30  | HE30 | 202050     | 202055 | 224534 | 203857 | 224538 | 203858 | 209959 | 203860 | 202070 | 202073 |
|     | HE35 | 202051     | 202056 | 224535 | 202062 | 203392 | 203210 | 202067 | 203861 | 203864 | 203868 |
|     | HE40 | 202052     | 202057 | 224536 | 224537 | 224539 | 209780 | 224541 | 203862 | 203865 | 203869 |
|     | HE45 | 202053     | 202058 | 202060 | 202063 | 224540 | 202151 | 202068 | 203863 | 202071 | 203870 |
|     | HE50 | 202054     | 202059 | 202061 | 202064 | 202065 | 202066 | 224542 | 202069 | 202072 | 202074 |
| 36  | HE30 | 202075     | 202080 | 202085 | 202090 | 202093 | 224548 | 202096 | 202098 | 202103 | 202107 |
|     | HE35 | 202076     | 202081 | 202086 | 224543 | 224545 | 203906 | 203430 | 202099 | 202104 | 202108 |
|     | HE40 | 202077     | 202082 | 202087 | 224544 | 224546 | 224549 | 203431 | 202100 | 224552 | 202109 |
|     | HE45 | 202078     | 202083 | 202088 | 202091 | 224547 | 202095 | 224551 | 202101 | 202105 | 202110 |
|     | HE50 | 202079     | 202084 | 202089 | 202092 | 202094 | 224550 | 202097 | 202102 | 202106 | 202111 |
| 42  | HE35 | 202112     | 202114 | 202116 | 202118 | 202120 | 202122 | 224554 | 224556 | 203214 | 203215 |
|     | HE40 | 202113     | 202115 | 202117 | 202119 | 202121 | 224553 | 224555 | 224557 | 202123 | 202124 |
| 48  | HE30 | 202125     | 202128 | 202131 | 202134 | 202137 | 202139 | 202142 | 202145 | 202148 | 202150 |
|     | HE35 | 202126     | 202129 | 202132 | 202135 | 224559 | 202140 | 202143 | 202146 | 203217 | 203218 |
|     | HE40 | 202127     | 202130 | 202133 | 202136 | 202138 | 202141 | 202144 | 202147 | 202149 | 224560 |

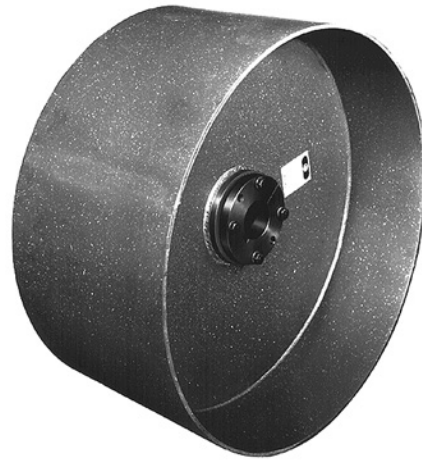
Part numbers above are for standard drum pulley units with two end-disc design. Single disc pulleys available on request.

- Heavy duty standard construction
- Holz SOF slide lagging available upon request
- Engineered upon request

|                                  |                             |                          |  |
|----------------------------------|-----------------------------|--------------------------|--|
| FEATURES/BENEFITS<br>PAGE PT15-2 | HOW TO ORDER<br>PAGE PT15-6 | SELECTION<br>PAGE PT15-9 | MODIFICATION/ACCESSORIES<br>PAGE PT15-65 |
|----------------------------------|-----------------------------|--------------------------|--|



## Elevator Pulleys



**Double Disc Elevator Pulley Part Numbers - With HOLZ SOF SLIDE LAG**

| DIA | HUB                                  | 10     | 11 | 12     | 14                         | 15                   | 16                                   | 18     | 20     | 22     | 24               |
|-----|--------------------------------------|--------|----|--------|----------------------------|----------------------|--------------------------------------|--------|--------|--------|------------------|
| 16  | HE25<br>HE30                         | 203918 |    | 224572 | 224618                     |                      | 224619                               |        | 224620 |        |                  |
| 18  | HE25<br>HE30<br>HE35                 |        |    | 224621 | 224622                     |                      | 224623                               | 224624 | 224625 |        | 224626           |
| 20  | HE25<br>HE30<br>HE35                 |        |    | 224627 | 224628                     |                      | 224629                               | 224630 | 224631 |        | 224632           |
| 24  | HE25<br>HE30<br>HE35<br>HE40         |        |    | 224633 | 224634<br>224574<br>224575 |                      | 224635                               | 224636 | 224637 |        | 224638           |
| 30  | HE30<br>HE35<br>HE40<br>HE45<br>HE50 | 224576 |    |        | 203935                     | 203936<br><br>203937 | 203938<br>224577<br>224578           |        |        |        |                  |
| 36  | HE30<br>HE35<br>HE40<br>HE45<br>HE50 |        |    | 224579 | 203942<br>203941<br>203940 |                      | 224580<br>224581<br>224582<br>224583 |        | 224639 | 224584 | 224640           |
| 42  | HE35<br>HE40                         |        |    |        | 224585                     |                      |                                      | 224586 | 224588 | 203948 |                  |
| 48  | HE30<br>HE35<br>HE40                 |        |    |        |                            |                      |                                      | 224641 | 224642 | 203955 | 203958<br>224592 |

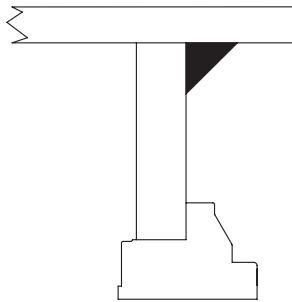




# SELECTION

## Dead Shaft Pulleys

Our design incorporates two spherical roller piloted flange bearings within the end disc, instead of using our standard bushings. This allows the pulley to rotate, while keeping the support shaft stationary. The self-aligning bearings handle the shaft misalignment instead of transmitting it to the end discs. This design may be used where space is limited, and our traditional design may not fit. Dead shaft pulleys are more compact and may allow for smaller shaft diameters through the pulley.



-----  
**Piloted Flange Bearing End Disc**

|                                  |                              |                             |                                      |
|----------------------------------|------------------------------|-----------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT15-2 | SPECIFICATION<br>PAGE PT15-4 | NOMENCLATURE<br>PAGE PT15-7 | SELECTION/DIMENSIONS<br>PAGE PT15-10 |
|----------------------------------|------------------------------|-----------------------------|--------------------------------------|

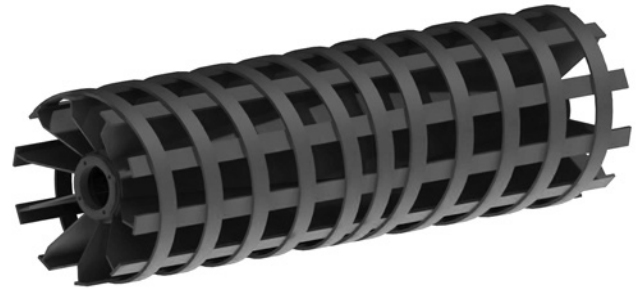


# SELECTION

## Spiral Wing Pulleys

The Dodge Spiral Wing Pulley is available from 6" to 60" diameters and face widths exceeding 100". Our Spiral Wing Pulleys are formed using a flat bar that is helically wound around the pulley, with set intervals that helps to move excess material off the pulley. The spiral design allows constant contact with the belt, eliminating excessive noise and vibration, while still cleaning the belt. Our Spiral Wing pulley is available in numerous hub and bushing designs.

- Self Cleaning, maximizes belt life



## Spiral Drum Pulleys

The Dodge Spiral Drum Pulley is available from 12" to 60" diameters and face widths exceeding 100". It is formed using a vertical steel bar that is continuously wound around the pulley, with set intervals that helps to move excess material off the pulley. The spiral design allows constant contact with the belt, promoting the cleaning of the belt. Our Spiral Drum pulley is available in various hub and bushing designs.

## Magnetic Pulleys

Dodge Magnetic Drum Pulleys are available from 8-5/8" to 36" diameters. These Magnetic Drum Pulleys are supplied with straight face stainless steel rims and HE hubs and bushings. Magnetic Drum Pulleys continuously remove iron and ferrous particles from the conveyed material. All standard lagging options are available. For specific magnetic pulley requirements, please call the Dodge Conveyor Group.



## Stainless Steel Pulleys

Dodge Stainless Steel Pulleys are available from 6" to 60" diameters with face widths exceeding 100", in either crown or straight face. These pulleys can be supplied made completely from stainless steel for corrosive environments. Or it can be supplied with stainless steel rim and end discs and carbon steel hubs for use with magnetic separator. Stainless steel bushings and shafting can also be quoted. All standard lagging options are available.

|                                  |                              |                             |                                      |
|----------------------------------|------------------------------|-----------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT15-2 | SPECIFICATION<br>PAGE PT15-4 | NOMENCLATURE<br>PAGE PT15-7 | SELECTION/DIMENSIONS<br>PAGE PT15-10 |
|----------------------------------|------------------------------|-----------------------------|--------------------------------------|



# SELECTION

## Steel Split Pulleys



- Applied in narrow belt applications
- Die formed, riveted construction
- Provides the best possible weight to strength ratio
- Interchangeable bushings for bores from 3/4” to 3-1/2”
- Available from stock
- Max speed = 500 ft/min
- Pulleys can be lagged with any standard lagging

| Bore Size  | L Bushing |                |              |              |
|------------|-----------|----------------|--------------|--------------|
|            | P/N       | Bushing Keyway | Shaft Keyway | Key Required |
| 3/4        | 051009    | 3/16 x 3/32    | 3/16 x 3/32  | 3/16 x 3/16  |
| 1          | 051020    | 1/4 x 1/8      | 1/4 x 1/8    | 1/4 x 1/4    |
| 1-3/16     | 051016    | *              | *            | *            |
| N Bushing  |           |                |              |              |
| 3/4        | 051029    | 3/16 x 3/32    | 3/16 x 3/32  | 3/16 x 3/16  |
| 1          | 051033    | 1/4 x 1/8      | 1/4 x 1/8    | 1/4 x 1/4    |
| 1-3/16     | 051036    | 1/4 x 1/8      | 1/4 x 1/8    | 1/4 x 1/4    |
| 1-1/4      | 051037    | 1/4 x 1/8      | 1/4 x 1/8    | 1/4 x 1/4    |
| 1-7/16     | 051040    | 3/8 x 1/8      | 3/8 x 1/16   | 3/8 x 5/8    |
| 1-1/2      | 051048    | 3/8 x 1/8      | 3/8 x 1/16   | 3/8 x 5/16   |
| 1-11/16    | 051044    | *              | *            | *            |
| SF Bushing |           |                |              |              |
| 3/4        | 051059    | 3/16 x 3/32    | 3/16 x 3/32  | 3/16 x 3/16  |
| 1          | 051063    | 1/4 x 1/8      | 1/4 x 1/8    | 1/4 x 1/4    |
| 1-3/16     | 051066    | 1/4 x 1/8      | 1/4 x 1/8    | 1/4 x 1/4    |
| 1-1/4      | 051067    | 1/4 x 1/8      | 1/4 x 1/8    | 1/4 x 1/4    |
| 1-7/16     | 051070    | 3/8 x 1/8      | 3/8 x 1/16   | 3/8 x 5/16   |
| 1-1/2      | 051071    | 3/8 x 1/8      | 3/8 x 1/16   | 3/8 x 5/16   |
| 1-15/16    | 051078    | 1/2 x 1/8      | 1/2 x 1/8    | 1/2 x 3/8    |
| 2-3/16     | 051082    | *              | *            | *            |

| Bore Size | G Bushing |                |              |              |
|-----------|-----------|----------------|--------------|--------------|
|           | P/N       | Bushing Keyway | Shaft Keyway | Key Required |
| 1-3/16    | 051211    | 1/4 x 1/8      | 1/4 x 1/8    | 1/4 x 1/4    |
| 1-1/4     | 051212    | 1/4 x 1/8      | 1/4 x 1/8    | 1/4 x 1/8    |
| 1-7/16    | 051215    | 3/8 x 1/8      | 3/8 x 3/16   | 3/8 x 5/16   |
| 1-1/2     | 051216    | 3/8 x 1/8      | 3/8 x 3/16   | 3/8 x 5/16   |
| 1-11/16   | 051219    | 3/8 x 1/8      | 3/8 x 3/16   | 3/8 x 5/16   |
| 1-15/16   | 051223    | 1/2 x 1/8      | 1/2 x 1/4    | 1/2 x 1/8    |
| 2         | 051224    | 1/2 x 1/8      | 1/2 x 1/4    | 1/2 x 1/8    |
| 2-3/16    | 051227    | 1/2 x 1/8      | 1/2 x 1/4    | 1/2 x 1/8    |
| 2-7/16    | 051231    | 5/8 x 3/16     | 5/8 x 5/16   | 5/8 x 1/2    |
| 2-15/16   | 051250    | 3/4 x 3/16     | 3/4 x 3/8    | 3/4 x 9/16   |
| 3-7/16    | 051247    | *              | *            | *            |

\* Keyways are not available in these sizes.

Max bore does not use a bushing. Bushing cannot be re-bored

# SELECTION



## Steel Split Pulleys

| Face Width *       | Part No. | Wt. Δ | Max. Bore | Overall Hub Length | Bushing Symbol ◇ | Face Width *        | Part No. | Wt. Δ | Max. Bore | Overall Hub Length | Bushing Symbol ◇ | Face Width *        | Part No. | Wt. Δ | Max. Bore | Overall Hub Length | Bushing Symbol ◇ |
|--------------------|----------|-------|-----------|--------------------|------------------|---------------------|----------|-------|-----------|--------------------|------------------|---------------------|----------|-------|-----------|--------------------|------------------|
| <b>3" Diameter</b> |          |       |           |                    |                  | <b>8" Diameter</b>  |          |       |           |                    |                  | <b>12" Diameter</b> |          |       |           |                    |                  |
| 3                  | 203005   | 1.3   | 1-7/16    | 3                  | L                | 2                   | 200017   | 5.6   | 2-7/16    | 2-3/8              | SF               | 3                   | 200050   | 13    | 3-1/2     | 3-5/8              | G                |
| 4                  | 203006   | 1.4   | 1-7/16    | 3                  | L                | 3                   | 200018   | 7.7   | 3-1/2     | 3-5/8              | G                | 4                   | 200051   | 14    | 3-1/2     | 3-5/8              | G                |
| 5                  | 203007   | 1.6   | 1-7/16    | 3                  | L                | 4                   | 200019   | 8.5   | 3-1/2     | 3-5/8              | G                | 5                   | 200052   | 15    | 3-1/2     | 3-5/8              | G                |
| 6                  | 203008   | 1.7   | 1-7/16    | 3                  | L                | 5                   | 200020   | 9.3   | 3-1/2     | 3-5/8              | G                | 6                   | 200053   | 17    | 3-1/2     | 3-5/8              | G                |
| <b>4" Diameter</b> |          |       |           |                    |                  | 6                   | 200021   | 9.9   | 3-1/2     | 3-5/8              | G                | 8                   | 200054   | 26    | 3-1/2     | 7-1/2              | 2-G              |
| 3                  | 203015   | 1.7   | 1-15/16   | 3                  | N                | 8                   | 200022   | 16    | 3-1/2     | 7-1/2              | 2-G              | 10                  | 200055   | 29    | 3-1/2     | 9-1/2              | 2-G              |
| 4                  | 203016   | 2.4   | 1-15/16   | 3                  | N                | 10                  | 200023   | 17    | 3-1/2     | 9-1/2              | 2-G              | 12                  | 200056   | 31    | 3-1/2     | 11-1/2             | 2-G              |
| 5                  | 203017   | 3.2   | 1-15/16   | 3                  | N                | 12                  | 200024   | 19    | 3-1/2     | 11-1/2             | 2-G              | <b>14" Diameter</b> |          |       |           |                    |                  |
| 6                  | 203018   | 5.6   | 1-15/16   | 3                  | N                | <b>9" Diameter</b>  |          |       |           |                    |                  | 3                   | 200070   | 14    | 3-1/2     | 3-5/8              | G                |
| <b>5" Diameter</b> |          |       |           |                    |                  | 3                   | 200026   | 8.9   | 3-1/2     | 3-5/8              | G                | 4                   | 200071   | 16    | 3-1/2     | 3-5/8              | G                |
| 3                  | 203025   | 2.8   | 1-15/16   |                    | N                | 4                   | 200027   | 9.5   | 3-1/2     | 3-5/8              | G                | 5                   | 200072   | 18    | 3-1/2     | 3-5/8              | G                |
| 4                  | 203026   | 3.0   | 1-15/16   | 3                  | N                | 5                   | 200028   | 11    | 3-1/2     | 3-5/8              | G                | 6                   | 200073   | 19    | 3-1/2     | 3-5/8              | G                |
| 5                  | 203027   | 3.5   | 1-15/16   | 3                  | N                | 6                   | 200029   | 12    | 3-1/2     | 3-5/8              | G                | 7                   | 200074   | 30    | 3-1/2     | 7-1/2              | 2-G              |
| 6                  | 203028   | 6.3   | 1-15/16   | 3                  | N                | 8                   | 200030   | 18    | 3-1/2     | 7-1/2              | 2-G              | 10                  | 200075   | 32    | 3-1/2     | 9-1/2              | 2-G              |
| <b>6" Diameter</b> |          |       |           |                    |                  | 10                  | 200031   | 20    | 3-1/2     | 9-1/2              | 2-G              | 12                  | 200076   | 36    | 3-1/2     | 11-1/2             | 2-G              |
| 2                  | 200001   | 4.3   | 2-7/16    | 2-3/8              | SF               | <b>10" Diameter</b> |          |       |           |                    |                  | <b>16" Diameter</b> |          |       |           |                    |                  |
| 3                  | 200002   | 4.5   | 2-7/16    | 2-3/8              | SF               | 3                   | 200034   | 9.7   | 3-1/2     | 3-5/8              | G                | 3                   | 200088   | 17    | 3-1/2     | 3-5/8              | G                |
| 4                  | 200003   | 5.3   | 2-7/16    | 2-3/8              | SF               | 4                   | 200035   | 9.5   | 3-1/2     | 3-5/8              | G                | 4                   | 200089   | 18    | 3-1/2     | 3-5/8              | G                |
| 5                  | 200004   | 6.0   | 2-7/16    | 2-3/8              | SF               | 5                   | 200036   | 11    | 3-1/2     | 3-5/8              | G                | 5                   | 200090   | 19    | 3-1/2     | 3-5/8              | G                |
| 6                  | 200005   | 6.8   | 2-7/16    | 2-3/8              | SF               | 6                   | 200037   | 12    | 3-1/2     | 3-5/8              | G                | 6                   | 200091   | 21    | 3-1/2     | 3-5/8              | G                |
| 8                  | 200006   | 10    | 2-7/16    | 6-3/4              | 2-SF             | 8                   | 200038   | 18    | 3-1/2     | 7-1/2              | 2-G              | 8                   | 200092   | 34    | 3-1/2     | 7-1/2              | 2-G              |
| 10                 | 200007   | 12    | 2-7/16    | 8-3/4              | 2-SF             | 10                  | 200039   | 20    | 3-1/2     | 9-1/2              | 2-G              | 10                  | 200093   | 37    | 3-1/2     | 9-1/2              | 2-G              |
| 12                 | 200008   | 14    | 2-7/16    | 10-3/4             | 2-SF             | 12                  | 200040   | 22    | 3-1/2     | 11-1/2             | 2-G              | 12                  | 200094   | 40    | 3-1/2     | 11-1/2             | 2-G              |
| <b>7" Diameter</b> |          |       |           |                    |                  | <b>11" Diameter</b> |          |       |           |                    |                  | <b>18" Diameter</b> |          |       |           |                    |                  |
| 3                  | 200010   | 5.1   | 2-7/16    | 2-3/8              | SF               | 3                   | 200042   | 11    | 3-1/2     | 3-5/8              | G                | 3                   | 200106   | 18    | 3-1/2     | 3-5/8              | G                |
| 4                  | 200011   | 6.0   | 2-7/16    | 2-3/8              | SF               | 4                   | 200043   | 9.5   | 3-1/2     | 3-5/8              | G                | 4                   | 200107   | 20    | 3-1/2     | 3-5/8              | G                |
| 5                  | 200012   | 7.0   | 2-7/16    | 2-3/8              | SF               | 6                   | 200045   | 12    | 3-1/2     | 3-5/8              | G                | 6                   | 200109   | 26    | 3-1/2     | 3-5/8              | G                |
| 6                  | 200013   | 7.9   | 2-7/16    | 2-3/8              | SF               |                     |          |       |           |                    |                  | <b>20" Diameter</b> |          |       |           |                    |                  |
| 8                  | 200014   | 11    | 2-7/16    | 6-3/4              | 2-SF             |                     |          |       |           |                    |                  | 4                   | 200125   | 22    | 3-1/2     | 3-5/8              | G                |
| 12                 | 200016   | 15    | 2-7/16    | 10-3/4             | 2-SF             |                     |          |       |           |                    |                  | 5                   | 200126   | 24    | 3-1/2     | 3-5/8              | G                |
|                    |          |       |           |                    |                  |                     |          |       |           |                    |                  | 6                   | 200127   | 25    | 3-1/2     | 3-5/8              | G                |

\* Crown face pulleys will be furnished

Δ Weight does not include weight of bushing.

◇ One bushing required per pulley except two required where figure 2 precedes bushing symbol.

**Keywords** – Pulleys are designed to transmit power by gripping the shaft, and the keys are not ordinarily required.

| Bushings       |          |           |              |           |                |       |
|----------------|----------|-----------|--------------|-----------|----------------|-------|
| Bushing Symbol | Avg. Wt. | Max. Bore |              | Min. Bore | Out-side Diam. | Lgth. |
|                |          | No Keyway | With Key-way |           |                |       |
| L              | .4       | 1-3/16    | 1            | 3/4       | 1-7/16         | 3     |
| N              | 1.0      | 1-11/16   | 1-1/2        | 3/4       | 1-15/16        | 3     |
| SF             | 1.3      | 2-3/16    | 1-15/16      | 3/4       | 2-7/16         | 2-3/8 |
| G              | 2.7      | 3-7/16    | 2-15/16      | 1-3/16    | 3-1/2          | 3/5/8 |

• Keys not included in the price

| Overall Pulley Face Widths |   |         |         |         |         |         |          |          |      |
|----------------------------|---|---------|---------|---------|---------|---------|----------|----------|------|
| Pulley Diam.               | Overall Face Width for Various Nominal Face Widths Pulley |         |         |         |         |         |          |          |      |
|                            | 2   | 3       | 4       | 5       | 6       | 8       | 10       | 12       | 14   |
| 3                          | ....  | 3-11/16 | 4-11/16 | 5-11/16 | 6-11/16 | ....    | ....     | ....     | .... |
| 4                          | ....  | 3-9/16  | 4-7/16  | 5-7/16  | 6-5/16  | ....    | ....     | ....     | .... |
| 5                          | ....  | 3-9/16  | 4-5/16  | 5-5/16  | 6-5/16  | ....    | ....     | ....     | .... |
| 6-7                        | 2-3/16  | 3-5/8   | 4-11/16 | 5-11/16 | 6-11/16 | 8-11/16 | 10-11/16 | 12-11/16 | .... |
| 8-11                       | 2-3/16  | 4       | 4-11/16 | 5-11/16 | 6-11/16 | 8-11/16 | 10-11/16 | 12-11/16 | .... |
| 12-11                      | ....  | 4       | 4-11/16 | 5-11/16 | 6-11/16 | 8-11/16 | 10-11/16 | 12-11/16 | .... |
| 18-20                      | ....  | 4       | 4-11/16 | 5-11/16 | 6-11/16 | ....    | ....     | ....     | .... |

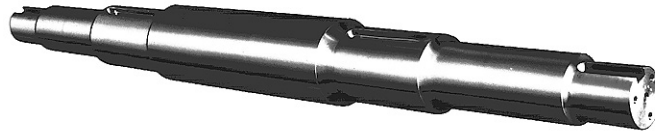
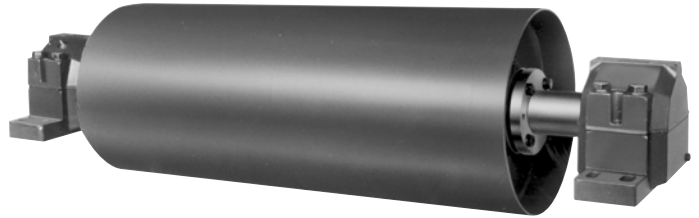
|                                  |                              |                             |                                      |
|----------------------------------|------------------------------|-----------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT15-2 | SPECIFICATION<br>PAGE PT15-4 | NOMENCLATURE<br>PAGE PT15-7 | SELECTION/DIMENSIONS<br>PAGE PT15-10 |
|----------------------------------|------------------------------|-----------------------------|--------------------------------------|



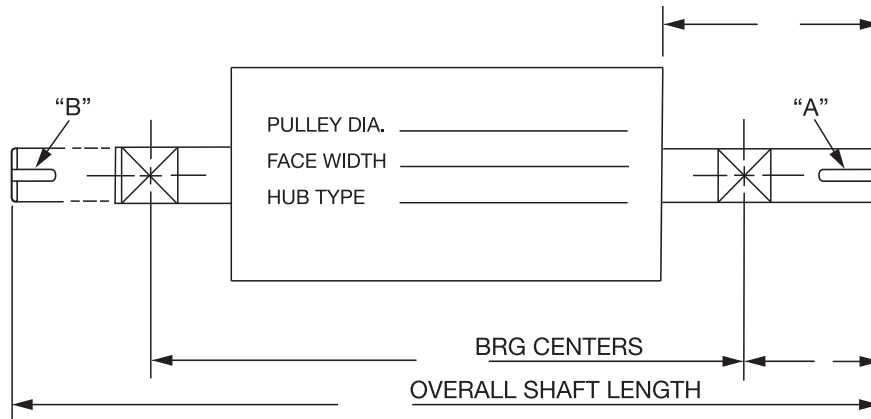
# SELECTION

## Shafting

- Shafting up to 30" diameter, 22' in length
- Precision machined, custom designed
- C1045 turned and polished. Stocked through 5-15/16
- C1045 hot rolled 6" and above - to order
- 4140, 4340 and stainless steel available upon request
- Shafting can be keyed or journaled to meet any specification



### DRIVE PULLEY & SHAFT DIMENSIONS

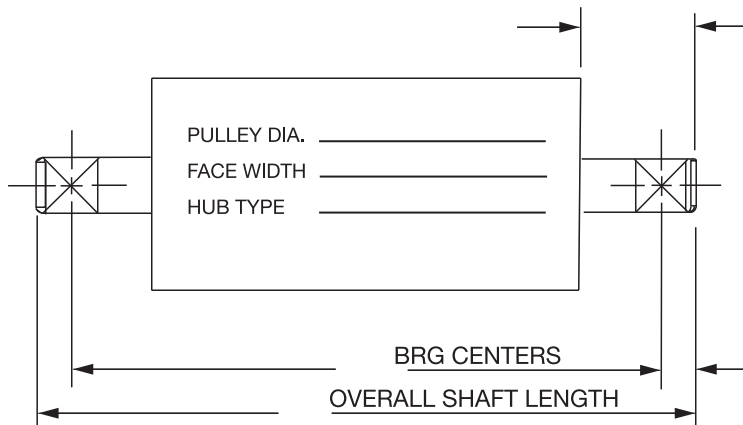


|                            |  |
|----------------------------|--|
| SHAFT DIA. AT HUB - _____  | KEYSEAT "A" - _____ X _____ X _____ LONG |
| SHAFT DIA. AT BRG. - _____ | KEYSEAT "B" - _____ X _____ X _____ LONG |
| SHAFT DIA. AT "A" - _____  | DIRECTION OF ROTATION _____              |
| SHAFT DIA. AT "B" - _____  | (LOOKING AT DRIVEN END)                  |
| NUMBER OF KEYSEATS - _____ | LAGGING - THICKNESS - _____              |
|                            | TYPE - _____                             |

### NON-DRIVE PULLEY & SHAFT DIMENSIONS

DRUM -

WING -



|                            |                                       |
|----------------------------|---------------------------------------|
| SHAFT DIA. AT HUB - _____  | KEYSEAT - 0 _____ , 1 _____ , 2 _____ |
| SHAFT DIA. AT BRG. - _____ |                                       |



## Conveyor Pulley Lagging



**Diamond Grooved**

Lagging pulley surfaces increases belt traction and eliminates rim wear due to abrasive conditions. In addition, it reduces buildup on the belt to help extend the service life.

Dodge offers lagging in 60 Durometer as standard, 70 and 45 are also available. Others available upon request.

A variety of different lagging styles are available.

- Plain
- Diamond grooved
- Chevron
- Herringbone
- Holz - replaceable slide on lagging can be installed or replaced with pulley installed. See page PT14-67 for more information
- Ceramic lagging
- Available in a wide variety of thicknesses

### Superior Lagging Materials

Standard material for Dodge lagging is Styrene-Butadiene Rubber (SBR). It provides excellent abrasion resistance, as well as resistance to heat, cutting, gouging and tearing.

### D-Lag

For maximum abrasion resistance, Dodge also offers D-Lag - a premium rubber polymer with 73% greater life than standard SBR. It offers improved resistance to cuts and gouges, as well as an improved coefficient of friction and low temperature flexibility.

### Neoprene

Dodge also offers MSHA-approved neoprene material, which is fire retardant and oil resistant.

### Wing-Lag

A replaceable urethane slide-on lagging for CEMA wing pulleys. See page PT14-68 for more information



**D-LAG**

|                                  |                             |                          |                                      |
|----------------------------------|-----------------------------|--------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT15-2 | HOW TO ORDER<br>PAGE PT15-6 | SELECTION<br>PAGE PT15-9 | SELECTION/DIMENSIONS<br>PAGE PT15-10 |
|----------------------------------|-----------------------------|--------------------------|--------------------------------------|





## Lagging Weights

### 1/4" Plain Vulcanized Rubber Lagging Weights

| Pulley<br>Dia. | Weights for Various Face Widths |     |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |
|----------------|---------------------------------|-----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|
|                | 12                              | 14  | 16 | 18 | 20 | 22 | 24 | 26 | 30 | 32 | 36 | 38 | 44  | 46  | 51  | 54  | 57  | 60  | 63  | 66  |
| 6              | 3                               | 4   | 4  | 5  | 5  | 6  | 6  | 6  | 7  | 8  | 9  | 10 | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 17  |
| 8              | 4                               | 5   | 6  | 6  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 23  |
| 10             | 6                               | 6   | 6  | 7  | 8  | 9  | 10 | 11 | 13 | 14 | 16 | 17 | 18  | 19  | 22  | 23  | 24  | 26  | 27  | 28  |
| 12             | 6                               | 7   | 8  | 9  | 10 | 11 | 12 | 13 | 15 | 16 | 18 | 19 | 22  | 23  | 26  | 27  | 29  | 30  | 32  | 33  |
| 14             | 7                               | 8   | 9  | 11 | 12 | 13 | 15 | 16 | 17 | 19 | 21 | 23 | 26  | 28  | 30  | 32  | 34  | 36  | 38  | 40  |
| 16             | 8                               | 9   | 11 | 12 | 14 | 15 | 17 | 17 | 20 | 22 | 25 | 26 | 30  | 31  | 35  | 37  | 39  | 41  | 43  | 45  |
| 18             | 9                               | 10  | 12 | 14 | 15 | 16 | 18 | 19 | 22 | 25 | 28 | 29 | 34  | 35  | 39  | 41  | 43  | 45  | 48  | 51  |
| 20             | 10                              | 12  | 14 | 16 | 17 | 18 | 20 | 22 | 26 | 28 | 30 | 32 | 41  | 40  | 43  | 46  | 49  | 51  | 53  | 56  |
| 24             | 12                              | 14  | 16 | 18 | 20 | 22 | 24 | 26 | 30 | 32 | 36 | 38 | 44  | 46  | 51  | 54  | 57  | 60  | 64  | 66  |
| 30             | 16                              | 17  | 20 | 23 | 26 | 28 | 30 | 33 | 39 | 40 | 45 | 49 | 56  | 59  | 65  | 69  | 73  | 76  | 80  | 84  |
| 36             | 18                              | 20  | 24 | 27 | 30 | 33 | 36 | 39 | 45 | 49 | 55 | 58 | 67  | 71  | 78  | 83  | 87  | 92  | 97  | 101 |
| 42             | ...                             | ... | 29 | 32 | 36 | 40 | 43 | 46 | 53 | 57 | 64 | 68 | 78  | 82  | 92  | 97  | 102 | 107 | 112 | 118 |
| 48             | ...                             | ... | 32 | 36 | 40 | 44 | 48 | 52 | 60 | 63 | 72 | 75 | 87  | 92  | 104 | 111 | 116 | 122 | 129 | 135 |
| 54             | ...                             | ... | 36 | 40 | 45 | 50 | 64 | 60 | 64 | 74 | 82 | 87 | 101 | 106 | 117 | 124 | 131 | 137 | 144 | 152 |
| 60             | ...                             | ... | 40 | 46 | 51 | 56 | 61 | 66 | 76 | 82 | 92 | 97 | 102 | 118 | 130 | 138 | 145 | 153 | 161 | 168 |

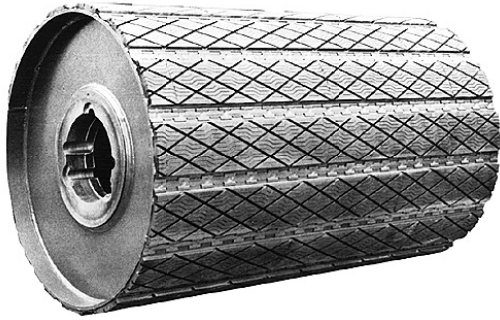
**NOTE:** For weights of other lagging, multiply weight given above by factors listed below.

### 3/8", 1/2" Vulcanized Rubber Lagging Weight Factors

| Type       | Weight Factor | Type         | Weight Factor |
|------------|---------------|--------------|---------------|
| 3/8" Plain | 1.49          | 3/8" Grooved | 1.40          |
| 1/2" Plain | 1.99          | 1/2" Grooved | 1.89          |



## SLIDE LAG®



**Exclusive elastomer compounding** provides a lagging pad with exceptional drive-pulley traction, abrasion resistance and extra long service life.

**Factory hot-vulcanization** under pressure assures the best possible bond of rubber to backing plate. No lagging failures from loss of adhesion and separation-the most common problems associated with conventional lagging.

**Steel backing plates and metal retainers** are precision formed at the factory to fit the curved surface provided by each individual pulley diameter. Insures proper pad stability and long life.

**Replaceable** pads are designed to fit under the lips of the retainers, allowing the pads to slide in and out during installation. SLIDE LAG can be installed on conveyor systems without removing the pulleys from their operating positions

Different styles and materials of slide lag also available.

### Part Number for Style #5 SLIDE LAG

| Part Number | Description          |
|-------------|----------------------|
| 207349      | 6" Diameter Style 5  |
| 207325      | 8" Diameter Style 5  |
| 207326      | 10" Diameter Style 5 |
| 207327      | 12" Diameter Style 5 |
| 207328      | 14" Diameter Style 5 |
| 207329      | 16" Diameter Style 5 |
| 207330      | 18" Diameter Style 5 |
| 207331      | 20" Diameter Style 5 |
| 207332      | 24" Diameter Style 5 |
| 207333      | 30" Diameter Style 5 |
| 207334      | 36" Diameter Style 5 |
| 207335      | 42" Diameter Style 5 |

Other styles of SLIDE LAG are available upon request, such as Belt saver, Edge crown and SOF. Dodge conveyor pulleys can be readily obtained with SLIDE LAG pre-installed from the factory.

### Part Numbers for Holz Style # 5 SOF Slide Lagging

| Part Number | Description              |
|-------------|--------------------------|
| 207336      | 8" Diameter Style 5 SOF  |
| 207337      | 10" Diameter Style 5 SOF |
| 207338      | 12" Diameter Style 5 SOF |
| 207339      | 14" Diameter Style 5 SOF |
| 207340      | 16" Diameter Style 5 SOF |
| 207341      | 18" Diameter Style 5 SOF |
| 207342      | 20" Diameter Style 5 SOF |
| 207343      | 24" Diameter Style 5 SOF |
| 207344      | 30" Diameter Style 5 SOF |
| 207345      | 36" Diameter Style 5 SOF |
| 207346      | 42" Diameter Style 5 SOF |
| 207249      | 48" Diameter Style 5 SOF |

### Ordering SLIDE LAG with Retainers

For the most common pulley sizes, select the number of 72" pads needed from the Table below

|                 |            | Pulley Face Width |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----------------|------------|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                 |            | 12"               | 14" | 16" | 18" | 20" | 22" | 24" | 26" | 30" | 32" | 36" | 38" | 40" | 44" | 46" | 51" | 54" | 60" | 66" |
| <b>PULLEY</b>   | <b>6"</b>  | 1                 | 1   | 1   | 1   | 1   | 1   | 1   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 3   | 3   | 3   | 3   | 3   |
|                 | <b>8"</b>  | 1                 | 1   | 1   | 1   | 2   | 2   | 2   | 2   | 2   | 2   | 3   | 3   | 3   | 3   | 3   | 3   | 4   | 4   | 4   |
|                 | <b>10"</b> | 1                 | 1   | 2   | 2   | 2   | 2   | 2   | 2   | 3   | 3   | 3   | 3   | 4   | 4   | 4   | 4   | 5   | 5   | 5   |
|                 | <b>12"</b> | 1                 | 2   | 2   | 2   | 2   | 2   | 2   | 3   | 3   | 3   | 3   | 4   | 4   | 4   | 4   | 5   | 5   | 6   | 6   |
| <b>DIAMETER</b> | <b>14"</b> | 2                 | 2   | 2   | 2   | 2   | 3   | 3   | 3   | 3   | 4   | 4   | 4   | 4   | 5   | 5   | 6   | 6   | 7   | 7   |
|                 | <b>16"</b> | 2                 | 2   | 2   | 2   | 3   | 3   | 3   | 3   | 4   | 4   | 4   | 5   | 5   | 5   | 6   | 6   | 7   | 8   | 8   |
|                 | <b>18"</b> | 2                 | 2   | 2   | 3   | 3   | 3   | 3   | 4   | 4   | 4   | 5   | 5   | 5   | 6   | 6   | 7   | 7   | 8   | 9   |
| <b>RETAINER</b> | <b>20"</b> | 2                 | 2   | 3   | 3   | 3   | 4   | 4   | 4   | 5   | 5   | 5   | 6   | 6   | 7   | 7   | 8   | 8   | 9   | 10  |
|                 | <b>24"</b> | 2                 | 3   | 3   | 3   | 4   | 4   | 4   | 5   | 5   | 6   | 6   | 7   | 7   | 8   | 8   | 9   | 9   | 10  | 11  |
|                 | <b>30"</b> | 3                 | 3   | 4   | 4   | 5   | 5   | 5   | 6   | 7   | 7   | 8   | 8   | 9   | 10  | 10  | 11  | 12  | 13  | 14  |
|                 | <b>36"</b> | 3                 | 4   | 4   | 5   | 5   | 6   | 6   | 7   | 8   | 8   | 9   | 10  | 10  | 11  | 12  | 13  | 14  | 15  | 17  |
|                 | <b>42"</b> | 4                 | 5   | 5   | 6   | 6   | 7   | 7   | 8   | 9   | 10  | 11  | 12  | 12  | 13  | 14  | 15  | 16  | 18  | 20  |
|                 | <b>48"</b> | 4                 | 5   | 6   | 6   | 7   | 8   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 20  | 22  |
|                 | <b>54"</b> | 5                 | 6   | 6   | 7   | 8   | 9   | 9   | 10  | 12  | 12  | 14  | 15  | 15  | 17  | 18  | 20  | 21  | 23  | 25  |
|                 | <b>60"</b> | 5                 | 6   | 7   | 8   | 9   | 10  | 10  | 11  | 13  | 14  | 15  | 16  | 17  | 19  | 20  | 22  | 23  | 25  | 28  |
| <b>72"</b>      | 6          | 7                 | 8   | 9   | 10  | 11  | 12  | 13  | 15  | 16  | 18  | 19  | 20  | 22  | 23  | 26  | 27  | 30  | 33  |     |

\* Registered trademark of Holz Rubber Company

|                                  |                             |                          |                                      |
|----------------------------------|-----------------------------|--------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT15-2 | HOW TO ORDER<br>PAGE PT15-6 | SELECTION<br>PAGE PT15-9 | SELECTION/DIMENSIONS<br>PAGE PT15-10 |
|----------------------------------|-----------------------------|--------------------------|--------------------------------------|

# MODIFICATIONS/ ACCESSORIES



## WING-LAG™

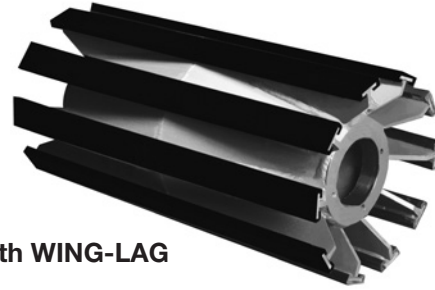
A poly-elastomer material that improves the performance of conventional wing pulleys. Designed to beat the heat or cold...oil, chemicals or abrasives...for any tough conveyor operation where the job calls for lagged wing pulleys... WING-LAG will do the job better and last longer.

**Tougher than rubber.** WING-LAG will outlast rubber lagging 2-5 times.

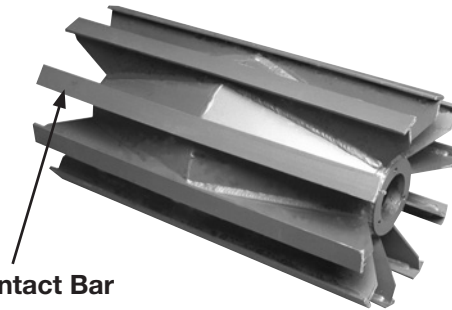
**Resists chemicals and abrasives.** WING-LAG is not affected by most oils, hydraulic fluids, fuels, chemicals and abrasives.

**Excellent temperature range.** WING-LAG has an effective operating temperature range of -60 degrees F to +212 degrees F.

**WING-LAG grips the wing pulley** and stays in place as if it were glued. However, it requires no special metal channeling, retaining grooves or other designed-in retaining feature, therefore it goes on easily and removes easily.



Pulley with WING-LAG



Contact Bar

**Greater protection from foreign objects.** Because of its tough composition, rocks, coal chunks and other debris trapped between the conveyor belt and the wing will simply be thrown out when the pulley has completed its turn.

## Ordering WING-LAG

For the most common pulley sizes, select the number of the wings from the Table below. To calculate the number of 72" pieces needed, multiple the number of wings by the face width and divide by 72. Round the number of pieces up to the next largest number.

| Diameter | Heavy Duty No. of Wings | Part Number |
|----------|-------------------------|-------------|
| 8        | 7                       | 207300      |
| 10       | 8                       | 207300      |
| 12       | 8                       | 207300      |
| 14       | 10                      | 207300      |
| 16       | 10                      | 207300      |
| 18       | 10                      | 207300      |
| 20       | 10                      | 207301      |
| 24       | 12                      | 207301      |
| 30       | 16                      | 207301      |
| 36       | 18                      | 207301      |
| 42       | 22                      | 207301      |
| 48       | 24                      | 207301      |
| 54       | 28                      | 207301      |
| 60       | 30                      | 207301      |

WING-LAG is available on CEMA heavy duty wing pulleys with standard contact bars pre-installed at the factory or it can be retrofit in the field. Either way a WING-LAG wing pulley will extend the life of conveyor belts and conventional wing pulleys under the most severe operating conditions.

Only available on CEMA wings with standard contact bars.

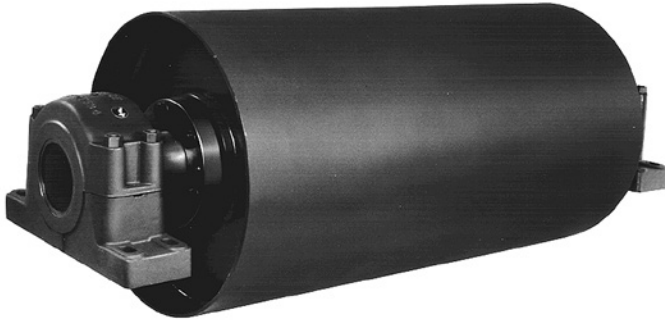
Installation and maintenance instructions are available at [www.dodge-pt.com](http://www.dodge-pt.com)

|                                  |                             |                          |                                      |
|----------------------------------|-----------------------------|--------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT15-2 | HOW TO ORDER<br>PAGE PT15-6 | SELECTION<br>PAGE PT15-9 | SELECTION/DIMENSIONS<br>PAGE PT15-10 |
|----------------------------------|-----------------------------|--------------------------|--------------------------------------|

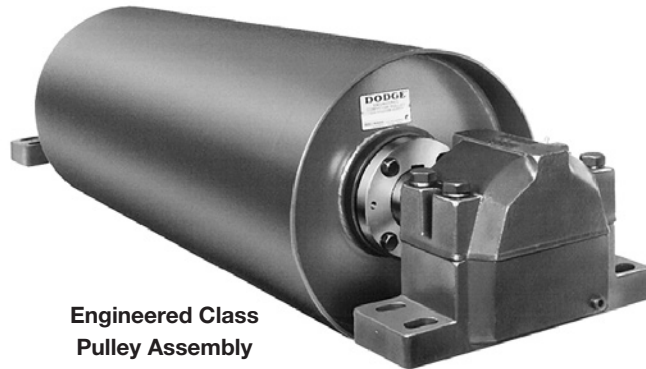


## Conveyor Pulley Assemblies

- Single source supplier, single source warranty
- Computer aided product selection
- Maximize return on investment
- No on-site component assembly
- Complete package of all Dodge bearing and power transmission components, including pulleys, lagging, shafting and bearings, such as USAF, ISAF, IP-E, etc
- Coupling mounting is also available



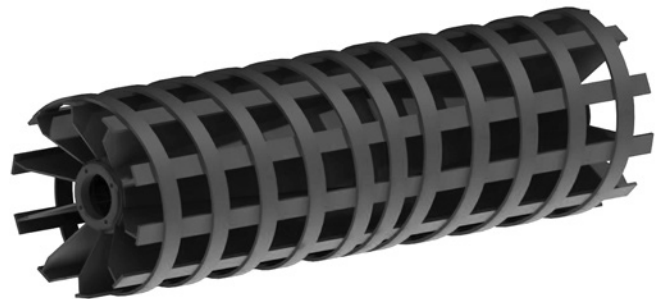
Drum Pulley Assembly



Engineered Class  
Pulley Assembly



Wing Pulley Assembly



Spiral Wing Pulley Assembly

|                                  |                             |                          |                                      |
|----------------------------------|-----------------------------|--------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT15-2 | HOW TO ORDER<br>PAGE PT15-6 | SELECTION<br>PAGE PT15-9 | SELECTION/DIMENSIONS<br>PAGE PT15-10 |
|----------------------------------|-----------------------------|--------------------------|--------------------------------------|



# RELATED PRODUCTS

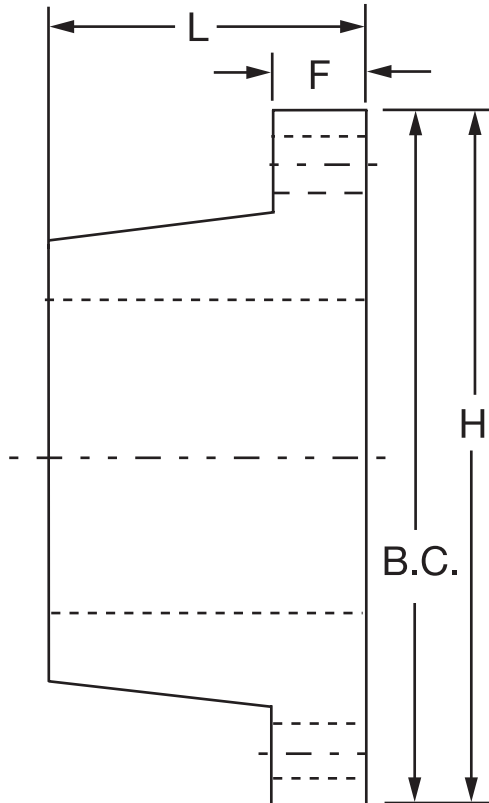
## HE Bushings

The Dodge exclusive HE bushing system was specifically designed for drum and wing pulley applications.

- 14° taper angle to minimize end disc stress
- Thicker flange
- More mounting bolts on larger sizes
- Shaft diameters to 12"
- Even bolt spacing

### HE Bushing Dimensions

| Bushing | Maximum Bore (in.) | L (in.) | B.C. (in.) | F (in.) | H (in.) | Number of Bolts | Size of Bolts (in.) |
|---------|--------------------|---------|------------|---------|---------|-----------------|---------------------|
| HE-25   | 2-1/2              | 1.80    | 3.94       | .75     | 4.63    | 4               | 3/8-16 x 1-3/4      |
| HE-30   | 3                  | 2.20    | 4.69       | .88     | 5.63    | 4               | 1/2-13 x 2-1/4      |
| HE-35   | 3-1/2              | 2.78    | 5.56       | .88     | 6.63    | 4               | 9/16-12 x 2-1/4     |
| HE-40   | 4                  | 2.93    | 6.31       | 1.00    | 7.50    | 4               | 5/8-11 x 2-1/2      |
| HE-45   | 4-1/2              | 3.20    | 7.31       | 1.25    | 8.75    | 6               | 5/8-11 x 2-1/2      |
| HE-50   | 5                  | 3.70    | 8.00       | 1.50    | 9.63    | 6               | 3/4-10 x 3          |
| HE-60   | 6                  | 3.95    | 9.25       | 1.75    | 11.13   | 6               | 7/8-9 x 3-1/2       |
| HE-70   | 7                  | 4.45    | 10.56      | 2.00    | 12.75   | 6               | 1-8 x 4             |
| HE-80   | 8                  | 5.20    | 12.13      | 2.25    | 14.50   | 6               | 1-1/8-7 x 4-1/2     |
| HE-100  | 10                 | 6.45    | 14.50      | 3.00    | 17.00   | 6               | 1-1/4-7 x 5-1/2     |
| HE-120  | 12                 | 7.45    | 17.50      | 3.00    | 20.00   | 8               | 1-1/4-7 x 5-1/2     |



### Wrench Torque

| Bushing | Wrench Torque (ft.-lbs.) |
|---------|--------------------------|
| HE-25   | 30                       |
| HE-30   | 60                       |
| HE-35   | 90                       |
| HE-40   | 140                      |
| HE-45   | 140                      |
| HE-50   | 200                      |
| HE-60   | 350                      |
| HE-70   | 500                      |
| HE-80   | 500                      |
| HE-100  | 600                      |
| HE-120  | 600                      |

Details for TAPER-LOCK Bushings - See page PT6-2 - PT6-12

Details for QD Bushings - See page PT6-16 - PT6-25

Installation and maintenance instructions are available at [www.dodge-pt.com](http://www.dodge-pt.com)

|                                  |                             |                          |                                      |
|----------------------------------|-----------------------------|--------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT15-2 | HOW TO ORDER<br>PAGE PT15-6 | SELECTION<br>PAGE PT15-9 | SELECTION/DIMENSIONS<br>PAGE PT15-10 |
|----------------------------------|-----------------------------|--------------------------|--------------------------------------|

# RELATED PRODUCTS



## HE Bushings

| Bush. No. | Bore     | Part No. | Wt.         | Bushing Keyway | Shaft Keyway |
|-----------|----------|----------|-------------|----------------|--------------|
| HE-25     | 1        | 206623 * | 5.4         | 1/4 x 1/8      | 1/4 x 1/8    |
|           | 1-1/8    | 206744   | 5.4         |                |              |
|           | 1-3/16   | 206615 * | 5.4         |                |              |
|           | 1-1/4    | 206745 * | 5.4         |                |              |
|           | 1-5/16   | 206747   | 5.4         | 5/16 x 5/32    | 5/16 x 5/32  |
|           | 1-3/8    | 206748   | 5.4         |                |              |
|           | 1-7/16   | 206617 * | 5.4         | 3/8 x 3/16     | 3/8 x 3/16   |
|           | 1-1/2    | 206750 * | 5.4         |                |              |
|           | 1-11/16  | 206752 * | 5.4         |                |              |
|           | 1-3/4    | 206754 * | 5.4         |                |              |
|           | 1-13/16  | 206756   | 5.4         | 1/2 x 1/4      | 1/2 x 1/4    |
|           | 1-7/8    | 206758   | 5.4         |                |              |
|           | 1-15/16  | 206619 * | 5.4         |                |              |
|           | 2        | 206760 * | 5.4         |                |              |
|           | 2-1/8    | 205997   | 5.4         |                |              |
|           | 2-3/16   | 206763 * | 5.4         |                |              |
|           | 2-1/4    | 206765 * | 3.1         |                |              |
|           | 2-5/16   | 206767   | 3.1         |                |              |
|           | 2-3/8    | 206768   | 3.1         |                |              |
|           | 2-7/16   | 206621 * | 3.1         |                |              |
| 2-1/2     | 206770   | 3.1      | 5/8 x 3/16▲ | 5/8 x 5/16     |              |
| HE-30     | 1-3/8    | 206635   | 8.5         | 5/16 x 5/32    | 5/16 x 5/32  |
|           | 1-7/16   | 206625   | 8.5         | 3/8 x 3/16     | 3/8 x 3/16   |
|           | 1-1/2    | 206637 * | 8.5         |                |              |
|           | 1-11/16  | 206639   | 8.5         |                |              |
|           | 1-3/4    | 206772   | 8.5         |                |              |
|           | 1-15/16  | 206627 * | 8.5         | 1/2 x 1/4      | 1/2 x 1/4    |
|           | 2        | 206774   | 8.5         |                |              |
|           | 2-3/16   | 206775 * | 8.5         |                |              |
|           | 2-7/16   | 206629 * | 8.5         | 5/8 x 5/16     | 5/8 x 5/16   |
|           | 2-1/2    | 206777 * | 8.5         |                |              |
|           | 2-9/16   | 206838   | 8.5         |                |              |
|           | 2-5/8    | 205881   | 8.5         |                |              |
|           | 2-11/16  | 206631 * | 8.5         |                |              |
|           | 2-3/4    | 206778 * | 5.3         |                |              |
|           | 2-13/16  | 206779   | 5.3         | 3/4 x 1/8▲     | 3/4 x 3/8    |
| 2-7/8     | 206780   | 5.3      |             |                |              |
| 2-15/16   | 206633 * | 5.3      |             |                |              |
| 3         | 206781 * | 5.3      |             |                |              |
| HE-35     | 1-3/16   | 206648   | 15          | 1/4 x 1/8      | 1/4 x 1/8    |
|           | 1-7/16   | 206649   | 15          | 3/8 x 3/16     | 3/8 x 3/16   |
|           | 1-1/2    | 206784   | 15          |                |              |
|           | 1-11/16  | 206786   | 15          |                |              |
|           | 1-3/4    | 206839   | 15          |                |              |
|           | 1-15/16  | 206640   | 15          | 1/2 x 1/4      | 1/2 x 1/4    |
|           | 2        | 206788   | 15          |                |              |
|           | 2-3/16   | 206790 * | 15          |                |              |
| 2-1/4     | 206792   | 15       |             |                |              |

▲ Keys Furnished For These Sizes Only  
 \* Standard Stock Sizes

| Bush. No.    | Bore     | Part No. | Wt.      | Bushing Keyway | Shaft Keyway |              |
|--------------|----------|----------|----------|----------------|--------------|--------------|
| HE-35 (cont) | 2-3/8    | 206794   | 15       | 5/8 x 5/16     | 5/8 x 5/16   |              |
|              | 2-7/16   | 206642 * | 15       |                |              |              |
|              | 2-1/2    | 206795   | 15       |                |              |              |
|              | 2-11/16  | 206796   | 15       |                |              |              |
|              | 2-3/4    | 206798   | 15       |                |              |              |
|              | 2-7/8    | 206800   | 15       | 3/4 x 3/8      | 3/4 x 3/8    |              |
|              | 2-15/16  | 206644 * | 15       |                |              |              |
|              | 3        | 206801 * | 15       |                |              |              |
|              | 3-3/16   | 206803 * | 15       |                |              |              |
|              | 3-3/8    | 206840   | 9        | 7/8 x 3/16▲    | 7/8 x 7/16   |              |
|              | 3-7/16   | 206646 * | 9        |                |              |              |
|              | 3-1/2    | 206807 * | 9        |                |              |              |
|              | HE-40    | 1-15/16  | 206658   | 20             | 1/2 x 1/4    | 1/2 x 1/4    |
|              |          | 2-3/16   | 206659   | 20             |              |              |
|              |          | 2-7/16   | 206810 * | 20             | 5/8 x 5/16   | 5/8 x 5/16   |
| 2-1/2        |          | 206811   | 20       |                |              |              |
| 2-11/16      |          | 206650   | 20       |                |              |              |
| 2-15/16      |          | 206652 * | 20       | 3/4 x 3/8      | 3/4 x 3/8    |              |
| 3-3/16       |          | 206812   | 20       |                |              |              |
| 3-11/16      |          | 206813 * | 12.3     | 7/8 x 7/16     | 7/8 x 7/16   |              |
| 3-7/16       |          | 206654 * | 12.3     |                |              |              |
| 3-7/8        |          | 206841   | 12.3     | 1 x 1/4▲       | 1 x 1/2      |              |
| 3-15/16      | 206656 * | 12.3     |          |                |              |              |
| 4            | 206815 * | 12.3     |          |                |              |              |
| HE-45        | 1-15/16  | 206670   | 30       | 1/2 x 1/4      | 1/2 x 1/4    |              |
|              | 2-7/16   | 206660 * | 30       | 5/8 x 5/16     | 5/8 x 5/16   |              |
|              | 2-15/16  | 206662 * | 30       | 3/4 x 3/8      | 3/4 x 3/8    |              |
|              | 3-7/16   | 206664 * | 30       | 7/8 x 7/16     | 7/8 x 7/16   |              |
|              | 3-1/2    | 206671   | 30       |                |              |              |
|              | 3-15/16  | 206666 * | 19.4     | 1 x 1/2        | 1 x 1/2      |              |
|              | 4-3/16   | 206672   | 19.4     | 1 x 1/4▲       | 1 x 1/2      |              |
|              | 4-3/8    | 205883   | 19.4     |                |              |              |
|              | 4-7/16   | 206668 * | 19.4     |                |              |              |
|              | 4-1/2    | 206673 * | 19.4     |                |              |              |
| HE-50        | 2-15/16  | 207998   | 39       | 7/8 x 7/16     | 7/8 x 7/16   |              |
|              | 3-5/16   | 205884   | 39       |                |              |              |
|              | 3-7/16   | 206817 * | 39       |                |              |              |
|              | 3-15/16  | 206818 * | 39       | 1 x 1/2        | 1 x 1/2      |              |
|              | 4-7/16   | 206675 * | 39       |                |              |              |
|              | 4-11/16  | 205885   | 27       | 1-1/4 x 1/4▲   | 1-1/4 x 5/8  |              |
|              | 4-15/16  | 206677 * | 27       |                |              |              |
|              | 5        | 206821   | 27       |                |              |              |
| HE-60        | 3-15/16  | 206686 * | 55       | 1 x 1/2        | 1 x 1/2      |              |
|              | 4-1/4    | 206687   | 55       |                |              |              |
|              | 4-7/16   | 206688 * | 55       |                |              |              |
|              | 4-15/16  | 206680 * | 55       | 1-1/4 x 5/8    | 1-1/4 x 5/8  |              |
|              | 5-1/4    | 206689   | 55       |                |              |              |
|              | 5-7/16   | 206682 * | 55       |                |              |              |
|              | 5-1/2    | 206823 * | 39       |                |              |              |
|              | 5-15/16  | 206684 * | 39       |                |              |              |
|              | 6        | 206825 * | 39       |                |              | 1-1/2 x 1/4▲ |

Conveyor Components

Engineering

Part Number Index

Keyword Index

|                                  |                             |                          |                                      |
|----------------------------------|-----------------------------|--------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT15-2 | HOW TO ORDER<br>PAGE PT15-6 | SELECTION<br>PAGE PT15-9 | SELECTION/DIMENSIONS<br>PAGE PT15-10 |
|----------------------------------|-----------------------------|--------------------------|--------------------------------------|





# RELATED PRODUCTS

## HE Bushings

| Bush. No. | Bore     | Part No. | Wt.          | Bushing Keyway | Shaft Keyway |
|-----------|----------|----------|--------------|----------------|--------------|
| HE70      | 4-7/16   | 205886   | 74           | 1 x 1/2        | 1 x 1/2      |
|           | 4-15/16  | 205880   | 74           | 1-1/4 x 5/8    | 1-1/4 x 5/8  |
|           | 5-7/16   | 205887   | 74           |                |              |
|           | 5-15/16  | 206690 * | 74           | 1-1/2 x 3/4    | 1-1/2 x 3/4  |
|           | 6        | 207396 * | 74           |                |              |
|           | 6-7/16   | 206692 * | 74           |                |              |
|           | 6-1/2    | 206845 * | 57           |                |              |
| 6-15/16   | 206694 * | 57       | 1-3/4 x 1/4▲ | 1-3/4 x 3/4    |              |
| 7         | 206847 * | 57       |              |                |              |
| HE80      | 5-15/16  | 207399   | 114.09       | 1-1/2 x 3/4    | 1-1/2 x 3/4  |
|           | 6-7/16   | 206700   | 114.09       |                |              |
|           | 6-3/4    | 205888   | 114.09       | 1-3/4 x 3/4    | 1-3/4 x 3/4  |
|           | 6-15/16  | 206702   | 114.09       |                |              |
|           | 7        | 205889   | 114.09       |                |              |
|           | 7-3/16   | 205890   | 114.09       |                |              |
|           | 7-1/2    | 206849 * | 114.09       |                |              |
|           | 7-7/16   | 206704   | 114.09       |                |              |
|           | 7-3/4    | 205891   | 114.09       | 2 x 3/4        | 2 x 3/4      |
|           | 7-15/16  | 206706   | 114.09       |                |              |
|           | 8        | 206708 * | 83           |                |              |
|           | 7-1/2    | 206710   | 202          |                |              |
| 7-15/16   | 206712   | 202      |              |                |              |
| HE-100    | 8        | 206718 * | 202          | 2 x 3/4        | 2 x 3/4      |
|           | 8-7/16   | 205892   | 202          |                |              |
|           | 8-1/2    | 206720 * | 202          |                |              |
|           | 8-15/16  | 206714   | 202          |                |              |
|           | 9        | 206722 * | 202          |                |              |
|           | 9-1/2    | 206724 * | 202          | 2-1/2 x 7/8    | 2-1/2 x 7/8  |
|           | 10       | 206716 * | 144          |                |              |
| HE-120    | 8        | 207398   | 348          | 2 x 3/4        | 2 x 3/4      |
|           | 8-1/2    | 207380   | 348          |                |              |
|           | 9        | 207382   | 348          |                |              |
|           | 9-1/2    | 207384   | 348          | 2-1/2 x 7/8    | 2-1/2 x 7/8  |
|           | 10       | 207386   | 348          |                |              |
|           | 10-1/2   | 207388   | 348          |                |              |
|           | 11       | 207390 * | 348          |                |              |
|           | 11-1/2   | 207392   | 348          |                |              |
| 12        | 207394   | 225      | 3 x 1        | 3 x 1          |              |

▲ Keys Furnished For These Sizes Only  
 \* Standard Stock Sizes

| Reborable HE Bushings |             |              |                            |                                |                   |                   |
|-----------------------|-------------|--------------|----------------------------|--------------------------------|-------------------|-------------------|
| Bushing               | Part Number | Minimum Bore | Inch                       |                                | Metric            |                   |
|                       |             |              | Maximum Bore (in.) Sq. Key | Maximum Bore (in.) Shallow Key | Minimum Bore (mm) | Maximum Bore (mm) |
| HE25                  | 207960 *    | 15/16        | 2-1/4                      | 2-1/2                          | 24                | 60                |
| HE30                  | 207961 *    | 15/16        | 2-3/4                      | 3                              | 24                | 75                |
| HE35                  | 207962 *    | 1-3/16       | 3-1/4                      | 3-1/2                          | 32                | 85                |
| HE40                  | 207963 *    | 1-15/16      | 3-3/4                      | 4                              | 50                | 100               |
| HE45                  | 207964 *    | 1-15/16      | 3-15/16                    | 4-1/2                          | 50                | 110               |
| HE50                  | 207965 *    | 2-15/16      | 4-1/2                      | 5                              | 75                | 125               |
| HE60                  | 207966 *    | 3-7/16       | 5-1/2                      | 6                              | 90                | 150               |
| HE70                  | 207967 *    | 4-7/16       | 6-1/2                      | 7                              | 120               | 170               |
| HE80                  | 207968 *    | 5-7/16       | 8                          | -                              | 140               | 200               |
| HE100                 | 207969      | 6-15/16      | 10                         | -                              | 180               | 250               |
| HE120                 | 207970      | 7-15/16      | 12                         | -                              | 220               | 300               |



## RELATED PRODUCTS

### Keyless Locking Assemblies



The Dodge Pulley Pros have been designing and fabricating special pulleys with Keyless Locking Assemblies for over 30 years. Hubs are computer designed for use with single or dual locking assemblies.

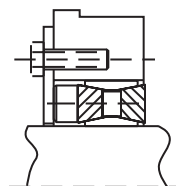
Keyless locking assemblies are available in two basic configurations – short series and long series. Long series locking assemblies feature a longer length through bore with a corresponding increase in contact area between the locking assembly and the shaft and hub.

Most conveyor pulley applications require only one short series locking assembly in each pulley hub to transmit the bending and torsional moments. Heavier loaded pulleys require long series locking assemblies to transmit increased loads. The Dodge Pulley Pros have the experience and expertise to determine the best keyless locking assembly configuration for any application.

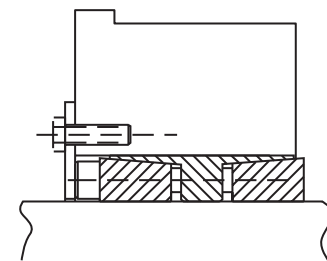
Dodge Keyless Locking Assemblies are self-contained, high torque capacity, shaft-hub locking devices. They provide many features and benefits to conveyor pulley assemblies, including no keyway stress concentration, no axial movement during assembly, high torque capacity, and easy assembly and disassembly. The locking assembly design includes concentric, tapered rings. As the locking screws are torqued, the locking assembly clamps down on the shaft and expands into the hub bore, establishing a tight mechanical shrink fit.



**Long Series Locking Assembly**



**Short Series**



**Long Series Locking Assembly**

Available in Weld On Hub, Integral Hub or T-Section. See Pages PT14-56 and PT14-57.

|                                  |                             |                          |                                      |
|----------------------------------|-----------------------------|--------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT15-2 | HOW TO ORDER<br>PAGE PT15-6 | SELECTION<br>PAGE PT15-9 | SELECTION/DIMENSIONS<br>PAGE PT15-10 |
|----------------------------------|-----------------------------|--------------------------|--------------------------------------|

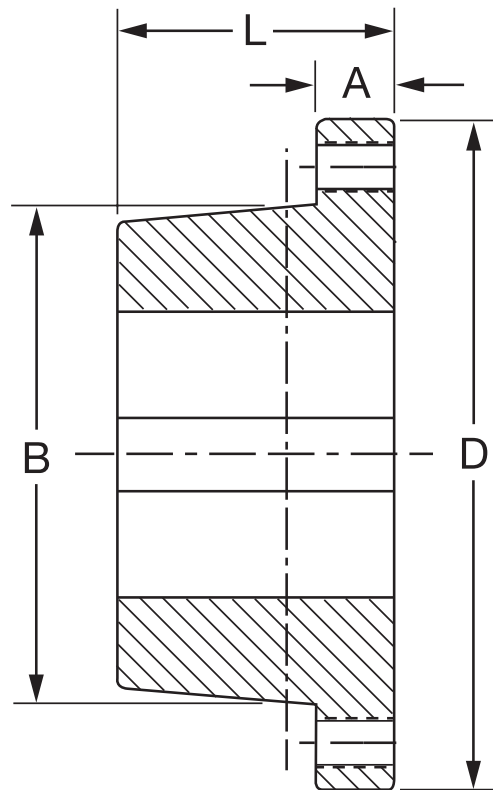


# RELATED PRODUCTS

## XT Bushings

Usage: This product is specially designed for conveyor pulley applications.

- 2"/ft taper for easy on, easy off
- In steel and gray cast iron



### Dimensions

| Bushing Size | Dimensions - Inches |        |          |         |         |   | No.                | Size | Recommended Wrench Torque (ft-lbs) | Approx. Weight |
|--------------|---------------------|--------|----------|---------|---------|---|--------------------|------|------------------------------------|----------------|
|              | A                   | B      | D        | L       | BC      |   |                    |      |                                    |                |
| XTB15        | 3/8                 | 2.000  | 2-7/8    | 1-1/8   | 2-7/16  | 4 | 1/4-20NC x 1"      | 7.9  | 0.7                                |                |
| XTB20        | 15/32               | 2.688  | 3-3/4    | 1-13/32 | 3-3/16  | 4 | 5/16-18NC x 1-1/4" | 16.7 | 1.5                                |                |
| XTB25        | 5/8                 | 3.188  | 4-7/16   | 1-7/8   | 3-3/4   | 4 | 3/8-16NC x 1-3/4"  | 29.2 | 2.6                                |                |
| XTB30        | 11/16               | 3.875  | 5-5/16   | 2-1/16  | 4-9/16  | 4 | 7/16-14NC x 1-1/2" | 45.8 | 4.2                                |                |
| XTB35        | 25/32               | 4.688  | 6-5/16   | 2-15/32 | 5-7/16  | 4 | 1/2-13NC x 1-3/4"  | 70   | 7.4                                |                |
| XTB40        | 7/8                 | 5.313  | 7-1/8    | 2-13/16 | 6-1/8   | 4 | 9/16-12NC x 2"     | 100  | 10.5                               |                |
| XTB45        | 15/16               | 5.938  | 8        | 3-5/16  | 6-7/8   | 4 | 5/8-11NC x 2-1/4"  | 140  | 14.8                               |                |
| XTB50        | 1                   | 7.250  | 10-1/8   | 3-3/4   | 8-5/16  | 4 | 3/4-10NC x 2-1/2"  | 250  | 27.8                               |                |
| XTB60        | 1-1/8               | 8.625  | 11-15/16 | 4-1/8   | 9-7/8   | 4 | 7/8-9NC x 2-1/2"   | 400  | 42.8                               |                |
| XTB70        | 1-5/16              | 10.000 | 13-15/16 | 4-11/16 | 11-9/16 | 4 | 1-8NC x 3"         | 600  | 66.3                               |                |
| XTB80        | 1-3/8               | 11.125 | 15-5/8   | 5-1/8   | 12-7/8  | 4 | 1-1/8-7NC x 3/12"  | 750  | 85.7                               |                |
| XTB100       | 1-9/16              | 13.688 | 17-15/16 | 6-3/16  | 15-9/16 | 6 | 1-1/8-7NC x 3-1/2" | 750  | 146                                |                |
| XTB120       | 1-3/4               | 16.188 | 20-5/8   | 7-1/16  | 18-3/16 | 8 | 1-1/8-7NC x 3-1/2" | 750  | 216                                |                |

# RELATED PRODUCTS



## XT Bushings

| Bushing No. | Bore    | Part No. | Wt.          | Keyseat      |
|-------------|---------|----------|--------------|--------------|
| XTB15       | 5/8     | 226830   | .7           | 3/16 x 3/32  |
|             | 3/4     | 226831   | .7           | 3/16 x 3/32  |
|             | 7/8     | 226832   | .7           | 3/16 x 3/32  |
|             | 1       | 226833   | .7           | 1/4 x 1/8    |
|             | 1-1/8   | 226834   | .7           | 1/4 x 1/8    |
|             | 1-3/16  | 226835   | .7           | 1/4 x 1/8    |
|             | 1-1/4   | 226836   | .7           | 1/4 x 1/8    |
|             | 1-7/16  | 226837   | .7           | 3/8 x 1/8 ◆  |
| 1-1/2       | 226838  | .7       | 3/8 x 1/8 ◆  |              |
| XTB20       | 3/4     | 226839   | 1.5          | 3/16 x 3/32  |
|             | 1       | 226840   | 1.5          | 1/4 x 1/8    |
|             | 1-3/16  | 226841   | 1.5          | 1/4 x 1/8    |
|             | 1-1/4   | 226842   | 1.5          | 1/4 x 1/8    |
|             | 1-7/16  | 226843   | 1.5          | 3/8 x 3/16   |
|             | 1-1/2   | 226844   | 1.5          | 3/8 x 3/16   |
|             | 1-11/16 | 226845   | 1.5          | 3/8 x 3/16   |
|             | 1-15/16 | 226846   | 1.5          | 1/2 x 3/16 ◆ |
| 2           | 226847  | 1.5      | 1/2 x 3/16 ◆ |              |
| XTB25       | 1       | 226848   | 2.6          | 1/4 x 1/8    |
|             | 1-3/16  | 226849   | 2.6          | 1/4 x 1/8    |
|             | 1-1/4   | 226850   | 2.6          | 1/4 x 1/8    |
|             | 1-7/16  | 226851   | 2.6          | 3/8 x 3/16   |
|             | 1-1/2   | 226852   | 2.6          | 3/8 x 3/16   |
|             | 1-11/16 | 226853   | 2.6          | 3/8 x 3/16   |
|             | 1-15/16 | 226854   | 2.6          | 1/2 x 1/4    |
|             | 2       | 226855   | 2.6          | 1/2 x 1/4    |
| 2-3/16      | 226856  | 2.6      | 1/2 x 1/4    |              |
| 2-7/16      | 226857  | 2.6      | 5/8 x 1/8 ◆  |              |
| XTB30       | 1-7/16  | 226858   | 4.2          | 3/8 x 3/16   |
|             | 1-1/2   | 226859   | 4.2          | 3/8 x 3/16   |
|             | 1-11/16 | 226860   | 4.2          | 3/8 x 3/16   |
|             | 1-15/16 | 226861   | 4.2          | 1/2 x 1/4    |
|             | 2-3/16  | 226862   | 4.2          | 1/2 x 1/4    |
|             | 2-7/16  | 226863   | 4.2          | 5/8 x 5/16   |
|             | 2-11/16 | 226864   | 4.2          | 5/8 x 5/16   |
|             | 2-15/16 | 226865   | 4.2          | 3/4 x 3/16 ◆ |
| XTB35       | 1-15/16 | 226866   | 7.4          | 1/2 x 1/4    |
|             | 2-3/16  | 226867   | 7.4          | 1/2 x 1/4    |
|             | 2-7/16  | 226868   | 7.4          | 5/8 x 5/16   |
|             | 2-1/2   | 226869   | 7.4          | 5/8 x 5/16   |
|             | 2-11/16 | 226870   | 7.4          | 5/8 x 5/16   |
|             | 2-15/16 | 226871   | 7.4          | 3/4 x 3/8    |
| 3-7/16      | 226872  | 7.4      | 7/8 x 5/16   |              |

| Bushing No. | Bore    | Part No. | Wt.  | Keyseat     |
|-------------|---------|----------|------|-------------|
| XTB40       | 2-7/16  | 226873   | 10.5 | 5/8 x 5/16  |
|             | 2-15/16 | 226874   | 10.5 | 3/4 x 3/8   |
|             | 3-7/16  | 226875   | 10.5 | 7/8 x 7/16  |
|             | 3-15/16 | 226876   | 10.5 | 1 x 3/8 ◆   |
| XTB45       | 3-7/16  | 226877   | 14.8 | 7/8 x 7/16  |
|             | 3-15/16 | 226878   | 14.8 | 1 x 1/2     |
| XTB50       | 4-7/16  | 226879   | 14.8 | 1 x 3/8 ◆   |
|             | 3-15/16 | 226880   | 27.8 | 1 x 1/2     |
| XTB60       | 4-7/16  | 226881   | 27.8 | 1 x 1/2     |
|             | 4-15/16 | 226882   | 27.8 | 1-1/4 x 5/8 |
| XTB70       | 5-7/16  | 226883   | 42.8 | 1-1/4 x 5/8 |
|             | 5-1/2   | 226884   | 42.8 | 1-1/4 x 5/8 |
|             | 5-15/16 | 226885   | 42.8 | 1-1/2 x 3/4 |
| XTB80       | 6       | 226886   | 42.8 | 1-1/2 x 3/4 |
|             | 6-7/16  | 226887   | 66.3 | 1-1/2 x 3/4 |
|             | 6-1/2   | 226888   | 66.3 | 1-1/2 x 3/4 |
|             | 6-15/16 | 226889   | 66.3 | 1-3/4 x 3/4 |
| XTB100      | 7       | 226890   | 66.3 | 1-3/4 x 3/4 |
|             | 7-1/2   | 226891   | 85.7 | 1-3/4 x 3/4 |
|             | 7-15/16 | 226892   | 85.7 | 2 x 3/4     |
|             | 8       | 226893   | 85.7 | 2 x 3/4     |
|             | 8-1/2   | 226894   | 146  | 2 x 3/4     |
| XTB120      | 9       | 226895   | 146  | 2 x 3/4     |
|             | 9-7/16  | 226896   | 146  | 2-1/2 x 7/8 |
|             | 9-1/2   | 226897   | 146  | 2-1/2 x 7/8 |
|             | 10      | 226898   | 146  | 2-1/2 x 7/8 |
| XTB120      | 10-1/2  | 226899   | 216  | 2-1/2 x 7/8 |
|             | 11      | 226900   | 216  | 2-1/2 x 7/8 |
|             | 11-1/2  | 226901   | 216  | 3 x 1       |
|             | 12      | 226902   | 216  | 3 x 1       |

◆ Key provided with these sizes only  
XTB50-XTB120 made from gray cast iron

### Reborable XT Bushings

| Bushing | Part Number | Minimum Bore | Inch Max Bore |
|---------|-------------|--------------|---------------|
| XTB15   | 226903      | 5/8          | 1.5           |
| XTB20   | 226904      | 3/4          | 2.0           |
| XTB25   | 226905      | 1            | 2.5           |
| XTB30   | 226906      | 1-7/16       | 3.0           |
| XTB35   | 226907      | 1-15/16      | 3.5           |
| XTB40   | 226908      | 2-7/16       | 4.0           |
| XTB45   | 226909      | 3-7/16       | 4.5           |
| XTB50   | 226910      | 3-15/16      | 5.0           |
| XTB60   | 226911      | 5-7/16       | 6.0           |
| XTB70   | 226912      | 6-7/16       | 7.0           |
| XTB80   | 226913      | 7-1/2        | 8.0           |
| XTB100  | 226914      | 8-1/2        | 10.0          |
| XTB120  | 226915      | 10-1/2       | 12.0          |

|                                  |                             |                          |                                      |
|----------------------------------|-----------------------------|--------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT15-2 | HOW TO ORDER<br>PAGE PT15-6 | SELECTION<br>PAGE PT15-9 | SELECTION/DIMENSIONS<br>PAGE PT15-10 |
|----------------------------------|-----------------------------|--------------------------|--------------------------------------|



## RELATED PRODUCTS

### XT Hubs

Usage: XT hubs are for use with the XT Bushing

- 2" /ft taper for easy on, easy off
- Made of low carbon steel for its excellent welding properties



# RELATED PRODUCTS



Conveyor Components

Engineering

Part Number Index

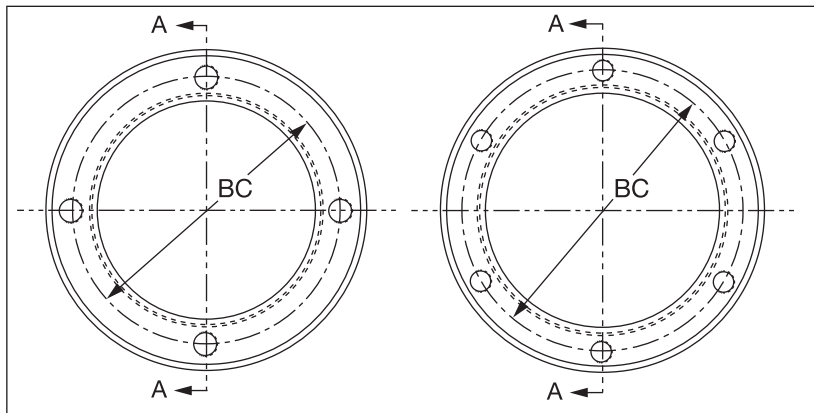
Keyword Index

## XT Hubs

### Dimensions

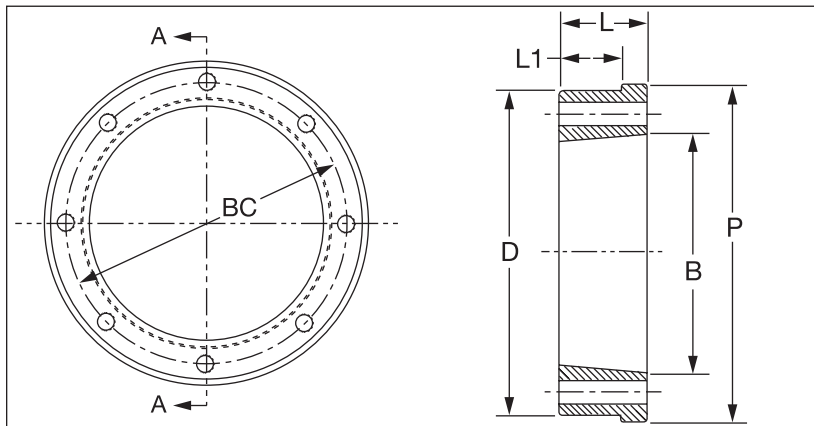
| Hub No. | Fits Bushing | Part Number   | Dimensions - Inches |         |        |        |         |         | Tapped Holes |           | Approx. Weight |
|---------|--------------|---------------|---------------------|---------|--------|--------|---------|---------|--------------|-----------|----------------|
|         |              |               | D *                 | L       | B      | P      | L1      | BC      | No.          | Size      |                |
| XTH15   | XTB15        | <b>226916</b> | 2.875               | 5/8     | 2.000  | 3.190  | 7/16    | 2-7/16  | 4            | 14-20NC   | 0.7            |
| XTH20   | XTB20        | <b>226917</b> | 3.813               | 13/16   | 2.688  | 4.065  | 9/16    | 3-3/16  | 4            | 5/16-18NC | 1.5            |
| XTH25   | XTB25        | <b>226918</b> | 4.375               | 1-1/8   | 3.188  | 4.690  | 13/16   | 3-3/4   | 4            | 3/8-16NC  | 2.6            |
| XTH30   | XTB30        | <b>226919</b> | 5.750               | 1-1/4   | 3.875  | 5.940  | 7/8     | 4-9/16  | 4            | 7/16-14NC | 4.1            |
| XTH35   | XTB35        | <b>226920</b> | 6.345               | 1-1/2   | 4.688  | 6.565  | 1-1/16  | 5-7/16  | 4            | 1/2-13NC  | 6.6            |
| XTH40   | XTB40        | <b>226921</b> | 7.250               | 1-3/4   | 5.313  | 7.563  | 1-1/4   | 6-1/8   | 4            | 9/16-12NC | 10.7           |
| XTH45   | XTB45        | <b>226922</b> | 8.000               | 2-1/8   | 5.938  | 8.315  | 1-1/2   | 6-7/8   | 4            | 5/8-11NC  | 15.4           |
| XTH50   | XTB50        | <b>226923</b> | 9.563               | 2-1/2   | 7.250  | 9.940  | 1-3/4   | 8-5/16  | 4            | 3/4-10NC  | 24.9           |
| XTH60   | XTB60        | <b>226924</b> | 11.250              | 2-3/4   | 8.625  | 11.690 | 1-15/16 | 9-7/8   | 4            | 7/8-9NC   | 36.4           |
| XTH70   | XTB70        | <b>226925</b> | 13.188              | 3-1/8   | 10.000 | 13.628 | 2-3/16  | 11-9/16 | 4            | 1-8NC     | 57.7           |
| XTH80   | XTB80        | <b>226926</b> | 14.625              | 3-7/16  | 11.125 | 14.940 | 2-7/16  | 12-7/8  | 4            | 1-1/8-7NC | 75.6           |
| XTH100  | XTB100       | <b>226927</b> | 17.500              | 4-1/8   | 13.688 | 17.940 | 3       | 15-9/16 | 6            | 1-1/8-7NC | 122            |
| XTH120  | XTB120       | <b>226928</b> | 20.500              | 4-13/16 | 16.188 | 20.940 | 3-1/2   | 18-3/16 | 8            | 1-1/8-7NC | 189            |

\* TOLERANCE: (+0.000" / -0.005")



XTH15 to XTH80  
Inclusive

XTH100



XTH120

Section A-A  
Taper 2" per ft.  
on Diameter -B-

|                                  |                             |                          |                                      |
|----------------------------------|-----------------------------|--------------------------|--------------------------------------|
| FEATURES/BENEFITS<br>PAGE PT15-2 | HOW TO ORDER<br>PAGE PT15-6 | SELECTION<br>PAGE PT15-9 | SELECTION/DIMENSIONS<br>PAGE PT15-10 |
|----------------------------------|-----------------------------|--------------------------|--------------------------------------|





# ENGINEERING/TECHNICAL

## Horsepower and Belt Tension for Simple Conveyors \*

### Horsepower

The horsepower required to operate a belt conveyor depends on the following:

1. Maximum tonnage to be handled
2. Length of the conveyor
3. Vertical lift of the conveyor

To determine horsepower required for a horizontal conveyor, use Table 1 only.

To determine horsepower required for an inclined conveyor, use Table 1 and Table 2. Figure each table separately and sum the results to determine total horsepower required.

**Note:** Other factors, such as conveyor plows, scrapers, and skirt boards over 12 feet, will require additional factors for horsepower.

See conveyor design program or call conveyor component engineering for assistance.

\* These calculations are limited to level or uphill conveyors with single drive pulley and a maximum length of 500 ft. For other systems, consult Dodge.

**NOTE:** Online selection program is available at [www.ptwizard.com](http://www.ptwizard.com)

**Table 1 – HP Required to Operate Loaded Conveyor on the Level**

| Length of Conveyor in feet | Short Tons Per Hour (2000 lbs.) |     |      |      |      |      |      |      |      |      |      |      |      |
|----------------------------|---------------------------------|-----|------|------|------|------|------|------|------|------|------|------|------|
|                            | 100                             | 150 | 200  | 250  | 300  | 350  | 400  | 500  | 600  | 700  | 800  | 900  | 1000 |
| 25                         | 2.0                             | 2.3 | 2.5  | 2.7  | 3.0  | 3.3  | 3.5  | 4.0  | 4.5  | 5.0  | 5.5  | 6.0  | 6.5  |
| 50                         | 2.4                             | 2.7 | 3.0  | 3.3  | 3.6  | 3.9  | 4.2  | 4.8  | 5.4  | 6.0  | 6.6  | 7.2  | 7.8  |
| 75                         | 2.8                             | 3.1 | 3.5  | 3.8  | 4.1  | 4.5  | 4.8  | 5.5  | 6.2  | 6.9  | 7.6  | 8.3  | 9.0  |
| 100                        | 3.0                             | 3.4 | 3.8  | 4.2  | 4.5  | 4.9  | 5.3  | 6.0  | 6.8  | 7.5  | 8.3  | 9.0  | 9.8  |
| 125                        | 3.4                             | 3.8 | 4.2  | 4.6  | 5.0  | 5.4  | 5.8  | 6.6  | 7.4  | 8.2  | 9.0  | 9.8  | 10.6 |
| 150                        | 3.7                             | 4.1 | 4.6  | 5.0  | 5.5  | 5.9  | 6.3  | 7.2  | 8.1  | 9.0  | 9.9  | 10.8 | 11.5 |
| 175                        | 4.0                             | 4.5 | 5.0  | 5.5  | 6.0  | 6.5  | 7.0  | 8.0  | 9.0  | 10.0 | 11.0 | 12.0 | 13.0 |
| 200                        | 4.3                             | 4.8 | 5.3  | 5.8  | 6.4  | 7.0  | 7.5  | 8.6  | 9.7  | 10.8 | 11.9 | 13.0 | 14.1 |
| 225                        | 4.6                             | 5.1 | 5.7  | 6.2  | 6.8  | 7.3  | 8.0  | 9.2  | 10.4 | 11.6 | 12.8 | 14.0 | 15.2 |
| 250                        | 4.9                             | 5.5 | 6.2  | 6.8  | 7.5  | 8.0  | 8.8  | 10.1 | 11.4 | 12.7 | 14.0 | 15.3 | 16.6 |
| 300                        | 5.6                             | 6.2 | 7.0  | 7.6  | 8.4  | 9.0  | 9.8  | 11.2 | 12.6 | 14.0 | 15.4 | 16.8 | 18.2 |
| 350                        | 6.2                             | 6.9 | 7.7  | 8.4  | 9.2  | 10.0 | 10.7 | 12.2 | 13.7 | 15.2 | 16.7 | 18.2 | 19.7 |
| 400                        | 6.8                             | 7.6 | 8.5  | 9.2  | 10.2 | 11.0 | 11.9 | 13.6 | 15.3 | 17.0 | 18.7 | 20.4 | 22.1 |
| 450                        | 7.3                             | 8.3 | 9.2  | 10.2 | 11.1 | 12.0 | 13.0 | 14.9 | 16.8 | 18.7 | 20.6 | 22.5 | 24.4 |
| 500                        | 8.0                             | 9.0 | 10.1 | 11.1 | 12.2 | 13.2 | 14.3 | 16.4 | 18.5 | 20.6 | 22.7 | 24.8 | 26.9 |

**Table 2 – HP Required to Lift Load on Belt Conveyor**

| Lift in Feet | Short Tons Per Hour (2000 lbs.) |      |      |      |      |      |      |      |      |      |      |      |       |
|--------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|-------|
|              | 100                             | 150  | 200  | 250  | 300  | 350  | 400  | 500  | 600  | 700  | 800  | 900  | 1000  |
| 10           | 1.0                             | 1.5  | 2.0  | 2.5  | 3.0  | 3.5  | 4.0  | 5.0  | 6.0  | 7.0  | 8.0  | 9.0  | 10.0  |
| 20           | 2.0                             | 3.0  | 4.0  | 5.0  | 6.0  | 7.0  | 8.0  | 10.0 | 12.0 | 14.0 | 16.0 | 18.0 | 20.0  |
| 30           | 3.0                             | 4.5  | 6.0  | 7.5  | 9.0  | 10.5 | 12.0 | 15.0 | 18.0 | 21.0 | 24.0 | 27.0 | 30.0  |
| 40           | 4.0                             | 6.0  | 8.0  | 10.0 | 12.0 | 14.0 | 16.0 | 20.0 | 24.0 | 28.0 | 32.0 | 36.0 | 40.0  |
| 50           | 5.0                             | 7.5  | 10.0 | 12.5 | 15.0 | 17.5 | 20.0 | 25.0 | 30.0 | 35.0 | 40.0 | 45.0 | 50.0  |
| 60           | 6.0                             | 9.0  | 12.0 | 15.0 | 18.0 | 21.0 | 24.0 | 30.0 | 36.0 | 42.0 | 48.0 | 54.0 | 60.0  |
| 70           | 7.0                             | 10.5 | 14.0 | 17.5 | 21.0 | 24.5 | 28.0 | 35.0 | 42.0 | 49.0 | 56.0 | 63.0 | 70.0  |
| 80           | 8.0                             | 12.0 | 16.0 | 20.0 | 24.0 | 28.0 | 32.0 | 40.0 | 48.0 | 56.0 | 64.0 | 72.0 | 80.0  |
| 90           | 9.0                             | 13.5 | 18.0 | 22.5 | 27.0 | 31.5 | 36.0 | 45.0 | 54.0 | 63.0 | 72.0 | 81.0 | 90.0  |
| 100          | 10.0                            | 15.0 | 20.0 | 25.0 | 30.0 | 35.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100.0 |

### Belt Tension:

The belt tensions developed in a belt conveyor depend on the following:

1. Motor horsepower
2. Belt speed in feet per minute
3. Drive configuration

To determine tight side (T1) and slack side (T2) operating tensions, first determine the effective tension (difference between T1 and T2) from:  $T_e = 33,000 \times \text{HP}/\text{FPM}$

Where:  $T_e$  = Effective tension  
 $\text{HP}$  = Motor horsepower  
 $\text{FPM}$  = Belt speed

The slack side belt tension is calculated from  $T_e$  and the drive factor  $C_w$  (from Table 7) by:  $T_2 = T_e \times C_w$

Where:  $T_2$  = Slack side tension  
 $T_e$  = Effective tension  
 $C_w$  = Drive factor from Table 3

The tight side tension is calculated from  $T_e$  and  $T_2$  by:  $T_1 = T_e + T_2$

Where:  $T_1$  = Tight side tension  
 $T_e$  = Effective tension  
 $T_2$  = Slack side tension

#### Example: Horsepower and Tension calculation

Calculate horsepower and belt tensions for a conveyor given:

1. Capacity of 300 tons per hour
2. 300 ft. conveyor length
3. 20 ft. conveyor lift
4. Belt speed of 450 feet per minute
5. Screw take-up system
6. 180° arc of contact on drive pulley
7. Lagged drive pulley

#### Horsepower:

From Table 1 the horsepower required to operate the belt on the level is 8.4. From Table 2 the horsepower required for lift is 6.0. The total horsepower required is  $8.4 + 6.0 = 14.4$ . (A 15 HP motor would be selected.)

#### Tension:

First calculate effective tension from:

$$T_e = \frac{33000 \times \text{HP}}{\text{FPM}} \qquad T_e = \frac{33000 \times 15}{450} = 1100 \text{ lbs.}$$

Calculate  $T_2$  from  $T_e$  and drive factor  $C_w$  (From Table 3  $C_w = .8$ )

$$T_2 = C_w \times T_e \qquad T_2 = .8 \times 1100 = 880 \text{ lbs.}$$

Finally calculate  $T_1$  from  $T_2$  and  $T_e$

$$T_1 = T_2 + T_e \qquad T_1 = 880 + 1100 = 1980 \text{ lbs.}$$

**Table 3 - Drive Factor**

| Type of Pulley Drive | Wrap | Automatic Take-Up |               | Manual Take-Up |               |
|----------------------|------|-------------------|---------------|----------------|---------------|
|                      |      | Bare Pulley       | Lagged Pulley | Bare Pulley    | Lagged Pulley |
| Single no snub       | 180° | 0.84              | 0.50          | 1.2            | 0.8           |
| Single with snub     | 200° | 0.72              | 0.42          | 1.0            | 0.7           |
|                      | 210° | 0.66              | 0.38          | 1.0            | 0.7           |
|                      | 220° | 0.62              | 0.35          | 0.9            | 0.6           |
|                      | 240° | 0.54              | 0.30          | 0.8            | 0.6           |

# CONTENT

## ENGINEERING/TECHNICAL

### Bearing Engineering Section

|   |        |
|---|--------|
| Vibration Frequencies of Anti-Friction Mounted Bearings ..... | PT15-2 |
| Bearing Life Adjustment Factors .....                         | PT15-8 |
| (Rolling Element Bearings)                                    |        |

### PT Component Engineering Section

|                                       |         |
|---------------------------------------|---------|
| V-Belt Sheave Groove Dimensions ..... | PT15-10 |
| Conveyor Belt FPM to RPM .....        | PT15-11 |
| Material Characteristics .....        | PT15-12 |

### General Engineering Section

|  |          |
|--|----------|
| Shafting .....   | PT15-14  |
| Expansion of Shafting .....                              | PT15-19  |
| Weights/Properties of Steel Shafting .....               | PT15-20  |
| Oil Viscosity Classification .....                       | PT15-22  |
| English Standard Measurement .....                       | PT15-23  |
| Metric Standard Measurement & Conversion .....           | PT15-25  |
| Common Conversion Factors .....                          | PT15-26  |
| Flywheel Formulas .....                                  | PT15-33  |
| Centrifugal Force .....                                  | PT15-33  |
| Formulas and Constants .....                             | PT15-32  |
| Torque and Horsepower Equivalentents .....               | PT15-34  |
| Overhung Loads .....                                     | PT15-34  |
| Mathematical Equations .....                             | PT15-34  |
| Strength and Physical Properties of Various Metals ..... | PT15-35  |
| Properties of Sections .....                             | PT15-37  |
| Coefficients of Friction (f) .....                       | PT15-38  |
| Hardness Comparison .....                                | PT15-38  |
| U.S. Standard Sheet Metal Gages .....                    | PT15-38  |
| Trigonometric Formula .....                              | PT15-39  |
| Part Number Index .....                                  | INDEX-1  |
| Keyword Index .....                                      | INDEX-43 |



# ENGINEERING

## Vibration Frequencies of DODGE Anti-Friction Mounted Bearings

More and more manufacturing facilities are getting involved with plant-wide preventive maintenance programs. By monitoring vibration levels of motors, pumps, fans and compressors, maintenance supervisors can predict imminent failures. Knowing that a piece of equipment is showing signs of potential failure permits scheduling of maintenance at an appropriate time and avoids the consequences of catastrophic failures. Shown in Tables 1 - 10 are vibration frequencies generated by bearing components defects. All frequencies are based on unity inner ring or cone rotation.

### How to Use the Tables

If a 2-7/16 Type E pillow block is rotating at 1000 RPM, the vibration due to a failed component will show up at the following frequencies: (Table 3, Line 6)

### Frequency

|   |                    |            |
|---|--------------------|------------|
| Cup Nick or Spall                               | = 1000 x 9.251     | = 9251 RPM |
| Cone Nick or Spall                              | = 1000 x 11.749    | = 11749 PM |
| *Roller Nick or Spall                           | = 1000 x 4.011 x 2 | = 8022 RPM |
| Cage (Train) Frequency<br>(Inner Ring Rotation) | = 1000 x 0.441     | = 441 RPM  |

Since all the values in Tables 1 - 10 are based on unity inner ring or cone rotation, the vibration due to flaws will show up at the frequencies obtained by multiplying the RPM times the factors found on the appropriate table. The resulting product will have units of RPM.

**Table 1: All Setscrew, Eccentric, D-LOK & GT Ball Bearing Parameters For Vibration Analysis (1-RPS)**

| Series | SC Bore         | SCM Bore        | # Balls | Diameter of Balls | Pitch Diameter | Outer Ring Frequency Hz | Inner Ring Frequency Hz | * Ball Spin Frequency Hz | Cage Frequency Hz |
|--------|-----------------|-----------------|---------|-------------------|----------------|-------------------------|-------------------------|--------------------------|-------------------|
| 203    | 1/2 - 5/8       |                 | 8       | 17/64             | 1.151          | 3.078                   | 4.923                   | 2.050                    | 0.385             |
| 204    | 1/2 - 3/4       |                 | 8       | 5/16              | 1.325          | 3.057                   | 4.943                   | 2.002                    | 0.382             |
| 205    | 7/8 - 1         |                 | 9       | 5/16              | 1.533          | 3.582                   | 5.418                   | 2.350                    | 0.398             |
| 206    | 1-1/6 - 1-1/4   | 1               | 9       | 3/8               | 1.823          | 3.575                   | 5.426                   | 2.328                    | 0.397             |
| 207    | 1-1/4 - 1-7/16  | 1-3/16          | 9       | 7/16              | 2.136          | 3.579                   | 5.422                   | 2.339                    | 0.398             |
| 208    | 1-1/2 - 1-5/8   | 1-7/16 - 1-1/2  | 9       | 1/2               | 2.387          | 3.558                   | 5.443                   | 2.283                    | 0.395             |
| 209    | 1-11/16 - 1-3/4 | 1-1/2           | 9       | 13/25             | 2.559          | 3.586                   | 5.414                   | 2.360                    | 0.398             |
| 210    | 1-15/16 - 2     | 1-11/16 - 1-3/4 | 10      | 1/2               | 2.765          | 4.056                   | 5.904                   | 2.674                    | 0.410             |
| 211    | 2-2-1/4         | 1-15/16 - 2     | 10      | 9/16              | 3.092          | 4.090                   | 5.910                   | 2.657                    | 0.410             |
| 212    | 2-1/4 - 2-7/16  | 2-3/16 - 2-1/4  | 10      | 5/8               | 3.385          | 4.077                   | 5.923                   | 2.616                    | 0.408             |
| 214    | 2-11/16         | 2-7/16 - 2-1/2  | 10      | 11/16             | 3.775          | 4.089                   | 5.911                   | 2.654                    | 0.409             |
| 215    | 2-15/16         | 2-11/16         | 11      | 11/16             | 4.085          | 4.574                   | 6.456                   | 2.887                    | 0.416             |
| 216    |                 | 2-15/16 - 3     | 11      | 3/4               | 4.330          | 4.547                   | 6.453                   | 2.800                    | 0.413             |
| 218    |                 | 3-7/16 - 3-1/2  | 11      | 27/32             | 4.920          | 4.557                   | 6.443                   | 2.830                    | 0.414             |

**Table 2: Type E, K, DI, and TAF Tapered Roller Bearing Parameters For Vibration Analysis (1-RPS)**

| Bore Size       | # Rollers Per Row | Mean Diameter of Rollers | Pitch Diameter | Contact Angle | Cup Frequency Hz | Cone Frequency Hz | * Roller Spin Frequency Hz | Cage Frequency Hz |
|-----------------|-------------------|--------------------------|----------------|---------------|------------------|-------------------|----------------------------|-------------------|
| 1-3/16 - 1-1/4  | 19                | 0.23                     | 1.774          | 17.533        | 8.326            | 10.675            | 3.798                      | 0.438             |
| 1-3/8 - 1-7/16  | 20                | 0.29                     | 2.084          | 16.5          | 8.666            | 11.334            | 3.529                      | 0.433             |
| 1-1/2 - 1-11/16 | 18                | 0.35                     | 2.411          | 16            | 7.744            | 10.256            | 3.377                      | 0.430             |
| 1-3/4 - 2       | 17                | 0.41                     | 2.709          | 12.033        | 7.241            | 9.758             | 3.231                      | 0.426             |
| 2-3/16          | 19                | 0.41                     | 3.014          | 13.283        | 8.242            | 10.758            | 3.611                      | 0.434             |
| 2-1/4 - 2-1/2   | 21                | 0.41                     | 3.337          | 14.5          | 9.251            | 11.7489           | 4.012                      | 0.441             |
| 2-11/16 - 3     | 24                | 0.41                     | 3.9            | 16.733        | 10.792           | 13.208            | 4.708                      | 0.450             |
| 3-3/16 - 3-1/2  | 26                | 0.46                     | 4.78           | 18.167        | 11.811           | 14.189            | 5.152                      | 0.454             |
| 3-15/16 - 4     | 26                | 0.51                     | 5.12           | 17.567        | 11.766           | 14.235            | 4.974                      | 0.453             |
| 4-7/16 - 4-1/2  | 25                | 0.59                     | 5.727          | 18.983        | 11.282           | 13.718            | 4.807                      | 0.451             |
| 4-15/16 - 5     | 25                | 0.68                     | 6.568          | 17            | 11.262           | 13.738            | 4.782                      | 0.455             |
| 5-7/16 - 6      | 32                | 0.67                     | 8.444          | 17.75         | 14.791           | 17.209            | 6.266                      | 0.462             |
| 6-7/16 - 7      | 27                | 0.93                     | 9.791          | 19.167        | 12.289           | 14.711            | 5.222                      | 0.455             |

$$\text{Cup Frequency} = N * \text{RPM} * (1 - (\text{Bd} * \cos a / \text{Pd})) / 120$$

$$\text{Cone Frequency} = N * \text{RPM} * (1 + (\text{Bd} * \cos a / \text{Pd})) / 120$$

$$\text{Roller Spin Frequency} = \text{Pd} * \text{RPM} * (1 - (\text{Bd} * \cos a / \text{Pd})^2) / (120 * \text{Bd})$$

$$\text{Cage Frequency} = \text{RPM} * (1 - (\text{Bd} * \cos a / \text{Pd})) / 120$$

Pd = Pitch Diameter

N = Number of rollers

Bd = Roller Diameter

a = Cup Angle (contact angle)

**Table 3: Type C Tapered Roller Bearing Parameters For Vibration Analysis (1-RPS)**

| Bore Size        | # Rollers Per Row | Mean Diameter of Rollers | Pitch Diameter | Contact Angle | Cup Frequency Hz | Cone Frequency Hz | * Roller Spin Frequency Hz | Cage Frequency Hz |
|------------------|-------------------|--------------------------|----------------|---------------|------------------|-------------------|----------------------------|-------------------|
| 1-3/16 - 1-7/16  | 19                | 0.31                     | 2.251          | 14.92         | 8.236            | 10.764            | 3.566                      | 0.433             |
| 1-1/2 - 1-3/4    | 21                | 0.32                     | 2.604          | 11.50         | 9.236            | 11.764            | 4.010                      | 0.440             |
| 1-15/16          | 22                | 0.33                     | 2.848          | 15.00         | 9.769            | 12.231            | 4.261                      | 0.444             |
| 2 - 2-1/4        | 21                | 0.40                     | 3.335          | 16.83         | 9.295            | 11.705            | 4.114                      | 0.443             |
| 2-3/16 - 2-7/16  | 25                | 0.35                     | 3.533          | 18.00         | 11.322           | 13.678            | 5.002                      | 0.453             |
| 2-1/2 - 2-11/16  | 23                | 0.43                     | 3.827          | 16.50         | 10.261           | 12.739            | 4.399                      | 0.446             |
| 2-7/16 - 2-15/16 | 26                | 0.42                     | 4.22           | 16.50         | 11.759           | 14.241            | 4.978                      | 0.452             |
| 3 - 3-3/16       | 22                | 0.55                     | 4.612          | 16.50         | 9.742            | 12.258            | 4.138                      | 0.443             |
| 3-1/4 - 3-7/16   | 24                | 0.51                     | 4.761          | 16.42         | 10.767           | 13.233            | 4.618                      | 0.449             |
| 3-1/2 - 4        | 25                | 0.59                     | 5.727          | 18.98         | 11.282           | 13.718            | 4.807                      | 0.4513            |
| 4-7/16 - 4-1/2   | 33                | 0.46                     | 3.109          | 11.50         | 14.108           | 18.892            | 3.308                      | 0.428             |
| 4-15/16 - 5      | 26                | 0.68                     | 6.983          | 18.00         | 11.796           | 14.204            | 5.091                      | 0.4537            |

$$\text{Cup Frequency} = N * \text{RPM} * (1 - (\text{Bd} * \cos a / \text{Pd})) / 120$$

$$\text{Cone Frequency} = N * \text{RPM} * (1 + (\text{Bd} * \cos a / \text{Pd})) / 120$$

$$\text{Roller Spin Frequency} = \text{Pd} * \text{RPM} * (1 - (\text{Bd} * \cos a / \text{Pd})^2) / (120 * \text{Bd})$$

$$\text{Cage Frequency} = \text{RPM} * (1 - (\text{Bd} * \cos a / \text{Pd})) / 120$$

Pd = Pitch Diameter

N = Number of rollers

Bd = Roller Diameter

a = Cup Angle (contact angle)

**\* Note:** Ball and Roller Spin Frequencies are listed at one (1X) roller spin frequency. For thorough analysis it is important to check frequency level at two (2X) rotational speed of balls or rollers as this is the frequency that a single ball/roller defect will contact the raceways of the bearing. In other words, a ball/roller defect will strike both inner and outer ring in one revolution of the roller.

## Type 4: Special Duty Tapered Roller Bearing Parameters For Vibration Analysis (1-RPS)

| Bore Size      | # Rollers Per Row | Mean Diameter of Rollers | Pitch Diameter | Contact Angle | Cup Frequency Hz | Cone Frequency Hz | Roller Spin Frequency Hz | Cage Frequency Hz |
|----------------|-------------------|--------------------------|----------------|---------------|------------------|-------------------|--------------------------|-------------------|
| 1-3/8 - 1-1/2  | 21                | 0.32                     | 2.603          | 11.50         | 9.238            | 11.762            | 4.019                    | 0.440             |
| 1-9/16 - 1-3/4 | 26                | 0.32                     | 3.061          | 16.00         | 11.693           | 14.307            | 4.732                    | 0.450             |
| 1-7/8 - 2      | 27                | 0.32                     | 3.267          | 17.00         | 12.235           | 14.765            | 5.058                    | 0.453             |
| 2-1/8 - 2-1/4  | 25                | 0.35                     | 3.533          | 18.00         | 11.317           | 13.683            | 4.981                    | 0.453             |
| 2-3/8 - 2-1/2  | 29                | 0.35                     | 3.828          | 18.77         | 13.245           | 15.755            | 5.430                    | 0.457             |
| 2-5/8 - 3      | 26                | 0.48                     | 4.572          | 10.17         | 11.650           | 14.350            | 4.687                    | 0.448             |
| 3-3/16 - 3-1/2 | 27                | 0.56                     | 5.541          | 16.00         | 12.184           | 14.816            | 4.884                    | 0.451             |
| 3-11/16 - 4    | 23                | 0.68                     | 6.103          | 15.88         | 10.263           | 12.737            | 4.418                    | 0.446             |
| 4-7/16 - 4-1/2 | 26                | 0.68                     | 6.983          | 18.00         | 11.791           | 14.209            | 5.069                    | 0.454             |
| 4-15/16 - 5    | 30                | 0.75                     | 7.896          | 17.00         | 13.637           | 16.363            | 5.218                    | 0.455             |
| 5-7/16 - 6     | 24                | 0.93                     | 9.123          | 17.33         | 10.832           | 13.168            | 4.858                    | 0.451             |
| 6-1/2 - 7      | 29                | 0.93                     | 10.190         | 19.23         | 13.251           | 15.750            | 5.438                    | 0.457             |
| 7-15/16 - 8    | 27                | 1.12                     | 11.471         | 12.42         | 12.213           | 14.787            | 5.074                    | 0.452             |
| 8-1/2 - 10     | 41                | 0.87                     | 13.979         | 16.40         | 19.276           | 21.724            | 8.005                    | 0.470             |
| 11 - 12        | 37                | 1.20                     | 16.061         | 12.50         | 17.151           | 19.850            | 6.657                    | 0.464             |

$$\text{Cup Frequency} = N * \text{RPM} * (1 - (\text{Bd} * \cos a / \text{Pd})) / 2$$

$$\text{Cone Frequency} = N * \text{RPM} * (1 + (\text{Bd} * \cos a / \text{Pd})) / 2$$

$$\text{Roller Spin Frequency} = \text{Pd} * \text{RPM} * (1 - (\text{Bd} * \cos a / \text{Pd})^2) / (2 * \text{Bd})$$

$$\text{Cage Frequency} = \text{RPM} * (1 - (\text{Bd} * \cos a / \text{Pd})) / 2$$

Pd = Pitch Diameter

N = Number of rollers

Bd = Roller Diameter

a = Cup Angle (contact angle)

## Table 5: All Steel Tapered Roller Bearing Parameters For Vibration Analysis (1-RPS)

| Bore Size      | # Rollers Per Row | Mean Diameter of Rollers | Pitch Diameter | Contact Angle | Cup Frequency Hz | Cone Frequency Hz | * Roller Spin Frequency Hz | Cage Frequency Hz |
|----------------|-------------------|--------------------------|----------------|---------------|------------------|-------------------|----------------------------|-------------------|
| 2-11/16 - 3    | 27                | 0.36                     | 4.114          | 15.50         | 12.362           | 14.638            | 5.673                      | 0.458             |
| 3-1/4 - 3-1/2  | 26                | 0.51                     | 5.120          | 17.57         | 11.766           | 14.235            | 4.974                      | 0.453             |
| 3-15/16 - 4    | 33                | 0.48                     | 5.814          | 12.50         | 15.170           | 17.830            | 6.017                      | 0.460             |
| 4-7/16 - 4-1/2 | 29                | 0.60                     | 6.503          | 12.92         | 13.196           | 15.804            | 5.375                      | 0.455             |
| 4-15/16 - 5    | 32                | 0.61                     | 7.355          | 12.50         | 14.705           | 17.296            | 5.989                      | 0.460             |
| 5-7/16         | 27                | 0.84                     | 8.272          | 12.00         | 12.159           | 14.841            | 4.875                      | 0.450             |
| 5-15/16 - 6    | 26                | 0.85                     | 8.323          | 12.00         | 11.701           | 14.300            | 4.847                      | 0.450             |
| 6-7/16 - 7     | 32                | 0.81                     | 9.748          | 12.50         | 14.702           | 17.300            | 5.978                      | 0.459             |
| 7-1/2 - 8      | 27                | 1.12                     | 11.471         | 12.42         | 12.213           | 14.787            | 5.074                      | 0.452             |
| 9 - 10         | 32                | 1.28                     | 14.026         | 12.03         | 14.572           | 17.428            | 5.435                      | 0.455             |

$$\text{Cup Frequency} = N * \text{RPM} * (1 - (\text{Bd} * \cos a / \text{Pd})) / 120$$

$$\text{Cone Frequency} = N * \text{RPM} * (1 + (\text{Bd} * \cos a / \text{Pd})) / 120$$

$$\text{Roller Spin Frequency} = \text{Pd} * \text{RPM} * (1 - (\text{Bd} * \cos a / \text{Pd})^2) / (120 * \text{Bd})$$

$$\text{Cage Frequency} = \text{RPM} * (1 - (\text{Bd} * \cos a / \text{Pd})) / 120$$

Pd = Pitch Diameter

N = Number of rollers

Bd = Roller Diameter

a = Cup Angle (contact angle)

**\* Note:** Ball and Roller Spin Frequencies are listed at one (1X) roller spin frequency. For thorough analysis it is important to check frequency level at two (2X) rotational speed of balls or rollers as this is the frequency that a single ball/roller defect will contact the raceways of the bearing. In other words, a ball/roller defect will strike both inner and outer ring in one revolution of the roller.

**Table 6: S-2000, Unisphere II and Imperial Spherical Roller Bearing Parameters for Vibration Analysis (1-RPS)**

| Basic Bearing Series | S-2000 Bore Size (in) | Unisphere II Bore Size (in) | Imperial Bore Size (in) | No. of Rollers | Mean Dia. Of Rollers | Pitch Dia. | Contact Angle | Outer Ring Frequency Hz | Inner Ring Frequency Hz | * Roller Spin Frequency Hz | Cage Frequency Hz |
|----------------------|-----------------------|-----------------------------|-------------------------|----------------|----------------------|------------|---------------|-------------------------|-------------------------|----------------------------|-------------------|
| 22208                | 1-3/8 - 1-1/2         | 1-7/16 - 1-1/2              | 1-1/8 - 1-1/2           | 15             | 0.449                | 2.449      | 10.583        | 6.149                   | 8.851                   | 2.640                      | 0.410             |
| 22209                | 1-11/16 - 1-3/4       | 1-11/16 - 1-3/4             | 1-5/8 - 1-3/4           | 17             | 0.429                | 2.665      | 9.750         | 7.151                   | 9.849                   | 3.027                      | 0.421             |
| 22210                | 1-15/16 - 2           | 1-15/16 - 2                 | 1-7/8 - 2               | 18             | 0.433                | 2.858      | 9.083         | 7.653                   | 10.347                  | 3.226                      | 0.425             |
| 22211                | 2-3/16                | 2-3/16                      | 2-3/16 - 2-1/4          | 19             | 0.465                | 3.189      | 8.750         | 8.132                   | 10.868                  | 3.361                      | 0.428             |
| 22213                | 2-7/16                | 2-7/16 - 2-1/2              | 2-3/8 - 2-1/2           | 18             | 0.583                | 3.795      | 9.083         | 7.635                   | 10.365                  | 3.182                      | 0.424             |
| 22215                | 2-11/16 - 3           | 2-11/16 - 3                 | 2-11/16 - 3             | 20             | 0.575                | 4.197      | 8.250         | 8.645                   | 11.355                  | 3.584                      | 0.432             |
| 22218                | 3-7/16                | 3-7/16 - 3-1/2              | 3-3/16 - 3-1/2          | 18             | 0.780                | 5.079      | 8.833         | 7.635                   | 10.365                  | 3.183                      | 0.424             |
| 22220                | 3-15/16 - 4           | 3-15/16 - 4                 | 3-11/16 - 4             | 18             | 0.878                | 5.705      | 9.000         | 7.632                   | 10.368                  | 3.174                      | 0.424             |
| 22222                | 4-7/16                |                             | 4-7/16 - 4-1/2          | 17             | 1.020                | 6.287      | 9.417         | 7.140                   | 9.860                   | 3.004                      | 0.420             |
| 22226                | 4-15/16               |                             | 4-15/16 - 5             | 18             | 1.118                | 7.307      | 9.750         | 7.643                   | 10.357                  | 3.193                      | 0.425             |
| 22228                |                       |                             | 5-7/16 - 5-1/2          | 18             | 1.217                | 7.933      | 9.583         | 7.639                   | 10.361                  | 3.186                      | 0.424             |
| 22232                |                       |                             | 5-15/16 - 6             | 18             | 1.409                | 9.189      | 9.667         | 7.639                   | 10.361                  | 3.185                      | 0.424             |
| 22236                |                       |                             | 6-7/16 - 7              | 18             | 1.559                | 10.157     | 9.417         | 7.637                   | 10.363                  | 3.183                      | 0.424             |

**Table 7: USAF and SAF-XT Spherical Roller Bearing Parameters for Vibration Analysis (1-RPS)**

| Basic Bearing Series | USAF/SAF-XT Bore Sizes (in) | No. of Rollers | Mean Dia. Of Rollers | Pitch Dia. | Contact Angle | Outer Ring Frequency Hz | Inner Ring Frequency Hz | * Roller Spin Frequency Hz | Cage Frequency Hz |
|----------------------|-----------------------------|----------------|----------------------|------------|---------------|-------------------------|-------------------------|----------------------------|-------------------|
| 22209                | 1-7/16                      | 18             | 0.408                | 2.626      | 9.633         | 7.623                   | 10.377                  | 3.147                      | 0.424             |
| 22210                | 1-11/16                     | 19             | 0.415                | 2.819      | 8.917         | 8.120                   | 10.880                  | 3.328                      | 0.427             |
| 22211                | 1-15/16                     | 19             | 0.465                | 3.097      | 8.833         | 8.092                   | 10.908                  | 3.260                      | 0.426             |
| 22213                | 2-3/16                      | 20             | 0.534                | 3.761      | 9.117         | 8.599                   | 11.401                  | 3.456                      | 0.430             |
| 22215                | 2-7/16 - 2-1/2              | 20             | 0.587                | 4.093      | 8.433         | 8.582                   | 11.418                  | 3.419                      | 0.429             |
| 22216                | 2-11/16 - 2-3/4             | 20             | 0.622                | 4.410      | 8.333         | 8.604                   | 11.396                  | 3.475                      | 0.430             |
| 22217                | 2-15/16 - 3                 | 20             | 0.679                | 4.723      | 8.367         | 8.578                   | 11.422                  | 3.409                      | 0.429             |
| 22218                | 3-3/16                      | 20             | 0.702                | 5.024      | 8.917         | 8.620                   | 11.380                  | 3.510                      | 0.431             |
| 22220                | 3-7/16 - 3-1/2              | 19             | 0.823                | 5.609      | 8.917         | 8.123                   | 10.877                  | 3.336                      | 0.428             |
| 22222                | 3-15/16 - 4                 | 18             | 0.979                | 6.185      | 9.583         | 7.595                   | 10.405                  | 3.082                      | 0.422             |
| 22224                | 4-3/16                      | 19             | 0.999                | 6.700      | 9.633         | 8.103                   | 10.897                  | 3.280                      | 0.426             |
| 22226                | 4-7/16 - 4-1/2              | 19             | 1.071                | 7.205      | 9.950         | 8.109                   | 10.891                  | 3.292                      | 0.427             |
| 22228                | 4-15/16 - 5                 | 18             | 1.217                | 7.933      | 9.583         | 7.639                   | 10.361                  | 3.186                      | 0.424             |
| 22230                | 5-3/16                      | 18             | 1.315                | 8.559      | 9.500         | 7.636                   | 10.364                  | 3.180                      | 0.424             |
| 22232                | 5-7/16 - 5-1/2              | 18             | 1.409                | 9.189      | 9.667         | 7.639                   | 10.361                  | 3.185                      | 0.424             |
| 22234                | 5-15/16 - 6                 | 17             | 1.583                | 9.740      | 9.833         | 7.139                   | 9.861                   | 2.998                      | 0.420             |
| 22236                | 6-7/16 - 6-1/2              | 18             | 1.559                | 10.157     | 9.417         | 7.637                   | 10.363                  | 3.183                      | 0.424             |
| 22238                | 6-15/16 - 7                 | 20             | 1.496                | 10.669     | 10.667        | 8.622                   | 11.378                  | 3.498                      | 0.431             |
| 22240                | 7-3/16                      | 19             | 1.614                | 11.021     | 10.833        | 8.133                   | 10.867                  | 3.343                      | 0.428             |
| 22244                | 7-1/2 - 8                   | 19             | 1.850                | 12.480     | 10.833        | 8.117                   | 10.883                  | 3.301                      | 0.427             |
| 23048                | 8-7/16 - 9                  | 29             | 1.142                | 12.008     | 9.333         | 13.140                  | 15.860                  | 5.213                      | 0.453             |
| 23052                | 9-7/16 - 9-1/2              | 27             | 1.378                | 13.228     | 9.667         | 12.114                  | 14.886                  | 4.749                      | 0.449             |
| 23056                | 9-15/16 - 10-1/2            | 28             | 1.378                | 13.976     | 9.333         | 12.638                  | 15.362                  | 5.023                      | 0.451             |

\* **Note:** Ball and Roller Spin Frequencies are listed at one (1X) roller spin frequency. For thorough analysis it is important to check frequency level at two (2X) rotational speed of balls or rollers as this is the frequency that a single ball/roller defect will contact the raceways of the bearing. In other words, a ball/roller defect will strike both inner and outer ring in one revolution of the roller.



**Table 8: DODGE USAF Air Handling Spherical Roller Bearing Parameters For Vibration Analysis (1-RPS)**

| Bore Size       | Basic Bearing Series | # Rollers Per Row | Diameter of Rollers | Pitch Diameter | Contact Angle | Outer Ring Frequency Hz | Inner Ring Frequency Hz | *Roller Spin Frequency Hz | Cage Frequency Hz |
|-----------------|----------------------|-------------------|---------------------|----------------|---------------|-------------------------|-------------------------|---------------------------|-------------------|
| 1-7/16          | 22209E1K             | 17                | 0.3937              | 2.5976         | 10.0000       | 7.231                   | 9.769                   | 3.226                     | 0.425             |
| 1-11/16         | 22210E1K             | 19                | 0.3937              | 2.7976         | 9.2500        | 8.180                   | 10.820                  | 3.484                     | 0.431             |
| 1-15/16         | 22211E1K             | 18                | 0.4528              | 3.0921         | 8.9200        | 7.698                   | 10.302                  | 3.343                     | 0.428             |
| 2-3/16          | 22213E1K             | 19                | 0.5315              | 3.7110         | 9.2500        | 8.157                   | 10.843                  | 3.421                     | 0.429             |
| 2-7/16 - 2-1/2  | 22215E1K             | 21                | 0.5315              | 4.1098         | 8.3300        | 9.156                   | 11.846                  | 3.803                     | 0.436             |
| 2-11/16 - 2-3/4 | 22216E1K             | 20                | 0.5709              | 4.3638         | 8.2500        | 8.705                   | 11.295                  | 3.758                     | 0.435             |
| 2-15/16 - 3     | 22217E1K             | 20                | 0.6299              | 4.6811         | 8.5000        | 8.669                   | 11.331                  | 3.650                     | 0.434             |
| 3-3/16          | 22218E1K             | 20                | 0.6693              | 4.9602         | 8.8300        | 8.667                   | 11.333                  | 3.640                     | 0.433             |
| 3-7/16 - 3-1/2  | 22220E1K             | 19                | 0.7677              | 5.5606         | 9.0000        | 8.205                   | 10.795                  | 3.554                     | 0.432             |
| 3-15/16 - 4     | 22222E1K             | 19                | 0.8661              | 6.1559         | 9.4200        | 8.181                   | 10.819                  | 3.485                     | 0.431             |
| 4-3/16          | 22224E1K             | 19                | 0.9252              | 6.6382         | 9.5800        | 8.194                   | 10.806                  | 3.520                     | 0.431             |
| 4-7/16 - 4-1/2  | 22226E1K             | 19                | 0.9843              | 7.1358         | 9.9200        | 8.209                   | 10.791                  | 3.558                     | 0.432             |
| 4-15/16 - 5     | 22228E1K             | 19                | 1.0630              | 7.7232         | 9.6700        | 8.211                   | 10.789                  | 3.566                     | 0.432             |

 Outer Ring Frequency =  $N * RPM * (1 - (Bd * \cos a / Pd)) / 120$ 

 Inner Ring Frequency =  $N * RPM * (1 + (Bd * \cos a / Pd)) / 120$ 

 Roller Spin Frequency =  $Pd * RPM * (1 - (Bd * \cos a / Pd)^2) / (120 * Bd)$ 

 Cage Frequency =  $RPM * (1 - (Bd * \cos a / Pd)) / 120$ 

Pd = Pitch Diameter

N = Number of rollers

Bd = Roller Diameter

a = Contact Angle

**Table 9: Split-Spherical Roller Bearing Parameters For Vibration Analysis**

| Bore Size      | Basic Bearing Series | # Rollers Per Row | Diameter of Rollers | Pitch Diameter | Contact Angle | Outer Ring Frequency Hz | Inner Ring Frequency Hz | *Roller Spin Frequency Hz | Cage Frequency Hz |
|----------------|----------------------|-------------------|---------------------|----------------|---------------|-------------------------|-------------------------|---------------------------|-------------------|
| 2-3/16         | 22213SS              | 17                | 0.559               | 3.414          | 9.000         | 7.125                   | 9.875                   | 2.973                     | 0.419             |
| 2-7/16         | 22215SS              | 18                | 0.551               | 3.748          | 9.083         | 7.693                   | 10.307                  | 3.328                     | 0.427             |
| 2-11/16        | 22216SS              | 19                | 0.579               | 3.950          | 8.667         | 8.124                   | 10.876                  | 3.341                     | 0.428             |
| 2-15/16        | 22217SS              | 20                | 0.575               | 4.153          | 8.250         | 8.630                   | 11.370                  | 3.545                     | 0.431             |
| 3-3/16         | 22218SS              | 19                | 0.654               | 4.435          | 8.167         | 8.114                   | 10.886                  | 3.321                     | 0.427             |
| 3-7/16         | 22220SS              | 18                | 0.780               | 5.079          | 8.833         | 7.635                   | 10.365                  | 3.183                     | 0.424             |
| 3-15/16 - 4    | 22222SS              | 18                | 0.878               | 5.634          | 9.000         | 7.615                   | 10.385                  | 3.132                     | 0.423             |
| 4-3/16         | 22224SS              | 17                | 1.110               | 6.203          | 9.417         | 7.000                   | 10.000                  | 2.708                     | 0.412             |
| 4-7/16 - 4-1/2 | 22226SS              | 18                | 1.047               | 6.727          | 9.417         | 7.618                   | 10.382                  | 3.136                     | 0.423             |
| 4-15/16        | 22228SS              | 18                | 1.118               | 7.202          | 9.750         | 7.623                   | 10.377                  | 3.145                     | 0.424             |
| 5-3/16         | 22230SS              | 18                | 1.217               | 7.822          | 9.583         | 7.620                   | 10.380                  | 3.139                     | 0.423             |
| 5-7/16         | 22232SS              | 18                | 1.315               | 8.442          | 9.500         | 7.617                   | 10.383                  | 3.134                     | 0.423             |
| 5-15/16 - 6    | 22234SS              | 18                | 1.409               | 9.059          | 9.667         | 7.620                   | 10.380                  | 3.138                     | 0.423             |
| 6-7/16 - 6-1/2 | 22236SS              | 18                | 1.409               | 9.059          | 9.667         | 7.620                   | 10.380                  | 3.138                     | 0.423             |
| 6-15/16 - 7    | 22238SS              | 18                | 1.559               | 10.021         | 9.417         | 7.619                   | 10.381                  | 3.138                     | 0.423             |
| 7-3/16         | 22240SS              | 16                | 1.579               | 10.716         | 9.417         | 6.837                   | 9.163                   | 3.322                     | 0.427             |
| 7-1/2 - 8      | 22244SS              | 16                | 1.752               | 11.257         | 9.500         | 6.772                   | 9.228                   | 3.137                     | 0.423             |
| 8-1/2 - 9      | 23048SS              | 20                | 1.307               | 11.189         | 8.083         | 8.843                   | 11.157                  | 4.223                     | 0.442             |
| 9-1/2          | 23052SS              | 22                | 1.339               | 11.949         | 8.417         | 9.781                   | 12.219                  | 4.408                     | 0.445             |
| 10             | 23056SS              | 20                | 1.539               | 13.175         | 8.667         | 8.845                   | 11.155                  | 4.222                     | 0.442             |

 Outer Ring Frequency =  $N * RPM * (1 - (Bd * \cos a / Pd)) / 120$ 

 Inner Ring Frequency =  $N * RPM * (1 + (Bd * \cos a / Pd)) / 120$ 

 Roller Spin Frequency =  $Pd * RPM * (1 - (Bd * \cos a / Pd)^2) / (120 * Bd)$ 

 Cage Frequency =  $RPM * (1 - (Bd * \cos a / Pd)) / 120$ 

Pd = Pitch Diameter

N = Number of rollers

Bd = Roller Diameter

a = Contact Angle

**\* Note:** Ball and Roller Spin Frequencies are listed at one (1X) roller spin frequency. For thorough analysis it is important to check frequency level at two (2X) rotational speed of balls or rollers as this is the frequency that a single ball/roller defect will contact the raceways of the bearing. In other words, a ball/roller defect will strike both inner and outer ring in one revolution of the roller.

**Table 10: USDAF Spherical Roller Bearing Parameters For Vibration Analysis (1-RPS)**

| Bore Size         | Basic Bearing Series | # Rollers Per Row | Diameter of Rollers | Pitch Diameter | Contact Angle | Outer Ring Frequency Hz | Inner Ring Frequency Hz | * Roller Spin Frequency Hz | Cage Frequency Hz |
|-------------------|----------------------|-------------------|---------------------|----------------|---------------|-------------------------|-------------------------|----------------------------|-------------------|
| 10-15/16 - 11     | 23060K               | 27                | 1.575               | 15.066         | 9.500         | 12.108                  | 14.892                  | 4.732                      | 0.448             |
| 11-7/16 - 12      | 23064K               | 28                | 1.575               | 15.850         | 9.333         | 12.627                  | 15.373                  | 4.983                      | 0.451             |
| 12-7/16 - 12-1/2  | 23068K               | 27                | 1.732               | 17.007         | 9.500         | 12.144                  | 14.856                  | 4.860                      | 0.450             |
| 12-15/16 - 13-1/2 | 23072K               | 28                | 1.732               | 17.793         | 9.333         | 12.655                  | 15.345                  | 5.089                      | 0.452             |
| 13-15/16 - 14     | 23076K               | 30                | 1.732               | 18.587         | 9.000         | 13.620                  | 16.381                  | 5.320                      | 0.454             |
| 15                | 23080K               | 29                | 1.929               | 19.822         | 9.167         | 13.107                  | 15.893                  | 5.091                      | 0.452             |
| 15-3/4            | 23084K               | 30                | 1.929               | 20.609         | 9.000         | 13.613                  | 16.387                  | 5.296                      | 0.454             |
|                   |                      |                   |                     |                |               |                         |                         |                            |                   |
| 9-7/16 - 9-1/2    | 23152K               | 23                | 1.693               | 13.914         | 12.500        | 10.134                  | 12.866                  | 4.051                      | 0.441             |
| 10-7/16 - 10-1/2  | 23156K               | 24                | 1.732               | 14.711         | 12.000        | 10.618                  | 13.382                  | 4.191                      | 0.442             |
| 10-15/16 - 11     | 23160K               | 23                | 1.89                | 15.923         | 12.333        | 10.167                  | 12.834                  | 4.156                      | 0.442             |
| 11-15/16 - 12     | 23164K               | 23                | 2.087               | 17.044         | 12.833        | 10.127                  | 12.873                  | 4.025                      | 0.440             |
| 12-7/16 - 12-1/2  | 23168K               | 23                | 2.244               | 18.272         | 12.833        | 10.123                  | 12.877                  | 4.013                      | 0.440             |
| 13-7/16 - 13-1/2  | 23172K               | 24                | 2.244               | 19.077         | 12.333        | 10.621                  | 13.379                  | 4.195                      | 0.443             |
| 13-15/16 - 14     | 23176K               | 25                | 2.323               | 19.833         | 12.000        | 11.068                  | 13.932                  | 4.213                      | 0.443             |
|                   |                      |                   |                     |                |               |                         |                         |                            |                   |
| 8-15/16 - 9       | 23248K               | 20                | 1.929               | 13.523         | 14.000        | 8.616                   | 11.384                  | 3.438                      | 0.431             |
| 9-7/16 - 9-1/2    | 23252K               | 19                | 2.126               | 14.745         | 14.000        | 8.171                   | 10.829                  | 3.400                      | 0.430             |
| 10-7/16 - 10-1/2  | 23256K               | 20                | 2.126               | 15.537         | 13.583        | 8.670                   | 11.330                  | 3.590                      | 0.434             |
| 10-15/16 - 11     | 23260K               | 20                | 2.323               | 16.706         | 13.833        | 8.650                   | 11.350                  | 3.530                      | 0.433             |
| 11-15/16 - 12     | 23264K               | 20                | 2.441               | 17.878         | 14.000        | 8.675                   | 11.325                  | 3.598                      | 0.434             |
| 12-7/16 - 12-1/2  | 23268K               | 20                | 2.638               | 19.048         | 14.167        | 8.657                   | 11.343                  | 3.545                      | 0.433             |

Outer Ring Frequency =  $N * RPM * (1 - (Bd * \cos a / Pd)) / 120$

Inner Ring Frequency =  $N * RPM * (1 + (Bd * \cos a / Pd)) / 120$

Roller Spin Frequency =  $Pd * RPM * (1 - (Bd * \cos a / Pd)^2) / (120 * Bd)$

Cage Frequency =  $RPM * (1 - (Bd * \cos a / Pd)) / 120$

Pd = Pitch Diameter

N = Number of rollers

Bd = Roller Diameter

a = Contact Angle

**\* Note:** Ball and Roller Spin Frequencies are listed at one (1X) roller spin frequency. For thorough analysis it is important to check frequency level at two (2X) rotational speed of balls or rollers as this is the frequency that a single ball/roller defect will contact the raceways of the bearing. In other words, a ball/roller defect will strike both inner and outer ring in one revolution of the roller.

## Mounted Bearings Life Adjustment Factor

**1.1 GENERAL.** For certain applications, it is desirable to specify life for reliability other than 90%. In such cases a life adjustment factor for reliability may be applied to the RATING LIFE. Section 1.2 discusses life adjustment factors for reliability.

Some bearing steels; e.g., vacuum-melted steels, and improved processing techniques, permit manufacture of bearings which offer endurance greater than that calculated by the RATING LIFE formula. Section 1.3 recommends methods to incorporate life adjustment factors for bearing materials into the life formula.

Bearing life calculated according to the RATING LIFE formula assumes proper application conditions. If lubrication is not adequate, loading unusual, or temperatures extreme, the ability of the bearing to attain or exceed the RATING LIFE is seriously impaired. Section 1.4 contains some basic recommendations concerning the effect of unusual application conditions on bearing life.

**1.2 LIFE ADJUSTMENT FACTOR FOR RELIABILITY.** Bearing life estimated in accordance with this standard is RATING LIFE; i.e., the life associated With 90% reliability or the life which 90% of a group of apparently identical bearings in a given application under similar conditions of load and speed will complete or exceed. While RATING LIFE has proven useful over a period of years as a criterion of performance, some applications require definition of life at reliabilities greater than 90%.

To determine bearing life with reliabilities other than 90% (as previously calculated in the Selection Procedure) the  $L_{10}$  must be adjusted by factor  $a_1$ , such that  $L_n = a_1 \times L_{10}$ .

The life adjustment factors for reliability from Table 11 are recommended.

**Table 11: Life Adjustment Factors For Reliability**

| Reliability % | $L_n$    | Life Adjustment Factor for Reliability $a_1$ |
|---------------|----------|--|
| 90            | $L_{10}$ | 1  |
| 95            | $L_5$    | 0.62   |
| 96            | $L_4$    | 0.53   |
| 97            | $L_3$    | 0.44   |
| 98            | $L_2$    | 0.33   |
| 99            | $L_1$    | 0.21   |

**1.3 LIFE ADJUSTMENT FACTOR FOR MATERIAL.** For bearings, which incorporate improved materials and processing, the  $L_{10}$  (as previously calculated in the Selection Procedure) must be adjusted by factor  $a_2$ . Factor  $a_2$  depends upon steel analysis, metallurgical processing, forming methods, heat treatment and manufacturing methods in general.

Bearings fabricated from consumable vacuum remelted steels and certain other special analysis steels have demonstrated extraordinarily long endurance. These steels are of exceptionally high quality, and bearings fabricated from these are usually considered special manufacture. As such,  $a_2$  values will not be specified for such steels in this discussion. Generally,  $a_2$  values for such steels can be obtained from the bearing manufacturer.

## Mounted Bearings Life Adjustment Factor

### 1.4 LIFE ADJUSTMENT FACTOR FOR APPLICATION

**CONDITIONS.** Application conditions which affect bearing life include:

1. Lubrication.
2. Load distribution (including effects of clearance, misalignment, housing, and shaft stiffness, type of loading and thermal gradients).
3. Temperature.

Consideration of (1.2) and (1.3) above requires analytical and experimental techniques beyond the scope of this discussion, therefore, the user should consult the bearing manufacturer for evaluations and recommendations.

In most bearing applications, lubrication serves to separate the rolling surfaces; i.e., rolling elements and raceways; to reduce retainer-rolling elements and retainer-land friction and sometimes to act as a coolant to remove frictional heat generated by the bearing.

If all limitations and qualifications specified by this discussion are observed, then the life adjustment application factor for bearings which are adequately lubricated is 1; i.e.,  $a_3=1$ .

Operating conditions where  $a_3$  might be less than 1 include:

- a) exceptionally low values of  $N_{dm}$  (rpm times bore diameter in mm); e.g.,  $N_{dm}$  1000.
  - b) Lubricant viscosity less than 20.4 centistokes (100 SUS) at operating temperature.
  - c) Excessively high operating temperatures.
- When  $a_3$  is less than 1, it may not be assumed that the deficiency in lubrication can be overcome by using an improved steel.

**1.5 FACTOR COMBINATIONS.** A fatigue life formula including the life adjustment factors is:

Ball Bearings:

$$L_n = a_1 \times a_2 \times a_3 \left( \frac{C^*}{P} \right)^3 \times \frac{(16.667)}{\text{RPM}}$$

Tapered Roller Bearings:

$$L_n = a_1 \times a_2 \times a_3 \left( \frac{C_{90}^*}{P} \right) \times \frac{(1,500,000)}{\text{RPM}}$$

Spherical Roller Bearings:

$$L_n = a_1 \times a_2 \times a_3 \left( \frac{C^*}{P} \right)^{10/3} \times \frac{(16.667)}{\text{RPM}}$$

Indiscriminate application of the life adjustment factors in this formula may lead to serious over-estimation of bearing endurance, since fatigue life is only one criterion for bearing selection.

Care must be exercised to select bearings which are of sufficient size for the application. Undersizing of shaft and housing structures by using bearings which appear adequate from a life standpoint could lead to misalignment and fitting problems which could invalidate the formulas in this discussion.

\* C = Basic Load Rating computed in accordance with ABMA-ANSI Standards.  $C_{90} = C \times .259$

# ENGINEERING

## V-Belt Drive Formulas

**V-belt tensioning** In cases where tensioning of a drive effects belt pull and bearing loads, the following formulas may be used.

$$T_1 - T_2 = 33,000 \left( \frac{HP}{V} \right)$$

where:  $T_1$  = tight side tension, pounds  
 $T_2$  = slack side tension, pounds  
 HP = design horsepower  
 V = belt speed, feet per minute

$$T_1 + T_2 = 33,000 (2.5-G) \left( \frac{HP}{GV} \right)$$

where:  $T_1$  = tight side tension, pounds  
 $T_2$  = slack side tension, pounds  
 HP = design horsepower  
 V = belt speed, feet per minute  
 G = arc of contact correction factor\*

$$T_1/T_2 = \frac{1}{1-0.8G} \quad (\text{Also } T_1/T_2 = e^{K\theta})$$

where:  $T_1$  = tight side tension, pounds  
 $T_2$  = slack side tension, pounds  
 G = arc of contact correction factor\*  
 e = base of natural logarithms  
 K = .51230, a constant for V-belt drive design  
 $\theta$  = arc of contact in radians

$$T_1 = 41,250 (HP/GV)$$

where:  $T_1$  = tight side tension, pounds  
 HP = design horsepower  
 V = belt speed, feet per minute  
 G = arc of contact correction factor

$$T_2 = 33,000 (1.25-G) (HP/GV)$$

where:  $T_2$  = slack side tension, pounds  
 HP = design horsepower  
 V = belt speed, feet per minute  
 G = arc of contact correction factor

### Belt Speed

$$V = \frac{(PD) (RPM)}{3.82} = (PD) (rpm) (.262)$$

where: V = belt speed, feet per minute  
 PD = pitch diameter of sheave or pulley  
 rpm = revolutions per minute of the same sheave or pulley

\* See Table 12 at left

**Table 12: Arc of Contact Correction Factor G**

| D-d<br>C | Small Sheave Arc of Contact | Factor G | D-d<br>C | Small Sheave Arc of Contact | Factor G |
|----------|-----------------------------|----------|----------|-----------------------------|----------|
| .00      | 180°                        | 1.00     | .80      | 133°                        | .87      |
| .10      | 174°                        | .99      | .90      | 127°                        | .85      |
| .20      | 169°                        | .97      | 1.00     | 120°                        | .82      |
| .30      | 163°                        | .96      | 1.10     | 130°                        | .80      |
| .40      | 157°                        | .94      | 1.20     | 106°                        | .77      |
| .50      | 151°                        | .93      | 1.30     | 99°                         | .73      |
| .60      | 145°                        | .91      | 1.40     | 91°                         | .70      |
| .70      | 139°                        | .89      | 1.50     | 83°                         | .65      |

D = Diam. of large sheave. d = Diam. of small sheave  
 C = Center distance

**Table 13: Allowable Sheave Rim Speed**

| Sheave Material | Rim Speed in Feet per Minute |
|-----------------|------------------------------|
| Cast Iron       | 6,500                        |
| Ductile Iron    | 8,000                        |
| Steel           | 10,000                       |

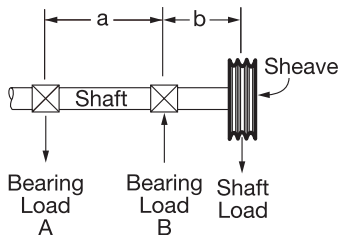
**NOTE:** Above rim speed values are maximum for normal considerations. In some cases these values may be exceeded. Consult factory and include complete details of proposed application.

$$\text{Dynamic balance RPM for Sheave/Sprocket } \diamond = \frac{15600}{\sqrt{\text{Dia} \times \text{Face Width}}}$$

$\diamond$  **Note:** MPTA recommends Dynamic balance when application RPM exceeds this value.

### Bearing Load Calculations

To find actual bearing loads, it is necessary to know machine component weights and values of all other forces contributing to the load. Sometimes it becomes desirable to know the bearing load imposed by the V-belt drive



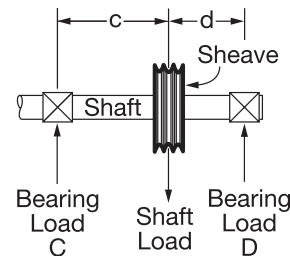
#### Overhung Sheave

$$\text{Load at B, lbs.} = \frac{\text{Shaft Load} \times (a + b)}{a}$$

$$\text{Load at A, lbs.} = \text{Shaft Load} \times \frac{b}{a}$$

Where: a and b = Spacing, inches

alone. This can be done if you know bearing spacing with respect to the sheave center and shaft load and apply it to the following formulas:



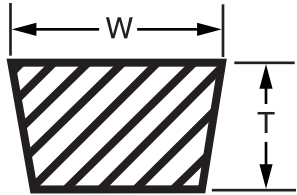
#### Sheave Between Bearings

$$\text{Load at D, lbs.} = \frac{\text{Shaft Load} \times c}{c + d}$$

$$\text{Load at C, lbs.} = \frac{\text{Shaft Load} \times d}{c + d}$$

Where: c and d = Spacing, inches

## Nominal V-Belt Cross Sections



**Table 14: Nominal V-Belt Cross Sections**

| Belt Section | Industry Standard Description | Width W, in Inches | Thickness T, in Inches |
|--------------|-------------------------------|--------------------|------------------------|
| 3L           | FHP, Single                   | 3/8                | 7/32                   |
| 4L           |                               | 1/2                | 5/16                   |
| 5L           |                               | 21/32              | 3/8                    |
| 3V           | Narrow                        | 3/8                | 5/16                   |
| 5V           |                               | 5/8                | 17/32                  |
| 8V           |                               | 1                  | 29/32                  |
| A            | Classical Multiple            | 1/2                | 5/16                   |
| B            |                               | 21/32              | 13/32                  |
| C            |                               | 7/8                | 17/32                  |
| D            |                               | 1-1/4              | 3/4                    |

**Table 15: Maximum Pulley RPM\***

| Pulley Dia. Inches | FPM |     |     |     |     |     |     |     |     |     |     |     |      |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
|                    | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| 6                  | 64  | 95  | 127 | 159 | 191 | 223 | 254 | 318 | 382 | 445 | 509 | 573 | 636  |
| 8                  | 48  | 72  | 95  | 119 | 143 | 167 | 191 | 239 | 286 | 334 | 382 | 429 | 477  |
| 10                 | 38  | 57  | 76  | 95  | 115 | 134 | 153 | 191 | 229 | 267 | 305 | 344 | 382  |
| 12                 | 32  | 48  | 64  | 80  | 95  | 111 | 127 | 159 | 191 | 223 | 254 | 286 | 318  |
| 14                 | 27  | 41  | 55  | 68  | 82  | 95  | 109 | 136 | 164 | 191 | 218 | 245 | 273  |
| 16                 | 24  | 36  | 48  | 60  | 72  | 83  | 95  | 119 | 143 | 167 | 191 | 215 | 239  |
| 18                 | 21  | 32  | 42  | 53  | 64  | 74  | 85  | 106 | 127 | 148 | 170 | 191 | 212  |
| 20                 | 19  | 29  | 38  | 48  | 57  | 67  | 76  | 95  | 115 | 134 | 153 | 172 | 191  |
| 24                 | 16  | 24  | 32  | 40  | 48  | 56  | 64  | 80  | 95  | 111 | 127 | 143 | 159  |
| 30                 | 13  | 19  | 25  | 32  | 38  | 45  | 51  | 64  | 76  | 89  | 102 | 115 | 127  |
| 36                 | 11  | 16  | 21  | 27  | 32  | 37  | 42  | 53  | 64  | 74  | 85  | 95  | 106  |
| 42                 | 9   | 14  | 18  | 23  | 27  | 32  | 36  | 45  | 55  | 64  | 73  | 82  | 91   |
| 48                 | 8   | 12  | 16  | 20  | 24  | 28  | 32  | 40  | 48  | 56  | 64  | 72  | 80   |
| 54                 | 7   | 11  | 14  | 18  | 21  | 25  | 28  | 35  | 42  | 49  | 57  | 64  | 71   |
| 60                 | 6   | 10  | 13  | 16  | 19  | 22  | 25  | 32  | 38  | 45  | 51  | 57  | 64   |

\* Maximum RPM values shown are based on 6,500 feet per minute for standard cast iron products. For higher rim speeds, contact Dodge Technical Support at 1-864-284-5700  
For values not shown use formula below:

$$\text{Max RPM} = \frac{6,500}{2618 \times D}$$

D = Pulley Diameter, Inches





# ENGINEERING

**Table 16: Material Characteristics**

| MATERIAL                   | DENSITY (LB/FT <sup>3</sup> ) | ANGLE OF REPOSE (DEG) | RECOMMENDED MAXIMUM INCLINATION | MATERIAL                       | DENSITY (LB/FT <sup>3</sup> ) | ANGLE OF REPOSE (DEG) | RECOMMENDED MAXIMUM INCLINATION |
|----------------------------|-------------------------------|-----------------------|---------------------------------|--------------------------------|-------------------------------|-----------------------|---------------------------------|
| Alfalfa, Ground            | 16                            | 45°                   |                                 | Corn, Shelled                  | 45                            | 25°                   | 10                              |
| Alum, Lumpy                | 50 - 60                       | 35°                   |                                 | Corn Sugar                     | 30                            | 35°                   |                                 |
| Alum, Pulverized           | 45 - 50                       | 35°                   |                                 | Corn Grits                     | 40 - 45                       | 35°                   |                                 |
| Alumina                    | 60                            | 30°                   | 10-12                           | Cornmeal                       | 32- 40                        | 35°                   | 22                              |
| Aluminum Oxide             | 70 - 120                      | 30°                   |                                 | Cottonseed, Dry, De-Linted     | 35                            | 35°                   | 16                              |
| Ammonium Sulphate          | 45 - 60                       | 45°                   |                                 | Cottonseed, Dry, Not De-Linted | 18- 25                        | 45°                   | 19                              |
| Asbestos, Shredded         | 20 - 25                       | 45°                   |                                 | Cottonseed, Cake, Lumpy        | 40- 45                        | 35°                   |                                 |
| Ashes, Dry                 | 35 - 40                       | 45°                   |                                 | Cottonseed, Hulls              | 12                            | 45°                   |                                 |
| Ashes, Wet                 | 45 - 50                       | 45°                   |                                 | Cottonseed, Meal               | 35- 40                        | 35°                   | 22                              |
| Ashes, Soft Coal           | 35 - 45                       | 40°                   |                                 | Cottonseed, Meats              | 40                            | 35°                   |                                 |
| Asphalt, Crushed           | 45                            | 35°                   |                                 | Cryolite                       | 90-110                        | 35°                   |                                 |
| Bagasse                    | 7.50                          | 45°                   |                                 | Cullet                         | 80-120                        | 35°                   | 20                              |
| Bakelite, Powder           | 30 - 40                       | 45°                   |                                 | Diatomaceous Earth             | 11- 14                        | 35°                   |                                 |
| Baking Powder              | 40 - 50                       | 35°                   |                                 | Dolomite, Lumpy                | 90-100                        | 35°                   | 22                              |
| Bark, Wood Refuse          | 10 - 20                       | 45°                   | 27                              | Dolomite, Pulverized           | 46                            | 40°                   |                                 |
| Barley                     | 38                            | 25°                   | 10-15                           | Earth, Dry"                    | 70- 80                        | 35°                   | 20                              |
| Basalt                     | 80 - 120                      | 25°                   |                                 | Earth, Moist                   | 75-110                        | 40°                   | 23                              |
| Bauxite, Crushed           | 75 - 85                       | 35°                   | 20                              | Earth, Fullers Dry             | 30- 35                        | 23°                   | 20                              |
| Beans, Castor, Whole       | 30 - 45                       | 25°                   | 8-10                            | Emery                          | 225                           | 25°                   |                                 |
| Beans, Cocoa               | 30 - 45                       | 35°                   |                                 | Epsom Salt                     | 40- 50                        | 35°                   |                                 |
| Beans, Navy                | 50                            | 25°                   |                                 | Feldspar, Lumps                | 70-100                        | 35°                   | 17                              |
| Beans, Whole               | 45                            | 45°                   |                                 | Feldspar, Dust                 | 80-100                        | 40°                   |                                 |
| Bentonite, Crude           | 35 - 40                       | 45°                   |                                 | Fish, Meal                     | 35- 40                        | 40°                   |                                 |
| Bentonite, Fine            | 50 - 60                       | 45°                   |                                 | Fish, Scrap                    | 40- 50                        | 0°                    |                                 |
| Bones, Pulverized          | 50 - 60                       | 45°                   |                                 | Flaxseed, Whole                | 45                            | 25°                   | 12                              |
| Borax, Fine                | 50 - 55                       | 35°                   |                                 | Flaxseed, Meal                 | 25                            | 35°                   |                                 |
| Borax Coarse               | 60 - 70                       | 35°                   |                                 | Flour, Wheat                   | 35- 40                        | 45°                   | 21                              |
| Bran                       | 16                            | 35°                   |                                 | Flue Dust, Dry                 | 30- 40                        | 20°                   |                                 |
| Brewers Grain, Dry         | 25 - 35                       | 45°                   |                                 | Fluorspar, Dust                | 85- 95                        | 45°                   |                                 |
| Brewers Grain, Wet         | 55 - 60                       | 45°                   |                                 | Fluorspar, Lumps               | 80-110                        | 45°                   |                                 |
| Buck Wheat                 | 40                            | 25°                   | 11-13                           | Foundry, Refuse                | 60- 80                        | 35°                   |                                 |
| Calcium, Carbide           | 70 - 80                       | 35°                   |                                 | Foundry Sand, Loose            | 80- 90                        | 35°                   |                                 |
| Carbon Black, Pellets      | 25                            | 25°                   |                                 | Foundry Sand, Rammed           | 100-110                       | 0°                    |                                 |
| Carbon Black, Powder       | 5                             | 35°                   |                                 | Galena                         | 250                           | 35°                   |                                 |
| Cast Iron Chips            | 100 -120                      | 45°                   |                                 | Garbage, Average               | 30                            | 25°                   |                                 |
| Cement, Clinker            | 75 - 90                       | 35°                   |                                 | Glass, Batch Fiber             | 45 - 55                       | 10°                   |                                 |
| Cement, Portland           | 80 -100                       | 35°                   | 20-23                           | Glass, Batch Wool              | 80-100                        | 35°                   | 20-22                           |
| Chalk, Fine                | 65 - 75                       | 45°                   |                                 | Glass, Broken                  | 80-100                        | 10°                   |                                 |
| Chalk, Lumpy               | 80 - 95                       | 45°                   |                                 | Glue, Animal, Flaked           | 35                            | 25°                   |                                 |
| Charcoal, Wood             | 15 - 30                       | 35°                   | 20-25                           | Glue, Vegetable, Powdered      | 40                            | 35°                   |                                 |
| Chromium Ore               | 125 - 140                     | 35°                   |                                 | Gluten, Meal                   | 39                            | 35°                   |                                 |
| Cinders, Coal              | 40                            | 35°                   | 20                              | Granite, Lumps                 | 150 -170                      | 25°                   |                                 |
| Clay, Dry, Fine            | 100 - 120                     | 35°                   | 20-22                           | Graphite, Flakes               | 40                            | 35°                   |                                 |
| Clay, Dry, Lumpy           | 60 - 75                       | 35°                   | 18-20                           | Graphite, Powder               | 30                            | 25°                   |                                 |
| Coal, Anthracite, Coarse   | 60 - 70                       | 35°                   | 18                              | Graphite, Ore                  | 65 - 75                       | 35°                   |                                 |
| Coal, Anthracite, Loose    | 50 - 60                       | 30°                   | 16                              | Grass Seed                     | 10                            | 35°                   |                                 |
| Coal, Bituminous, Coarse   | 50 - 60                       | 35°                   | 18                              | Gravel, Dry                    | 90-100                        | 35°                   | 15-17                           |
| Coal, Bituminous, Loose    | 45 - 50                       | 35°                   | 16                              | Gravel, Wet                    | 100-120                       | 35°                   |                                 |
| Cocoa Nibs                 | 35 - 40                       | 35°                   |                                 | Gypsum, Lumps                  | 90-100                        | 35°                   | 15                              |
| Coconut, Shredded          | 20 - 25                       | 45°                   |                                 | Gypsum, Ground                 | 75- 80                        | 35°                   | 21                              |
| Coffee, Fresh Beans        | 30 - 40                       | 35°                   | 10-15                           | Hay, Loose                     | 5                             | 0°                    |                                 |
| Coffee, Roasted Beans      | 22 - 30                       | 25°                   |                                 | Hay, Pressed                   | 25                            | 0°                    |                                 |
| Coke, Loose                | 23 - 32                       | 35°                   | 18                              | Hominy                         | 35- 50                        | 35°                   |                                 |
| Coke Pulverized            | 25 - 35                       | 45°                   | 20-22                           | Hops, Spent, Dry               | 25- 35                        | 45°                   |                                 |
| Coke, Petroleum Calcinated | 35 - 45                       | 35°                   | 20                              | Hops, Spent, Wet               | 55- 60                        | 45°                   |                                 |
| Concrete, Cinder           | 112                           | 0°                    | 12-30                           | Ice, Crushed                   | 35- 40                        | 20-                   |                                 |
| Concrete, Gravel & Sand    | 150                           | 0°                    |                                 | Ilmenite Ore                   | 140-160                       | 35°                   |                                 |
| Copper Ore                 | 120 - 150                     | 35°                   | 20                              | Iron Ore                       | 120-180                       | 35°                   | 18-20                           |
| Copper Sulfate             | 75 - 85                       | 30°                   | 17                              | Iron Ore, Pellets              | 120-140                       | 35°                   | 13-15                           |
| Cork, Ground               | 5 - 15                        | 45°                   |                                 | Iron Sulphate                  | 50- 75                        | 35°                   |                                 |
| Corn, On Cob               | 45                            | 0°                    |                                 | Iron Sulfide                   | 120-140                       | 35°                   |                                 |

**Table 16: Material Characteristics (Continued)**

| MATERIAL                  | DENSITY (LB/FT3) | ANGLE OF REPOSE (DEG) | RECOMMENDED MAXIMUM INCLINATION | MATERIAL                | DENSITY (LB/FT3) | ANGLE OF REPOSE (DEG) | RECOMMENDED MAXIMUM INCLINATION |
|---------------------------|------------------|-----------------------|---------------------------------|-------------------------|------------------|-----------------------|---------------------------------|
| Kaolin, Clay              | 60               | 35°                   | 19                              | Rubber, Pellets         | 50 - 55          | 35°                   | 22                              |
| Lactose                   | 30               | 35°                   |                                 | Rubber, Ground Scrap    | 25 - 35          | 45°                   | 18                              |
| Lead Ore, Crushed         | 180 - 270        | 30°                   |                                 | Rye                     | 42 - 45          | 25°                   | 8                               |
| Lead Oxides               | 60 - 150         | 40°                   |                                 | Rye Meal                | 35 - 40          | 20°                   |                                 |
| Lead Sulfate              | 170 - 190        | 45°                   |                                 | Salt Cake               | 80 - 95          | 30°                   | 21                              |
| Lead Sulfide              | 240 - 260        | 35°                   |                                 | Salt, Coarse"           | 45 - 55          | 35°                   | 18-22                           |
| Lignite, Air Dried        | 45 - 55          | 35°                   |                                 | Salt, Fine"             | 70 - 80          | 35°                   | 11                              |
| Lime, Ground              | 60 - 65          | 40°                   | 23                              | Sand, Wet               | 110 - 130        | 45°                   | 20-22                           |
| Lime, Hydrated            | 40               | 40°                   | 21                              | Sand, Dry               | 90 - 110         | 35°                   | 16-18                           |
| Lime, Pebble              | 30 - 40          | 40°                   | 17                              | Sand, Loose, Foundry    | 80 - 100         | 35°                   | 22                              |
| Limestone, Loose          | 80 - 100         | 35°                   | 20                              | Sand, Foundry, Rammed   | 100 - 110        | 0°                    | 24                              |
| Limestone, Pulverized     | 85 - 90          | 45°                   | 18                              | Sandstone               | 80 - 90          | 35°                   |                                 |
| Linseed, Whole            | 45 - 50          | 25°                   |                                 | Sawdust                 | 10 - 25          | 30°                   | 22                              |
| Linseed, Meal             | 30 - 40          | 35°                   | 20                              | Scale, Rolling Mill     | 125 - 160        | 45°                   |                                 |
| Magnesium Chloride        | 30 - 35          | 40°                   |                                 | Sewage Sludge, Dry      | 45 - 55          | 35°                   |                                 |
| Magnesium Sulfate         | 40 - 60          | 35°                   |                                 | Sewage Sludge, Wet      | 50 - 60          | 35°                   |                                 |
| Malt, Dry                 | 25 - 30          | 30°                   |                                 | Shale, Broken           | 90 - 100         | 25°                   |                                 |
| Malt, Wet                 | 60 - 65          | 45°                   |                                 | Shale, Crushed          | 85 - 90          | 40°                   | 22                              |
| Malt, Meal                | 35 - 40          | 35°                   |                                 | Silica Gel, Dry         | 45               | 35°                   |                                 |
| Manganese Ore             | 125 - 140        | 40°                   |                                 | Slag, Blast Furnace     | 80 - 90          | 25°                   | 10                              |
| Manganese Oxide           | 120              | 35°                   |                                 | Slag, Granular, Dry     | 60 - 65          | 25°                   | 13-16                           |
| Manganese Sulfate         | 70               | 35°                   |                                 | Slag, Granular, Wet     | 90 - 100         | 45°                   | 20-22                           |
| Manure                    | 25               | 0°                    |                                 | Slate, Ground           | 80 - 90          | 30°                   | 15                              |
| Marble, Crushed           | 80 - 95          | 35°                   |                                 | Slate, Lumps            | 85 - 95          | 0°                    |                                 |
| Marl                      | 80               | 35°                   |                                 | Snow, Compacted         | 15 - 50          | 0°                    |                                 |
| Mica, Flakes              | 20               | 20°                   |                                 | Soap                    | 10 - 25          | 35°                   |                                 |
| Mica, Ground              | 15               | 35°                   | 23                              | Soda Ash, Briquettes    | 50               | 20°                   | 7                               |
| Milk, Dried, Flaked       | 5                | 35°                   |                                 | Soda Ash, Heavy         | 55 - 65          | 30°                   | 19                              |
| Milk, Malted              | 25 - 35          | 45°                   |                                 | Soda Ash, Light         | 20 - 35          | 35°                   | 22                              |
| Milk, Powdered            | 20 - 30          | 40°                   |                                 | Sodium Aluminum, Ground | 72               | 35°                   |                                 |
| Milo Maize                | 55 - 60          | 35°                   |                                 | Sodium Nitrate, Ground  | 70 - 80          | 24°                   | 11                              |
| Molybdenum Ore            | 100 - 110        | 40°                   |                                 | Sodium Phosphate        | 50 - 65          | 35°                   |                                 |
| Mortar, Wet               | 150              | 0°                    |                                 | Soybeans, Cracked       | 30 - 40          | 35°                   | 15-18                           |
| Niacin                    | 35               | 35°                   |                                 | Soybeans, Whole"        | 45 - 50          | 25°                   | 12-16                           |
| Nickel-Cobalt Sulfate Ore | 80 - 150         | 35°                   |                                 | Starch, Powdered        | 25 - 45          | 25°                   | 12                              |
| Oats                      | 25 - 35          | 25°                   | 10                              | Steel, Chips            | 100 - 150        | 35°                   | 18                              |
| Oats, Rolled              | 20               | 35°                   |                                 | Steel, Turnings         | 60 - 120         | 45°                   |                                 |
| Oil Cake                  | 50               | 45°                   |                                 | Sugar, Cane, Raw        | 55 - 65          | 45°                   |                                 |
| Oxalic Acid Crystals      | 60               | 35°                   |                                 | Sugar, Granulated, Dry  | 50 - 55          | 35°                   |                                 |
| Oyster Shells, Ground     | 50 - 60          | 35°                   |                                 | Sugar, Granulated, Wet  | 55 - 65          | 40°                   |                                 |
| Oyster Shells, Whole      | 80               | 35°                   |                                 | Sugar Cane, Knifed      | 15 - 18          | 45°                   |                                 |
| Paper Pulp Stock          | 40 - 60          | 20°                   |                                 | Sulphur, Lumps          | 80 - 85          | 35°                   |                                 |
| Peanuts, Shelled          | 35 - 45          | 35°                   |                                 | Sulphur, Dust           | 50 - 70          | 35°                   |                                 |
| Peanuts, Not Shelled      | 15 - 20          | 35°                   |                                 | Saonite, Pellets        | 120 - 140        | 35°                   | 13-15                           |
| Peas, Dried               | 45 - 50          | 0°                    |                                 | Salc, Granulated        | 50 - 70          | 20°                   |                                 |
| Phosphate, Fertilizer     | 50 - 60          | 35°                   | 30                              | Titanium Dioxide        | 140              | 35°                   |                                 |
| Phosphate, Rock, Crushed  | 60 - 100         | 35°                   | 25                              | Titanium Sponge         | 60 - 70          | 45°                   |                                 |
| Potash                    | 70 - 80          | 30°                   |                                 | Tobacco, Leaves         | 14               | 45°                   |                                 |
| Potassium Chloride        | 120 - 130        | 35°                   |                                 | Tobacco, Scraps         | 15 - 25          | 45°                   |                                 |
| Potassium Nitrate         | 75 - 80          | 25°                   |                                 | Tobacco, Stems          | 15               | 45°                   |                                 |
| Potassium Sulfate         | 45               | 45°                   |                                 | Traprock, Crushed       | 95 - 110         | 35°                   |                                 |
| Potatoes, White"          | 48               | 0°                    |                                 | Traprock, Lumps         | 100 - 110        | 35°                   |                                 |
| Pumice, Ground            | 40 - 45          | 45°                   |                                 | Turf                    | 20 - 30          | 0°                    |                                 |
| Pyrites, Lumps            | 135 - 145        | 25°                   |                                 | Walnut, Shells          | 35 - 45          | 35°                   |                                 |
| Pyrites, Pellets          | 120 - 130        | 35°                   |                                 | Wheat                   | 48               | 25°                   | 12                              |
| Quartz, Lumps             | 95 - 100         | 25°                   |                                 | Wheat, Cracked          | 40 - 45          | 35°                   |                                 |
| Quartz, Sand              | 70 - 80          | 25°                   |                                 | Wheat Germ, Dry         | 20 - 30          | 25°                   | 27                              |
| Rice, Hulled              | 45 - 50          | 20°                   | 8                               | Wood Chips              | 10 - 30          | 45°                   | 22                              |
| Rice, Rough               | 35               | 35°                   |                                 | Zinc Ore, Granular      | 160              | 35°                   |                                 |
| Rice, Grits               | 40 - 45          | 35°                   |                                 | Zinc Oxide              | 10 - 35          | 45°                   |                                 |
| Rock, Crushed             | 100 - 150        | 30°                   |                                 |                         |                  |                       |                                 |



# ENGINEERING

## Shafting

**Table 17: Typical Commercial Shaft Tolerances**

| Shaft Size           | Plus | Minus |
|----------------------|------|-------|
| Up to 1-1/2"         | .000 | .002  |
| Over 1-1/2 to 2-1/2" | .000 | .003  |
| Over 2-1/2 to 4"     | .000 | .004  |
| Over 4 to 6"         | .000 | .005  |
| Over 6 to 8"         | .000 | .006  |
| Over 8 to 9"         | .000 | .007  |
| Over 9"              | .000 | .008  |

**Table 18: Shaft Tolerances**

| Shaft Size   | Tolerance, Inches |
|--------------|-------------------|
| Up to 1-1/2" | +.0000 -.0005"    |
| 1-5/8 to 4"  | +.000 -.001"      |
| 4-7/16 to 6" | +.000 -.0015"     |
| 6-7/16 to 8" | +.000 -.002"      |

Table 18 lists the recommended tolerances for all setscrew locking, eccentric locking and D-LOK locking ball and roller bearings

**Table 19: Shaft Tolerances**

| Shaft Size        | Tolerance, Inches |
|-------------------|-------------------|
| Up to 1-1/2"      | +.000 -.002"      |
| 1-9/16 to 2-1/2"  | +.000 -.003"      |
| 2-5/8 to 4"       | +.000 -.004"      |
| 4-3/16 to 6"      | +.000 -.005"      |
| 6-7/16" and above | +.000 -.006"      |

Table 19 list the recommended tolerances for all tapered adapter sleeve ball and roller bearings

**Standard Shafting** – Table 17 indicates standard shafting is cold drawn in the smaller sizes and turned and polished in the larger diameters. It has a smooth surface, is commercially straight and is readily machinable; suitable and recommended for general power transmission and material handling service.

**Special Shafting** – While standard shafting is suitable for most installations, special shafting is sometimes required for certain chemical, temperature or physical requirements. Such materials as high carbon steel, alloy steel, stainless steel, brass, Monel metal, etc., can be furnished plain or heat treated. Stepped, flanged, hollow or other special forms are available.

Special shafting should be avoided in favor of standard shafting wherever possible because special shafting is usually considerably more expensive and requires a greater length of time to obtain, which is an especially important consideration should quick replacement ever become necessary.

**Ordering Shafting** – Standard shafting can be obtained from most supply houses and dealers who handle power transmission material.

**Turning Down Shaft Ends** – When necessary to turn down shaft ends, use as large a fillet as possible to keep the stress concentration to a minimum. The radius of this fillet should preferably be not less than the difference in the two diameters joined by the fillet. The fillet should be finished and polished as smoothly as possible to avoid scratches which might start cracks and lead to failure of the shaft by fatigue.

## Selection of Shaft Diameters

Tables 21 - 24 inclusive can be used to find approximate shaft diameter for various service conditions For greater accuracy use chart under heading "Combined Torsion and Bending of Standard Shafts" (PT15-18).

Tables and chart are based upon a safe shear stress of 6,000 pounds per square inch for standard keyseated shafting. Be generous in the selection of shaft diameters as liberal diameters not only reduce deflection and vibration but also generally increase bearing life.

When necessary to use other than standard shafting, find the required diameter for standard shafting as outlined above and multiply by proper factor shown in Table 25, under heading "Factors for Shafting Other than Standard Shafting," on page PT15-17.

**Table 20: No Bending Moment (Shafts without pulleys, sprockets or gears - Torsion only)**

| Shaft Size | Horse Power at Various Revolutions per Minute |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            | 25  | 50    | 75    | 100   | 125   | 150   | 175   | 200   | 225   | 250   | 275   | 300   | 350   | 400   | 500   | 600   | 700   | 800   | 900   |
| 15/16      | 0.30  | 0.70  | 1.10  | 1.50  | 1.90  | 2.30  | 2.60  | 3     | 3.40  | 3.80  | 4.20  | 4.60  | 5.30  | 6.10  | 7.70  | 9.20  | 10.70 | 12.30 | 13.80 |
| 1-3/16     | 0.70  | 1.50  | 2.30  | 3.10  | 3.90  | 4.60  | 5.40  | 6.20  | 7     | 7.80  | 8.60  | 9.30  | 10.90 | 12.50 | 15.60 | 18.70 | 21.90 | 25    | 28.10 |
| 1-7/16     | 1.30  | 2.70  | 4.10  | 5.50  | 6.90  | 8.30  | 9.70  | 11.10 | 12.40 | 13.80 | 15.20 | 16.60 | 19.40 | 22.20 | 27.70 | 33.30 | 38.80 | 44.40 | 49.90 |
| 1-11/16    | 2.20  | 4.40  | 6.60  | 8.90  | 11.20 | 13.40 | 15.70 | 17.90 | 20.20 | 22.40 | 24.70 | 26.90 | 31.40 | 35.90 | 44.90 | 53.80 | 62.80 | 71.80 | 80.80 |
| 1-15/16    | 3.30  | 6.70  | 10.10 | 13.50 | 16.90 | 20.30 | 23.70 | 27.10 | 30.50 | 33.90 | 37.30 | 40.70 | 47.50 | 54.30 | 67.90 | 81.50 | 95.10 | 108   | 122   |
| 2-3/16     | 4.90  | 9.80  | 14.60 | 19.50 | 24.40 | 29.30 | 34.20 | 39.10 | 44    | 48.90 | 53.80 | 58.60 | 68.40 | 78.20 | 97.80 | 117   | 136   | 156   | 176   |
| 2-7/16     | 6.70  | 13.50 | 20.20 | 27    | 33.80 | 40.60 | 47.30 | 54.10 | 60.90 | 67.60 | 74.40 | 81.20 | 94.70 | 108   | 135   | 162   | 189   | 216   | 243   |
| 2-11/16    | 9   | 18.10 | 27.10 | 36.20 | 45.30 | 54.40 | 63.40 | 72.50 | 81.60 | 90.70 | 99.70 | 108   | 126   | 145   | 181   | 217   | 253   | 290   | 326   |
| 2-15/16    | 11.80   | 23.60 | 35.40 | 47.30 | 59.20 | 71    | 82.90 | 94.70 | 106   | 118   | 130   | 142   | 165   | 189   | 236   | 284   | 331   | 379   | 426   |
| 3-7/16     | 19  | 37.90 | 57    | 75.90 | 94.90 | 113   | 132   | 151   | 170   | 189   | 208   | 227   | 265   | 303   | 379   | 455   | 531   | 607   | 683   |
| 3-15/16    | 28.50   | 57    | 85.50 | 114   | 142   | 171   | 199   | 228   | 256   | 285   | 313   | 342   | 399   | 456   | 570   | 684   | 798   | 912   | 1026  |
| 4-7/16     | 40.80   | 81.60 | 122   | 163   | 204   | 245   | 286   | 327   | 367   | 408   | 449   | 490   | 572   | 653   | 816   | 980   | 1143  | 1306  | 1470  |

**Table 21: Limited Bending Moment (Pulleys, sprockets or gears near bearings. Ordinary line shafts.)**

| Shaft Size | Horse Power at Various Revolutions per Minute |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            | 25  | 50    | 75    | 100   | 125   | 150   | 175   | 200   | 225   | 250   | 275   | 300   | 350   | 400   | 500   | 600   | 700   | 800   | 900   |
| 15/16      | 0.20  | 0.50  | 0.70  | 1     | 1.20  | 1.50  | 1.70  | 2     | 2.30  | 2.50  | 2.80  | 3     | 3.50  | 4.10  | 5.10  | 6.10  | 7.10  | 8.20  | 9.20  |
| 1-3/16     | 0.50  | 1     | 1.50  | 2     | 2.60  | 3.10  | 3.60  | 4.10  | 4.70  | 5.20  | 5.70  | 6.20  | 7.30  | 8.30  | 10.40 | 12.50 | 14.60 | 16.70 | 18.80 |
| 1-7/16     | 0.90  | 1.80  | 2.70  | 3.70  | 4.60  | 5.50  | 6.40  | 7.40  | 8.30  | 9.20  | 10.10 | 11.10 | 12.90 | 14.80 | 18.50 | 22.20 | 25.90 | 29.60 | 33.30 |
| 1-11/16    | 1.40  | 2.90  | 4.30  | 5.90  | 7.40  | 8.90  | 10.40 | 11.90 | 13.40 | 14.90 | 16.40 | 17.90 | 20.90 | 23.90 | 29.90 | 35.90 | 41.90 | 47.90 | 53.90 |
| 1-15/16    | 2.20  | 4.50  | 6.70  | 9     | 11.30 | 13.60 | 15.80 | 18.10 | 20.40 | 22.60 | 24.90 | 27.20 | 31.70 | 36.20 | 45.30 | 54.40 | 63.40 | 72.50 | 81.60 |
| 2-3/16     | 3.20  | 6.50  | 9.70  | 13    | 16.30 | 19.50 | 22.80 | 26.10 | 29.30 | 32.60 | 35.80 | 39.10 | 45.60 | 52.20 | 65.20 | 78.30 | 91.30 | 104   | 117   |
| 2-7/16     | 4.50  | 9     | 13.50 | 18    | 22.50 | 27    | 31.60 | 36.10 | 40.60 | 45.10 | 49.60 | 54.10 | 63.20 | 72.20 | 90.20 | 108   | 126   | 144   | 162   |
| 2-11/16    | 6   | 12.10 | 18.10 | 24.20 | 30.20 | 36.30 | 42.30 | 48.40 | 54.40 | 60.50 | 66.50 | 72.60 | 84.70 | 96.80 | 121   | 145   | 169   | 193   | 217   |
| 2-15/16    | 7.90  | 15.80 | 23.70 | 31.60 | 39.50 | 47.40 | 55.30 | 63.20 | 71.10 | 79    | 86.90 | 94.80 | 110   | 126   | 158   | 189   | 221   | 252   | 284   |
| 3-7/16     | 12.60   | 25.30 | 37.90 | 50.60 | 63.30 | 75.90 | 88.60 | 101   | 113   | 126   | 139   | 151   | 177   | 202   | 253   | 303   | 354   | 405   | 455   |
| 3-15/16    | 19  | 38    | 57    | 76.10 | 94.10 | 114   | 133   | 152   | 171   | 190   | 209   | 228   | 266   | 304   | 380   | 456   | 532   | 608   | 685   |
| 4-7/16     | 27  | 54    | 81    | 108   | 136   | 163   | 190   | 217   | 245   | 272   | 299   | 326   | 381   | 435   | 544   | 653   | 762   | 871   | 980   |
| 4-15/16    | 37  | 75    | 112   | 150   | 187   | 225   | 262   | 300   | 337   | 375   | 412   | 450   | 525   | 600   | 750   | 900   | 1050  | 1200  | 1350  |
| 5-7/16     | 50  | 100   | 150   | 200   | 250   | 300   | 350   | 400   | 451   | 501   | 551   | 601   | 701   | 801   | 1002  | 1202  | 1403  | 1603  | 1804  |
| 5-15/16    | 65  | 130   | 195   | 261   | 326   | 391   | 456   | 522   | 587   | 652   | 717   | 783   | 913   | 1044  | 1305  | 1566  | 1827  | 2088  | 2349  |
| 6-1/2      | 85  | 171   | 256   | 342   | 427   | 513   | 598   | 684   | 769   | 855   | 940   | 1026  | 1197  | 1368  | 1710  | 2052  | 2394  | 2736  | 3078  |

## Selection of Shaft Diameters (Cont'd)

**Table 22: Heavy Bending Moment. (Use for main or important shafts.)**

| Shaft Size | Horse Power at Various Revolutions per Minute |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            | 25  | 50    | 75    | 100   | 125   | 150   | 175   | 200   | 225   | 250   | 275   | 300   | 350   | 400   | 500   | 600   | 700   | 800   | 900   |
| 1-11/16    | 0.80  | 1.70  | 2.50  | 3.50  | 4.40  | 5.30  | 6.20  | 7.10  | 8     | 8.90  | 9.80  | 10.70 | 12.50 | 14.30 | 17.90 | 21.50 | 25.10 | 28.70 | 32.30 |
| 1-15/16    | 1.30  | 2.70  | 4     | 5.40  | 6.70  | 8.10  | 9.50  | 10.80 | 12.20 | 13.50 | 14.90 | 16.30 | 19    | 21.70 | 27.10 | 32.60 | 38    | 43.50 | 48.90 |
| 2-3/16     | 1.90  | 3.90  | 5.80  | 7.80  | 9.70  | 11.70 | 13.70 | 15.60 | 17.60 | 19.50 | 21.50 | 23.40 | 27.40 | 31.30 | 39.10 | 46.90 | 54.80 | 62.60 | 70.40 |
| 2-7/16     | 2.70  | 5.40  | 8.10  | 10.80 | 13.50 | 16.20 | 18.90 | 21.60 | 24.30 | 27    | 29.70 | 32.40 | 37.90 | 43.30 | 54.10 | 64.90 | 75.80 | 86.60 | 97.40 |
| 2-11/16    | 3.60  | 7.20  | 10.80 | 14.50 | 18.10 | 21.70 | 25.40 | 29    | 32.60 | 36.20 | 39.90 | 43.50 | 50.80 | 58    | 72.50 | 87.10 | 101   | 116   | 130   |
| 2-15/16    | 4.70  | 9.40  | 14.10 | 18.90 | 23.60 | 28.40 | 33.10 | 37.90 | 42.60 | 47.30 | 52.10 | 56.80 | 66.30 | 75.80 | 94.70 | 113   | 132   | 151   | 170   |
| 3-7/16     | 7.50  | 15.10 | 22.60 | 30.30 | 37.90 | 45.50 | 53.10 | 60.70 | 68.30 | 75.90 | 83.50 | 91.10 | 106   | 121   | 151   | 182   | 212   | 243   | 273   |
| 3-15/16    | 11.40   | 22.80 | 34.20 | 45.60 | 57    | 68.40 | 79.90 | 91.30 | 102   | 114   | 125   | 136   | 159   | 182   | 228   | 273   | 319   | 365   | 410   |
| 4-7/16     | 16.30   | 32.60 | 48.90 | 65.30 | 81.60 | 98    | 114   | 130   | 147   | 163   | 179   | 196   | 228   | 261   | 326   | 392   | 457   | 522   | 588   |
| 4-15/16    | 22.50   | 45    | 67.50 | 90    | 112   | 135   | 157   | 180   | 202   | 225   | 247   | 270   | 315   | 360   | 450   | 540   | 630   | 720   | 810   |
| 5-7/16     | 30  | 60    | 90    | 120   | 150   | 180   | 210   | 240   | 270   | 300   | 330   | 360   | 420   | 480   | 601   | 721   | 841   | 961   | 1082  |
| 5-15/16    | 39  | 78    | 117   | 156   | 195   | 234   | 273   | 313   | 352   | 391   | 430   | 469   | 547   | 626   | 782   | 939   | 1095  | 1252  | 1409  |
| 6-1/2      | 51  | 102   | 153   | 205   | 256   | 308   | 359   | 410   | 462   | 513   | 564   | 616   | 718   | 821   | 1027  | 1232  | 1437  | 1643  | 1848  |
| 7          | 64  | 128   | 192   | 256   | 320   | 384   | 448   | 513   | 577   | 641   | 705   | 769   | 897   | 1026  | 1282  | 1539  | 1795  | 2052  | 2308  |
| 7-1/2      | 78.50   | 157   | 235   | 315   | 394   | 473   | 552   | 631   | 709   | 788   | 867   | 946   | 1104  | 1262  | 1577  | 1893  | 2208  | 2524  | 2839  |
| 8          | 95.50   | 191   | 286   | 382   | 478   | 574   | 670   | 765   | 861   | 957   | 1053  | 1148  | 1340  | 1531  | 1914  | 2297  | 2680  | 3063  | 3446  |
| 8-1/2      | 114   | 229   | 343   | 459   | 574   | 688   | 803   | 918   | 1033  | 1148  | 1263  | 1377  | 1607  | 1837  | 2296  | 2755  | 3215  | 3674  | 4133  |
| 9          | 136   | 272   | 408   | 545   | 681   | 817   | 954   | 1090  | 1226  | 1363  | 1499  | 1635  | 1908  | 2181  | 2726  | 3271  | 3816  | 4362  | 4907  |
| 9-1/2      | 160   | 320   | 480   | 641   | 801   | 961   | 1122  | 1282  | 1442  | 1603  | 1763  | 1923  | 2244  | 2565  | 3206  | 3847  | 4488  | 5130  | 5771  |
| 10         | 186   | 373   | 559   | 747   | 934   | 1121  | 1308  | 1495  | 1682  | 1869  | 2056  | 2243  | 2617  | 2991  | 3739  | 4487  | 5235  | 5983  | 6731  |

**Table 23: Severe Conditions (Heavy shock loads. Excessively tight belts, long clutch sleeves.)**

| Shaft Size | Horse Power at Various Revolutions per Minute |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            | 25  | 50    | 75    | 100   | 125   | 150   | 175   | 200   | 225   | 250   | 275   | 300   | 350   | 400   | 500   | 600   | 700   | 800   | 900   |
| 1-11/16    | 0.4   | 0.8   | 1.2   | 1.7   | 2.2   | 2.6   | 3.1   | 3.5   | 4     | 4.4   | 4.9   | 5.3   | 6.2   | 7.1   | 8.9   | 10.7  | 12.5  | 14.3  | 16.10 |
| 1-15/16    | 0.6   | 1.3   | 2     | 2.7   | 3.3   | 4     | 4.7   | 5.4   | 6.1   | 6.7   | 7.4   | 8.1   | 9.5   | 10.8  | 13.5  | 16.3  | 19    | 21.7  | 24.40 |
| 2-3/16     | 0.90  | 1.90  | 2.90  | 3.90  | 4.80  | 5.80  | 6.80  | 7.80  | 8.80  | 9.70  | 10.70 | 11.70 | 13.70 | 15.60 | 19.50 | 23.40 | 27.40 | 31.30 | 35.20 |
| 2-7/16     | 1.30  | 2.70  | 4     | 5.40  | 6.70  | 8.10  | 9.40  | 10.80 | 12.10 | 13.50 | 14.80 | 16.20 | 18.90 | 21.60 | 27    | 32.40 | 37.90 | 43.30 | 48.70 |
| 2-11/16    | 1.80  | 3.60  | 5.40  | 7.20  | 9     | 10.80 | 12.70 | 14.50 | 16.30 | 18.10 | 19.90 | 21.70 | 25.40 | 29    | 36.20 | 43.50 | 50.50 | 58    | 65    |
| 2-15/16    | 2.30  | 4.70  | 7     | 9.40  | 11.80 | 14.20 | 16.50 | 18.90 | 21.30 | 23.60 | 26    | 28.40 | 33.10 | 37.90 | 47.30 | 56.50 | 66    | 75.50 | 85    |
| 3-7/16     | 3.70  | 7.50  | 11.30 | 15.1  | 18.90 | 22.70 | 26.50 | 30.30 | 34.10 | 37.90 | 41.70 | 45.50 | 53    | 60.50 | 75.50 | 91    | 106   | 121   | 136   |
| 3-15/16    | 5.70  | 11.40 | 17.10 | 22.8  | 28.50 | 34.20 | 39.90 | 45.60 | 51    | 57    | 62.50 | 68    | 79.50 | 91    | 114   | 136   | 159   | 182   | 205   |
| 4-7/16     | 8.10  | 16.30 | 24.40 | 32.6  | 40.80 | 49    | 57    | 65    | 73.50 | 81.50 | 89.50 | 98    | 114   | 130   | 163   | 196   | 228   | 261   | 294   |
| 4-15/16    | 11.20   | 22.50 | 33.70 | 45    | 56    | 67.50 | 78.50 | 90    | 101   | 112   | 123   | 135   | 157   | 180   | 225   | 270   | 315   | 360   | 405   |
| 5-7/16     | 15  | 30    | 45    | 60    | 75    | 90    | 105   | 120   | 135   | 150   | 165   | 180   | 210   | 240   | 300   | 360   | 420   | 480   | 541   |
| 5-15/16    | 19.50   | 39    | 58.50 | 78    | 97.10 | 117   | 136   | 156   | 171   | 195   | 215   | 234   | 273   | 313   | 391   | 469   | 547   | 626   | 704   |
| 6-1/2      | 25.50   | 51    | 76.50 | 102.5 | 128   | 154   | 179   | 205   | 231   | 256   | 282   | 308   | 359   | 410   | 513   | 616   | 718   | 821   | 924   |
| 7          | 32  | 64.90 | 96    | 128   | 160   | 192   | 224   | 256   | 288   | 320   | 352   | 384   | 448   | 513   | 641   | 769   | 897   | 1026  | 1154  |
| 7-1/2      | 39.20   | 78.50 | 117   | 157   | 197   | 236   | 276   | 315   | 354   | 394   | 433   | 473   | 552   | 631   | 788   | 946   | 1104  | 1262  | 1419  |
| 8          | 47.70   | 95.50 | 143   | 191   | 239   | 287   | 335   | 382   | 430   | 478   | 526   | 574   | 670   | 765   | 957   | 1148  | 1340  | 1531  | 1723  |
| 8-1/2      | 57  | 114   | 171   | 229   | 287   | 344   | 401   | 459   | 516   | 574   | 631   | 688   | 803   | 918   | 1148  | 1377  | 1607  | 1837  | 2066  |
| 9          | 68  | 136   | 204   | 272   | 340   | 408   | 477   | 545   | 613   | 681   | 749   | 817   | 954   | 1090  | 1363  | 1635  | 1908  | 2181  | 2453  |
| 9-1/2      | 80  | 160   | 240   | 320   | 400   | 480   | 561   | 641   | 721   | 801   | 881   | 961   | 1122  | 1282  | 1603  | 1923  | 2244  | 2565  | 2885  |
| 10         | 93  | 186   | 279   | 373   | 467   | 560   | 654   | 747   | 841   | 934   | 1028  | 1121  | 1308  | 1495  | 1869  | 2243  | 2617  | 2991  | 3365  |

**Caution:** Be generous in the selection of shaft diameters as liberal diameters not only reduce deflection and vibration but also generally increase bearing life. See notes on next page.

## Selection of Shaft Diameters (Cont'd)

**Shaft Stiffness, Shaft Deflection** – Standard shafting of adequate strength usually has a sufficiently large diameter to prevent excessive deflection in ordinary installations. It is wise to select shafting of generous diameter, as the greater the diameter, the greater the stiffness. A high tensile strength alloy shaft, although stronger, is no stiffer than a standard shaft of the same diameter.

While it is sometimes possible to use an alloy shaft of less diameter than a standard shaft of equal strength, this practice is usually inadvisable, as the deflection is increased.

Shafts carrying medium or long clutch sleeves should be especially generous.

**High Speed Shafts** – High speed sometimes causes shaft whipping or vibration. This can be prevented by making the shaft diameter generous and the distance between bearing centers short.

Location of the bearings close to wheels and couplings is advisable whether the shaft is transmitting heavy or light loads.

The use of high tensile strength alloy shafting instead of standard shafting is of no help in preventing vibration as this will not improve the stiffness nor deflection characteristics of the shaft.

**Stepped Shafts** – For a heavily loaded wheel, a shaft with a boss or enlarged section under the wheel and turned to a smaller diameter at the bearings often provides the most economical installation. The two different diameters should be joined by a very generous fillet, otherwise a dangerous concentration of stress will occur at the fillet. See heading – “Turning Down Shaft Ends.” on page PT15-14.

**Shaft Keyseats** – Plain keyseats are preferable to round end keyseats in respect to causing the least concentration of stress. However, round end keyseats are often used because of design and assembly requirements. Ends left by the milling cutter should not project into babbitted or bronze bushed bearing, but may project under the sleeve of any DODGE anti-friction bearing.

Shaft diameters obtained from the tables or chart allow for the use of keyseats.

**Shaft Bearings** – On ordinary line shafting, bearings are commonly spaced about eight feet centers. On large diameter shafts, the spacing may be somewhat greater.

Wheels and clutches should be located near bearings to avoid dangerous bending, deflection and vibration.

Bearings should be mounted on adequate supports so that accurate alignment may be maintained. Shaft misalignment may cause shaft or bearing failure.

**Shaft Couplings** – Where a rigid coupling is used, it is preferable to have a bearing fairly close. Where a cutoff coupling or a flexible coupling is used, locate bearings close to each end of the coupling.

**Expansion of Shafting** – Where changes in the length of the shaft due to changes in temperature are to be expected and the bearings are mounted on supporting structures other than steel, consideration must be given to expansion. For more detailed information see page PT15-19, headed “Expansion of Shafting.”

## Factors for Shafting Other Than Standard Shafting

When it is necessary to use other than standard shafting, multiply required diameter for standard shafting as found in the tables or chart by proper factor from Table 24 below.

Standard keyseated shafting, using a safe shear stress of 6,000 PSI is the basis of shafting tables and chart. For safe shear stress of other materials, use 1/10 of nominal ultimate tensile strength. For example, use 8,000 for C1045 and 10,000 for 4140 keyseated shafting. When definite physical specifications are known the least of 13.5% of minimum ultimate tensile strength and 22.5% of minimum elastic limit in tension may be used for keyseated shafting; 18% and 30% respectively if not keyseated.

**Caution** – As the deflection of steel shafting depends upon the diameter and not upon the analysis of the steel, care should be exercised in the use of alloy shafting not to reduce the diameter unduly. Deflection should not be excessive and bearing capacities should be adequate. It is usually best to use standard shafting instead of a smaller diameter alloy shaft. The smaller alloy shaft may safely transmit the torque but often is undesirable in respect to deflection, vibration and bearing life

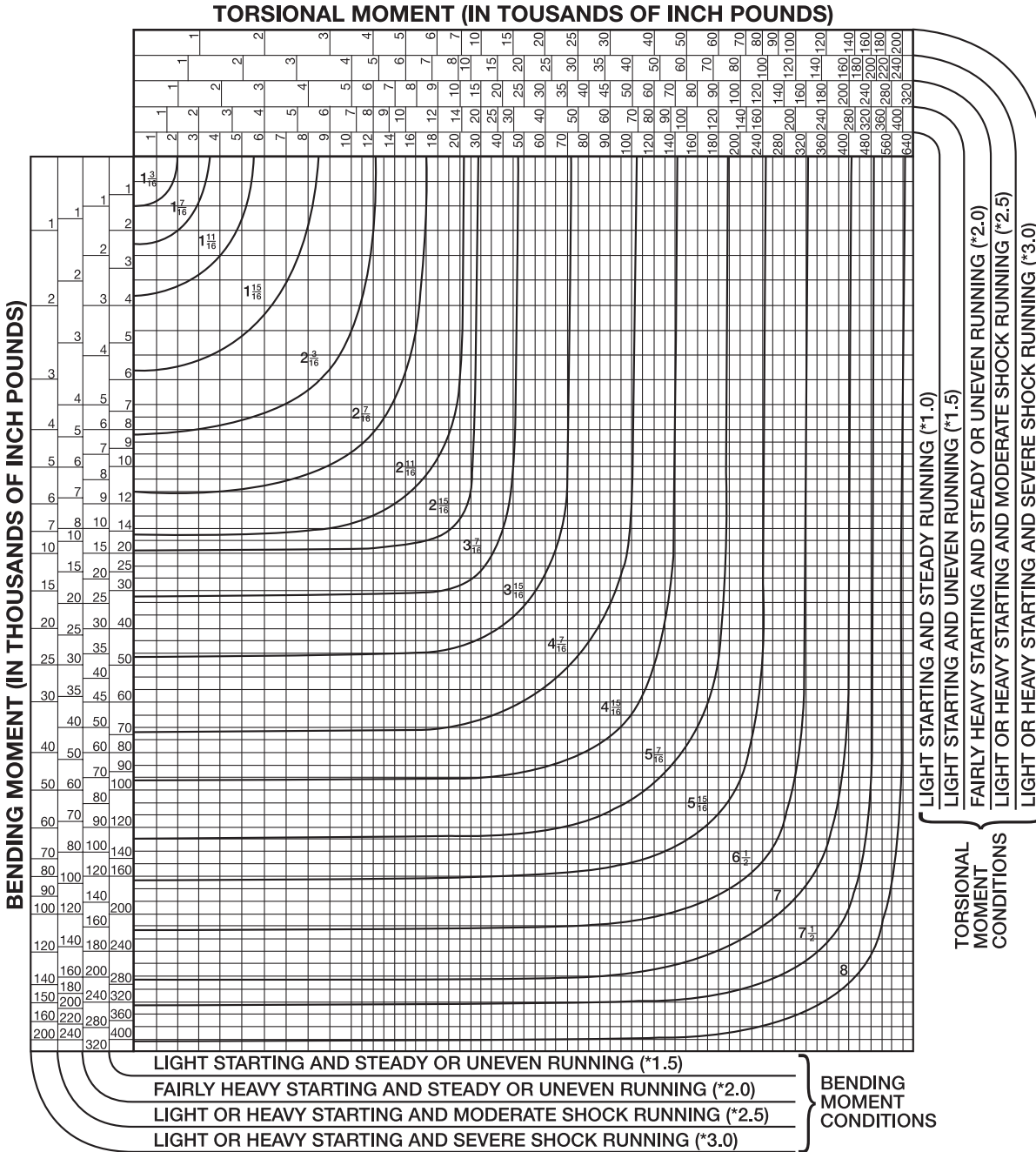
**Table 24: Shear Stress Factors**

| Safe Shear Stress | Factor | Safe Shear Stress | Factor | Safe Shear Stress | Factor | Safe Shear Stress | Factor | Safe Shear Stress | Factor |
|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|
| 500               | 2.289  | 3,000             | 1.260  | 5,500             | 1.029  | 9,000             | .874   | 14,000            | .754   |
| 1,000             | 1.817  | 3,500             | 1.197  | 6,000             | 1.000  | 10,000            | .843   | 15,000            | .737   |
| 1,500             | 1.587  | 4,000             | 1.145  | 6,500             | .974   | 11,000            | .817   | 16,000            | .721   |
| 2,000             | 1.442  | 4,500             | 1.101  | 7,000             | .950   | 12,000            | .794   | 17,000            | .707   |
| 2,500             | 1.339  | 5,000             | 1.063  | 8,000             | .909   | 13,000            | .773   | 18,000            | .693   |



# ENGINEERING

## Combined Torsion and Bending of Standard Shaft (Based on a Safe Shear Stress of 6,000 PS for Keyseated Shafting)



**Example:** Engine extension shaft driving single cylinder compressor, 15,000 pound-inches torsional moment, 14,000 pound- inches bending moment. Because of the heavy shock running load conditions use scales designated “Light or Heavy Starting and Severe Shock Running”. Project a line down from 15,000 torsional moment. Project a line to the right from 14,000 bending moment. The two lines intersect between 3-7/16 and 3-15/16 curves. Use 3-15/16 standard shafting.

**Note:** The above chart is based on ASME approved standard ASA-B17C-1927 withdrawn in 1954. If the latest shaft selection analysis is required refer to ANSI/ASME B106.1M-1985.

**Note:** If considering use of other shafting material refer to “Selection of Shaft Diameters” on page B15-15.

## Expansion of Shafting

Provision should be made to permit the free movement of shafting endwise due to temperature changes. One bearing should serve as an anchor bearing to locate the shaft endwise. All other bearings should permit the shaft to move freely endwise.

The anchor bearing is often located near an important wheel. On long shafts it should preferably be located near the center of the shaft to keep the expansion of the two ends to a minimum. If the anchor bearing is babbitted it should be fitted with collars. If it is an anti-friction bearing it should be of the non-expansion type, which is the designation of DODGE roller and ball bearings for use as anchor bearings.

All bearings on the shafting other than the anchor bearing should permit the shaft to move freely endwise. If babbitted there should be no thrust collars. If anti-friction these bearings should be of the expansion type.

Several shafts firmly fastened together expand as if one continuous shaft. An example of this is line shafting with flange couplings. If the expansion is considered excessive a long line shaft may be split into two or more sections, the sections being connected with expansion couplings.

### Amount of Expansion to be provided for –

The amount of shaft expansion is given in Table 25 below. For example, with a 100°F temperature rise on a 150 ft. line shaft with the anchor bearing located 70 ft. from one end and 80 ft. from the other end the ends will move .529” and .605” respectively away from the anchor bearing. The structure supporting the bearings may also expand but usually not as rapidly and as much as the shafting. Several cases follow:

**Case 1** – Bearings supported on steel structures, where the shaft and structure are exposed to the same temperatures, will expand at the same rate. Expansion allowance is usually not required. If the shaft is exposed to a higher temperature than the support, allowances should be made. For example, if the shaft temperature is expected to change 80°, and the temperature of the structure 60°, the resulting movement between shafting and support ends will be equivalent to a 20° change.

**Case 2** – For bearings supported on wood, brick, or concrete walls, or on piers with foundations in the ground, the amount of expansion is usually considered negligible. Therefore, the full amount of shafting expansion as calculated in Table 25 below, may be accommodated.

**Case 3** – Certain structural designs have built-in flexibility. Where this is the case, expansion type bearings are not necessary.

**Case 4** – Short shafts with only two bearings are usually designed without compensation for expansion, if temperature variations are not excessive.

### Advice on Expansion Problems –

DODGE power transmission engineers will gladly make recommendations concerning shaft expansion problems and the use of suitable bearings.

**Table 25: Linear Expansion of Steel Shafting**

Base on Expansion In Inches = 0.000063 x 12 x Length in Feet x Temp. Increase in Degrees Fahrenheit

| Length<br>(Feet) | Temperature Increase-Degrees F. |       |       |       |       | Length<br>(Feet) | Temperature Increase-Degrees F. |      |      |      |       |
|------------------|---------------------------------|-------|-------|-------|-------|------------------|---------------------------------|------|------|------|-------|
|                  | 20°                             | 40°   | 60°   | 80°   | 100°  |                  | 20°                             | 40°  | 60°  | 80°  | 100°  |
| 1                | .0015                           | .0030 | .0045 | .0060 | .0075 | 40               | .060                            | .121 | .181 | .242 | .302  |
| 2                | .0030                           | .0060 | .0091 | .0121 | .0151 | 45               | .068                            | .136 | .204 | .272 | .340  |
| 3                | .0045                           | .0091 | .0136 | .0181 | .0227 | 50               | .076                            | .151 | .227 | .302 | .378  |
| 4                | .0060                           | .0121 | .0181 | .0242 | .0302 | 55               | .083                            | .166 | .249 | .333 | .416  |
| 5                | .0076                           | .0151 | .0227 | .0302 | .0378 | 60               | .091                            | .181 | .272 | .363 | .454  |
| 6                | .0091                           | .0181 | .0272 | .0363 | .0454 | 65               | .098                            | .197 | .295 | .393 | .491  |
| 7                | .0106                           | .0212 | .0318 | .0423 | .0529 | 70               | .106                            | .212 | .317 | .423 | .529  |
| 8                | .0121                           | .0242 | .0363 | .0484 | .0605 | 75               | .113                            | .227 | .340 | .454 | .567  |
| 9                | .0136                           | .0272 | .0408 | .0544 | .0680 | 80               | .121                            | .242 | .363 | .484 | .605  |
| 10               | .0151                           | .0302 | .0454 | .0605 | .0756 | 85               | .129                            | .257 | .386 | .514 | .643  |
| 12               | .0181                           | .0363 | .0544 | .0726 | .0907 | 90               | .136                            | .272 | .408 | .544 | .680  |
| 14               | .0212                           | .0423 | .0635 | .0847 | .1058 | 95               | .144                            | .287 | .431 | .575 | .718  |
| 16               | .024                            | .048  | .073  | .097  | .121  | 100              | .151                            | .302 | .454 | .605 | .756  |
| 18               | .027                            | .054  | .082  | .109  | .136  | 110              | .166                            | .333 | .499 | .665 | .832  |
| 20               | .030                            | .060  | .091  | .121  | .151  | 120              | .181                            | .363 | .544 | .726 | .907  |
| 25               | .038                            | .076  | .113  | .151  | .189  | 130              | .197                            | .393 | .590 | .786 | .983  |
| 30               | .045                            | .091  | .136  | .181  | .227  | 140              | .212                            | .423 | .635 | .847 | 1.058 |
| 35               | .053                            | .106  | .158  | .212  | .265  | 150              | .227                            | .454 | .680 | .907 | 1.134 |



# ENGINEERING

## Weights and Properties of Steel Shafting

**Table 26: Weight of Round Steel Shafting**

| Shaft Size | Weight of Shafting for Various Lengths in feet |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      | Weight Per Inc. |
|------------|--|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|-----------------|
|            | 1  | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10  | 12   | 14   | 16   | 18   | 20   | 22   | 24   |                 |
| 3/4        | 1.5  | 3.0  | 4.5  | 6.0  | 7.5  | 9.0  | 10.5 | 12.0 | 13.5 | 15  | 18   | 21   | 24   | 27   | 30   | 33   | 36   | .125            |
| 7/8        | 2.0  | 4.0  | 6.1  | 8.1  | 10.2 | 12.2 | 14.3 | 16.3 | 18.4 | 20  | 25   | 29   | 33   | 37   | 41   | 45   | 49   | .170            |
| *15/16     | 2.3  | 4.7  | 7.0  | 9.4  | 11.7 | 14.1 | 16.5 | 18.8 | 21.2 | 23  | 28   | 33   | 38   | 42   | 47   | 52   | 56   | .195            |
| 1          | 2.7  | 5.3  | 8.0  | 10.6 | 13.3 | 16.0 | 18.6 | 21.3 | 24.0 | 27  | 32   | 37   | 43   | 48   | 53   | 59   | 64   | .223            |
| 1-1/8      | 3.4  | 6.8  | 10.0 | 13.4 | 16.7 | 20.1 | 23.4 | 26.7 | 30.1 | 34  | 41   | 47   | 54   | 61   | 68   | 74   | 81   | .281            |
| *1-3/16    | 3.8  | 7.6  | 11.3 | 15.1 | 18.9 | 22.6 | 26.4 | 30.1 | 34.0 | 38  | 45   | 53   | 60   | 68   | 75   | 83   | 90   | .314            |
| 1-1/4      | 4.2  | 8.3  | 12.5 | 16.7 | 20.8 | 25.0 | 29.2 | 33.3 | 37.5 | 42  | 50   | 58   | 67   | 75   | 83   | 92   | 100  | .348            |
| 1-3/8      | 5.0  | 10.1 | 15.3 | 20.2 | 25.3 | 30.3 | 35.4 | 40.4 | 45.4 | 50  | 60   | 71   | 81   | 91   | 101  | 111  | 121  | .420            |
| *1-7/16    | 5.5  | 11   | 17   | 22   | 28   | 33   | 39   | 44   | 50   | 55  | 66   | 77   | 88   | 99   | 110  | 121  | 133  | .460            |
| 1-1/2      | 6.0  | 12   | 18   | 24   | 30   | 36   | 42   | 48   | 54   | 60  | 72   | 84   | 96   | 108  | 120  | 132  | 144  | .500            |
| *1-11/16   | 7.6  | 15   | 23   | 30   | 38   | 46   | 53   | 61   | 68   | 76  | 91   | 107  | 122  | 137  | 152  | 167  | 183  | .634            |
| *1-15/16   | 10.0   | 20   | 30   | 40   | 50   | 60   | 70   | 80   | 90   | 100 | 120  | 140  | 161  | 181  | 201  | 221  | 241  | .835            |
| 2          | 10.7   | 21   | 32   | 43   | 53   | 64   | 75   | 85   | 96   | 107 | 128  | 150  | 171  | 192  | 214  | 235  | 256  | .890            |
| *2-3/16    | 12.8   | 26   | 38   | 51   | 64   | 77   | 90   | 102  | 115  | 128 | 153  | 179  | 205  | 230  | 256  | 281  | 307  | 1.06            |
| *2-7/16    | 15.9   | 32   | 48   | 63   | 79   | 95   | 111  | 127  | 143  | 159 | 190  | 222  | 254  | 286  | 317  | 349  | 381  | 1.32            |
| 2-1/2      | 16.7   | 34   | 50   | 67   | 83   | 100  | 117  | 134  | 150  | 167 | 200  | 234  | 267  | 301  | 334  | 367  | 401  | 1.39            |
| *2-11/16   | 19.3   | 39   | 58   | 77   | 97   | 116  | 135  | 154  | 174  | 193 | 232  | 270  | 309  | 348  | 386  | 425  | 463  | 1.61            |
| *2-15/16   | 23.0   | 46   | 69   | 92   | 115  | 138  | 161  | 184  | 208  | 231 | 277  | 323  | 369  | 415  | 461  | 507  | 553  | 1.92            |
| *3-7/16    | 31.6   | 63   | 95   | 126  | 158  | 189  | 221  | 253  | 284  | 316 | 379  | 442  | 505  | 568  | 631  | 695  | 758  | 2.63            |
| *3-15/16   | 41.4   | 83   | 124  | 166  | 207  | 248  | 290  | 331  | 373  | 414 | 497  | 580  | 662  | 745  | 828  | 911  | 994  | 3.45            |
| *4-7/16    | 52.6   | 105  | 158  | 210  | 263  | 315  | 368  | 421  | 473  | 526 | 631  | 736  | 841  | 946  | 1052 | 1157 | 1262 | 4.38            |
| *4-15/16   | 65.1   | 130  | 195  | 260  | 326  | 391  | 456  | 521  | 586  | 651 | 781  | 911  | 1041 | 1172 | 1302 | 1432 | 1562 | 5.42            |
| *5-7/16    | 79.0   | 158  | 237  | 316  | 395  | 474  | 553  | 632  | 711  | 790 | 947  | 1105 | 1263 | 1421 | 1579 | 1737 | 1894 | 6.58            |
| *6         | 96   | 192  | 288  | 384  | 481  | 577  | 673  | 769  | 865  | 961 | 1154 | 1346 | 1538 | 1730 | 1923 | 2115 | 2307 | 8.01            |

\* **Recommended Diameters** These shaft diameters are recommended for use whenever possible as various transmission items such as couplings, collars, clutches, pulleys, etc., are carried in stock in these sizes, at least up to 3-15/16", in the principal cities throughout the United States.

**Table 27: Weight and Properties of Round Steel Shafting**

| Shaft Size | Weight per Inch | Section Modulus |         | Moment of Inertia |         | Shaft Size | Weight per Inch | Section Modulus |         | Moment of Inertia |         |
|------------|-----------------|-----------------|---------|-------------------|---------|------------|-----------------|-----------------|---------|-------------------|---------|
|            |                 | Bending         | Torsion | Bending           | Torsion |            |                 | Bending         | Torsion | Bending           | Torsion |
| 1/16       | .00087          | .000024         | .000048 | .000001           | .000002 | 2-7/16     | 1.32            | 1.422           | 2.844   | 1.733             | 3.466   |
| 1/8        | .0035           | .000192         | .000383 | .000012           | .000024 | 2-1/2      | 1.39            | 1.534           | 3.068   | 1.918             | 3.835   |
| 3/16       | .0078           | .000647         | .001294 | .000061           | .000121 | 2-9/16     | 1.46            | 1.652           | 3.304   | 2.117             | 4.233   |
| 1/4        | .0139           | .001534         | .003068 | .000192           | .000383 | 2-5/8      | 1.53            | 1.776           | 3.552   | 2.331             | 4.661   |
| 5/16       | .0217           | .002996         | .005992 | .000468           | .000936 | 2-11/16    | 1.61            | 1.906           | 3.811   | 2.561             | 5.122   |
| 3/8        | .0313           | .005177         | .010354 | .000971           | .001941 | 2-3/4      | 1.68            | 2.042           | 4.084   | 2.807             | 5.615   |
| 7/16       | .0425           | .008221         | .016442 | .001798           | .003597 | 2-13/16    | 1.76            | 2.184           | 4.368   | 3.071             | 6.143   |
| 1/2        | .0556           | .0123           | .0245   | .0031             | .0061   | 2-7/8      | 1.84            | 2.333           | 4.666   | 3.354             | 6.707   |
| 9/16       | .0703           | .0175           | .0349   | .0049             | .0098   | 2-15/16    | 1.92            | 2.489           | 4.977   | 3.655             | 7.310   |
| 5/8        | .0868           | .0240           | .0479   | .0075             | .0150   | 3          | 2.00            | 2.651           | 5.301   | 3.976             | 7.952   |
| 11/16      | .1051           | .0319           | .0638   | .0110             | .0219   | 3-1/16     | 2.08            | 2.820           | 5.640   | 4.318             | 8.636   |
| 3/4        | .125            | .0414           | .0828   | .0155             | .0311   | 3-1/8      | 2.17            | 2.996           | 5.992   | 4.681             | 9.363   |
| 13/16      | .1467           | .0527           | .1053   | .0214             | .0428   | 3-3/16     | 2.26            | 3.179           | 6.359   | 5.067             | 10.13   |
| 7/8        | .1701           | .0658           | .1315   | .0288             | .0575   | 3-1/4      | 2.35            | 3.370           | 6.740   | 5.477             | 10.95   |
| 15/16      | .1954           | .0809           | .1618   | .0379             | .0758   | 3-5/16     | 2.44            | 3.568           | 7.137   | 5.910             | 11.82   |
| 1          | .22             | .0982           | .1963   | .0491             | .0982   | 3-3/8      | 2.53            | 3.774           | 7.548   | 6.369             | 12.74   |
| 1-1/16     | .25             | .1178           | .2355   | .0626             | .1251   | 3-7/16     | 2.63            | 3.988           | 7.976   | 6.854             | 13.71   |
| 1-1/8      | .28             | .1398           | .2796   | .0786             | .1573   | 3-1/2      | 2.72            | 4.209           | 8.419   | 7.366             | 14.73   |
| 1-3/16     | .31             | .1644           | .3288   | .0976             | .1952   | 3-9/16     | 2.82            | 4.439           | 8.878   | 7.907             | 15.81   |
| 1-1/4      | .35             | .1917           | .3835   | .1198             | .2397   | 3-5/8      | 2.92            | 4.677           | 9.353   | 8.476             | 16.95   |
| 1-5/16     | .38             | .2220           | .4439   | .1457             | .2913   | 3-11/16    | 3.02            | 4.923           | 9.845   | 9.076             | 18.15   |
| 1-3/8      | .42             | .2552           | .5104   | .1755             | .3509   | 3-3/4      | 3.13            | 5.177           | 10.35   | 9.707             | 19.41   |
| 1-7/16     | .46             | .2916           | .5832   | .2096             | .4192   | 3-13/16    | 3.23            | 5.440           | 10.88   | 10.37             | 20.74   |
| 1-1/2      | .50             | .3313           | .6627   | .2485             | .4970   | 3-7/8      | 3.34            | 5.712           | 11.42   | 11.07             | 22.14   |
| 1-9/16     | .54             | .3745           | .7490   | .2926             | .5852   | 3-15/16    | 3.45            | 5.993           | 11.99   | 11.80             | 23.60   |
| 1-5/8      | .59             | .4213           | .8425   | .3423             | .6846   | 4          | 3.56            | 6.283           | 12.57   | 12.57             | 25.13   |
| 1-11/16    | .63             | .4718           | .9435   | .3981             | .7961   | 4-1/16     | 3.67            | 6.582           | 13.16   | 13.37             | 26.74   |
| 1-3/4      | .68             | .5262           | 1.052   | .4604             | .9208   | 4-1/8      | 3.78            | 6.891           | 13.78   | 14.21             | 28.42   |
| 1-13/16    | .73             | .5846           | 1.169   | .5298             | 1.060   | 4-3/16     | 3.90            | 7.209           | 14.42   | 15.09             | 30.19   |
| 1-7/8      | .78             | .6471           | 1.294   | .6067             | 1.213   | 4-1/4      | 4.01            | 7.536           | 15.07   | 16.01             | 32.03   |
| 1-15/16    | .83             | .7140           | 1.428   | .6917             | 1.384   | 4-5/16     | 4.13            | 7.874           | 15.75   | 16.98             | 33.96   |
| 2          | .89             | .7854           | 1.571   | .7854             | 1.571   | 4-3/8      | 4.25            | 8.221           | 16.44   | 17.98             | 35.97   |
| 2-1/16     | .94             | .8614           | 1.723   | .8883             | 1.777   | 4-7/16     | 4.38            | 8.579           | 17.16   | 19.03             | 38.07   |
| 2-1/8      | 1.00            | .9421           | 1.884   | 1.001             | 2.002   | 4-1/2      | 4.50            | 8.946           | 17.89   | 20.13             | 40.26   |
| 2-3/16     | 1.06            | 1.028           | 2.055   | 1.124             | 2.248   | 4-9/16     | 4.63            | 9.324           | 18.65   | 21.27             | 42.54   |
| 2-1/4      | 1.13            | 1.118           | 2.237   | 1.258             | 2.516   | 4-5/8      | 4.75            | 9.713           | 19.43   | 22.46             | 44.92   |
| 2-5/16     | 1.19            | 1.214           | 2.428   | 1.404             | 2.808   | 4-11/16    | 4.88            | 10.11           | 20.22   | 23.70             | 47.40   |
| 2-3/8      | 1.25            | 1.315           | 2.630   | 1.562             | 3.124   | 4-3/4      | 5.01            | 10.52           | 21.04   | 24.99             | 49.98   |

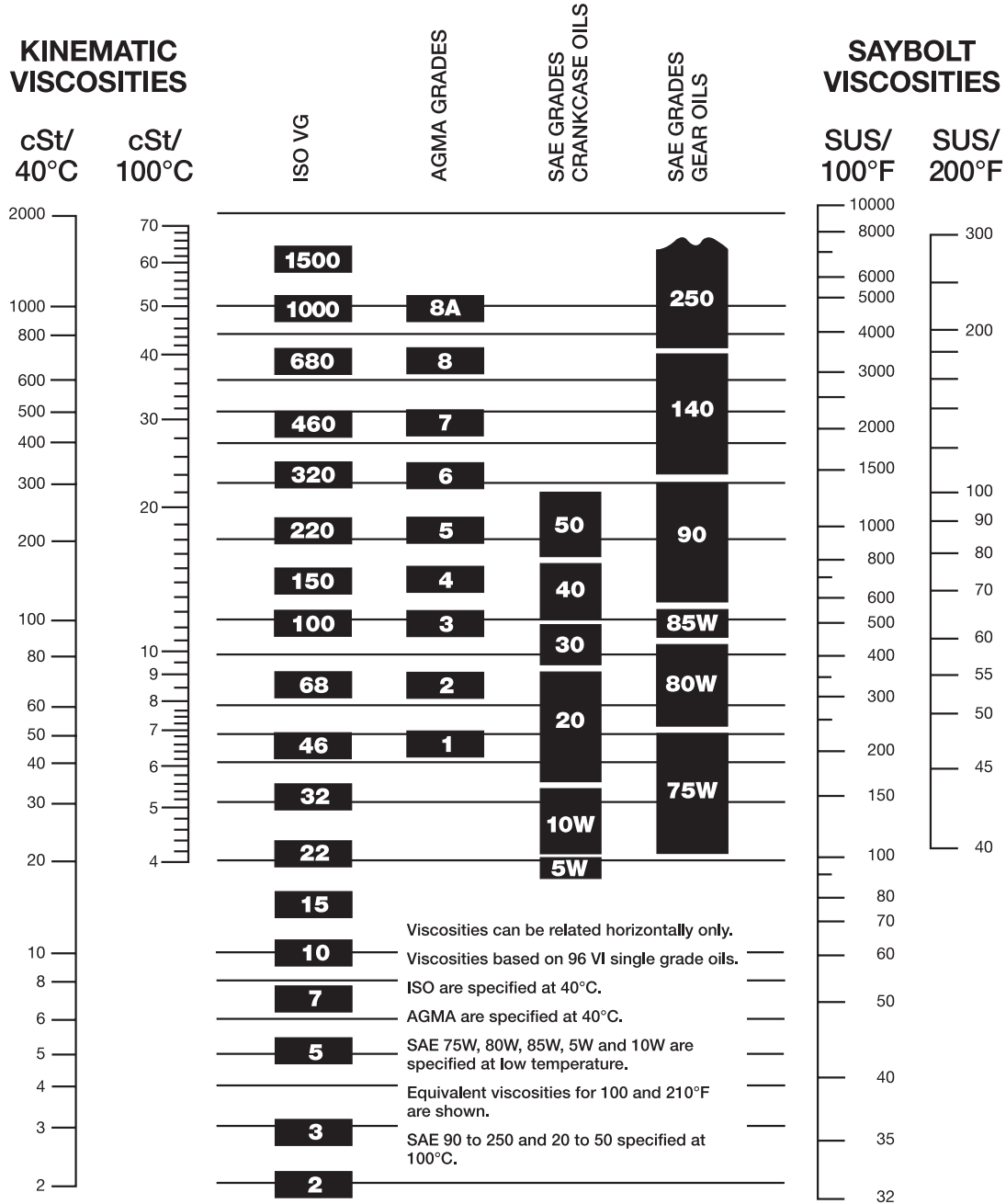
# Weights and Properties of Steel Shafting (Continued)

**Table 28: Weight and Properties of Round Steel Shafting**

| Shaft Size | Weight per Inch | Section Modulus |         | Moment of Inertia |         | Shaft Size | Weight per Inch | Section Modulus |         | Moment of Inertia |         |
|------------|-----------------|-----------------|---------|-------------------|---------|------------|-----------------|-----------------|---------|-------------------|---------|
|            |                 | Bending         | Torsion | Bending           | Torsion |            |                 | Bending         | Torsion | Bending           | Torsion |
| 4-13/16    | 5.15            | 10.94           | 21.88   | 26.33             | 52.66   | 13-1/2     | 40.50           | 241.50          | 483.10  | 1630              | 3261    |
| 4-7/8      | 5.28            | 11.37           | 22.75   | 27.72             | 55.45   | 13-3/4     | 42.00           | 255.20          | 510.40  | 1755              | 3509    |
| 4-15/16    | 5.42            | 11.82           | 23.63   | 29.17             | 58.35   | 14         | 43.60           | 269.40          | 538.80  | 1886              | 3771    |
| 5          | 5.56            | 12.27           | 24.54   | 30.68             | 61.36   | 14-1/4     | 45.10           | 284.10          | 568.20  | 2024              | 4048    |
| 5-1/16     | 5.70            | 12.74           | 25.48   | 32.24             | 64.49   | 14-1/2     | 46.70           | 299.30          | 598.60  | 2170              | 4340    |
| 5-1/8      | 5.84            | 13.22           | 26.43   | 33.86             | 67.73   | 14-3/4     | 48.40           | 315.00          | 630.10  | 2324              | 4647    |
| 5-3/16     | 5.98            | 13.70           | 27.41   | 35.55             | 71.09   | 15         | 50.00           | 331.30          | 662.70  | 2485              | 4970    |
| 5-1/4      | 6.13            | 14.21           | 28.41   | 37.29             | 74.58   | 15-1/4     | 51.70           | 348.20          | 696.40  | 2655              | 5310    |
| 5-5/16     | 6.27            | 14.72           | 29.44   | 39.10             | 78.20   | 15-1/2     | 53.40           | 365.60          | 731.20  | 2833              | 5667    |
| 5-3/8      | 6.42            | 15.25           | 30.49   | 40.97             | 81.94   | 15-3/4     | 55.10           | 383.60          | 767.10  | 3021              | 6041    |
| 5-7/16     | 6.58            | 15.78           | 31.57   | 42.91             | 85.82   | 16         | 56.90           | 402.10          | 804.20  | 3217              | 6434    |
| 5-1/2      | 6.72            | 16.33           | 32.67   | 44.92             | 89.84   | 16-1/4     | 58.70           | 421.30          | 842.50  | 3422              | 6846    |
| 5-9/16     | 6.88            | 16.90           | 33.79   | 46.99             | 93.99   | 16-1/2     | 60.50           | 441.00          | 882.00  | 3638              | 7277    |
| 5-5/8      | 7.03            | 17.47           | 34.95   | 49.14             | 98.29   | 16-3/4     | 62.40           | 461.40          | 922.70  | 3864              | 7728    |
| 5-11/16    | 7.19            | 18.06           | 36.12   | 51.36             | 102.70  | 17         | 64.20           | 482.30          | 964.70  | 4100              | 8200    |
| 5-3/4      | 7.35            | 18.66           | 37.33   | 53.66             | 107.30  | 17-1/4     | 66.10           | 503.90          | 1008    | 4346              | 8693    |
| 5-13/16    | 7.51            | 19.28           | 38.56   | 56.03             | 112.10  | 17-1/2     | 68.10           | 526.20          | 1052    | 4604              | 9208    |
| 5-7/8      | 7.67            | 19.91           | 39.82   | 58.48             | 117.00  | 17-3/4     | 70.00           | 549.10          | 1098    | 4873              | 9745    |
| 5-15/16    | 7.84            | 20.55           | 41.10   | 61.01             | 122.00  | 18         | 72.00           | 572.60          | 1145    | 5153              | 10306   |
| 6          | 8.00            | 21.21           | 42.41   | 63.62             | 127.20  | 18-1/4     | 74.00           | 596.70          | 1193    | 5445              | 10891   |
| 6-1/16     | 8.17            | 21.88           | 43.75   | 66.31             | 132.60  | 18-1/2     | 76.10           | 621.60          | 1243    | 5750              | 11500   |
| 6-1/8      | 8.34            | 22.56           | 45.12   | 69.09             | 138.20  | 18-3/4     | 78.10           | 647.10          | 1294    | 6067              | 12134   |
| 6-3/16     | 8.51            | 23.26           | 46.51   | 71.95             | 143.90  | 19         | 80.20           | 673.40          | 1347    | 6397              | 12794   |
| 6-1/4      | 8.68            | 23.97           | 47.94   | 74.90             | 149.80  | 19-1/4     | 82.40           | 700.30          | 1401    | 6741              | 13481   |
| 6-5/16     | 8.86            | 24.69           | 49.39   | 77.94             | 155.90  | 19-1/2     | 84.50           | 728.00          | 1456    | 7098              | 14195   |
| 6-3/8      | 9.03            | 25.44           | 50.87   | 81.08             | 162.20  | 19-3/4     | 86.70           | 756.30          | 1513    | 7469              | 14937   |
| 6-7/16     | 9.21            | 26.19           | 52.38   | 84.30             | 168.60  | 20         | 88.90           | 785.40          | 1571    | 7854              | 15708   |
| 6-1/2      | 9.39            | 26.96           | 53.92   | 87.62             | 175.20  | 20-1/4     | 91.10           | 815.20          | 1630    | 8254              | 16508   |
| 6-5/8      | 9.76            | 28.55           | 57.09   | 94.56             | 189.10  | 20-1/2     | 93.40           | 845.80          | 1692    | 8669              | 17339   |
| 6-3/4      | 10.10           | 30.19           | 60.39   | 101.90            | 203.80  | 20-3/4     | 95.70           | 877.10          | 1754    | 9100              | 18200   |
| 6-7/8      | 10.50           | 31.90           | 63.80   | 109.70            | 219.30  | 21         | 98.00           | 909.20          | 1818    | 9547              | 19093   |
| 7          | 10.90           | 33.67           | 67.35   | 117.90            | 235.70  | 21-1/4     | 100.40          | 942.10          | 1884    | 10009             | 20019   |
| 7-1/8      | 11.30           | 35.51           | 71.02   | 126.50            | 253.00  | 21-1/2     | 102.70          | 975.70          | 1951    | 10489             | 20978   |
| 7-1/4      | 11.70           | 37.41           | 74.82   | 135.60            | 271.20  | 21-3/4     | 105.10          | 1010            | 2020    | 10985             | 21970   |
| 7-3/8      | 12.10           | 39.38           | 78.76   | 145.20            | 290.40  | 22         | 107.60          | 1045            | 2091    | 11499             | 22998   |
| 7-1/2      | 12.50           | 41.42           | 82.84   | 155.30            | 310.60  | 22-1/4     | 110.00          | 1081            | 2163    | 12031             | 24061   |
| 7-5/8      | 12.90           | 43.52           | 87.05   | 165.90            | 331.90  | 22-1/2     | 112.50          | 1118            | 2237    | 12581             | 25161   |
| 7-3/4      | 13.30           | 45.70           | 91.40   | 177.10            | 354.20  | 22-3/4     | 115.00          | 1156            | 2312    | 13149             | 26298   |
| 7-7/8      | 13.80           | 47.95           | 95.89   | 188.80            | 377.60  | 23         | 117.60          | 1194            | 2389    | 13737             | 27473   |
| 8          | 14.30           | 50.27           | 100.50  | 201.10            | 402.10  | 23-1/4     | 120.10          | 1234            | 2468    | 14344             | 28687   |
| 8-1/8      | 14.70           | 52.66           | 105.30  | 213.90            | 427.90  | 23-1/2     | 122.70          | 1274            | 2548    | 14971             | 29941   |
| 8-1/4      | 15.10           | 55.13           | 110.30  | 227.40            | 454.80  | 23-3/4     | 125.40          | 1315            | 2630    | 15618             | 31236   |
| 8-3/8      | 15.60           | 57.67           | 115.30  | 241.50            | 483.00  | 24         | 128.00          | 1357            | 2714    | 16286             | 32572   |
| 8-1/2      | 16.10           | 60.29           | 120.60  | 256.20            | 512.50  | 24-1/4     | 130.70          | 1400            | 2800    | 16975             | 33951   |
| 8-5/8      | 16.50           | 62.99           | 126.00  | 271.60            | 543.30  | 24-1/2     | 133.40          | 1444            | 2888    | 17686             | 35372   |
| 8-3/4      | 17.00           | 65.77           | 131.60  | 287.70            | 575.50  | 24-1/4     | 136.20          | 1488            | 2977    | 18419             | 36838   |
| 8-7/8      | 17.50           | 68.63           | 137.30  | 304.50            | 609.10  | 25         | 138.90          | 1534            | 3068    | 19175             | 38350   |
| 9          | 18.00           | 71.57           | 143.10  | 322.10            | 644.10  | 25-1/4     | 141.70          | 1580            | 3161    | 19954             | 39907   |
| 9-1/8      | 18.50           | 74.59           | 149.20  | 340.30            | 680.70  | 25-1/2     | 144.50          | 1628            | 3256    | 20755             | 41511   |
| 9-1/4      | 19.00           | 77.70           | 155.40  | 359.40            | 718.70  | 25-3/4     | 147.40          | 1676            | 3352    | 21581             | 43163   |
| 9-3/8      | 19.50           | 80.89           | 161.80  | 379.20            | 758.40  | 26         | 150.30          | 1726            | 3451    | 22432             | 44864   |
| 9-1/2      | 20.10           | 84.17           | 168.30  | 399.80            | 799.60  | 26-1/4     | 153.20          | 1776            | 3552    | 23307             | 46614   |
| 9-5/8      | 20.60           | 87.54           | 175.10  | 421.30            | 842.60  | 26-1/2     | 156.10          | 1827            | 3654    | 24208             | 48415   |
| 9-3/4      | 21.10           | 90.99           | 182.00  | 443.60            | 887.20  | 26-3/4     | 159.00          | 1879            | 3758    | 25134             | 50268   |
| 9-7/8      | 21.70           | 94.54           | 189.10  | 466.80            | 933.60  | 27         | 162.00          | 1932            | 3865    | 26087             | 52174   |
| 10         | 22.20           | 98.17           | 196.30  | 490.90            | 981.70  | 27-1/2     | 168.10          | 2042            | 4083    | 28074             | 56148   |
| 10-1/4     | 23.40           | 105.72          | 211.40  | 541.80            | 1084    | 28         | 174.30          | 2155            | 4310    | 30172             | 60344   |
| 10-1/2     | 24.50           | 113.65          | 227.30  | 596.70            | 1193    | 28-1/2     | 180.50          | 2273            | 4545    | 32385             | 64771   |
| 10-3/4     | 25.70           | 121.96          | 243.90  | 655.50            | 1311    | 29         | 186.90          | 2394            | 4789    | 34719             | 69437   |
| 11         | 26.90           | 130.67          | 261.30  | 718.70            | 1437    | 29-1/2     | 193.40          | 2520            | 5041    | 37176             | 74351   |
| 11-1/4     | 28.10           | 139.78          | 279.60  | 786.30            | 1573    | 30         | 200.00          | 2651            | 5301    | 39761             | 79522   |
| 11-1/2     | 29.40           | 149.31          | 298.60  | 858.50            | 1717    | 30-1/2     | 206.80          | 2785            | 5571    | 42479             | 84957   |
| 11-3/4     | 30.70           | 159.26          | 318.50  | 935.70            | 1871    | 31         | 213.60          | 2925            | 5849    | 45333             | 90666   |
| 12         | 32.00           | 169.65          | 339.30  | 1018              | 2036    | 31-1/2     | 220.50          | 3069            | 6137    | 48329             | 96659   |
| 12-1/4     | 33.40           | 180.47          | 360.90  | 1105              | 2211    | 32         | 227.60          | 3217            | 6434    | 51472             | 102944  |
| 12-1/2     | 34.70           | 191.75          | 383.50  | 1198              | 2397    | 32-1/2     | 234.80          | 3370            | 6740    | 54765             | 109530  |
| 12-3/4     | 36.10           | 203.48          | 407.00  | 1297              | 2594    | 33         | 242.10          | 3528            | 7056    | 58214             | 116428  |
| 13         | 37.60           | 215.69          | 431.40  | 1402              | 2804    | 34         | 256.90          | 3859            | 7717    | 65597             | 131194  |
| 13-1/4     | 39.00           | 228.37          | 456.70  | 1513              | 3026    | 35         | 272.30          | 4209            | 8418    | 73662             | 147324  |

## Viscosity Classification Equivalents

### OIL VISCOSITY EQUIVALENCY CHART



### ISO VISCOSITY CLASSIFICATION SYSTEM

All industrial oils are graded according to the ISO Viscosity Classification System, approved by the International Standards Organizations (ISO). Each ISO viscosity grade number corresponds to the mid-point of viscosity range expressed in centistokes (cSt) at 40°C. For example, a lubricant with an ISO grade of 32 has a viscosity within the range of 28.80-35.2, the midpoint of which is 32.

**Rule-of-Thumb:** The comparable ISO grade of a competitive product whose viscosity in SUS at 100°F is known can be determined by using the following conversion formula:

$$\text{SUS @ 100° F} \div 5 = \text{cSt @ 40°C}$$

## English Standard Measures

### Long Measure

1 mile = 1760 yards = 5280 feet.  
 1 yard = 3 feet = 36 inches.  
 1 foot = 12 inches.

### Surveyor's Measure

1 mile = 8 furlongs = 80 chains.  
 1 furlong = 10 chains = 220 yards.  
 1 chain = 4 rods = 22 yards = 66 feet = 100 links.  
 1 link = 7.92 inches.

### Square Measure

1 square mile = 640 acres = 6400 square chains.  
 1 acre = 10 square chains = 4840 square yards = 43,560 square feet.  
 1 square chain = 16 square rods = 484 square yards = 4356 square feet.  
 1 square rod = 30.25 square yards = 272.25 square feet = 625 square links.  
 1 square yard = 9 square feet.  
 1 square foot = 144 square inches.  
 An acre is equal to a square, the side of which is 208.7 feet.

### Dry Measure

1 bushel (U.S. or Winchester struck bushel) = 1.2445 cubic foot = 2150.42 cubic inches.  
 1 bushel = 4 pecks = 32 quarts = 64 pints.  
 1 peck = 8 quarts = 16 pints.  
 1 quart = 2 pints.  
 1 heaped bushel = 1 1/4 struck bushel.  
 1 cubic foot = 0.8036 struck bushel.  
 1 British Imperial bushel = 8 Imperial gallons = 1.2837 cubic foot = 2218.19 cubic inches.

### Liquid Measure

1 U.S. gallon = 0.1337 cubic foot = 231 cubic inches = 4 quarts = 8 pints.  
 1 quart = 2 pints = 8 gills.  
 1 pint = 4 gills.  
 1 British Imperial gallon = 1.2003 U.S. gallon = 277.27 cubic inches.  
 1 cubic foot = 7.48 U.S. gallons.

### Circular and Angular Measure

60 seconds (") = 1 minute (')  
 60 minutes = 1 degree (-)  
 360 degrees = 1 circumference (C)  
 57.3 degrees = 1 radian  
 2 π radians = 1 circumference (C)

### Specific Gravity

The specific gravity of a substance is its weight as compared with the weight of an equal bulk of pure water.

For making specific gravity determinations the temperature of the water is usually taken at 62° F. when 1 cubic foot of water weighs 62.355 lbs. Water is at its greatest density at 39.20° F. or 4° Centigrade.

### Temperature

The following equation will be found convenient for transforming temperature from one system to another:

Let F = degrees Fahrenheit; C = degrees Centigrade; R = degrees Reamur.

$$F - 32 = \frac{C}{9} = \frac{R}{8}$$

$$180 \quad 100 \quad 80$$

### Avoirdupois or Commercial Weight

1 gross or long ton = 2240 pounds.  
 1 net or short ton = 2000 pounds.  
 1 pound = 16 ounces = 7000 grains.  
 1 ounce = 16 drams = 437.5 grains.

### Measures of Pressure

1 pound per square inch = 144 pounds per square foot = 0.068 atmosphere = 2.042 inches of mercury at 62 degrees F. = 27.7 inches of water at 62 degrees F. = 2.31 feet of water at 62 degrees F.  
 1 atmosphere = 30 inches of mercury at 62 degrees F. = 14.7 pounds per square inch = 2116.3 pounds per square foot = 33.95 feet of water at 62 degrees F.  
 1 foot of water at 62 degrees F. = 62.355 pounds per square foot = 0.433 pound per square inch.  
 1 inch of mercury at 62 degrees F. = 1.132 foot of water = 13.58 inches of water = 0.491 pound per square inch.  
 Column of water 12 in. high, 1 in. dia. = .341 lbs.

### Cubic Measure

1 cubic yard = 27 cubic feet.  
 1 cubic foot = 1728 cubic inches.  
 The following measures are also used for wood and masonry:  
 1 cord of wood = 4 X 4 X 8 feet = 128 cubic feet.  
 1 perch of masonry = 16-1/2 X 1-1/2 X 1 foot = 24-3/4 cubic feet.

### Shipping Measure

For measuring entire internal capacity of a vessel: 1 register ton = 100 cubic feet.  
 For measurement of cargo:  
 1 U.S. shipping ton = 40 cubic feet = 32.143 U.S. bushels = 31.16 Imperial bushels.  
 British shipping ton = 42 cubic feet = 33.75 U.S. bushels = 32.72 Imperial bushels.

### Troy Weight, Used for Weighing Gold and Silver

1 pound = 12 ounces = 5760 grains.  
 1 ounce = 20 pennyweights = 480 grains.  
 1 pennyweight = 24 grains.  
 1 carat (used in weighing diamonds) = 3.086 grains.  
 1 grain Troy = 1 grain avoirdupois = 1 grain apothecaries' weight.

### Measure Used for Diameters and Areas of Electric Wires

1 circular inch = area of circle 1 inch in diameter = 0.7854 square inch.  
 1 circular inch = 1,000,000 circular mils.  
 1 square inch = 1.2732 circular inch = 1,273,239 circular mils.  
 A circular mil is the area of a circle 0.001 inch in diameter.

### Board Measure

One foot board measure is a piece of wood 12 inches square by 1 inch thick, or 144 cubic inches. 1 cubic foot therefore equals 12 feet board measure



**TABLE 29: Decimal and Millimeter Equivalents of Fractions**

| Inches    |      |          | Milli-meters | Inches    |       |          | Milli-meters | Inches    |       |          | Milli-meters |
|-----------|------|----------|--------------|-----------|-------|----------|--------------|-----------|-------|----------|--------------|
| Fractions |      | Decimals |              | Fractions |       | Decimals |              | Fractions |       | Decimals |              |
| 1/64      |      | .015625  | .397         |           | 11/32 | .34375   | 8.7319       |           | 11/16 | .6875    | 17.463       |
|           | 1/32 | .03125   | .794         | 23/64     |       | .359375  | 9.128        | 45/64     | 23/32 | .703125  | 17.859       |
| 3/64      |      | .046875  | 1.191        |           | 3/8   | .375     | 9.525        |           |       | .71875   | 18.256       |
|           | 1/16 | .0625    | 1.588        | 25/64     |       | .390625  | 9.922        | 47/64     | 23/32 | .734375  | 18.653       |
| 5/64      |      | .078125  | 1.984        |           | 13/32 | .40625   | 10.319       |           | 3/4   | .750     | 19.050       |
|           | 3/32 | .09375   | 2.381        | 27/64     |       | 4.21875  | 10.716       | 49/64     |       | .765625  | 19.447       |
| 7/64      |      | .109375  | 2.778        |           | 7/16  | 4.375    | 11.113       |           | 25/32 | .78125   | 19.844       |
|           | 1/8  | .125     | 3.175        | 29/64     |       | 4.53125  | 11.509       | 51/64     |       | .796875  | 20.241       |
| 9/64      |      | .140625  | 3.582        |           | 15/32 | 4.6875   | 11.906       |           | 13/16 | .8125    | 20.638       |
|           | 5/32 | .15625   | 3.969        | 31/64     |       | 4.8376   | 12.303       | 53/64     |       | .828125  | 21.034       |
| 11/64     |      | .171875  | 4.366        |           | 1/2   | .500     | 12.700       |           | 27/32 | .84375   | 21.431       |
|           | 3/16 | .1875    | 4.763        | 33/64     |       | .515625  | 13.097       | 55/64     |       | .859375  | 21.828       |
| 13/64     |      | .203125  | 5.159        |           | 17/32 | .53125   | 13.494       |           | 7/8   | .875     | 22.225       |
|           | 7/32 | .21875   | 5.556        | 35/64     |       | .546875  | 13.891       | 57/64     |       | .890625  | 22.622       |
| 15/64     |      | .234375  | 5.953        |           | 9/16  | .5625    | 14.288       |           | 29/32 | .90524   | 23.019       |
|           | 1/41 | .250     | 6.350        | 37/64     |       | .578125  | 14.684       | 59/64     |       | .921875  | 23.416       |
| 7/64      |      | .265625  | 6.747        |           | 19/32 | .59375   | 14.081       |           | 15/16 | .9375    | 23.813       |
|           | 9/32 | .28125   | 7.144        | 39/64     |       | .609375  | 15.478       | 61/64     |       | .953125  | 24.209       |
| 19/64     |      | .296875  | 7.541        |           | 5/8   | .625     | 15.875       |           | 31/32 | .96875   | 24.606       |
|           | 5/16 | .3125    | 7.938        | 41/64     |       | .60625   | 16.272       | 63/64     |       | .984375  | 25.003       |
| 21/64     |      | .328125  | 8.334        |           | 21/32 | .65625   | 16.669       |           | 1     | 1.000    | 25.400       |
|           |      |          |              | 43/64     |       | .671875  | 17.066       |           |       |          |              |

**Table 30: Millimeter-Inch Equivalents: 1" = 25.4mm (.03937" = 1mm)**

| Millimeter | Decimal | Millimeter | Decimal | Millimeter | Decimal | Millimeter | Decimal | Millimeter | Decimal  |
|------------|---------|------------|---------|------------|---------|------------|---------|------------|----------|
| 1          | .03937  | 52         | 2.04724 | 103        | 4.05511 | 154        | 6.06299 | 205        | 8.07086  |
| 2          | .07874  | 53         | 2.08661 | 104        | 4.09448 | 155        | 6.10236 | 206        | 8.11023  |
| 3          | .11811  | 54         | 2.12598 | 105        | 4.13385 | 156        | 6.14173 | 207        | 8.14960  |
| 4          | .15748  | 55         | 2.16535 | 106        | 4.17322 | 157        | 6.18110 | 208        | 8.18897  |
| 5          | .19685  | 56         | 2.20472 | 107        | 4.21259 | 158        | 6.22047 | 209        | 8.22834  |
| 6          | .23622  | 57         | 2.24409 | 108        | 4.25196 | 159        | 6.25984 | 210        | 8.26771  |
| 7          | .27559  | 58         | 2.28346 | 109        | 4.29133 | 160        | 6.29921 | 211        | 8.30708  |
| 8          | .31496  | 59         | 2.32283 | 110        | 4.33070 | 161        | 6.33858 | 212        | 8.34645  |
| 9          | .35433  | 60         | 2.36220 | 111        | 4.37007 | 162        | 6.37795 | 213        | 8.38582  |
| 10         | .39370  | 61         | 2.40157 | 112        | 4.40944 | 163        | 6.41732 | 214        | 8.42519  |
| 11         | .43307  | 62         | 2.44094 | 113        | 4.44881 | 164        | 6.45669 | 215        | 8.46456  |
| 12         | .47244  | 63         | 2.48031 | 114        | 4.48818 | 165        | 6.49606 | 216        | 8.50393  |
| 13         | .51181  | 64         | 2.51968 | 115        | 4.52755 | 166        | 6.53543 | 217        | 8.54330  |
| 14         | .55118  | 65         | 2.55905 | 116        | 4.56692 | 167        | 6.57480 | 218        | 8.58267  |
| 15         | .59055  | 66         | 2.59842 | 117        | 4.60629 | 168        | 6.61417 | 219        | 8.62204  |
| 16         | .62992  | 67         | 2.63779 | 118        | 4.64566 | 169        | 6.65354 | 220        | 8.66141  |
| 17         | .66929  | 68         | 2.67716 | 119        | 4.68503 | 170        | 6.69291 | 221        | 8.70078  |
| 18         | .70866  | 69         | 2.71653 | 120        | 4.72440 | 171        | 6.73228 | 222        | 8.74015  |
| 19         | .74803  | 70         | 2.75590 | 121        | 4.76378 | 172        | 6.77165 | 223        | 8.77952  |
| 20         | .78740  | 71         | 2.79527 | 122        | 4.80315 | 173        | 6.81102 | 224        | 8.81889  |
| 21         | .82677  | 72         | 2.83464 | 123        | 4.84252 | 174        | 6.85039 | 225        | 8.85826  |
| 22         | .86614  | 73         | 2.87401 | 124        | 4.88189 | 175        | 6.88976 | 226        | 8.89763  |
| 23         | .90551  | 74         | 2.91338 | 125        | 4.92126 | 176        | 6.92913 | 227        | 8.93700  |
| 24         | .94488  | 75         | 2.95275 | 126        | 4.96063 | 177        | 6.96850 | 228        | 8.97637  |
| 25         | .98425  | 76         | 2.99212 | 127        | 5.00000 | 178        | 7.00787 | 229        | 9.01574  |
| 26         | 1.02362 | 77         | 3.03149 | 128        | 5.03937 | 179        | 7.04724 | 230        | 9.05511  |
| 27         | 1.06299 | 78         | 3.07086 | 129        | 5.07875 | 180        | 7.08661 | 231        | 9.09448  |
| 28         | 1.10236 | 79         | 3.11023 | 130        | 5.11811 | 181        | 7.12598 | 232        | 9.13385  |
| 29         | 1.14173 | 80         | 3.14960 | 131        | 5.15749 | 182        | 7.16535 | 233        | 9.17322  |
| 30         | 1.18110 | 81         | 3.18897 | 132        | 5.19685 | 183        | 7.20472 | 234        | 9.21259  |
| 31         | 1.22047 | 82         | 3.22834 | 133        | 5.23622 | 184        | 7.24409 | 235        | 9.25196  |
| 32         | 1.25984 | 83         | 3.26771 | 134        | 5.27559 | 185        | 7.28346 | 236        | 9.29133  |
| 33         | 1.29921 | 84         | .303708 | 135        | 5.31496 | 186        | 7.32283 | 237        | 9.33070  |
| 34         | 1.33858 | 85         | 3.34645 | 136        | 5.35433 | 187        | 7.36220 | 238        | 9.37007  |
| 35         | 1.37795 | 86         | 3.38582 | 137        | 5.39370 | 188        | 7.40157 | 239        | 9.40944  |
| 36         | 1.41732 | 87         | .342519 | 138        | .543307 | 189        | 7.44094 | 240        | 9.44881  |
| 37         | 1.45669 | 88         | 3.46456 | 139        | .547244 | 190        | 7.48031 | 241        | 9.48818  |
| 38         | 1.49606 | 89         | 3.50393 | 140        | 5.51181 | 191        | 7.51968 | 242        | 9.52755  |
| 39         | 1.53543 | 90         | 3.54330 | 141        | 5.55118 | 192        | 7.55905 | 243        | 9.56692  |
| 40         | 1.57480 | 91         | .358267 | 142        | 5.59055 | 193        | 7.59842 | 244        | 9.60629  |
| 41         | 1.61417 | 92         | 3.62204 | 143        | 5.62992 | 194        | 7.63779 | 245        | 9.64566  |
| 42         | 1.65354 | 93         | 3.66141 | 144        | 5.66929 | 195        | 7.67716 | 246        | 9.68503  |
| 43         | 1.69291 | 94         | 3.70078 | 145        | 5.70866 | 196        | 7.71653 | 247        | 9.72440  |
| 44         | 1.73228 | 95         | 3.74015 | 146        | 5.74803 | 197        | 7.75590 | 248        | 9.76378  |
| 45         | 1.77165 | 96         | 3.77952 | 147        | 5.78740 | 198        | 7.79527 | 249        | 9.80315  |
| 46         | 1.81102 | 97         | 3.81889 | 148        | 5.82677 | 199        | 7.83464 | 250        | 9.84252  |
| 47         | 1.85039 | 98         | 3.85826 | 149        | 5.86614 | 200        | 7.87401 | 251        | 9.88189  |
| 48         | 1.88976 | 99         | 3.89763 | 150        | 5.90551 | 201        | 7.91338 | 252        | 9.92126  |
| 49         | 1.92913 | 100        | 3.93710 | 151        | 5.94488 | 202        | 7.95275 | 253        | 9.96063  |
| 50         | 1.96850 | 101        | 3.97637 | 152        | 5.98425 | 203        | 7.99212 | 254        | 10.00000 |
| 51         | 2.00787 | 102        | 4.01574 | 153        | 6.02362 | 204        | 8.03149 | -          | -        |

## Metric System of Measurements

### Measures of Length

|      |                   |                      |
|------|-------------------|----------------------|
| 10   | millimeters (mm.) | = 1 centimeter (cm.) |
| 10   | centimeters       | = 1 decimeter (dm.)  |
| 10   | decimeters        | = 1 meter (m.)       |
| 1000 | meter             | = 1 kilometer (km.)  |

### Measure of Weight

|      |                  |                       |
|------|------------------|-----------------------|
| 10   | milligrams (mg.) | = 1 centigram (cg.)   |
| 10   | centigrams       | = 1 decigram (dg.)    |
| 10   | decigrams        | = 1 gram (g.)         |
| 10   | grams            | = 1 decagram (Dg.)    |
| 10   | decagrams        | = 1 hectogram (Hg.)   |
| 10   | hectograms       | = 1 Kilogram (Kg.)    |
| 1000 | kilograms        | = 1 (metric) ton (T.) |

### Surveyor's Square Measure

|     |                     |                          |
|-----|---------------------|--------------------------|
| 100 | square meters (m.2) | = 1 are (ar.)            |
| 100 | acres               | = 1 hectare (har.)       |
| 100 | hectares            | = 1 sq. kilometer (Km.2) |

### Square Measure

|     |                        |                           |
|-----|------------------------|---------------------------|
| 100 | sq. millimeters (mm.2) | = 1 sq. centimeter (cm.2) |
| 100 | sq. centimeters        | = 1 sq. decimeter (dm.2)  |
| 100 | sq. decimeters         | = 1 sq. meter (m.2)       |

### Cubic Measure

|      |                        |                           |
|------|------------------------|---------------------------|
| 1000 | cu. millimeters (mm.3) | = 1 cu. centimeter (cm.3) |
| 1000 | cu. centimeters        | = 1 cu. decimeter (dm.3)  |
| 1000 | cu. decimeters         | = 1 cu. meter (m.3)       |

### Dry and Liquid Measure

|     |                   |                      |
|-----|-------------------|----------------------|
| 10  | milliliters (ml.) | = 1 centiliter (cl.) |
| 10  | centiliters       | = 1 deciliter (dl.)  |
| 10  | deciliters        | = 1 liter (l.)       |
| 100 | liters            | = 1 hectoliter (Hl.) |

1 liter = 1 cubic decimeter = the volume of 1 kilogram of pure water at a temperature of 39.2 degrees F.

### Length Conversion Constants for Metric and U.S. Units

Millimeters X.039370 = inches.  
Meters x 39.370 = inches.  
Meters X 3.2808 = feet.  
Meters X 1.09361 = yards.  
Kilometers X 3,280.8 = feet.  
Kilometers X.62137 = Statute Miles.  
Kilometers x.53959 = Nautical Miles.

Inches X 25.4001 = millimeters.  
Inches X.0254 = meters.  
Feet x.30480 = meters.  
Yards X.91440 = meters.  
Feet x.0003048 = kilometers.  
Statute Miles X 1.60935 = kilometers.  
Nautical Miles x 1.85325 = kilometers.

### Weight Conversion Constants for Metric and U.S. Units

Grams X 981 = dynes.  
Grams X 15.432 = grains.  
Grams X.03527 = ounces (Avd.).  
Grams x.033818 = fluid ounces (water).  
Kilograms X 35.27 = ounces (Avd.).  
Kilograms X 2.20462 = pounds (Avd.).  
Metric Tons (1000 Kg.) X 1.10231 = Net Ton (2000 lbs.).  
Metric Tons (1000 Kg.) X.98421 = Gross Ton (2240 lbs.).

Dynes X.0010193 = grams.  
Grains X.0648 = grams.  
Ounces (Avd.) X 28.35 = grams.  
Fluid Ounces (Water) X 29.57 = grams.  
Ounces (Avd.) X.02835 = kilograms.  
Pounds (Avd.) X.45359 = kilograms.  
Net Ton (2000 lbs.) X.90719 = Metric Tons (1000 Kg.).  
Gross Ton (2240 lbs.) X 1.01605 = Metric Tons (1000 Kg.).

### Area Conversion Constants for Metric and U.S. Units

Square Millimeters X.00155 = square inches.  
Square centimeters X.155 = square inches.  
Square Meters X 10.76387 = square feet.  
Square Meters X 1.19599 = square yards.  
Hectares X 2.47104 = acres.  
Square Kilometers X 247.104 = acres.  
Square Kilometers X.3861 = square miles.

Square Inches X 645.163 = square millimeters.  
Square Inches x 6.45163 = square centimeters.  
Square Feet x.0929 = square meters.  
Square Yards X.83613 = square meters.  
Acres X.40469 = hectares.  
Acres X.0040469 = square kilometers.  
Square Miles X 2.5899 = square kilometers.

### Volume Conversion Constants for Metric and U.S. Units

Cubic centimeters X.033818 = fluid ounces.  
Cubic centimeters X.061023 = cubic inches.  
Cubic centimeters X.271 = fluid drams.  
Liters X 61.023 = cubic inches.  
Liters X 1.05668 = quarts.  
Liters X .26417 = gallons.  
Liters X.035317 = cubic feet.  
Hectoliters X 26.417 = gallons.  
Hectoliters X 3.5317 = cubic feet.  
Hectoliters X 2.83794 = bushel (2150.42 cu. in.).  
Hectoliters X.1308 = cubic yards.  
Cubic Meters x 264.17 = gallons.  
Cubic Meters x 35.317 = cubic feet.  
Cubic Meters X 1.308 = cubic yards.

Fluid Ounces X 29.57 = cubic centimeters.  
Cubic Inches X 16.387 = cubic centimeters.  
Fluid Drams x 3.69 = cubic centimeters.  
Cubic Inches X.016387 = liters.  
Quarts x.94636 = liters.  
Gallons x 3.78543 = liters.  
Cubic Feet x 28.316 = liters.  
Gallons x.0378543 = hectoliters.  
Cubic Feet x.28316 = hectoliters.  
Bushels (2150.42 cu. in.) X.352379 = hectoliters.  
Cubic Yards x 7.645 = hectoliters.  
Gallons x.00378543 = cubic meters.  
Cubic Feet x.028316 = cubic meters.  
Cubic Yards x.7645 = cubic meters.

### Power and Heat Conversion Constants for Metric and U.S. Units

Calorie x 0.003968 = B.T.U.  
Joules X.7373 = pound-feet.  
Newton-Meters X 8.851 = pound-inches  
Cheval Vapeur X.9863 = Horsepower.  
Kilowatts X 1.34 = Horsepower.  
Kilowatt Hours X 3415 = B.T.U.  
(Degrees Cent. X 1.8) +32 = degrees Fahr.  
(Degrees Reamur X 2.25) + 32 = degrees Fahr.

B.T.U. X 252 = calories.  
Pound-Feet X 1.3563 = joules.  
Pound-inches X.11298 = Newton-meters.  
Horsepower X 1.014 = Cheval Vapeur.  
Horsepower X.746 = kilowatts.  
B.T.U. X.00029282 = kilowatt hours.  
(Degrees Fahr. - 32) x.555 = degrees Cent.  
(Degrees Fahr. - 32) x.444 = degrees Reamur.

## COMMON CONVERSION FACTORS USEFUL IN MECHANICAL POWER TRANSMISSION

### Symbols and Abbreviations Used in Conversion Factors

Symbols and abbreviations found in this section are those currently used in many texts and product publications. Considerable effort is underway to standardize on abbreviations for metric and English units of measurement. Recently, ASTM (American Society for Testing and Materials) and IEEE (Institute of Electrical and Electronic Engineers) published a standard practice on the metric system. † This publication consolidates a great deal of the current thinking and provides a system of abbreviations and symbols that differ somewhat from those used here.

This Handbook has retained use of familiar abbreviations consistent with existing product and trade literature rather than the abbreviations found in current publications of technical and scientific societies.

### Prefixes Used in the Metric System

Common prefixes and symbols used in the metric system are listed below. An example of use is 1000 meters is equivalent to 1 kilometer, and 1/1000 of one meter is equivalent to 1 millimeter.

| Prefix  | Symbol | Multiplication Factor-Decimal and Power of 10                |
|---------|--------|--|
| exa     | E      | 1,000,000,000,000,000,000 or $10^{18}$ or one quintillion    |
| peta    | P      | 1,000,000,000,000,000 or $10^{15}$ or one quadrillion        |
| tera    | T      | 1,000,000,000,000 or $10^{12}$ or one trillion               |
| giga    | G      | 1,000,000,000 or $10^9$ or one billion                       |
| mega    | M      | 1,000,000 or $10^6$ or one million                           |
| kilo    | k      | 1,000 or $10^3$ or one thousand                              |
| *hecto  | h      | 100 or $10^2$ or one hundred                                 |
| *deka   | da     | 10 or $10^1$ or ten  |
| **deci  | d      | 0.1 or $10^{-1}$ or one tenth                                |
| **centi | c      | 0.01 or $10^{-2}$ or one hundredth                           |
| mill    | m      | 0.001 or $10^{-3}$ or one thousandth                         |
| micro   | $\mu$  | 0.000,001 or $10^{-6}$ or one millionth                      |
| nano    | n      | 0.000,000,001 or $10^{-9}$ or one billionth                  |
| pico    | p      | 0.000,000,000,001 or $10^{-12}$ or one trillionth            |
| femto   | f      | 0.000,000,000,000,001 or $10^{-15}$ or one quadrillionth     |
| atto    | a      | 0.000,000,000,000,000,001 or $10^{-18}$ or one quintillionth |

\* Not commonly used.

\*\* Not commonly used except for special situations.  
The centimeter as a unit of length is in common use.  
The decibel is a unit in both electrical and acoustical work.

† ASTM/IEEE Standard Metric Practice, ASTM E 380-75, IEEE Std. 268-1976.  
"Reprinted with Permission of the Power Transmission Distributors Association"

| Symbol or Abbreviation  | Term                          |
|-------------------------|-------------------------------|
| atm                     | atmosphere                    |
| avdp                    | avoirdupois                   |
| bbl                     | barrels                       |
| bu                      | bushels                       |
| C                       | degrees Centigrade or Celsius |
| cc                      | cubic centimeters             |
| cfm                     | cubic feet per minute         |
| cfs                     | cubic feet per second         |
| cm                      | centimeter                    |
| cu                      | cubic                         |
| deg                     | degrees                       |
| F                       | degrees Fahrenheit            |
| fps                     | feet per second               |
| ft                      | feet                          |
| ft-lb                   | foot-pounds (work or energy)  |
| ft per sec              | feet per second (alternate)   |
| ft per sec <sup>2</sup> | feet per second per second    |
| g                       | acceleration due to gravity   |
| g                       | grams                         |
| gal                     | gallons                       |
| gpm                     | gallons per minute            |
| hp                      | horsepower                    |
| hr                      | hour                          |
| in                      | inches                        |
| in-lb                   | inch-pounds (work or energy)  |
| K                       | degrees Kelvin                |
| kg                      | kilograms                     |
| km                      | kilometers                    |
| kn                      | knots                         |
| kW                      | kilowatts                     |

| Symbol or Abbreviation | Term  |
|------------------------|---|
| l                      | liters  |
| lb                     | pounds  |
| lb-ft                  | pound-feet (torque)                           |
| m                      | meters  |
| m per sec <sup>2</sup> | meters per second per second                  |
| mi                     | miles   |
| mm                     | millimeters                                   |
| mph                    | miles per hour                                |
| MGD                    | millions of gallons per day                   |
| N                      | Newtons                                       |
| oz                     | ounces  |
| oz-in                  | ounce-inches (torque)                         |
| Pa                     | Pascals                                       |
| psi                    | pounds per square inch                        |
| psia or psig           | pounds per square inch<br>"absolute" or gauge |
| pt                     | pint  |
| qt                     | quart   |
| R                      | degrees Rankine (Fahrenheit, absolute)        |
| rad                    | radians                                       |
| rev                    | revolutions                                   |
| rpm                    | revolutions per minute                        |
| sec                    | seconds                                       |
| sq                     | square  |
| std                    | standard                                      |
| temp                   | temperature                                   |
| wt                     | weight  |
| yd                     | yard  |
| yr                     | year  |

## Rounding of Numbers

A minimum of four significant figures are used in conversion factors presented here. Where the conversion factor is exact (for example, 1 foot contains 12 inches), decimal fractions are not necessary. Also, where large whole numbers are used (for example, 1 square kilometer contains 1195990 square yards), decimal fractions are not used unless justified by the accuracy of ordinary computations.

|         |                          |
|---------|--------------------------|
| 1195990 | (sq yd in a sq km)       |
| 4389.12 | (cc in a cu ft)          |
| 448.86  | (gpm in a liter per sec) |
| 14.70   | (psi in an atmosphere)   |
| 0.4331  | (psi in a ft of water)   |
| 0.0625  | (lb-in in an oz-in)      |

# ENGINEERING

## VELOCITY

|   |   |        |
|---|---|--------|
| centimeters per second (cm per sec) . . . . . | feet per second (fps or ft per sec) . . . . . | 0.3281 |
| feet per second (fps) . . . . .               | centimeters per second (cm per sec) . . . . . | 30.48  |
|   | meters per second (m per sec) . . . . .       | 0.3048 |
|   | kilometers per hour (km per hr) . . . . .     | 1.097  |
|   | miles per hour (mph) . . . . .                | 0.6818 |
| kilometers per hour (km per hr) . . . . .     | knots (kn) . . . . .                          | 0.5396 |
|   | feet per second (fps) . . . . .               | 1.467  |
|   | kilometers per hour (km per hr) . . . . .     | 1.609  |
|   | feet per minute (ft per min.) . . . . .       | 88     |
| knots (kn) . . . . .                          | miles per hour (mph) . . . . .                | 1.152  |
|   | kilometers per hour (km per hr) . . . . .     | 1.853  |
| radians per second (rad per sec) . . . . .    | revolutions per minute (rpm) . . . . .        | 9.55   |
|   | degrees per minute (deg per min.) . . . . .   | 3437.7 |
| revolutions per minute (rpm) . . . . .        | radians per second (rad per sec) . . . . .    | 0.1047 |
|   | degrees per minute (deg per min.) . . . . .   | 360    |

## ACCELERATION

### COLUMN A

| To Convert From...                                    | To...   | Multiply Col. A by |
|---|---|--------------------|
| feet per second per second (ft per sec <sup>2</sup> ) | meters per second per second (m per sec <sup>2</sup> ) . . . . .    | 0.3048             |
| m per sec <sup>2</sup>                                | ft per sec <sup>2</sup> . . . . .                                   | 3.281              |
| revolutions per minute per second (rpm per sec)       | radians per second per second (rad per sec <sup>2</sup> ) . . . . . | 0.1047             |
| rad per sec <sup>2</sup>                              | rpm per sec . . . . .   | 9.55               |

## VOLUMETRIC FLOW RATES

|  |                                    |          |
|--|------------------------------------|----------|
| gallons per minute, US (gpm)             | liters per second (l per sec)      | 0.008434 |
|  | cubic feet per minute (cfm)        | 0.1337   |
|  | cubic feet per hour (cu ft per hr) | 8.022    |
| gallons per minute, UK or Canadian (gpm) | liters per second (l per sec)      | 0.0101   |
|  | cubic feet per minute (cfm)        | 0.1606   |
|  | cubic feet per hour (cu ft per hr) | 9.634    |
| cubic feet per second (cfs)              | gpm (UK or Canadian)               | 373.77   |
|  | gpm (US)                           | 448.86   |
|  | liters per second (l per sec)      | 1699.2   |
| liters per second (l per sec)            | cubic feet per minute (cfm)        | 2.119    |
|  | gpm (UK or Canadian)               | 13.20    |
|  | gpm (US)                           | 15.85    |
| millions of gallons per day, US (MGD)    | liters per second (l per sec)      | 43.81    |
|  | cubic feet per minute (cfm)        | 92.85    |
|  | gallons per minute, US (gpm)       | 694.44   |

## PRESSURE

|   |  |           |
|---|--|-----------|
| pascals (Pa)                                | pounds per square inch (psi)                     | 0.0001450 |
|   | pounds per square foot (lb per ft <sup>2</sup> ) | 0.02089   |
|   | newtons per square meter                         | 1         |
| pounds per square inch (psi)                | atmospheres, std. (atm)                          | 0.0680    |
|   | pounds per square foot (lb per ft <sup>2</sup> ) | 144       |
|   | pascals (Pa)                                     | 6894.8    |
|   | foot of water (ft of H <sub>2</sub> O) 60F       | 2.301     |
| atmospheres (atm), standard                 | psi  | 14.70     |
|   | lb per ft <sup>2</sup>                           | 2116.8    |
|   | Pa   | 101325    |
| inch of water, 60F (in of H <sub>2</sub> O) | psi  | 0.03609   |
|   | lb per ft <sup>2</sup>                           | 5.197     |
|   | Pa   | 248.84    |
| foot of water, 60F (ft of H <sub>2</sub> O) | psi  | 0.4331    |
|   | lb per ft <sup>2</sup>                           | 62.36     |
|   | Pa   | 2985.9    |

## WEIGHT, MASS, INERTIA

|                |                |        |
|----------------|----------------|--------|
| pounds (lb)*   | kilograms (kg) | 0.4536 |
|                | ounces (oz)    | 16     |
| kilograms (kg) | pounds (lb)    | 2.205  |
|                | ounces (oz)    | 35.27  |

Continued...





# ENGINEERING

## WEIGHT, MASS, INERTIA, (Continued)

### COLUMN A

| Convert From  | To  | Multiply Col A By This Factor |
|---|---|-------------------------------|
| tons (short) .....                                  | metric tons .....                                       | 0.9072                        |
|   | kilograms (kg) .....                                    | 907.2                         |
|   | pounds (lb) .....                                       | 2000                          |
| metric tons .....                                   | tons (short) .....                                      | 1.102                         |
|   | kilograms .....   | 1000                          |
|   | pounds .....  | 2205                          |
| pounds, weight (lb) .....                           | slugs, mass (lb-sec <sup>2</sup> per ft) .....          | 0.03106                       |
| pound-foot <sup>2</sup> (lb-ft <sup>2</sup> ) ..... | kilogram-meters <sup>2</sup> (kg-m <sup>2</sup> ) ..... | 0.04214                       |

\*pounds and ounces are avoirdupois

### FORCE AND TORQUE

|                            |                            |          |
|----------------------------|----------------------------|----------|
| pounds (lb) .....          | newtons (N) .....          | 4.448    |
| newtons (N) .....          | pounds (lb) .....          | 0.2248   |
| newton-meters (N-m) .....  | pound-feet (lb-ft) .....   | 0.7376   |
|                            | pound-inches (lb-in) ..... | 8.851    |
|                            | ounce-inches (oz-in) ..... | 141.60   |
| ounce-inches (oz-in) ..... | lb-ft .....                | 0.005208 |
|                            | N-m .....                  | 0.007062 |
|                            | lb-in .....                | 0.0625   |
| pound-inches (lb-in) ..... | lb-ft .....                | 0.0833   |
|                            | N-m .....                  | 0.1298   |
|                            | oz-in .....                | 16       |
| pound-feet (lb-ft) .....   | N-m .....                  | 1.356    |
|                            | lb-in .....                | 12       |
|                            | oz-in .....                | 192      |

### POWER

|                       |   |        |
|-----------------------|---|--------|
| horsepower (hp) ..... | kilowatts (kW) .....                          | 0.7457 |
|                       | foot-pounds per second (ft-lb per sec) .....  | 550    |
|                       | foot-pounds per minute (ft-lb per min.) ..... | 33000  |
| kilowatts (kW) .....  | horsepower (hp) .....                         | 1.341  |

### TEMPERATURE

|                              |                              | Use This Relationship |
|------------------------------|------------------------------|-----------------------|
| degrees Fahrenheit (F) ..... | degrees Celsius (C) .....    | $C = 5/9 (F - 32)$    |
| degrees Celsius (C) .....    | degrees Fahrenheit (F) ..... | $F = 9/5C + 32$       |
| degrees Fahrenheit (F) ..... | degrees Rankine (R) .....    | $R = F + 459.69$      |
| degrees Celsius (C) .....    | degrees Kelvin (K) .....     | $K = C + 273.16$      |

- Examples:**
- Convert 12F to C.  $C = 5/9 (F - 32) = 5/9 (12 - 32) = 5/9 (-20)$   
Answer = -11.1C
  - Convert 40C to F.  $F = 9/5C + 32 = 9/5 (40) + 32 = 72 + 32$   
Answer = 104F

## GRAVITATIONAL CONSTANT

g = 32.174 feet per second per second (ft per sec<sup>2</sup>)  
 = 9.8067 meters per second per second (m per sec<sup>2</sup>)

## APPROXIMATE DENSITIES OF COMMON MATERIALS

|   | REPRESENTATIVE DENSITIES       |              |
|---|--------------------------------|--------------|
|   | Grams per cc                   | lb per cu ft |
| <b>GASES @ 68F, std atm</b>                       |                                |              |
| Air . . . . .                                     | 1.30 grams per liter . . . . . | 0.07528      |
| Oxygen . . . . .                                  | 1.45 grams per liter . . . . . | 0.08305      |
| Hydrogen . . . . .                                | 0.09 grams per liter . . . . . | 0.005234     |
| Nitrogen . . . . .                                | 1.25 grams per liter . . . . . | 0.07274      |
|   | All Other Materials            |              |
|   | grams per cc                   |              |
| <b>LIQUIDS</b>                                    |                                |              |
| Water @ 4C . . . . .                              | 1.000 grams per cc . . . . .   | 62.43        |
| 20C . . . . .                                     | 0.998 . . . . .                | 62.32        |
| 40C . . . . .                                     | 0.992 . . . . .                | 61.94        |
| SeaWater . . . . .                                | 1.02-1.03 . . . . .            | 64.00        |
| Ethyl alcohol 100% . . . . .                      | 0.789 . . . . .                | 49.2         |
| Kerosene . . . . .                                | 0.78-0.82 . . . . .            | 50           |
| Gasoline . . . . .                                | 0.70-0.75 . . . . .            | 45           |
| <b>METALS</b>                                     |                                |              |
| Aluminum (95% Al) . . . . .                       | 2.70 . . . . .                 | 169          |
| Bronze (90% Cu, 10% Zn) . . . . .                 | 8.80 . . . . .                 | 549          |
| Copper (Annealed, ACS) . . . . .                  | 8.89 . . . . .                 | 555          |
| Gold . . . . .                                    | 19.32 . . . . .                | 1206         |
| Iron, gray cast . . . . .                         | 7.10 . . . . .                 | 443          |
| Lead . . . . .                                    | 11.36 . . . . .                | 709          |
| Magnesium . . . . .                               | 1.74 . . . . .                 | 109          |
| Steel (0.4-0.5% Carbon) . . . . .                 | 7.80 . . . . .                 | 487          |
| Steel, 410 stainless . . . . .                    | 7.70 . . . . .                 | 480          |
| <b>ENGINEERING PLASTICS</b>                       |                                |              |
| ABS, general purpose . . . . .                    | 1.01-1.05 . . . . .            | 64           |
| Acrylics, cast sheet . . . . .                    | 1.19 . . . . .                 | 74           |
| Nylon 6/6 . . . . .                               | 1.13-1.15 . . . . .            | 71           |
| Phenolic, general purpose . . . . .               | 1.35-1.46 . . . . .            | 87           |
| Polycarbonates, general purpose . . . . .         | 1.2 . . . . .                  | 75           |
| Polyesters, thermoplastic, unreinforced . . . . . | 1.31 - 1.43 . . . . .          | 86           |
| Polyethylene, medium density . . . . .            | 0.926-0.940 . . . . .          | 58           |
| Polyvinyl Chloride . . . . .                      | 1.30-1.58 . . . . .            | 89           |



# ENGINEERING

## APPROXIMATE DENSITIES OF COMMON MATERIALS

### REPRESENTATIVE DENSITIES

| OTHER MATERIALS                      | REPRESENTATIVE DENSITIES |              |
|--------------------------------------|--------------------------|--------------|
|                                      | Grams per cc             | lb per cu ft |
| Concrete (stone and sand) . . . . .  | 2.2-2.4 . . . . .        | 144          |
| Limestone . . . . .                  | 1.5 . . . . .            | 94           |
| Anthracite coal, not piled . . . . . | 1.4-1.8 . . . . .        | 100          |
| Bituminous coal, not piled . . . . . | 1.2-1.5 . . . . .        | 83           |
| Lignite coal, not piled . . . . .    | 1.1-1.4 . . . . .        | 78           |
| Wood, air dried:                     |                          |              |
| Douglas fir . . . . .                | 0.48-0.55 . . . . .      | 32           |
| White oak . . . . .                  | 0.77 . . . . .           | 48           |
| White maple . . . . .                | 0.53 . . . . .           | 33           |
| Oregon pine . . . . .                | 0.51 . . . . .           | 32           |
| Hickory . . . . .                    | 0.74-0.80 . . . . .      | 48           |
| Mahogany . . . . .                   | 0.56-0.85 . . . . .      | 44           |
| African teak . . . . .               | 0.99 . . . . .           | 62           |
| Indian teak . . . . .                | 0.66-0.88 . . . . .      | 48           |

### Formulas and Constants

1 HP = 33,000 Foot-pounds of work per minute.

1 HP = .746 K.W. = K.W.P 1.341.

1 HP = 2547 B.T.U. per hour.

1 B.T.U. = Heat required to raise 1 lb. water 1-F.

1 B.T.U. = 777.6 Foot-pounds work.

1 Kilowatt Hour = 3415 B.T.U.

Heat Value of Carbon = 14,600 B.T.U. per pound.

Latent Heat of Fusion of Ice = 143.15 B.T.U. per pound.

Latent Heat of Evaporation of Water at 212° F. = 970.4 B.T.U. per pound.

Total Heat of Saturated Steam at atmospheric pressure = 1,150.4 B.T.U. per pound.

1 Ton of Refrigeration = 288,000 B.T.U. per 24 hours.

g = Acceleration of Gravity (commonly taken as 32.16 feet per second per second).

1 Radian = 57.296 degrees.

1 Meter = 100 cm. = 39.37 inches.

1 Kilometer = .62137 miles.

1 Gallon = 231 cubic inches.

1 Barrel = 31.5 gallons.

Atmospheric Pressure = 14.7 pounds per sq. in.

= 29.92 inches mercury at 32° F.

1 Lb. per Sq. In. Pressure = 2.3095 feet fresh water at 62° F.

= 2.0355 inches mercury at 32° F.

= 2.0416 inches mercury at 62° F.

Water Pressure (pounds per sq. in.) = .433 X height of water in feet (Fresh water at 62°F).

Weight of 1 cu. ft. fresh Water = 62.355 lbs. at 62°F.

= 59.76 lbs. at 212° F.

Weight of 1 cu. ft. Air at 14.7 lbs. per sq. in. Pressure = .07608 lbs. at 62° F.

= .08073 lbs. at 32° F.

† Also look in the General Index under Weights, Measures, or the subject material required.

## Flywheel Formulas

**Flywheels** are used on some machines, for example air compressors, to even out load pulsations. The following formulas are useful in designing entire flywheels and flywheel rims. A V-belt sheave may also be used as a flywheel eliminating the need for a separate flywheel in the system.

### Formulas for Entire Flywheel

Kinetic energy of rotation of a flywheel (foot pounds)  
 $= .0001705 N^2(WR^2)^*$ .

Torque to uniformly accelerate or decelerate a flywheel

$$= \frac{.03908 (N_2 - N_1) (WR^2), * \text{ pound-inches}}{t}$$

where  $N_2$  = final R.P.M. and  $N_1$  = initial R.P.M.  
 Velocity at outside diameter (feet per minute) =  $0.2618 ND$ .

W = weight (pounds).

R = radius of gyration (feet).

N = speed (R.P.M.)

t = time to change from  $N_1$  to  $N_2$  (seconds).

F = face of rim (inches).

D = outside diameter of rim (inches).

d = inside diameter of rim (inches).

K = weight per cubic inch of material (pounds).

\* $WR^2$  = flywheel effect (pounds X feet<sup>2</sup>). See table to the right for  $WR^2$  of rims. Ordinarily the  $WR^2$  of the rim only is considered.

In unusual instances the relatively small  $WR^2$  values of the hub and arms or web can be added directly to the  $WR^2$  of the rim if desired. To find the  $WR^2$  of a hub or web use the  $WR^2$  formula for rims, substituting the hub or web outside diameter, inside diameter, and width for D, d and F respectively. When arms are used instead of a web an approximate  $WR^2$  value of the arms is the total weight of the arms in pounds times the square of the radius in feet from the shaft center line to the mid point of the arms between hub and rim.

**Table 31: Formulas for Flywheel Rims**

| Property   | Cast Iron Rim<br>(Based on .26 lbs.<br>per cu. in.) | Steel<br>Rim<br>(Based on .283 lbs.<br>per cu. in.) | Rim of any<br>material<br>weighing<br>K pounds per<br>cubic inch |
|--|---|---|--|
| Volume<br>(Cubic<br>Inches)  | .7854F(D <sup>2</sup> -d <sup>2</sup> )             | .7854F(D <sup>2</sup> -d <sup>2</sup> )             | .7854F(D <sup>2</sup> -d <sup>2</sup> )                          |
| W<br>Weight<br>(Pounds)  | .2042F(D <sup>2</sup> -d <sup>2</sup> )             | .2223F(D <sup>2</sup> -d <sup>2</sup> )             | .7854FK(D <sup>2</sup> -d <sup>2</sup> )                         |
| R<br>Radius of<br>Gyration<br>(Feet)   | $\sqrt{\frac{.8681 (D^2-d^2)}{1000}}$               | $\sqrt{\frac{.8681 (D^2-d^2)}{1000}}$               | $\sqrt{\frac{.8681 (D^2-d^2)}{1000}}$                            |
| $WR^2$<br>Wt X Sq.<br>of Radius of<br>Gyration<br>(Lbs. X Ft. <sup>2</sup> ) | $\frac{.1773F(D^4-d^4)}{1000}$                      | $\frac{.1929F(D^4-d^4)}{1000}$                      | $\frac{.6818FK(D^4-d^4)}{1000}$                                  |
| T ▲<br>Tensile Load<br>in rim (Lbs.)   | $\frac{.3078FN2(D^3-d^3)}{1000000}$                 | $\frac{.3350FN2(D^3-d^3)}{1000000}$                 | $\frac{1.184FKN2(D^3-d^3)}{1000000}$                             |

▲ Centrifugal force causes this tensile load at each and every section of the rim. Hence, on rims split into two or more sections the fastening at each joint should be designed to take the full load as calculated from the formula here given.

### Centrifugal Force

R = Distance from the axis of rotation to the center of gravity of the body (feet).

N = Revolutions per minute.

v = Velocity of the center of gravity of the body (feet per second).

g = Acceleration due to gravity (32.16 commonly).

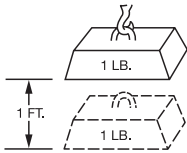
$$F = \frac{Wv^2}{gR} = \frac{WRN^2}{2933} = .000341 WRN^2$$

F = Centrifugal force tending to move the body outward from the axis of rotation (pounds).

W = Weight of body (pounds).

# ENGINEERING

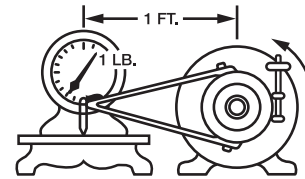
## Torque and Horsepower Equivalents



A foot-pound is the amount of energy expended in lifting a one-pound mass a distance of one foot against the pull of gravity

### FOOT-POUNDS INDICATE ENERGY

| TORQUE   |
|--|
| It is: a turning moment or twisting effort. Is it expressed in foot-pounds? or pound-feet? |
| ↔  |



A pound-foot is the moment created by a force of one pound applied to the end of a lever arm one

### POUND-FEET INDICATE TORQUE

$$\begin{aligned} \text{Torque (in Pound-Inches)} &= \frac{63025 \times \text{HP}}{\text{RPM}} \\ &= \text{Force} \times \text{Lever Arm (In Inches)} \\ \text{Torque (in Pound-Feet)} &= \frac{5252 \times \text{HP}}{\text{RPM}} \\ &= \text{Force} \times \text{Lever Arm (In Feet)} \end{aligned}$$

- Force = Working Load in Pounds.
- FPM = Feet Per Minute.
- RPM = Revolutions Per Minute.
- Lever Arm = Distance from the Force to the center of rotation in Inches or Feet.

### Example:

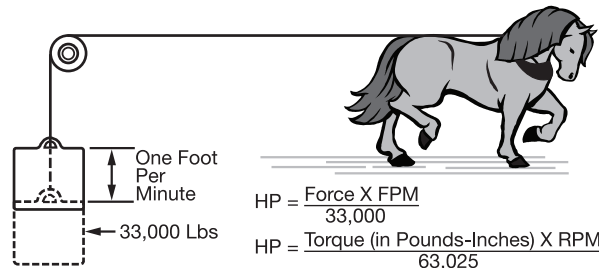
$$\begin{aligned} 25 \text{ HP at } 150 \text{ RPM} &= 10504 \text{ Pound-Inches Torque} \\ 2.5 \text{ HP at } 150 \text{ RPM} &= 1050.4 \text{ Pound-Inches Torque} \end{aligned}$$

For other values of RPM move decimal point in RPM values to the left or right as desired, and in Torque values move to the right or left (opposite way) the same number of places.

### Example:

$$\begin{aligned} 25 \text{ HP at } 150 \text{ RPM} &= 10504 \text{ Pound-Inches Torque} \\ 25 \text{ HP at } 1.50 \text{ RPM} &= 1050400 \text{ Pound-Inches Torque} \\ 2.5 \text{ HP at } 1.50 \text{ RPM} &= 105040 \text{ Pound-Inches Torque} \end{aligned}$$

| HORSEPOWER   |
|--|
| <b>Common Unit of Mechanical power - (HP)</b>  |
| <b>One HP is the rate of work required to raise 33,000 pounds one foot in one minute</b> |



$$\begin{aligned} \text{HP} &= \frac{\text{Force} \times \text{FPM}}{33,000} \\ \text{HP} &= \frac{\text{Torque (in Pounds-Inches)} \times \text{RPM}}{63,025} \\ \text{HP} &= \frac{\text{Torque (in Pounds-Feet)} \times \text{RPM}}{5,252} \end{aligned}$$

## Overhung Loads

An overhung load is a bending force imposed on a shaft due to the torque transmitted by V-drives, chain drives and other power transmission devices, other than flexible couplings.

Most motor and reducer manufacturers list the maximum values allowable for overhung loads. It is desirable that these figures be compared with the load actually imposed by the connected drive.

Overhung loads may be calculated as follows:

$$\text{O.H.L.} = \frac{63,000 \times \text{HP} \times \text{F}}{\text{N} \times \text{R}}$$

- Where HP = Transmitted hp X service factor
- N = RPM of shaft
- R = Radius of sprocket, pulley, etc. (inches)
- F = Factor (See chart to right)

Weights of the drive components are usually negligible. The formula is based on the assumption that the load is applied at a point equal to one shaft diameter from the bearing face. Factor F depends on the type of drive used:

$$F = \begin{cases} 1.00 & \text{for single chain drives.} \\ 1.3 & \text{for TIMING Belt Drives and Sync belt Drives.} \\ 1.25 & \text{for spur or helical gear or double chain drives.} \\ 1.50 & \text{for V-belt drives.} \\ 2.50 & \text{for flat belt drives.} \end{cases}$$

**Example:** Find the overhung load imposed on a reducer by a double chain drive transmitting 7 hp @ 30 RPM. The pitch diameter of the sprocket is 10"; service factor is 1.3.

**Solution:** 
$$\text{O.H.L.} = \frac{(63,000) (7 \times 1.3) (1.25)}{(30) (5)} = 4,780 \text{ lbs.}$$

## Mathematical Equations

- To find circumference of a circle, multiply diameter by 3.1416.
- To find diameter of a circle, multiply circumference by .31831.
- To find area of a circle, multiply square of diameter by .7854.
- To find area of a rectangle, multiply length by breadth.
- To find area of a triangle, multiply base by 1/2 perpendicular height.
- To find area of ellipse, multiply product of both diameters by .7854.
- To find area of parallelogram, multiply base by altitude.
- To find side of an inscribed square, multiply diameter by 0.7071 or multiply circumference by 0.2251 or divide circumference by 4.4428.

- To find side of inscribed cube, multiply radius of sphere by 1.1547.
- To find side of an equal square, multiply diameter by .8862.
- To find the surface of a sphere, square the diameter and multiply by 3.1416.
- To find the volume of a sphere, cube the diameter and multiply by .5236.
- A side of a square multiplied by 1.4142 equals diameter of its circumscribing circle.
- A side of a square multiplied by 4.443 equals circumference of its circumscribing circle.

**Table 32: Strength and Physical Properties of Various Metals**

| Metals and Alloys                                | Stress in Thousands of Pounds per Sq. Inch |                     |                      |                | Modulus of Elasticity Millions | Elongation% |
|--|--|---------------------|----------------------|----------------|--------------------------------|-------------|
|  | Tension Ultimate                           | Tension Yield Point | Compression Ultimate | Shear Ultimate |                                |             |
| Aluminum, Type 1100.0, Annealed                  | 13   | 5                   | .....                | 9              | 10                             | 45          |
| Aluminum, Type 1100-H18, Hard                    | 24   | 22                  | .....                | 13             | 10                             | 15          |
| Aluminum, Type 3003-0, Annealed                  | 16   | 6                   | .....                | 11             | 10                             | 40          |
| Aluminum, Type 3003-H18, Hard                    | 29   | 27                  | .....                | 16             | 10                             | 10          |
| Aluminum, Type 5052-0, Annealed                  | 28   | 13                  | .....                | 18             | 10.20                          | 30          |
| Aluminum, Type 5052-H38, Hard                    | 42   | 37                  | .....                | 24             | 10.20                          | 8           |
| Aluminum, Type 5056-0, Annealed                  | 42   | 22                  | .....                | 26             | 10.30                          | 35          |
| Aluminum, Type 2014-0, Annealed                  | 27   | 14                  | .....                | 18             | 10.60                          | 18          |
| Aluminum, Type 2014-T4, Heat Treated             | 62   | 42                  | .....                | 38             | 10.60                          | 20          |
| Aluminum, Type C4A, Casting, Solution Heat Treat | 32   | 16                  | 16▲                  | 24             | .....                          | 8.50        |
| Aluminum, Type S5C, As Die Cast                  | 30   | 16                  | 16▲                  | 19             | .....                          | 9           |
| Brass, Admiralty, Annealed                       | 53   | 22                  | .....                | .....          | 16                             | 65          |
| Brass, Aluminum, Annealed                        | 60   | 27                  | .....                | .....          | 16                             | 55          |
| Brass, Cartridge, 30% Zn, Annealed               | 44   | 11                  | .....                | 32             | 16                             | 66          |
| Brass, Cartridge, 30% Zn, Hard                   | 76   | 63                  | .....                | 44             | 16                             | 8           |
| Brass, Naval, Annealed                           | 57†  | 25†                 | .....                | 40 †           | 15                             | 47†         |
| Brass, Naval, Leaded, Annealed                   | 57†  | 25†                 | .....                | 36 †           | 15                             | 40†         |
| Brass, Red, 15% Zn, Annealed                     | 39   | 10                  | .....                | 31             | 17                             | 48          |
| Brass, Red, 15% Zn, Hard                         | 70   | 57                  | .....                | 42             | 17                             | 5           |
| Brass, Red, Leaded, Cast, Grade 4A               | 33-46                                      | 17-24               | 10-12▲               | .....          | 9.1-14.8                       | 20-35       |
| Brass, Red, Leaded, Cast, Grade 4B               | 30-38                                      | 12-17               | 11-12▲               | .....          | .....                          | 15-27       |
| Brass, Semi-Red, Leaded, Cast, Grade 5A          | 29-39                                      | 13-17               | .....                | .....          | 7.7-14.3                       | 18-30       |
| Brass, Semi-Red, Leaded, Cast, Grade 5B          | 30-40                                      | 12-16               | 8-10▲                | .....          | 10-14                          | 20-35       |
| Brass, Yellow, 35% Zn, Annealed                  | 46   | 14                  | .....                | 32             | 15                             | 65          |
| Brass, Yellow, 35% Zn, Hard                      | 74   | 60                  | .....                | 43             | 15                             | 8           |
| Bronze, Aluminum, As Cast                        | 67-95                                      | 27-45               | .....                | .....          | 15-18                          | 5-35        |
| Bronze, Commercial, 10% Zn, Annealed             | 37†  | 10†                 | .....                | 28 †           | 17                             | 45=         |
| Bronze, Manganese, Annealed                      | 65†  | 30†                 | .....                | 42 v           | 15                             | 33=         |
| Bronze, Phosphor, Annealed                       | 40-66                                      | 14-24               | .....                | .....          | 16-17                          | 48-70       |
| Bronze, Tin, High Leaded, Cast                   | 23-38                                      | 11-22               | 12-16▲               | .....          | 8.5-13                         | 7-20        |
| Bronze, Tin, Leaded, Cast                        | 33-48                                      | 16-26               | 9-15▲                | .....          | 10.6-16                        | 15-40       |
| Copper, Beryllium, Annealed                      | 60-80                                      | 25-35v              | .....                | 50-60 †        | 19                             | 35-50†      |
| Copper, Electrolytic, Tough Pitch, Annealed      | 32†  | 10†                 | .....                | 22 †           | 17                             | 45†         |
| Inconel, Cast                                    | 65-90                                      | .....               | .....                | .....          | 23                             | 10-20       |
| Inconel, S, Cast                                 | 90-120                                     | 80-100              | .....                | .....          | 25                             | 1-3         |
| Inconel, Shapes, Plate, Etc., Annealed           | 80-100†                                    | 30-45†              | .....                | .....          | 31                             | 35-55†      |
| Inconel, X, Shapes, Plate, Etc., Annealed        | 110-130†                                   | 45-65†              | .....                | .....          | 31                             | 40-55†      |
| Iron, Cast, Class 30                             | 30-34                                      | .....               | 115                  | 44             | 15                             | .....       |
| Iron, Cast, Class 35                             | 35-40                                      | .....               | 125                  | 43             | 16                             | .....       |
| Iron, Ingot, Hot Rolled                          | 44   | 23                  | .....                | .....          | 29.80                          | 47          |
| Iron, Malleable, Class 32510                     | 50   | 33                  | 90                   | 46             | 25                             | 10-18       |
| Iron, Malleable, Class 35018                     | 55   | 37                  | 90                   | 51             | 25                             | 18-25       |
| Iron, Nodular (Ductile) Class 60-45-10           | 60   | 45                  | 120                  | .....          | 22-25                          | 10-25       |
| Iron, Nodular (Ductile) Class 80-60-3            | 80   | 60                  | 160                  | .....          | 22-25                          | 3-10        |
| Iron, Pearlitic, Malleable                       | 60-90                                      | 40-70               | .....                | .....          | 28                             | 3-12        |
| Iron, Wrought, Hot Rolled                        | 34-47                                      | 23-24               | .....                | .....          | 29                             | 7-35        |
| Lead, Hard, Rolled                               | 4.0-4.6                                    | .....               | .....                | .....          | .....                          | 31-48       |
| Magnesium Alloy, Extruded, ASTM M1A              | 26-28                                      | 23-28               | 10-13                | 16             | 6.50                           | 8-11        |
| Magnesium Alloy, Extruded, ASTM AZ61A-F          | 40-45                                      | 22-32               | 15-21                | 21             | 6.50                           | 15-16       |
| Magnesium Alloy, Cast, ASTM M1B                  | 14   | 4.50                | .....                | 11             | 6.50                           | 5           |
| Magnesium Alloy, Cast, ASTM AZ92A                | 24   | 14                  | .....                | 19             | 6.50                           | 2           |
| Magnesium Alloy, Cast, ASTM AZ91A                | 36   | 23                  | .....                | 20             | 6.50                           | 4           |



**Table 32: Strength and Physical Properties of Various Metals**

| Metals and Alloys   | Stress in Thousands of Pounds per Sq. Inch |                     |                      |                | Modulus of Elasticity Millions | Elongation% |
|---|--|---------------------|----------------------|----------------|--------------------------------|-------------|
|   | Tension Ultimate                           | Tension Yield Point | Compression Ultimate | Shear Ultimate |                                |             |
| Monel, Cast   | 65-90                                      | 32-45               | .....                | .....          | 23                             | 20-50       |
| Monel, S, Cast  | 120-145                                    | 80-130              | .....                | .....          | 24.20                          | 1-4         |
| Monel, Shapes, Plate, Etc., Annealed                          | 70-85†                                     | 25-45†              | .....                | .....          | 26                             | 35-50†      |
| Monel, K, Shapes, Plate, Etc., Annealed                       | 90-105†                                    | 40-65†              | .....                | 26             | 25-45                          | 35-55†      |
| Muntz Metal, Cu 59.63%, Zn balance                            | 54   | 21                  | .....                | 40             | 15                             | 45          |
| Nickel, Cast  | 50-65                                      | 15-30               | .....                | .....          | 21.50                          | 15-30       |
| Nickel, Silver, Annealed                                      | 49-63†                                     | 18-30†              | .....                | .....          | 17-18                          | 35-60†      |
| Steel, Cast Carbon, Class 70,000 Normalized                   | 70   | 38                  | .....                | .....          | 30                             | 28          |
| Steel, Cast Low Alloy, Class 100,000, Normalized and Tempered | 100  | 68                  | .....                | .....          | 29-30                          | 20          |
| Steel, Cast Low Alloy, Class 120,000, Quenched and Tempered   | 120  | 95                  | .....                | .....          | 29-30                          | 16          |
| Steel, Cast Low Alloy, Class 200,000, Quenched and Tempered   | 200  | 170                 | .....                | .....          | 29-30                          | 5           |
| Steel, Sheets   | 48   | 25                  | .....                | .....          | 29-30                          | 18-27       |
| Steel, Stainless, Austenitic, Types 304, 316                  | 85   | 35                  | .....                | .....          | 28                             | 55-60       |
| Steel, Stainless, Martensitic, Type 416                       | 75   | 40                  | .....                | .....          | 29                             | 30          |
| Steel, Structural, Bridge and Building, ASTM A7               | 60-72                                      | 33                  | 33▲                  | 45-54          | 29-30                          | 21          |
| Steel, Structural, High Strength, Low Alloy, ASTM A242        | 63-70                                      | 42-50               | 42-50▲               | 47-53          | 29-30                          | 18-24       |
| Zinc, Die Cast Alloy XXIII                                    | 41   | .....               | 60▲                  | 31             | .....                          | 10          |

† When hardened, strength values are higher, elongation less

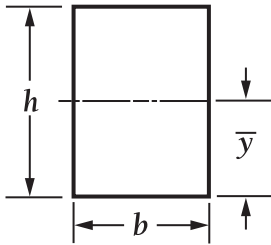
▲ Compression yield point

**Table 33: Properties of Sections**

$A$  = area  
 $I$  = moment of inertia  
 $J$  = polar moment of inertia

$Z$  = section modulus  $\pi$   
 $k$  = radius of gyration  
 $y$  = centroidal distance

### Rectangle



$$A = bh$$

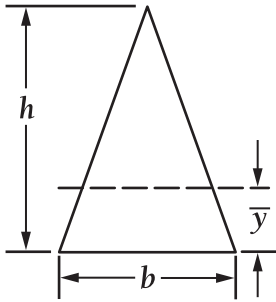
$$k = 0.289h$$

$$I = \frac{bh^3}{12}$$

$$\bar{y} = \frac{h}{2}$$

$$Z = \frac{bh^2}{6}$$

### Triangle



$$A = \frac{bh}{2}$$

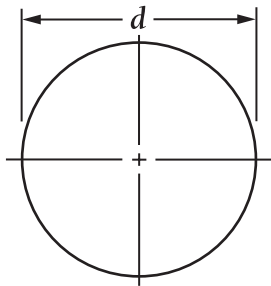
$$k = 0.236h$$

$$I = \frac{bh^3}{36}$$

$$\bar{y} = \frac{h}{3}$$

$$Z = \frac{bh^2}{24}$$

### Circle



$$A = \frac{\pi d^2}{4}$$

$$J = \frac{\pi d^4}{32}$$

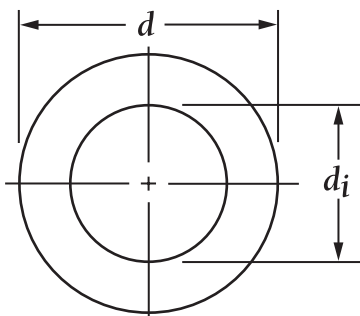
$$I = \frac{\pi d^4}{64}$$

$$k = \frac{d}{4}$$

$$Z = \frac{\pi d^3}{32}$$

$$\bar{y} = \frac{d}{2}$$

### Hollow Circle



$$A = \frac{\pi}{4} (d^2 - d_i^2)$$

$$J = \frac{\pi}{32} (d^4 - d_i^4)$$

$$I = \frac{\pi}{64} (d^4 - d_i^4)$$

$$k = \sqrt{\frac{d^2 - d_i^2}{16}}$$

$$Z = \frac{\pi}{32d} (d^4 - d_i^4)$$

$$\bar{y} = \frac{d}{2}$$

# ENGINEERING

**Table 34: Coefficients of Friction "f"**

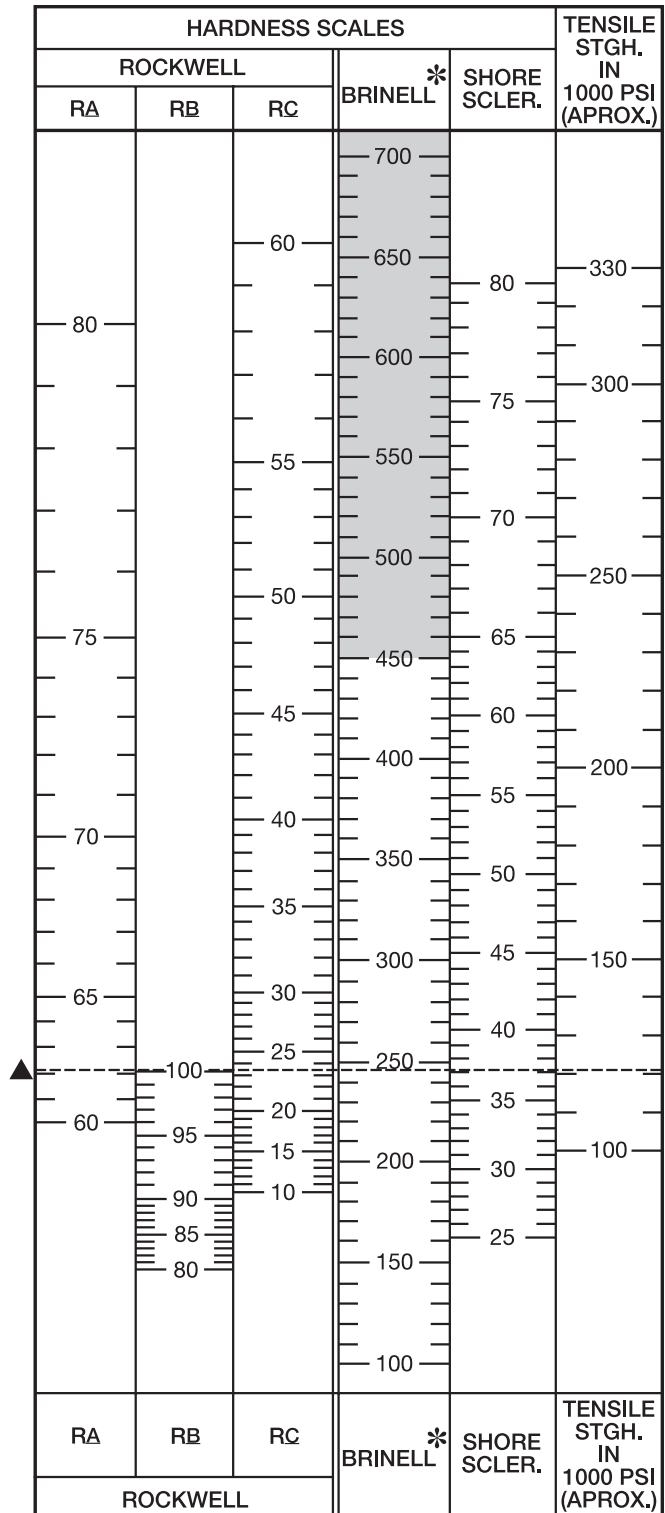
| Material                        | Static    |            | Sliding   |             |
|---------------------------------|-----------|------------|-----------|-------------|
|                                 | Dry       | Lubricated | Dry       | Lubricated  |
| Aluminum on aluminum            | 1.35      | ....       | ....      | ....        |
| Canvas belt on rubber lagging   | 0.30      | ....       | ....      | ....        |
| Canvas belt, stitched, on steel | ....      | ....       | 0.20      | 0.10        |
| Canvas belt, woven, on steel    | ....      | ....       | 0.22      | 0.10        |
| Cast iron on asbestos, fabric   | ....      | ....       | ....      | ....        |
| brake material                  | ....      | ....       | 0.35-0.40 | ....        |
| Cast iron on brass              | ....      | ....       | 0.30      | ....        |
| Cast iron on bronze             | ....      | ....       | 0.22      | 0.07-0.08   |
| Cast iron on cast iron          | 1.10      | ....       | 0.15      | 0.06-0.10   |
| Cast iron on copper             | 1.05      | ....       | 0.29      | ....        |
| Cast iron on lead               | ....      | ....       | 0.43      | ....        |
| Cast iron on leather            | 0.60      | ....       | ....      | 0.13-0.36   |
| Cast iron on oak (parallel)     | ....      | ....       | 0.30-0.50 | 0.07-0.20   |
| Cast iron on magnesium          | ....      | ....       | 0.25      | ....        |
| Cast iron on steel, mild        | ....      | 0.18       | 0.23      | 1/0/00 3:11 |
| Cast iron on tin                | ....      | ....       | 0.32      | ....        |
| Cast iron on zinc               | 0.85      | ....       | 0.21      | ....        |
| Earth on earth                  | 0.25-1.0  | ....       | ....      | ....        |
| Glass on glass                  | 0.94      | ....       | 0.40      | ....        |
| Hemp rope on wood               | 0.50-0.80 | ....       | 0.40-0.70 | ....        |
| Nickel on nickel                | 1.10      | ....       | 0.53      | 0.12        |
| Oak on leather (parallel)       | 0.50-0.60 | ....       | 0.30-0.50 | ....        |
| Oak on oak (parallel)           | 0.62      | ....       | 0.48      | 0.16        |
| Oak on oak (perpendicular)      | 0.54      | ....       | 0.32      | 0.07        |
| Rubber tire on pavement         | 0.8-0.9   | 0.6-0.7 *  | 0.75-0.85 | 0.5-0.7*    |
| Steel on ice                    | 0.03      | ....       | 0.01      | ....        |
| Steel, hard, on babbitt         | 0.42-0.70 | 0.08-0.25  | 0.33-0.35 | 0.05-0.16   |
| Steel, hard, on steel, hard     | 0.78      | 0.11-0.23  | 0.42      | 0.03-0.12   |
| Steel, mild, on aluminum        | 0.61      | ....       | 0.47      | ....        |
| Steel, mild, on brass           | 0.51      | ....       | 0.44      | ....        |
| Steel, mild, on bronze          | ....      | ....       | 0.34      | 0.17        |
| Steel, mild, on copper          | 0.53      | ....       | 0.36      | 0.18        |
| Steel, mild, on steel, mild     | 0.74      | ....       | 0.57      | 0.09-0.19   |
| Stone masonry on concrete       | 0.76      | ....       | ....      | ....        |
| Stone masonry on ground         | 0.65      | ....       | ....      | ....        |
| Wrought iron on bronze          | 0.19      | 0.07-0.08  | 0.18      | ....        |
| Wrought iron on wrought iron    | ....      | 0.11       | 0.44      | 0.08-0.10   |

\* Wet pavement

**Table 35: U.S. Standard Sheet Metal Gages**

| Gage No. | Thickness in Decimal Parts of an Inch | Gage No. | Thickness in Decimal Parts of an Inch |
|----------|---------------------------------------|----------|---------------------------------------|
| 1        | .2813                                 | 20       | .0359                                 |
| 2        | .2656                                 | 21       | .0329                                 |
| 3        | .2391                                 | 22       | .0299                                 |
| 4        | .2242                                 | 23       | .0269                                 |
| 5        | .2092                                 | 24       | .0239                                 |
| 6        | .1943                                 | 25       | .0209                                 |
| 7        | .1793                                 | 26       | .0179                                 |
| 8        | .1644                                 | 27       | .0164                                 |
| 9        | .1495                                 | 28       | .0149                                 |
| 10       | .1345                                 | 29       | .0135                                 |
| 11       | .1196                                 | 30       | .0120                                 |
| 12       | .1046                                 | 31       | .0109                                 |
| 13       | .0897                                 | 32       | .0102                                 |
| 14       | .0747                                 | 33       | .0094                                 |
| 15       | .0673                                 | 34       | .0086                                 |
| 16       | .0598                                 | 35       | .0078                                 |
| 17       | .0538                                 | 36       | .0070                                 |
| 18       | .0478                                 | 37       | .0066                                 |
| 19       | .0418                                 | 38       | .0063                                 |

**Hardness Comparison Chart**



\* Shaded area indicates values may vary depending on type of ball used.

▲ Example: A Brinell number of 245 is equal to 62 Rockwell "A", 100 Rockwell "B", 23 Rockwell "C", 37 Shore with a tensile of approximately 120,000 psi.

Trigonometric Formula

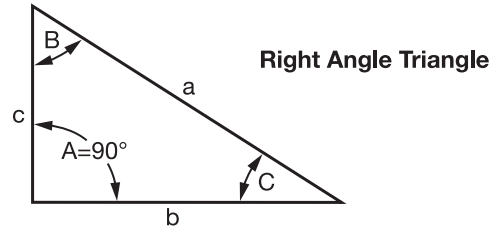
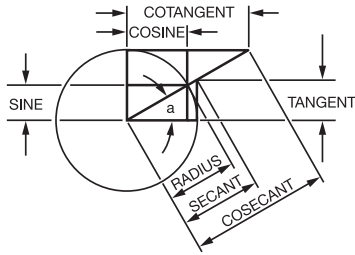


Table 36: Formulas for Finding Functions of Angles

|                                |             |
|--------------------------------|-------------|
| Side opposite<br>Hypotenuse    | = SINE      |
| Side adjacent<br>Hypotenuse    | = COSINE    |
| Side opposite<br>Side adjacent | = TANGENT   |
| Side adjacent<br>Side opposite | = COTANGENT |
| Hypotenuse<br>Side adjacent    | = SECANT    |
| Hypotenuse<br>Side opposite    | = COSECANT  |

Table 37: Formulas for Finding Sides of Right Angle Triangles with an Angle and Side Known

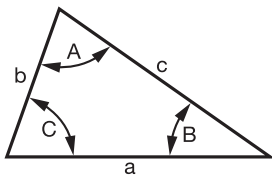
|  |   |
|--|---|
| To find:<br>Length of<br>side opposite | $\left\{ \begin{array}{l} \text{Hypotenuse} \times \text{Sine} \\ \text{Hypotenuse} \div \text{Cosecant} \\ \text{Side adjacent} \times \text{Tangent} \\ \text{Side adjacent} \div \text{Cotangent} \end{array} \right.$   |
| To find:<br>Length of<br>side adjacent | $\left\{ \begin{array}{l} \text{Hypotenuse} \times \text{Cosine} \\ \text{Hypotenuse} \div \text{Secant} \\ \text{Side opposite} \times \text{Cotangent} \\ \text{Side opposite} \div \text{Tangent} \end{array} \right.$   |
| To find:<br>Length of<br>Hypotenuse    | $\left\{ \begin{array}{l} \text{Side opposite} \times \text{Cosecant} \\ \text{Side opposite} \div \text{Sine} \\ \text{Side adjacent} \times \text{Secant} \\ \text{Side adjacent} \div \text{Cosine} \end{array} \right.$ |

Table 38: To Find Angles and Sides of Right Angle Triangles

| To Find Angles |               |            | To Find Angles |                            |                                |
|----------------|---------------|------------|----------------|----------------------------|--------------------------------|
| To Find:       | Formulas      |            | To Find:       | Formulas                   |                                |
| C              | $\frac{c}{a}$ | = Sine C   | a              | $\sqrt{b^2 + c^2}$         | ---                            |
| C              | $\frac{b}{a}$ | = Cosine C | a              | $c \times \text{Cosec. C}$ | $\frac{c}{\text{Sine C}}$      |
| C              | $\frac{c}{b}$ | = Tan. C   | a              | $c \times \text{Secant B}$ | $\frac{c}{\text{Cosine B}}$    |
| C              | $\frac{b}{c}$ | = Cotan C  | a              | $b \times \text{Cosec. B}$ | $\frac{b}{\text{Sine B}}$      |
| C              | $\frac{a}{b}$ | = Secant C | a              | $b \times \text{Secant C}$ | $\frac{b}{\text{Cosine C}}$    |
| C              | $\frac{a}{c}$ | = Cosec. C | b              | $\sqrt{a^2 + c^2}$         | ---                            |
| B              | $\frac{c}{a}$ | = Sine B   | b              | $a \times \text{Sine B}$   | $\frac{a}{\text{Cosecant B}}$  |
| B              | $\frac{c}{a}$ | = Cosine B | b              | $a \times \text{Cos. C}$   | $\frac{a}{\text{Secant C}}$    |
| B              | $\frac{b}{c}$ | = Tan. B   | b              | $c \times \text{Tan. B}$   | $\frac{c}{\text{Cotangent B}}$ |
| B              | $\frac{c}{d}$ | = Cotan. B | b              | $c \times \text{Cot. C}$   | $\frac{c}{\text{Tangent C}}$   |
| B              | $\frac{a}{c}$ | = Secant B | c              | $\sqrt{a^2 + b^2}$         | ---                            |
| B              | $\frac{a}{b}$ | = Cosec. B | c              | $a \times \text{Cos. B}$   | $\frac{a}{\text{Secant B}}$    |
|                |               |            | c              | $a \times \text{Sine C}$   | $\frac{a}{\text{Cosecant C}}$  |
|                |               |            | c              | $b \times \text{Cot. B}$   | $\frac{b}{\text{Tangent B}}$   |
|                |               |            | c              | $b \times \text{Tan. C}$   | $\frac{b}{\text{Cotangent C}}$ |

Table 39: To Find Angles and Sides of Oblique Angle Triangle

Oblique Angle Triangle



| To Find Angles and Sides of Oblique Angle Triangle |         |   |          |         |   |
|--|---------|---|----------|---------|---|
| To find:   | Known   | Formulas  | To Find: | Known   | Formulas  |
| C  | A, B    | $180^\circ - (A + B)$   | A        | B, C    | $180^\circ - (B + C)$                           |
| b  | a, B, A | $\frac{a \times \text{Sin. B}}{\text{Sin. A}}$                | Cos. A   | a, b, c | $\frac{b^2 + c^2 - a^2}{2bc}$                   |
| c  | a, A, C | $\frac{a \times \text{Sin. C}}{\text{Sin. A}}$                | Sin. C   | c, A, a | $\frac{c \times \text{Sin. A}}{a}$              |
| Tan. A   | a, C, b | $\frac{a \times \text{Sin. C}}{b - (a \times \text{Cos. C})}$ | Cot. B   | a, C, b | $\frac{a \times \text{Cosec. C}}{b}$            |
| B  | A, C    | $180^\circ - (A + C)$   | c        | b, C, B | $b \times \text{Sin. C} \times \text{Cosec. B}$ |
| Sin. B   | b, A, a | $\frac{b \times \text{Sin. A}}{a}$                            | ---      | ---     | -----   |



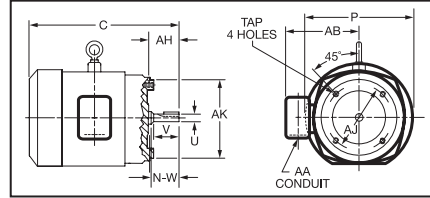
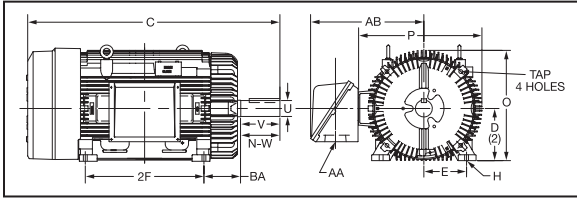
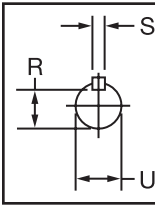
# ENGINEERING

## NEMA QUICK REFERENCE CHART

- Dimensions are for reference only
- Drawings represent standard TEFC general purpose motors

Contact DODGE at 1-864-297-4800 for "C" dimensions.

|  | FRAME |      | NEMA SHAFT |         | KEYSEAT DIMENSIONS |   | FRAME |      | NEMA SHAFT |         | KEYSEAT DIMENSIONS |   |
|--|-------|------|------------|---------|--------------------|---|-------|------|------------|---------|--------------------|---|
|  | U     | R    | U          | R       | R                  | S | U     | R    | U          | R       | R                  | S |
|  | 48    | 48   | 1/2        | 29/64   | FLAT               |   | 284T  | 286T | 1-7/8      | 1-19/32 | 1/2                |   |
|  | 56    | 56   | 5/8        | 33/64   | 3/16               |   | 324T  | 326T | 2-1/8      | 1-27/32 | 1/2                |   |
|  | 143T  | 145T | 7/8        | 49/64   | 3/16               |   | 364T  | 365T | 2-3/8      | 2-1/64  | 5/8                |   |
|  | 182T  | 184T | 1-1/8      | 63/64   | 1/4                |   | 404T  | 405T | 2-7/8      | 2-29/64 | 3/4                |   |
|  | 213T  | 215T | 1-3/8      | 1-13/64 | 5/16               |   | 444T  | 445T | 3-3/8      | 2-7/8   | 7/8                |   |
|  | 254T  | 256T | 1-5/8      | 1-13/32 | 3/8                |   | 447T  | 449T | 3-3/8      | 2-7/8   | 7/8                |   |



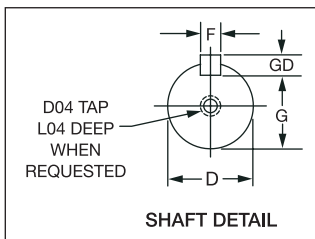
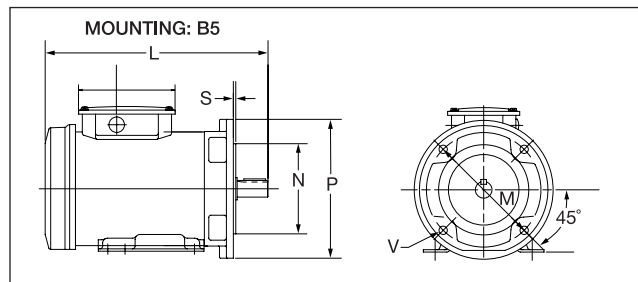
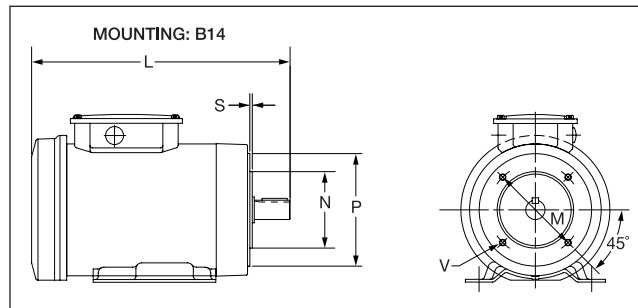
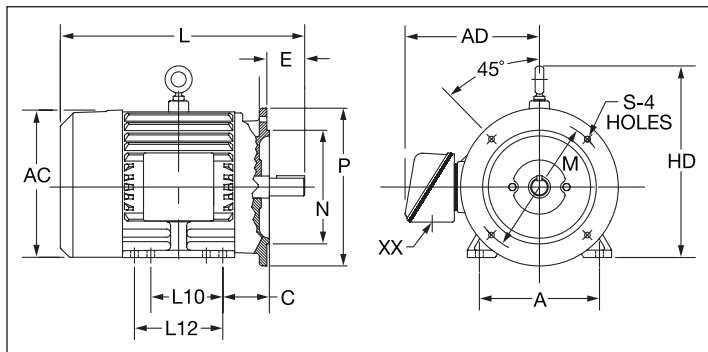
| NEMA C-FACE    | BA Dimensions |
|----------------|---------------|
| 143TC - 145TC  | 2-3/4         |
| 182TC - 184 TC | 3-1/2         |
| 213TC - 215TC  | 4-1/4         |
| 254TC - 256TC  | 4-3/4         |

| NEMA Frame | D     | E      | 2F     | H          | N-W   | O        | P      | U     | Keyway    | V     | AA    | AB       | AH      | AJ    | AK     | BA    | Tap Size |
|------------|-------|--------|--------|------------|-------|----------|--------|-------|-----------|-------|-------|----------|---------|-------|--------|-------|----------|
| 48         | 3     | 2-1/8  | 2-3/4  | 11/32 SLOT | 1-1/2 | 5-13/16  | 5-5/8  | 1/2   |           | 1-1/2 | 1/2   | -        | 1-11/16 | 3-3/4 | 3      | 2-1/2 | 1/4-20   |
| 56         | 3-1/2 | 2-7/16 | 3      | 11/32      | 1-7/8 | 8-9/16   | 7-9/32 | 5/8   | 3/16x3/32 | 1-7/8 | 1/2   | -        | 2-1/16  | 5-7/8 | 4-1/4  | 2-3/4 | 3/8-16   |
| 56H        | 3-1/2 | 2-7/16 | 5      | SLOT       | 1-7/8 | 8-9/16   | 7-9/32 | 5/8   | 3/16x3/32 | 1-7/8 | 1/2   | -        | 2-1/16  | 5-7/8 | 4-1/2  | 2-3/4 | 3/8-16   |
| 143T       | 3-1/2 | 2-7/16 | 4      | 11/32      | 2-1/4 | 8-9/16   | 7-9/32 | 7/8   | 3/16x3/32 | 2-1/4 | 3/4   | -        | 2-1/8   | 5-7/8 | 4-1/2  | 2-1/4 | 3/8-16   |
| 145T       | 3-1/2 | 2-3/4  | 5      | 11/32      | 2-1/4 | 8-9/16   | 7-9/32 | 7/8   | 3/16x3/32 | 2-1/4 | 3/4   | -        | 2-1/8   | 5-7/8 | 4-1/2  | 2-1/4 | 3/8-16   |
| 182        | 4-1/2 | 3-3/4  | 4-1/2  | 13/32      | 2-1/4 | 9-7/8    | 9-1/4  | 7/8   | 3/16x3/32 | 2-1/4 | 3/4   | 8-7/16   | 2-1/8   | 5-7/8 | 4-1/2  | 2-3/4 | 3/8-16   |
| 184        | 4-1/2 | 3-3/4  | 5-1/2  | 13/32      | 2-1/4 | 9-7/8    | 9-1/4  | 7/8   | 3/16x3/32 | 2-1/4 | 3/4   | 8-7/16   | 2-1/8   | 5-7/8 | 4-1/2  | 2-3/4 | 3/8-16   |
| 182T       | 4-1/2 | 3-3/4  | 4-1/2  | 13/32      | 2-3/4 | 9-7/8    | 9-1/4  | 1-1/8 | 1/4x1/8   | 2-3/4 | 3/4   | 7-13/16  | 2-5/8   | 7-1/4 | 8-1/2  | 2-3/4 | 1/2-13   |
| 184T       | 4-1/2 | 3-3/4  | 5-1/2  | 13/32      | 2-3/4 | 9-7/8    | 9-1/4  | 1-1/8 | 1/4x1/8   | 2-3/4 | 3/4   | 7-13/16  | 2-5/8   | 7-1/4 | 8-1/2  | 2-3/4 | 1/2-13   |
| 213        | 5-1/4 | 4-1/4  | 5-1/2  | 13/32      | 3     | 11-1/4   | 10-1/2 | 1-1/8 | 1/4x1/8   | 3     | 1     | 9-5/16   | 2-3/4   | 7-1/4 | 8-1/2  | 3-1/2 | 1/2-13   |
| 215        | 5-1/4 | 4-1/4  | 7      | 13/32      | 3     | 11-1/4   | 10-1/2 | 1-1/8 | 1/4x1/8   | 3     | 1     | 9-5/16   | 2-3/4   | 7-1/4 | 8-1/2  | 3-1/2 | 1/2-13   |
| 213T       | 5-1/4 | 4-1/4  | 5-1/2  | 13/32      | 3-3/8 | 11-1/4   | 10-1/2 | 1-3/8 | 5/16x5/32 | 3-3/8 | 1     | 8-11/16  | 3-1/8   | 7-1/4 | 8-1/2  | 3-1/2 | 1/2-13   |
| 215T       | 5-1/4 | 4-1/4  | 7      | 13/32      | 3-3/8 | 11-1/4   | 10-1/2 | 1-3/8 | 5/16x5/32 | 3-3/8 | 1     | 8-11/16  | 3-1/8   | 7-1/4 | 8-1/2  | 3-1/2 | 1/2-13   |
| 254U       | 6-1/4 | 5      | 8-1/4  | 17/32      | 3-3/4 | 13-1/4   | 13-1/4 | 1-3/8 | 5/16x5/32 | 3-3/4 | 1-1/4 | 10-13/16 | 3-1/2   | 7-1/4 | 8-1/2  | 4-1/4 | 1/2-13   |
| 256U       | 6-1/4 | 5      | 10     | 17/32      | 3-3/4 | 13-1/4   | 13-1/4 | 1-3/8 | 5/16x5/32 | 3-3/4 | 1-1/4 | 10-13/16 | 3-1/2   | 7-1/4 | 8-1/2  | 4-1/4 | 1/2-13   |
| 254T       | 6-1/4 | 5      | 8-1/4  | 17/32      | 4     | 13-1/4   | 13-1/4 | 1-5/8 | 3/8x3/16  | 4     | 1-1/4 | 10-3/4   | 3-3/4   | 7-1/4 | 8-1/2  | 4-1/4 | 1/2-13   |
| 256T       | 6-1/4 | 5      | 10     | 17/32      | 4     | 13-1/4   | 13-1/4 | 1-5/8 | 3/8x3/16  | 4     | 1-1/4 | 10-3/4   | 3-3/4   | 7-1/4 | 8-1/2  | 4-1/4 | 1/2-13   |
| 284U       | 7     | 5-1/2  | 9-1/2  | 17/32      | 4-7/8 | 14-3/4   | 14-7/8 | 1-5/8 | 3/8x3/16  | 4-7/8 | 1-1/2 | 12-5/8   | 4-5/8   | 9     | 10-1/2 | 4-3/4 | 1/2-13   |
| 286U       | 7     | 5-1/2  | 11     | 17/32      | 4-7/8 | 14-3/4   | 14-7/8 | 1-5/8 | 3/8x3/16  | 4-7/8 | 1-1/2 | 12-5/8   | 4-5/8   | 9     | 10-1/2 | 4-3/4 | 1/2-13   |
| 284T       | 7     | 5-1/2  | 9-1/2  | 17/32      | 4-5/8 | 14-3/4   | 14-7/8 | 1-7/8 | 1/2x1/4   | 4-5/8 | 1-1/2 | 12-3/4   | 4-3/8   | 9     | 10-1/2 | 4-3/4 | 1/2-13   |
| 286T       | 7     | 5-1/2  | 11     | 17/32      | 4-5/8 | 14-3/4   | 14-7/8 | 1-7/8 | 1/2x1/4   | 4-5/8 | 1-1/2 | 12-3/4   | 4-3/8   | 9     | 10-1/2 | 4-3/4 | 1/2-13   |
| 284TS      | 7     | 5-1/2  | 9-1/2  | 17/32      | 3-1/4 | 14-3/4   | 14-7/8 | 1-5/8 | 3/8x3/16  | 3-1/4 | 1-1/2 | 12-3/4   | 3       | 9     | 10-1/2 | 4-3/4 | 1/2-13   |
| 286TS      | 7     | 5-1/2  | 11     | 17/32      | 3-1/4 | 14-3/4   | 14-7/8 | 1-5/8 | 3/8x3/16  | 3-1/4 | 1-1/2 | 12-3/4   | 3       | 9     | 10-1/2 | 4-3/4 | 1/2-13   |
| 324U       | 8     | 6-1/4  | 10-1/2 | 21/32      | 5-5/8 | 16-11/16 | 17     | 1-7/8 | 1/2x1/4   | 5-5/8 | 2     | 15-7/16  | 5-3/8   | 11    | 12-1/2 | 5-1/4 | 5/8-11   |
| 326U       | 8     | 6-1/4  | 12     | 21/32      | 5-5/8 | 16-11/16 | 17     | 1-7/8 | 1/2x1/4   | 5-5/8 | 2     | 15-7/16  | 5-3/8   | 11    | 12-1/2 | 5-1/4 | 5/8-11   |
| 324T       | 8     | 6-1/4  | 10-1/2 | 21/32      | 5-1/4 | 16-11/16 | 17     | 2-1/8 | 1/2x1/4   | 5-1/4 | 2     | 15-3/16  | 5       | 11    | 12-1/2 | 5-1/4 | 5/8-11   |
| 326T       | 8     | 6-1/4  | 12     | 21/32      | 5-1/4 | 16-11/16 | 17     | 2-1/8 | 1/2x1/4   | 5-1/4 | 2     | 15-3/16  | 5       | 11    | 12-1/2 | 5-1/4 | 5/8-11   |
| 324TS      | 8     | 6-1/4  | 10-1/2 | 21/32      | 3-3/4 | 16-11/16 | 17     | 1-7/8 | 1/2x1/4   | 3-3/4 | 2     | 15-3/16  | 3-1/2   | 11    | 12-1/2 | 5-1/4 | 5/8-11   |
| 326TS      | 8     | 6-1/4  | 12     | 21/32      | 3-3/4 | 16-11/16 | 17     | 1-7/8 | 1/2x1/4   | 3-3/4 | 2     | 15-3/16  | 3-1/2   | 11    | 12-1/2 | 5-1/4 | 5/8-11   |
| 364U       | 9     | 7      | 11-1/4 | 21/32      | 6-3/8 | 18-1/2   | 19-1/2 | 2-1/8 | 1/2x1/4   | 6-3/8 | 2-1/2 | 18       | 6-1/8   | 11    | 12-1/2 | 5-7/8 | 5/8-11   |
| 365U       | 9     | 7      | 12-1/4 | 21/32      | 6-3/8 | 18-1/2   | 19-1/2 | 2-1/8 | 1/2x1/4   | 6-3/8 | 2-1/2 | 18       | 6-1/8   | 11    | 12-1/2 | 5-7/8 | 5/8-11   |
| 364T       | 9     | 7      | 11-1/4 | 21/32      | 5-7/8 | 18-1/2   | 19-1/2 | 2-3/8 | 5/8x5/16  | 5-7/8 | 2-1/2 | 18-1/16  | 5-5/8   | 11    | 12-1/2 | 5-7/8 | 5/8-11   |
| 365T       | 9     | 7      | 12-1/4 | 21/32      | 5-7/8 | 18-1/2   | 19-1/2 | 2-3/8 | 5/8x5/16  | 5-7/8 | 2-1/2 | 18-1/16  | 5-5/8   | 11    | 12-1/2 | 5-7/8 | 5/8-11   |
| 364TS      | 9     | 7      | 11-1/4 | 21/32      | 3-3/4 | 18-1/2   | 19-1/2 | 1-7/8 | 1/2x1/4   | 3-3/4 | 2-1/2 | 18-1/16  | 3-1/2   | 11    | 12-1/2 | 5-7/8 | 5/8-11   |
| 365TS      | 9     | 7      | 12-1/4 | 21/32      | 3-3/4 | 18-1/2   | 19-1/2 | 1-7/8 | 1/2x1/4   | 3-3/4 | 2-1/2 | 18-1/16  | 3-1/2   | 11    | 12-1/2 | 5-7/8 | 5/8-11   |
| 404U       | 10    | 8      | 12-1/4 | 13/16      | 7-1/8 | 21-5/16  | 22-1/2 | 2-3/8 | 5/8x5/16  | 7-1/8 | 3     | 19-1/4   | 6-7/8   | 11    | 12-1/2 | 6-5/8 | 5/8-11   |
| 405U       | 10    | 8      | 13-3/4 | 13/16      | 7-1/8 | 21-5/16  | 22-1/2 | 2-3/8 | 5/8x5/16  | 7-1/8 | 3     | 19-1/4   | 6-7/8   | 11    | 12-1/2 | 6-5/8 | 5/8-11   |
| 404T       | 10    | 8      | 12-1/4 | 13/16      | 7-1/4 | 21-5/16  | 22-1/2 | 2-7/8 | 3/4x3/8   | 7-1/4 | 3     | 19-5/16  | 7       | 11    | 12-1/2 | 6-5/8 | 5/8-11   |
| 405T       | 10    | 8      | 13-3/4 | 13/16      | 7-1/4 | 21-5/16  | 22-1/2 | 2-7/8 | 3/4x3/8   | 7-1/4 | 3     | 19-5/16  | 7       | 11    | 12-1/2 | 6-5/8 | 5/8-11   |
| 404TS      | 10    | 8      | 12-1/4 | 13/16      | 4-1/4 | 21-5/16  | 22-1/2 | 2-1/8 | 1/2x1/4   | 4-1/4 | 3     | 19-5/16  | 4       | 11    | 12-1/2 | 6-5/8 | 5/8-11   |
| 405TS      | 10    | 8      | 13-3/4 | 13/16      | 4-1/4 | 21-5/16  | 22-1/2 | 2-1/8 | 1/2x1/4   | 4-1/4 | 3     | 19-5/16  | 4       | 11    | 12-1/2 | 6-5/8 | 5/8-11   |
| 444U       | 11    | 9      | 14-1/2 | 13/16      | 8-5/8 | 23-3/8   | 25-1/4 | 2-7/8 | 3/4x3/8   | 8-5/8 | 3     | 22-3/16  | 8-3/8   | 14    | 16     | 7-1/2 | 5/8-11   |
| 445U       | 11    | 9      | 16-1/2 | 13/16      | 8-5/8 | 23-3/8   | 25-1/4 | 2-7/8 | 3/4x3/8   | 8-5/8 | 3     | 22-3/16  | 8-3/8   | 14    | 16     | 7-1/2 | 5/8-11   |
| 444T       | 11    | 9      | 14-1/2 | 13/16      | 8-1/2 | 23-3/8   | 25-1/4 | 3-3/8 | 7/8x7/16  | 8-1/2 | 3     | 23-3/8   | 8-1/4   | 14    | 16     | 7-1/2 | 5/8-11   |
| 445T       | 11    | 9      | 16-1/2 | 13/16      | 8-1/2 | 23-3/8   | 25-1/4 | 3-3/8 | 7/8x7/16  | 8-1/2 | 3     | 23-3/8   | 8-1/4   | 14    | 16     | 7-1/2 | 5/8-11   |
| 447T       | 11    | 9      | 20     | 13/16      | 8-1/2 | 23-5/8   | 26     | 3-3/8 | 7/8x7/16  | 8-1/2 | 3     | 23-7/8   | 8-1/4   | 14    | 16     | 7-1/2 | 5/8-11   |
| 449T       | 11    | 9      | 25     | 13/16      | 8-1/2 | 23-5/8   | 26     | 3-3/8 | 7/8x7/16  | 8-1/2 | 3     | 23-7/8   | 8-1/4   | 14    | 16     | 7-1/2 | 5/8-11   |
| 444TS      | 11    | 9      | 14-1/2 | 13/16      | 4-3/4 | 23-3/8   | 25-1/4 | 2-3/8 | 5/8x5/16  | 4-3/4 | 3     | 23-3/8   | 4-1/2   | 14    | 16     | 7-1/2 | 5/8-11   |
| 445TS      | 11    | 9      | 16-1/2 | 13/16      | 4-3/4 | 23-3/8   | 25-1/4 | 2-3/8 | 5/8x5/16  | 4-3/4 | 3     | 23-3/8   | 4-1/2   | 14    | 16     | 7-1/2 | 5/8-11   |
| 447TS      | 11    | 9      | 20     | 13/16      | 4-3/4 | 23-5/8   | 26     | 2-3/8 | 5/8x5/16  | 4-3/4 | 4 NPT | 23-7/8   | 4-1/2   | 14    | 16     | 7-1/2 | 5/8-11   |
| 449TS      | 11    | 9      | 25     | 13/16      | 4-3/4 | 23-5/8   | 26     | 2-3/8 | 5/8x5/16  | 4-3/4 | 4 NPT | 23-7/8   | 4-1/2   | 14    | 16     | 7-1/2 | 5/8-11   |

## IEC QUICK REFERENCE CHART

- Dimensions are for reference only
- Drawings represent standard TEFC general purpose motors

Contact DODGE at 1-864-297-4800 for "C" dimensions.



| KEY AND KEYSEAT DIMENSIONS |    |      |    |    |       |    |      |    |    |
|----------------------------|----|------|----|----|-------|----|------|----|----|
| FRAME                      | D  | G    | F  | GD | FRAME | D  | G    | F  | GD |
| 71                         | 14 | 11   | 5  | 5  | 160   | 37 | 42   | 12 | 8  |
| 80                         | 19 | 15.5 | 6  | 6  | 180   | 48 | 42.5 | 14 | 9  |
| 90                         | 24 | 20   | 8  | 7  | 200   | 55 | 49   | 16 | 10 |
| 100                        | 28 | 24   | 8  | 7  | 225   | 60 | 53   | 18 | 11 |
| 112                        | 28 | 24   | 8  | 7  | 250   | 70 | 67.5 | 20 | 12 |
| 132                        | 38 | 33   | 10 | 8  | 280   | 80 | 71   | 22 | 14 |

| Frame | B3 RIGID BASE |     |     |       |      | SHAFT |    | B5 FLANGE |     |     |       |        | B14 FACE |     |     |     |     | GENERAL |     |    |
|-------|---------------|-----|-----|-------|------|-------|----|-----------|-----|-----|-------|--------|----------|-----|-----|-----|-----|---------|-----|----|
|       | A             | L10 | L12 | HD    | C    | E     | D  | N         | M   | P   | S     | V      | N        | M   | P   | S   | V   | AC      | AD  | XX |
| 71    | -             | -   | -   | -     | -    | -     | -  | 110       | 130 | 160 | "3,5" | "9,5"  | 70       | 85  | 105 | 2.5 | M6  | 143     | -   | 13 |
| 80    | 125           | 100 | -   | 188   | 50   | 40    | 19 | 130       | 165 | 200 | "3,5" | "11,5" | 80       | 100 | 120 | 3   | M6  | 143     | -   | 13 |
| 90    | 140           | 100 | 125 | 208   | 56   | 50    | 24 | 130       | 165 | 200 | "3,5" | "11,5" | 95       | 115 | 140 | 3   | M8  | 163     | -   | 13 |
| 100   | 160           | 112 | 140 | 229   | 63   | 60    | 28 | 180       | 215 | 250 | 4     | 14     | 110      | 130 | 160 | 3.5 | M8  | 175     | -   | 19 |
| 112S  | 190           | 114 | -   | 301.8 | 71.4 | 60    | 28 | 180       | 215 | 250 | 4     | 14     | 110      | 130 | 160 | 3.5 | M8  | 243     | 210 | 32 |
| 112M  | 190           | -   | 140 | 301.8 | 71.4 | 60    | 28 | 180       | 215 | 250 | 4     | 14     | 110      | 130 | 160 | 3.5 | M8  | 243     | 210 | 32 |
| 132S  | 216           | 140 | -   | 336.6 | 88.9 | 80    | 38 | 230       | 265 | 300 | 4     | 14     | 130      | 165 | 200 | 3.5 | M8  | 286     | 243 | 32 |
| 132M  | 216           | -   | 178 | 336.6 | 88.9 | 80    | 38 | 230       | 265 | 300 | 4     | 14     | 130      | 165 | 200 | 3.5 | M8  | 286     | 243 | 32 |
| 160M  | 254           | 210 | -   | 399   | 108  | 110   | 42 | 250       | 300 | 350 | 5     | 18     | 180      | 215 | 250 | 4   | M12 | 324     | 320 | 40 |
| 160L  | 254           | -   | 254 | 399   | 108  | 110   | 42 | 250       | 300 | 350 | 5     | 18     | 180      | 215 | 250 | 4   | M12 | 324     | 320 | 40 |
| 180M  | 279           | 241 | -   | 436   | 121  | 110   | 48 | 250       | 300 | 350 | 5     | 18     | 398      | 355 | 40  |     |     | 398     | 355 | 40 |
| 180L  | 279           | -   | 279 | 436   | 121  | 110   | 48 | 250       | 300 | 350 | 5     | 18     | 398      | 355 | 40  |     |     | 398     | 355 | 40 |
| 200M  | 318           | 267 | -   | 486   | 133  | 110   | 55 | 300       | 350 | 400 | 5     | 18     | 442      | 445 | 50  |     |     | 442     | 445 | 50 |
| 200L  | 318           | -   | 305 | 486   | 133  | 110   | 55 | 300       | 350 | 400 | 5     | 18     | 442      | 445 | 50  |     |     | 442     | 445 | 50 |
| 225S  | 356           | 286 | -   | 545   | 149  | 140   | 60 | 350       | 400 | 450 | 5     | 18     | 490      | 470 | 50  |     |     | 490     | 470 | 50 |
| 225M  | 356           | -   | 311 | 545   | 149  | 140   | 60 | 350       | 400 | 450 | 5     | 18     | 490      | 470 | 50  |     |     | 490     | 470 | 50 |
| 250S  | 406           | 311 | -   | 616   | 168  | 140   | 65 |           |     |     |       |        |          |     |     |     |     | 600     | 510 | 63 |
| 250M  | 406           | -   | 349 | 616   | 168  | 140   | 65 |           |     |     |       |        |          |     |     |     |     | 600     | 535 | 63 |
| 280S  | 457           | 368 | -   | 677   | 190  | 140   | 75 |           |     |     |       |        |          |     |     |     |     | 650     | 535 | 63 |
| 280M  | 457           | -   | 419 | 677   | 190  | 140   | 75 |           |     |     |       |        |          |     |     |     |     | 650     | 535 | 63 |
| 280K  | 457           | 500 | -   | 677   | 190  | 140   | 75 |           |     |     |       |        |          |     |     |     |     | 650     | 535 | 63 |
| 280H  | 457           | 630 | -   | 677   | 190  | 140   | 75 |           |     |     |       |        |          |     |     |     |     | 650     | 535 | 63 |
| L280H | 457           | 635 | -   | 677   | 202  | 205   | 75 |           |     |     |       |        |          |     |     |     |     | 650     | 535 | 63 |

**LEGEND**  
Metric Dimensions in MM  
1 mm = .03937"



# NOTES

---

Conveyor Components

Engineering

Part Number Index

Keyword Index

# PART NUMBER INDEX



| Part Number | Page   | Part Number | Page  | Part Number | Page   | Part Number | Page   | Part Number | Page   |
|-------------|--------|-------------|-------|-------------|--------|-------------|--------|-------------|--------|
| 1U12933     | PT11-7 | 8H95480     | PT9-2 | 000373      | PT1-7  | 000585      | PT1-13 | 000669      | PT1-13 |
| 8H95123     | PT9-2  | 8H95481     | PT9-2 | 000374      | PT1-7  | 000586      | PT1-13 | 000670      | PT1-13 |
| 8H95124     | PT9-2  | 8H95482     | PT9-2 | 000375      | PT1-7  | 000587      | PT1-13 | 000671      | PT1-13 |
| 8H95125     | PT9-2  | 8H95483     | PT9-2 | 000376      | PT1-7  | 000588      | PT1-13 | 000672      | PT1-13 |
| 8H95126     | PT9-2  | 8H95484     | PT9-2 | 000377      | PT1-9  | 000589      | PT1-13 | 000673      | PT1-13 |
| 8H95127     | PT9-2  | 8H95485     | PT9-2 | 000378      | PT1-9  | 000590      | PT1-13 | 000674      | PT1-13 |
| 8H95128     | PT9-2  | 8H95486     | PT9-2 | 000379      | PT1-9  | 000591      | PT1-13 | 000675      | PT1-13 |
| 8H95133     | PT9-2  | 8H95488     | PT9-2 | 000380      | PT1-7  | 000592      | PT1-13 | 000676      | PT1-13 |
| 8H95134     | PT9-2  | 8H95489     | PT9-2 | 000381      | PT1-7  | 000593      | PT1-13 | 000677      | PT1-13 |
| 8H95135     | PT9-2  | 8H95490     | PT9-2 | 000423      | PT4-9  | 000594      | PT1-13 | 000678      | PT1-13 |
| 8H95137     | PT9-2  | 8H95491     | PT9-2 | 000424      | PT4-9  | 000595      | PT1-13 | 000679      | PT1-13 |
| 8H95139     | PT9-2  | 8H95492     | PT9-2 | 000426      | PT4-9  | 000596      | PT1-13 | 000680      | PT1-13 |
| 8H95140     | PT9-2  | 8H95493     | PT9-2 | 000427      | PT4-9  | 000597      | PT1-13 | 000681      | PT1-13 |
| 8H95142     | PT9-2  | 8H95494     | PT9-2 | 000429      | PT4-9  | 000598      | PT1-13 | 000682      | PT1-13 |
| 8H95143     | PT9-2  | 8H95495     | PT9-2 | 000430      | PT4-9  | 000599      | PT1-13 | 000683      | PT1-13 |
| 8H95145     | PT9-2  | 8H95496     | PT9-2 | 000431      | PT4-9  | 000600      | PT1-13 | 000684      | PT1-13 |
| 8H95148     | PT9-2  | 8H95497     | PT9-2 | 000432      | PT4-9  | 000601      | PT1-13 | 000685      | PT1-13 |
| 8H95149     | PT9-2  | 8H95705     | PT9-2 | 000433      | PT4-9  | 000602      | PT1-13 | 000686      | PT1-13 |
| 8H95153     | PT9-2  | 8H95740     | PT9-2 | 000434      | PT4-9  | 000603      | PT1-13 | 000687      | PT1-13 |
| 8H95154     | PT9-2  | 000251      | PT1-7 | 000435      | PT4-9  | 000604      | PT1-13 | 000688      | PT1-13 |
| 8H95155     | PT9-2  | 000252      | PT1-7 | 000436      | PT4-9  | 000605      | PT1-13 | 000689      | PT1-13 |
| 8H95156     | PT9-2  | 000253      | PT1-7 | 000437      | PT4-9  | 000606      | PT1-13 | 000690      | PT1-13 |
| 8H95157     | PT9-2  | 000254      | PT1-7 | 000438      | PT4-9  | 000607      | PT1-13 | 000691      | PT1-13 |
| 8H95159     | PT9-2  | 000255      | PT1-7 | 000439      | PT4-9  | 000608      | PT1-13 | 000692      | PT1-13 |
| 8H95162     | PT9-2  | 000256      | PT1-7 | 000440      | PT4-9  | 000609      | PT1-13 | 000693      | PT1-13 |
| 8H95163     | PT9-2  | 000257      | PT1-7 | 000441      | PT4-9  | 000610      | PT1-13 | 000694      | PT1-13 |
| 8H95170     | PT9-2  | 000258      | PT1-7 | 000442      | PT4-9  | 000611      | PT1-13 | 000695      | PT1-13 |
| 8H95171     | PT9-2  | 000259      | PT1-7 | 000443      | PT4-9  | 000612      | PT1-13 | 000696      | PT1-13 |
| 8H95172     | PT9-2  | 000260      | PT1-7 | 000444      | PT4-9  | 000613      | PT1-13 | 000697      | PT1-13 |
| 8H95173     | PT9-2  | 000261      | PT1-7 | 000445      | PT4-9  | 000614      | PT1-13 | 000698      | PT1-13 |
| 8H95174     | PT9-2  | 000262      | PT1-7 | 000445      | PT4-9  | 000615      | PT1-13 | 000699      | PT1-13 |
| 8H95175     | PT9-2  | 000263      | PT1-7 | 000455      | PT4-9  | 000616      | PT1-13 | 000700      | PT1-13 |
| 8H95177     | PT9-2  | 000264      | PT1-7 | 000457      | PT4-9  | 000617      | PT1-13 | 000701      | PT1-13 |
| 8H95178     | PT9-2  | 000265      | PT1-7 | 000458      | PT4-9  | 000618      | PT1-13 | 000702      | PT1-13 |
| 8H95180     | PT9-2  | 000266      | PT1-7 | 000460      | PT4-9  | 000619      | PT1-13 | 000703      | PT1-13 |
| 8H95182     | PT9-2  | 000267      | PT1-7 | 000461      | PT4-9  | 000620      | PT1-13 | 000704      | PT1-19 |
| 8H95183     | PT9-2  | 000268      | PT1-7 | 000462      | PT4-9  | 000621      | PT1-13 | 000705      | PT1-19 |
| 8H95184     | PT9-2  | 000269      | PT1-7 | 000463      | PT4-9  | 000622      | PT1-13 | 000706      | PT1-19 |
| 8H95185     | PT9-2  | 000270      | PT1-7 | 000464      | PT4-9  | 000623      | PT1-13 | 000707      | PT1-19 |
| 8H95187     | PT9-2  | 000271      | PT1-7 | 000465      | PT4-9  | 000624      | PT1-13 | 000708      | PT1-19 |
| 8H95192     | PT9-2  | 000272      | PT1-7 | 000466      | PT4-9  | 000625      | PT1-13 | 000709      | PT1-19 |
| 8H95193     | PT9-2  | 000273      | PT1-7 | 000467      | PT4-9  | 000626      | PT1-13 | 000710      | PT1-19 |
| 8H95194     | PT9-2  | 000274      | PT1-7 | 000468      | PT4-9  | 000627      | PT1-13 | 000711      | PT1-19 |
| 8H95195     | PT9-2  | 000275      | PT1-7 | 000469      | PT4-9  | 000628      | PT1-13 | 000712      | PT1-19 |
| 8H95196     | PT9-2  | 000276      | PT1-9 | 000470      | PT4-9  | 000629      | PT1-13 | 000713      | PT1-19 |
| 8H95197     | PT9-2  | 000277      | PT1-9 | 000471      | PT4-9  | 000630      | PT1-13 | 000714      | PT1-19 |
| 8H95198     | PT9-2  | 000302      | PT1-7 | 000472      | PT4-9  | 000631      | PT1-13 | 000715      | PT1-19 |
| 8H95204     | PT9-2  | 000303      | PT1-7 | 000473      | PT4-9  | 000632      | PT1-13 | 000716      | PT1-19 |
| 8H95205     | PT9-2  | 000304      | PT1-7 | 000474      | PT4-9  | 000633      | PT1-13 | 000717      | PT1-19 |
| 8H95206     | PT9-2  | 000305      | PT1-7 | 000475      | PT4-9  | 000634      | PT1-13 | 000718      | PT1-19 |
| 8H95207     | PT9-2  | 000306      | PT1-7 | 000476      | PT4-9  | 000635      | PT1-13 | 000719      | PT1-19 |
| 8H95208     | PT9-2  | 000307      | PT1-7 | 000478      | PT1-13 | 000636      | PT1-13 | 000720      | PT1-19 |
| 8H95209     | PT9-2  | 000308      | PT1-7 | 000479      | PT1-19 | 000637      | PT1-13 | 000721      | PT1-19 |
| 8H95210     | PT9-2  | 000309      | PT1-7 | 000480      | PT1-13 | 000638      | PT1-13 | 000722      | PT1-19 |
| 8H95450     | PT9-2  | 000310      | PT1-7 | 000481      | PT1-13 | 000639      | PT1-13 | 000723      | PT1-19 |
| 8H95451     | PT9-2  | 000311      | PT1-7 | 000482      | PT1-13 | 000640      | PT1-13 | 000724      | PT1-19 |
| 8H95452     | PT9-2  | 000312      | PT1-7 | 000483      | PT1-13 | 000641      | PT1-13 | 000725      | PT1-19 |
| 8H95453     | PT9-2  | 000313      | PT1-7 | 000484      | PT1-13 | 000642      | PT1-13 | 000726      | PT1-19 |
| 8H95454     | PT9-2  | 000314      | PT1-7 | 000485      | PT1-13 | 000643      | PT1-13 | 000727      | PT1-19 |
| 8H95455     | PT9-2  | 000315      | PT1-7 | 000486      | PT1-13 | 000644      | PT1-13 | 000728      | PT1-19 |
| 8H95456     | PT9-2  | 000316      | PT1-7 | 000487      | PT1-13 | 000645      | PT1-13 | 000729      | PT1-19 |
| 8H95457     | PT9-2  | 000317      | PT1-7 | 000490      | PT1-19 | 000646      | PT1-13 | 000730      | PT1-19 |
| 8H95458     | PT9-2  | 000318      | PT1-7 | 000491      | PT1-19 | 000647      | PT1-13 | 000731      | PT1-19 |
| 8H95459     | PT9-2  | 000319      | PT1-7 | 000492      | PT1-19 | 000648      | PT1-13 | 000732      | PT1-19 |
| 8H95460     | PT9-2  | 000332      | PT1-9 | 000493      | PT1-19 | 000649      | PT1-13 | 000733      | PT1-19 |
| 8H95461     | PT9-2  | 000333      | PT1-9 | 000494      | PT1-19 | 000650      | PT1-13 | 000734      | PT1-19 |
| 8H95462     | PT9-2  | 000334      | PT1-9 | 000495      | PT1-19 | 000651      | PT1-13 | 000735      | PT1-19 |
| 8H95463     | PT9-2  | 000335      | PT1-9 | 000496      | PT1-19 | 000652      | PT1-13 | 000736      | PT1-19 |
| 8H95464     | PT9-2  | 000336      | PT1-9 | 000497      | PT1-19 | 000653      | PT1-13 | 000737      | PT1-19 |
| 8H95465     | PT9-2  | 000337      | PT1-9 | 000498      | PT1-19 | 000654      | PT1-13 | 000738      | PT1-19 |
| 8H95466     | PT9-2  | 000359      | PT1-7 | 000499      | PT1-19 | 000655      | PT1-13 | 000739      | PT1-19 |
| 8H95467     | PT9-2  | 000360      | PT1-7 | 000500      | PT1-19 | 000656      | PT1-13 | 000740      | PT1-19 |
| 8H95468     | PT9-2  | 000361      | PT1-7 | 000573      | PT1-13 | 000657      | PT1-13 | 000741      | PT1-19 |
| 8H95469     | PT9-2  | 000362      | PT1-7 | 000574      | PT1-19 | 000658      | PT1-13 | 000742      | PT1-19 |
| 8H95470     | PT9-2  | 000363      | PT1-7 | 000575      | PT1-13 | 000659      | PT1-13 | 000743      | PT1-19 |
| 8H95471     | PT9-2  | 000364      | PT1-7 | 000576      | PT1-13 | 000660      | PT1-13 | 000744      | PT1-19 |
| 8H95472     | PT9-2  | 000365      | PT1-7 | 000577      | PT1-13 | 000661      | PT1-13 | 000745      | PT1-19 |
| 8H95473     | PT9-2  | 000366      | PT1-7 | 000578      | PT1-13 | 000662      | PT1-13 | 000746      | PT1-19 |
| 8H95474     | PT9-2  | 000367      | PT1-7 | 000579      | PT1-13 | 000663      | PT1-13 | 000747      | PT1-19 |
| 8H95475     | PT9-2  | 000368      | PT1-7 | 000580      | PT1-13 | 000664      | PT1-13 | 000748      | PT1-19 |
| 8H95476     | PT9-2  | 000369      | PT1-7 | 000581      | PT1-13 | 000665      | PT1-13 | 000749      | PT1-19 |
| 8H95477     | PT9-2  | 000370      | PT1-7 | 000582      | PT1-13 | 000666      | PT1-13 | 000750      | PT1-19 |
| 8H95478     | PT9-2  | 000371      | PT1-7 | 000583      | PT1-13 | 000667      | PT1-13 | 000751      | PT1-19 |
| 8H95479     | PT9-2  | 000372      | PT1-7 | 000584      | PT1-13 | 000668      | PT1-13 | 000752      | PT1-19 |







# PART NUMBER INDEX

Conveyor Components

Engineering

Part Number Index

Keyword Index

| Part Number | Page           | Part Number | Page   | Part Number | Page                                   | Part Number | Page                           | Part Number | Page   |
|-------------|----------------|-------------|--------|-------------|--|-------------|--------------------------------|-------------|--|
| 007462      | PT1-55, PT1-82 | 009029      | PT1-75 | 010097      | PT9-7                                  | 010586      | PT1-23                         | 011105      | PT1-7, PT1-9, PT1-10, PT1-16, PT1-81                 |
| 007463      | PT1-55, PT1-82 | 009031      | PT1-75 | 010100      | PT9-7                                  | 010587      | PT1-23                         |             |  |
| 007464      | PT1-55, PT1-82 | 009042      | PT1-75 | 010104      | PT9-7                                  | 010588      | PT1-23                         | 011106      | PT1-7, PT1-9, PT1-16, PT1-25, PT1-28, PT1-81         |
| 007465      | PT1-55, PT1-82 | 009043      | PT1-75 | 010105      | PT9-7                                  | 010589      | PT1-23                         |             |  |
| 007466      | PT1-55, PT1-82 | 009044      | PT1-75 | 010107      | PT9-7                                  | 010590      | PT1-23                         | 011107      | PT1-16, PT1-25, PT1-28, PT1-81                       |
| 007467      | PT1-55, PT1-82 | 009050      | PT1-75 | 010110      | PT9-7                                  | 010591      | PT1-23                         |             |  |
| 007468      | PT1-55, PT1-82 | 009054      | PT1-75 | 010112      | PT9-7                                  | 010592      | PT1-23                         | 011108      | PT1-7, PT1-9, PT1-10, PT1-16, PT1-25, PT1-28, PT1-81 |
| 007469      | PT1-55, PT1-82 | 009199      | PT1-13 | 010114      | PT9-7                                  | 010593      | PT1-23                         |             |  |
| 007470      | PT1-55, PT1-82 | 009214      | PT1-13 | 010117      | PT9-7                                  | 010594      | PT1-23                         | 011109      | PT1-16, PT1-25, PT1-28, PT1-81                       |
| 007471      | PT1-55, PT1-82 | 009215      | PT1-13 | 010120      | PT9-7                                  | 010595      | PT1-23                         |             |  |
| 007472      | PT1-55, PT1-82 | 009223      | PT1-13 | 010123      | PT9-7                                  | 010598      | PT1-28                         | 011110      | PT1-7, PT1-9, PT1-10, PT1-16, PT1-25, PT1-28, PT1-81 |
| 007473      | PT1-55, PT1-82 | 009230      | PT1-13 | 010126      | PT9-7                                  | 010599      | PT1-28                         |             |  |
| 007474      | PT1-55, PT1-82 | 009419      | PT1-23 | 010127      | PT9-7                                  | 010601      | PT1-16                         | 011111      | PT1-16, PT1-25, PT1-28, PT1-81                       |
| 007475      | PT1-55, PT1-82 | 009420      | PT1-23 | 010128      | PT9-7                                  | 010602      | PT1-16                         |             |  |
| 007476      | PT1-55, PT1-82 | 009421      | PT1-23 | 010129      | PT9-7                                  | 010603      | PT1-16, PT1-31, PT1-33, PT3-12 | 011112      | PT1-16, PT1-25, PT1-28, PT1-81                       |
| 007477      | PT1-55, PT1-82 | 009422      | PT1-23 | 010130      | PT9-7                                  |             |                                |             |  |
| 007478      | PT1-55, PT1-82 | 009423      | PT1-23 | 010131      | PT9-7                                  | 010604      | PT1-16, PT1-31, PT1-33, PT3-12 | 011113      | PT1-16, PT1-25, PT1-28, PT1-81                       |
| 007479      | PT1-55, PT1-82 | 009424      | PT1-23 | 010189      | PT1-28                                 |             |                                | 011114      | PT1-16, PT1-25, PT1-28, PT1-81                       |
| 007520      | PT1-82         | 009425      | PT1-23 | 010190      | PT1-28                                 | 010605      | PT1-16                         |             |  |
| 007521      | PT1-82         | 009426      | PT1-23 | 010191      | PT1-28                                 | 010606      | PT1-16, PT1-31, PT1-33, PT3-12 | 011115      | PT1-16, PT1-25, PT1-28, PT1-81                       |
| 007522      | PT1-82         | 009427      | PT1-23 | 010192      | PT1-28                                 |             |                                | 011117      | PT1-16, PT1-25, PT1-28, PT1-81                       |
| 007523      | PT1-82         | 009428      | PT1-23 | 010193      | PT1-28                                 | 010607      | PT1-16, PT1-31, PT1-33, PT3-12 |             |  |
| 007524      | PT1-82         | 009429      | PT1-23 | 010194      | PT1-28                                 |             |                                | 011119      | PT1-16, PT1-25, PT1-28, PT1-81                       |
| 007525      | PT1-82         | 009430      | PT1-23 | 010195      | PT1-28                                 | 010608      | PT1-16                         | 011120      | PT1-16, PT1-25, PT1-28, PT1-81                       |
| 007526      | PT1-82         | 009431      | PT1-23 | 010196      | PT1-28                                 | 010657      | PT1-28                         |             |  |
| 007527      | PT1-82         | 009432      | PT1-23 | 010290      | PT1-31, PT1-33                         | 010658      | PT1-28                         | 011121      | PT1-16, PT1-25, PT1-28, PT1-81                       |
| 007528      | PT1-82         | 009433      | PT1-23 | 010291      | PT1-31, PT1-33                         | 010659      | PT1-28                         | 011124      | PT1-16, PT1-25, PT1-28, PT1-81                       |
| 007529      | PT1-82         | 009434      | PT1-23 | 010292      | PT1-31, PT1-33                         | 010660      | PT1-28                         |             |  |
| 007530      | PT1-82         | 009435      | PT1-23 | 010293      | PT1-31, PT1-33                         | 010675      | PT1-23                         | 011125      | PT1-16, PT1-25, PT1-28, PT1-81                       |
| 007531      | PT1-82         | 009436      | PT1-23 | 010294      | PT1-31, PT1-33                         | 010676      | PT1-23                         | 011132      | PT1-16, PT1-25, PT1-28, PT1-81                       |
| 007532      | PT1-82         | 009437      | PT1-23 | 010295      | PT1-31, PT1-33                         | 010677      | PT1-23                         | 011134      | PT1-16, PT1-31, PT1-33, PT3-12                       |
| 007533      | PT1-82         | 009438      | PT1-23 | 010296      | PT1-31, PT1-33                         | 010678      | PT1-23                         |             |  |
| 007534      | PT1-82         | 009439      | PT1-23 | 010297      | PT1-31, PT1-33                         | 010679      | PT1-23                         | 011137      | PT1-16, PT1-31, PT1-33, PT3-12                       |
| 007535      | PT1-82         | 009440      | PT1-23 | 010300      | PT1-25                                 | 010680      | PT1-23                         | 011140      | PT1-16, PT1-25, PT1-28, PT1-81                       |
| 007536      | PT1-82         | 009441      | PT1-23 | 010301      | PT1-25, PT1-32, PT1-34, PT3-12         | 010681      | PT1-23                         | 011144      | PT1-16, PT1-25, PT1-28, PT1-81                       |
| 007537      | PT1-82         | 009442      | PT1-23 |             |  | 010682      | PT1-23                         | 011145      | PT1-16, PT1-25, PT1-28, PT1-81                       |
| 008030      | PT1-73, PT3-11 | 009443      | PT1-23 | 010302      | PT1-25, PT1-32, PT1-34, PT3-12         | 010683      | PT1-23                         | 011152      | PT1-16, PT1-25, PT1-28, PT1-81                       |
| 008031      | PT1-73         | 009444      | PT1-23 |             |  | 010684      | PT1-23                         | 011154      | PT1-16, PT1-31, PT1-33, PT3-12                       |
| 008032      | PT1-73, PT3-11 | 009445      | PT1-23 | 010303      | PT1-25                                 | 010685      | PT1-23                         |             |  |
| 008033      | PT1-73, PT3-11 | 009446      | PT1-23 | 010304      | PT1-25, PT1-32, PT1-34, PT3-12         | 010686      | PT1-23                         | 011157      | PT1-16, PT1-31, PT1-33, PT3-12                       |
| 008034      | PT1-73, PT3-11 | 009447      | PT1-23 |             |  | 010687      | PT1-23                         | 011160      | PT1-16, PT1-25, PT1-28, PT1-81                       |
| 008035      | PT1-73, PT3-11 | 009448      | PT1-23 | 010305      | PT1-25, PT1-32, PT1-34, PT3-12         | 010688      | PT1-23                         | 011164      | PT1-16, PT1-25, PT1-28, PT1-81                       |
| 008036      | PT1-73         | 009449      | PT1-23 |             |  | 010689      | PT1-23                         | 011227      | PT1-31, PT1-32, PT1-33, PT1-34, PT1-81, PT3-12       |
| 008040      | PT1-73, PT3-11 | 009450      | PT1-23 | 010306      | PT1-25                                 | 010690      | PT1-23                         |             |  |
| 008041      | PT1-73, PT3-11 | 009451      | PT1-23 | 010508      | PT1-32, PT1-34                         | 010691      | PT1-23                         | 011228      | PT1-31, PT1-32, PT1-33, PT1-34, PT1-81, PT3-12       |
| 008042      | PT1-73, PT3-11 | 009452      | PT1-23 | 010509      | PT1-32, PT1-34                         | 010692      | PT1-23                         |             |  |
| 008043      | PT1-73, PT3-11 | 009453      | PT1-23 | 010528      | PT1-25, PT1-28                         | 010693      | PT1-23                         | 011230      | PT1-31, PT1-32, PT1-33, PT1-34, PT1-81, PT3-12       |
| 008044      | PT1-73, PT3-11 | 009454      | PT1-23 | 010529      | PT1-25, PT1-28                         | 010694      | PT1-23                         |             |  |
| 008045      | PT1-73, PT3-11 | 009455      | PT1-23 | 010530      | PT1-25, PT1-28, PT1-32, PT1-34, PT3-12 | 010695      | PT1-23                         | 011231      | PT1-31, PT1-32, PT1-33, PT1-34, PT1-81, PT3-12       |
| 008046      | PT1-73, PT3-11 | 009456      | PT1-23 |             |  | 010696      | PT1-23                         |             |  |
| 008047      | PT1-73, PT3-11 | 009457      | PT1-23 | 010531      | PT1-25, PT1-28, PT1-32, PT1-34         | 010697      | PT1-23                         | 011234      | PT1-31, PT1-32, PT1-33, PT1-34, PT1-81, PT3-12       |
| 008048      | PT1-73         | 010019      | PT9-7  |             |  | 010698      | PT1-23                         |             |  |
| 008049      | PT1-73         | 010020      | PT9-7  | 010532      | PT1-25, PT1-28                         | 010699      | PT1-23                         | 011236      | PT1-31, PT1-32, PT1-33, PT1-34, PT1-81               |
| 008057      | PT1-73, PT3-11 | 010021      | PT9-7  | 010533      | PT1-25, PT1-28                         | 010723      | PT1-22                         |             |  |
| 008058      | PT1-73, PT3-11 | 010024      | PT9-7  | 010539      | PT1-22                                 | 010975      | PT1-22                         | 011239      | PT1-31, PT1-32, PT1-33, PT1-34, PT1-81               |
| 008059      | PT1-73         | 010028      | PT9-7  | 010547      | PT1-22                                 | 010976      | PT1-22                         |             |  |
| 008060      | PT1-73         | 010029      | PT9-7  | 010548      | PT1-22                                 | 010977      | PT1-23                         | 011242      | PT1-31, PT1-32, PT1-33, PT1-34, PT1-81               |
| 009001      | PT1-75         | 010032      | PT9-7  | 010549      | PT1-22                                 | 010978      | PT1-23                         |             |  |
| 009002      | PT1-75         | 010036      | PT9-7  | 010550      | PT1-22                                 | 010979      | PT1-23                         | 011247      | PT1-33, PT1-34                                       |
| 009003      | PT1-75         | 010039      | PT9-7  | 010551      | PT1-22                                 | 010980      | PT1-23                         | 011248      | PT1-33, PT1-34                                       |
| 009004      | PT1-75         | 010043      | PT9-7  | 010552      | PT1-22                                 | 010981      | PT1-23                         | 011250      | PT1-33, PT1-34                                       |
| 009005      | PT1-75         | 010048      | PT9-7  | 010553      | PT1-22                                 | 010982      | PT1-23                         | 011251      | PT1-33, PT1-34                                       |
| 009006      | PT1-75         | 010051      | PT9-7  | 010554      | PT1-22                                 | 010983      | PT1-23                         | 011254      | PT1-33, PT1-34                                       |
| 009007      | PT1-75         | 010054      | PT9-7  | 010555      | PT1-22                                 | 010984      | PT1-23                         | 011256      | PT1-33, PT1-34                                       |
| 009008      | PT1-75         | 010055      | PT9-7  | 010556      | PT1-22                                 | 010985      | PT1-23                         | 011259      | PT1-33, PT1-34                                       |
| 009009      | PT1-75         | 010056      | PT9-7  | 010567      | PT1-23                                 | 010986      | PT1-23                         | 011262      | PT1-33, PT1-34                                       |
| 009010      | PT1-75         | 010057      | PT9-7  | 010568      | PT1-23                                 | 010987      | PT1-23                         | 011266      | PT1-81   |
| 009011      | PT1-75         | 010058      | PT9-7  | 010569      | PT1-23                                 | 010988      | PT1-23                         | 011267      | PT1-81   |
| 009012      | PT1-75         | 010059      | PT9-7  | 010570      | PT1-23                                 | 010989      | PT1-23                         | 011268      | PT1-81   |
| 009013      | PT1-75         | 010060      | PT9-7  | 010571      | PT1-23                                 | 010990      | PT1-23                         | 011269      | PT1-81   |
| 009014      | PT1-75         | 010061      | PT9-7  | 010572      | PT1-23                                 | 010991      | PT1-23                         | 011270      | PT1-81   |
| 009015      | PT1-75         | 010075      | PT9-7  | 010573      | PT1-23                                 | 010992      | PT1-23                         | 011271      | PT1-81   |
| 009016      | PT1-75         | 010076      | PT9-7  | 010574      | PT1-23                                 | 010993      | PT1-23                         | 011272      | PT1-81   |
| 009017      | PT1-75         | 010077      | PT9-7  | 010575      | PT1-23                                 | 010994      | PT1-23                         | 011273      | PT1-81   |
| 009019      | PT1-75         | 010078      | PT9-7  | 010576      | PT1-23                                 | 010995      | PT1-23                         | 011285      | PT1-10, PT1-81                                       |
| 009020      | PT1-75         | 010080      | PT9-7  | 010577      | PT1-23                                 | 010996      | PT1-23                         | 011286      | PT1-81   |
| 009021      | PT1-75         | 010081      | PT9-7  | 010578      | PT1-23                                 | 010997      | PT1-23                         | 011287      | PT1-81   |
| 009022      | PT1-75         | 010084      | PT9-7  | 010579      | PT1-23                                 | 010998      | PT1-23                         | 011288      | PT1-10, PT1-81                                       |
| 009023      | PT1-75         | 010085      | PT9-7  | 010580      | PT1-23                                 | 011000      | PT1-23                         | 011289      | PT1-81   |
| 009024      | PT1-75         | 010088      | PT9-7  | 010581      | PT1-23                                 | 011001      | PT1-23                         | 011290      | PT1-10, PT1-81                                       |
| 009025      | PT1-75         | 010089      | PT9-7  | 010582      | PT1-23                                 | 011002      | PT1-23                         | 011292      | PT1-81   |
| 009026      | PT1-75         | 010092      | PT9-7  | 010583      | PT1-23                                 | 011005      | PT1-23                         | 011296      | PT1-10, PT1-81                                       |
| 009027      | PT1-75         | 010093      | PT9-7  | 010584      | PT1-23                                 | 011006      | PT1-23                         | 011297      | PT1-81   |
| 009028      | PT1-75         | 010096      | PT9-7  | 010585      | PT1-23                                 | 011012      | PT1-23                         | 011298      | PT1-81   |







# PART NUMBER INDEX

Conveyor Components

Engineering

Part Number Index

Keyword Index

| Part Number | Page   | Part Number | Page   | Part Number | Page   | Part Number | Page   | Part Number | Page   |
|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|
| 022187      | PT1-39 | 022387      | PT1-47 | 022507      | PT1-41 | 024703      | PT2-30 | 026505      | PT2-34 |
| 022188      | PT1-39 | 022388      | PT1-47 | 022508      | PT1-41 | 024800      | PT2-30 | 026600      | PT2-34 |
| 022189      | PT1-39 | 022389      | PT1-47 | 022509      | PT1-41 | 024801      | PT2-30 | 026601      | PT2-34 |
| 022190      | PT1-39 | 022391      | PT1-47 | 022510      | PT1-41 | 024802      | PT2-30 | 026602      | PT2-34 |
| 022191      | PT1-39 | 022392      | PT1-47 | 022700      | PT1-40 | 024803      | PT2-30 | 026603      | PT2-34 |
| 022192      | PT1-39 | 022393      | PT1-47 | 022701      | PT1-40 | 024804      | PT2-30 | 026604      | PT2-34 |
| 022193      | PT1-39 | 022394      | PT1-47 | 022702      | PT1-40 | 024805      | PT2-30 | 026605      | PT2-34 |
| 022194      | PT1-39 | 022395      | PT1-47 | 022703      | PT1-40 | 024900      | PT2-31 | 026800      | PT2-34 |
| 022195      | PT1-39 | 022396      | PT1-47 | 022704      | PT1-40 | 024901      | PT2-31 | 026801      | PT2-34 |
| 022196      | PT1-39 | 022397      | PT1-47 | 022708      | PT1-40 | 024902      | PT2-31 | 026802      | PT2-34 |
| 022197      | PT1-39 | 022398      | PT1-47 | 022709      | PT1-40 | 024903      | PT2-31 | 026803      | PT2-34 |
| 022198      | PT1-39 | 022399      | PT1-47 | 022710      | PT1-40 | 025100      | PT2-31 | 026804      | PT2-34 |
| 022211      | PT1-39 | 022400      | PT1-47 | 022711      | PT1-40 | 025101      | PT2-31 | 026805      | PT2-34 |
| 022212      | PT1-39 | 022402      | PT1-47 | 022712      | PT1-40 | 025102      | PT2-31 | 026900      | PT2-35 |
| 022213      | PT1-39 | 022404      | PT1-47 | 022713      | PT1-40 | 025103      | PT2-31 | 026901      | PT2-35 |
| 022214      | PT1-39 | 022405      | PT1-47 | 022714      | PT1-40 | 025200      | PT2-33 | 026902      | PT2-35 |
| 022215      | PT1-39 | 022406      | PT1-47 | 022715      | PT1-40 | 025201      | PT2-33 | 026903      | PT2-35 |
| 022216      | PT1-39 | 022408      | PT1-47 | 022716      | PT1-40 | 025202      | PT2-33 | 026904      | PT2-35 |
| 022217      | PT1-39 | 022409      | PT1-47 | 022717      | PT1-40 | 025203      | PT2-33 | 026905      | PT2-35 |
| 022218      | PT1-39 | 022410      | PT1-47 | 022718      | PT1-40 | 025300      | PT2-33 | 027000      | PT2-35 |
| 022219      | PT1-39 | 022411      | PT1-47 | 022719      | PT1-40 | 025301      | PT2-33 | 027001      | PT2-35 |
| 022220      | PT1-47 | 022412      | PT1-47 | 022720      | PT1-40 | 025302      | PT2-33 | 027002      | PT2-35 |
| 022221      | PT1-47 | 022413      | PT1-47 | 022721      | PT1-40 | 025303      | PT2-33 | 027003      | PT2-35 |
| 022222      | PT1-47 | 022414      | PT1-47 | 022722      | PT1-40 | 025400      | PT2-33 | 027004      | PT2-35 |
| 022223      | PT1-47 | 022415      | PT1-47 | 022723      | PT1-40 | 025401      | PT2-33 | 027005      | PT2-35 |
| 022224      | PT1-47 | 022416      | PT1-47 | 022724      | PT1-40 | 025402      | PT2-33 | 027023      | PT2-7  |
| 022225      | PT1-47 | 022417      | PT1-47 | 022725      | PT1-40 | 025403      | PT2-33 | 027024      | PT2-7  |
| 022226      | PT1-47 | 022418      | PT1-47 | 022726      | PT1-40 | 025500      | PT2-33 | 027025      | PT2-7  |
| 022227      | PT1-47 | 022420      | PT1-47 | 022727      | PT1-40 | 025501      | PT2-33 | 027026      | PT2-7  |
| 022228      | PT1-47 | 022428      | PT1-47 | 022728      | PT1-40 | 025502      | PT2-33 | 027027      | PT2-7  |
| 022232      | PT1-39 | 022429      | PT1-47 | 022729      | PT1-40 | 025503      | PT2-33 | 027028      | PT2-7  |
| 022233      | PT1-39 | 022430      | PT1-47 | 022775      | PT1-47 | 025600      | PT2-33 | 027029      | PT2-7  |
| 022234      | PT1-39 | 022432      | PT1-47 | 022776      | PT1-47 | 025601      | PT2-33 | 027030      | PT2-7  |
| 022235      | PT1-39 | 022433      | PT1-47 | 022777      | PT1-47 | 025602      | PT2-33 | 027031      | PT2-7  |
| 022236      | PT1-39 | 022434      | PT1-47 | 022778      | PT1-47 | 025603      | PT2-33 | 027032      | PT2-7  |
| 022237      | PT1-39 | 022435      | PT1-47 | 022779      | PT1-47 | 025700      | PT2-33 | 027033      | PT2-7  |
| 022238      | PT1-39 | 022436      | PT1-47 | 022780      | PT1-47 | 025701      | PT2-33 | 027034      | PT2-7  |
| 022329      | PT1-47 | 022452      | PT1-47 | 022781      | PT1-47 | 025702      | PT2-33 | 027035      | PT2-7  |
| 022331      | PT1-47 | 022453      | PT1-47 | 022782      | PT1-47 | 025703      | PT2-33 | 027036      | PT2-7  |
| 022332      | PT1-47 | 022454      | PT1-47 | 022783      | PT1-47 | 025800      | PT2-33 | 027037      | PT2-7  |
| 022333      | PT1-47 | 022455      | PT1-47 | 022784      | PT1-47 | 025801      | PT2-33 | 027038      | PT2-7  |
| 022335      | PT1-47 | 022456      | PT1-47 | 022785      | PT1-47 | 025802      | PT2-33 | 027039      | PT2-7  |
| 022336      | PT1-47 | 022457      | PT1-47 | 022786      | PT1-47 | 025803      | PT2-33 | 027040      | PT2-7  |
| 022337      | PT1-47 | 022458      | PT1-47 | 022787      | PT1-47 | 025900      | PT2-33 | 027041      | PT2-7  |
| 022339      | PT1-47 | 022459      | PT1-47 | 022788      | PT1-47 | 025901      | PT2-33 | 027042      | PT2-7  |
| 022340      | PT1-47 | 022460      | PT1-47 | 022810      | PT1-47 | 025902      | PT2-33 | 027043      | PT2-7  |
| 022341      | PT1-47 | 022461      | PT1-47 | 022811      | PT1-47 | 025903      | PT2-33 | 027044      | PT2-7  |
| 022342      | PT1-47 | 022462      | PT1-47 | 022812      | PT1-47 | 026000      | PT2-33 | 027045      | PT2-7  |
| 022344      | PT1-47 | 022464      | PT1-47 | 022813      | PT1-47 | 026001      | PT2-33 | 027046      | PT2-7  |
| 022345      | PT1-47 | 022466      | PT1-47 | 022814      | PT1-47 | 026002      | PT2-33 | 027047      | PT2-7  |
| 022346      | PT1-47 | 022467      | PT1-47 | 022815      | PT1-47 | 026003      | PT2-33 | 027048      | PT2-7  |
| 022348      | PT1-47 | 022468      | PT1-47 | 022816      | PT1-47 | 026004      | PT2-33 | 027049      | PT2-7  |
| 022349      | PT1-47 | 022470      | PT1-47 | 022817      | PT1-47 | 026005      | PT2-33 | 027050      | PT2-7  |
| 022350      | PT1-47 | 022471      | PT1-47 | 022818      | PT1-47 | 026006      | PT2-33 | 027051      | PT2-7  |
| 022351      | PT1-47 | 022472      | PT1-47 | 024000      | PT2-30 | 026007      | PT2-33 | 027052      | PT2-7  |
| 022352      | PT1-47 | 022473      | PT1-47 | 024001      | PT2-30 | 026100      | PT2-34 | 027053      | PT2-7  |
| 022353      | PT1-47 | 022474      | PT1-47 | 024002      | PT2-30 | 026101      | PT2-34 | 027054      | PT2-7  |
| 022354      | PT1-47 | 022475      | PT1-47 | 024003      | PT2-30 | 026102      | PT2-34 | 027055      | PT2-7  |
| 022355      | PT1-47 | 022476      | PT1-47 | 024018      | PT2-10 | 026103      | PT2-34 | 027056      | PT2-7  |
| 022357      | PT1-47 | 022478      | PT1-47 | 024100      | PT2-30 | 026104      | PT2-34 | 027057      | PT2-7  |
| 022358      | PT1-47 | 022479      | PT1-47 | 024101      | PT2-30 | 026105      | PT2-34 | 027058      | PT2-7  |
| 022359      | PT1-47 | 022480      | PT1-47 | 024102      | PT2-30 | 026200      | PT2-34 | 027059      | PT2-7  |
| 022361      | PT1-47 | 022482      | PT1-47 | 024103      | PT2-30 | 026201      | PT2-34 | 027060      | PT2-7  |
| 022362      | PT1-47 | 022483      | PT1-47 | 024200      | PT2-30 | 026202      | PT2-34 | 027061      | PT2-7  |
| 022363      | PT1-47 | 022484      | PT1-47 | 024201      | PT2-30 | 026203      | PT2-34 | 027062      | PT2-7  |
| 022364      | PT1-47 | 022485      | PT1-47 | 024202      | PT2-30 | 026204      | PT2-34 | 027063      | PT2-7  |
| 022365      | PT1-47 | 022487      | PT1-47 | 024203      | PT2-30 | 026205      | PT2-34 | 027064      | PT2-7  |
| 022366      | PT1-47 | 022488      | PT1-47 | 024300      | PT2-30 | 026300      | PT2-34 | 027065      | PT2-7  |
| 022367      | PT1-47 | 022489      | PT1-47 | 024301      | PT2-30 | 026301      | PT2-34 | 027066      | PT2-7  |
| 022368      | PT1-47 | 022490      | PT1-47 | 024302      | PT2-30 | 026302      | PT2-34 | 027067      | PT2-7  |
| 022370      | PT1-47 | 022491      | PT1-47 | 024303      | PT2-30 | 026303      | PT2-34 | 027068      | PT2-7  |
| 022371      | PT1-47 | 022492      | PT1-47 | 024400      | PT2-30 | 026304      | PT2-34 | 027069      | PT2-7  |
| 022372      | PT1-47 | 022493      | PT1-47 | 024401      | PT2-30 | 026305      | PT2-34 | 027070      | PT2-7  |
| 022374      | PT1-47 | 022494      | PT1-47 | 024402      | PT2-30 | 026400      | PT2-34 | 027071      | PT2-7  |
| 022375      | PT1-47 | 022496      | PT1-47 | 024403      | PT2-30 | 026401      | PT2-34 | 027072      | PT2-7  |
| 022376      | PT1-47 | 022497      | PT1-47 | 024500      | PT2-30 | 026402      | PT2-34 | 027073      | PT2-7  |
| 022377      | PT1-47 | 022498      | PT1-47 | 024501      | PT2-30 | 026403      | PT2-34 | 027074      | PT2-7  |
| 022378      | PT1-47 | 022500      | PT1-47 | 024502      | PT2-30 | 026404      | PT2-34 | 027075      | PT2-7  |
| 022379      | PT1-47 | 022501      | PT1-41 | 024503      | PT2-30 | 026405      | PT2-34 | 027076      | PT2-7  |
| 022380      | PT1-47 | 022502      | PT1-41 | 024600      | PT2-30 | 026500      | PT2-34 | 027077      | PT2-7  |
| 022381      | PT1-47 | 022503      | PT1-41 | 024602      | PT2-30 | 026501      | PT2-34 | 027078      | PT2-7  |
| 022382      | PT1-47 | 022504      | PT1-41 | 024700      | PT2-30 | 026502      | PT2-34 | 027079      | PT2-7  |
| 022384      | PT1-47 | 022505      | PT1-41 | 024701      | PT2-30 | 026503      | PT2-34 | 027080      | PT2-7  |
| 022386      | PT1-47 | 022506      | PT1-41 | 024702      | PT2-30 | 026504      | PT2-34 | 027081      | PT2-7  |





# PART NUMBER INDEX

Conveyor Components

Engineering

Part Number Index

Keyword Index

| Part Number | Page   | Part Number | Page    | Part Number | Page            | Part Number | Page           | Part Number | Page    |
|-------------|--------|-------------|---------|-------------|-----------------|-------------|----------------|-------------|---------|
| 031149..... | PT2-5  | 031922..... | PT2-8   | 096020..... | PT5-5           | 098190..... | PT13-29        | 099198..... | PT1-70  |
| 031150..... | PT2-5  | 031923..... | PT2-8   | 096021..... | PT5-5           | 098191..... | PT13-29        | 099199..... | PT1-70  |
| 031151..... | PT2-5  | 031924..... | PT2-8   | 096022..... | PT5-5           | 099024..... | PT1-71, PT1-82 | 099200..... | PT1-70  |
| 031152..... | PT2-5  | 031925..... | PT2-8   | 096023..... | PT5-5           | 099025..... | PT1-71, PT1-82 | 099201..... | PT1-70  |
| 031153..... | PT2-5  | 031926..... | PT2-8   | 096027..... | PT5-5           | 099026..... | PT1-71, PT1-82 | 099202..... | PT1-70  |
| 031154..... | PT2-5  | 032400..... | PT2-36  | 096028..... | PT5-5           | 099027..... | PT1-71, PT1-82 | 099203..... | PT1-70  |
| 031155..... | PT2-5  | 032401..... | PT2-36  | 096029..... | PT5-5           | 099028..... | PT1-71, PT1-82 | 099204..... | PT1-70  |
| 031156..... | PT2-5  | 032402..... | PT2-37  | 096030..... | PT5-5           | 099029..... | PT1-71, PT1-82 | 099205..... | PT1-70  |
| 031157..... | PT2-5  | 032408..... | PT2-36  | 096031..... | PT5-5           | 099048..... | PT1-70         | 099206..... | PT1-70  |
| 031158..... | PT2-5  | 032525..... | PT2-10  | 096032..... | PT5-5           | 099049..... | PT1-70         | 099207..... | PT1-70  |
| 031159..... | PT2-5  | 032531..... | PT2-10  | 096033..... | PT5-5           | 099052..... | PT1-70         | 099208..... | PT1-70  |
| 031160..... | PT2-6  | 032552..... | PT2-10  | 096034..... | PT5-5           | 099053..... | PT1-70         | 099209..... | PT1-70  |
| 031161..... | PT2-6  | 040001..... | PT9-7   | 096035..... | PT5-5           | 099054..... | PT1-70         | 099210..... | PT1-70  |
| 031342..... | PT2-5  | 040002..... | PT9-7   | 096036..... | PT5-5           | 099055..... | PT1-70         | 099211..... | PT1-70  |
| 031343..... | PT2-5  | 040003..... | PT9-7   | 096037..... | PT5-5           | 099056..... | PT1-70         | 099212..... | PT1-70  |
| 031344..... | PT2-5  | 040004..... | PT9-7   | 096038..... | PT5-5           | 099057..... | PT1-70         | 099213..... | PT1-70  |
| 031345..... | PT2-5  | 040005..... | PT9-7   | 096039..... | PT5-6           | 099060..... | PT1-70         | 099214..... | PT1-70  |
| 031346..... | PT2-5  | 040006..... | PT9-7   | 096041..... | PT5-6           | 099061..... | PT1-70         | 099215..... | PT1-70  |
| 031347..... | PT2-5  | 040007..... | PT9-7   | 096042..... | PT5-6           | 099062..... | PT1-70         | 099216..... | PT1-70  |
| 031348..... | PT2-5  | 040008..... | PT9-7   | 096043..... | PT5-6           | 099063..... | PT1-70         | 099217..... | PT1-70  |
| 031349..... | PT2-5  | 040009..... | PT9-7   | 096050..... | PT5-6           | 099100..... | PT1-70         | 099218..... | PT1-70  |
| 031350..... | PT2-5  | 040010..... | PT9-7   | 096051..... | PT5-6           | 099101..... | PT1-70         | 099219..... | PT1-70  |
| 031351..... | PT2-6  | 040011..... | PT9-7   | 096055..... | PT5-6           | 099102..... | PT1-70         | 099220..... | PT1-70  |
| 031353..... | PT2-6  | 040012..... | PT9-7   | 096056..... | PT5-6           | 099103..... | PT1-70         | 099221..... | PT1-70  |
| 031355..... | PT2-6  | 040013..... | PT9-7   | 096057..... | PT5-6           | 099104..... | PT1-70         | 099222..... | PT1-70  |
| 031369..... | PT2-5  | 040014..... | PT9-7   | 096062..... | PT5-6           | 099105..... | PT1-70         | 099223..... | PT1-70  |
| 031371..... | PT2-5  | 040015..... | PT9-7   | 096063..... | PT5-6           | 099106..... | PT1-70         | 099224..... | PT1-70  |
| 031373..... | PT2-5  | 040016..... | PT9-7   | 096064..... | PT5-6           | 099107..... | PT1-70         | 099225..... | PT1-70  |
| 031375..... | PT2-5  | 040017..... | PT9-7   | 096065..... | PT5-6           | 099108..... | PT1-70         | 099226..... | PT1-70  |
| 031377..... | PT2-5  | 040018..... | PT9-7   | 096066..... | PT5-6           | 099109..... | PT1-70         | 100232..... | PT13-13 |
| 031379..... | PT2-5  | 040020..... | PT9-7   | 096067..... | PT5-6           | 099110..... | PT1-70         | 100236..... | PT13-13 |
| 031386..... | PT2-10 | 040021..... | PT9-7   | 096068..... | PT5-6           | 099111..... | PT1-70         | 100238..... | PT13-13 |
| 031389..... | PT2-10 | 040022..... | PT9-7   | 096070..... | PT5-6           | 099112..... | PT1-70         | 100240..... | PT13-13 |
| 031393..... | PT2-6  | 040023..... | PT9-7   | 096071..... | PT5-6           | 099113..... | PT1-70         | 100264..... | PT13-14 |
| 031395..... | PT2-6  | 040024..... | PT9-7   | 096072..... | PT5-6           | 099114..... | PT1-70         | 100266..... | PT13-14 |
| 031397..... | PT2-6  | 040025..... | PT9-7   | 096135..... | PT5-6           | 099115..... | PT1-70         | 100268..... | PT13-14 |
| 031411..... | PT2-5  | 040026..... | PT9-7   | 096136..... | PT5-6           | 099116..... | PT1-70         | 100294..... | PT13-14 |
| 031413..... | PT2-5  | 040027..... | PT9-7   | 096137..... | PT5-6           | 099117..... | PT1-70         | 100298..... | PT13-14 |
| 031415..... | PT2-5  | 040028..... | PT9-7   | 096138..... | PT5-6           | 099118..... | PT1-70         | 100343..... | PT13-3  |
| 031417..... | PT2-5  | 040029..... | PT9-7   | 096139..... | PT5-6           | 099119..... | PT1-70         | 100344..... | PT13-3  |
| 031419..... | PT2-5  | 040030..... | PT9-7   | 096140..... | PT5-6           | 099120..... | PT1-70         | 100345..... | PT13-3  |
| 031421..... | PT2-5  | 040031..... | PT9-7   | 096141..... | PT5-6           | 099121..... | PT1-70         | 100346..... | PT13-3  |
| 031424..... | PT2-10 | 040032..... | PT9-7   | 096142..... | PT5-6           | 099122..... | PT1-70         | 100347..... | PT13-3  |
| 031425..... | PT2-10 | 040033..... | PT9-7   | 096143..... | PT5-6           | 099123..... | PT1-70         | 100348..... | PT13-3  |
| 031435..... | PT2-6  | 040034..... | PT9-7   | 096144..... | PT5-6           | 099124..... | PT1-70         | 100349..... | PT13-3  |
| 031437..... | PT2-6  | 051009..... | PT14-62 | 096150..... | PT5-6           | 099125..... | PT1-70         | 100350..... | PT13-3  |
| 031439..... | PT2-6  | 051016..... | PT14-62 | 096151..... | PT5-6           | 099126..... | PT1-70         | 100351..... | PT13-3  |
| 031453..... | PT2-5  | 051020..... | PT14-62 | 096152..... | PT5-6           | 099127..... | PT1-70         | 100352..... | PT13-3  |
| 031455..... | PT2-5  | 051029..... | PT14-62 | 096153..... | PT5-6           | 099128..... | PT1-70         | 100353..... | PT13-3  |
| 031457..... | PT2-5  | 051033..... | PT14-62 | 096154..... | PT5-6           | 099129..... | PT1-70         | 100354..... | PT13-3  |
| 031459..... | PT2-5  | 051036..... | PT14-62 | 096155..... | PT5-6           | 099130..... | PT1-70         | 100355..... | PT13-3  |
| 031461..... | PT2-5  | 051037..... | PT14-62 | 096156..... | PT5-6           | 099131..... | PT1-70         | 100356..... | PT13-3  |
| 031463..... | PT2-5  | 051040..... | PT14-62 | 096157..... | PT5-6           | 099132..... | PT1-70         | 100357..... | PT13-3  |
| 031477..... | PT2-6  | 051044..... | PT14-62 | 096158..... | PT5-6           | 099133..... | PT1-70         | 100358..... | PT13-3  |
| 031479..... | PT2-6  | 051048..... | PT14-62 | 096159..... | PT5-6           | 099134..... | PT1-70         | 100359..... | PT13-3  |
| 031481..... | PT2-6  | 051059..... | PT14-62 | 096165..... | PT5-6           | 099135..... | PT1-70         | 100360..... | PT13-3  |
| 031495..... | PT2-5  | 051063..... | PT14-62 | 096166..... | PT5-6           | 099136..... | PT1-70         | 100361..... | PT13-3  |
| 031497..... | PT2-5  | 051066..... | PT14-62 | 096167..... | PT5-6           | 099138..... | PT1-70         | 100362..... | PT13-3  |
| 031499..... | PT2-5  | 051067..... | PT14-62 | 096168..... | PT5-6           | 099139..... | PT1-70         | 100363..... | PT13-3  |
| 031507..... | PT2-6  | 051070..... | PT14-62 | 096169..... | PT5-6           | 099140..... | PT1-70         | 100364..... | PT13-3  |
| 031509..... | PT2-6  | 051071..... | PT14-62 | 096170..... | PT5-6           | 099141..... | PT1-70         | 100365..... | PT13-3  |
| 031511..... | PT2-6  | 051078..... | PT14-62 | 096171..... | PT5-6           | 099142..... | PT1-70         | 100366..... | PT13-3  |
| 031525..... | PT2-5  | 051082..... | PT14-62 | 096175..... | PT5-6           | 099143..... | PT1-70         | 100367..... | PT13-3  |
| 031527..... | PT2-5  | 051211..... | PT14-62 | 096176..... | PT5-6           | 099144..... | PT1-70         | 100368..... | PT13-3  |
| 031529..... | PT2-5  | 051212..... | PT14-62 | 096177..... | PT5-6           | 099145..... | PT1-70         | 100369..... | PT13-4  |
| 031537..... | PT2-6  | 051215..... | PT14-62 | 096178..... | PT5-6           | 099146..... | PT1-70         | 100370..... | PT13-4  |
| 031539..... | PT2-6  | 051216..... | PT14-62 | 096179..... | PT5-6           | 099147..... | PT1-70         | 100371..... | PT13-4  |
| 031541..... | PT2-6  | 051219..... | PT14-62 | 097015..... | PT6-14, PT13-30 | 099150..... | PT1-70         | 100372..... | PT13-4  |
| 031555..... | PT2-5  | 051223..... | PT14-62 | 097016..... | PT6-14, PT13-30 | 099151..... | PT1-70         | 100373..... | PT13-4  |
| 031557..... | PT2-5  | 051224..... | PT14-62 | 097017..... | PT6-14, PT13-30 | 099152..... | PT1-70         | 100374..... | PT13-4  |
| 031559..... | PT2-5  | 051227..... | PT14-62 | 097018..... | PT6-14, PT13-30 | 099153..... | PT1-70         | 100375..... | PT13-4  |
| 031716..... | PT2-8  | 051231..... | PT14-62 | 097019..... | PT6-14, PT13-30 | 099154..... | PT1-70         | 100376..... | PT13-4  |
| 031718..... | PT2-8  | 051247..... | PT14-62 | 097020..... | PT6-14, PT13-30 | 099161..... | PT1-70         | 100377..... | PT13-4  |
| 031910..... | PT2-8  | 051250..... | PT14-62 | 097021..... | PT6-14, PT13-30 | 099162..... | PT1-70         | 100378..... | PT13-4  |
| 031911..... | PT2-8  | 096008..... | PT5-5   | 097022..... | PT6-14, PT13-30 | 099163..... | PT1-70         | 100379..... | PT13-4  |
| 031913..... | PT2-8  | 096009..... | PT5-5   | 097023..... | PT6-14, PT13-30 | 099164..... | PT1-70         | 100380..... | PT13-4  |
| 031914..... | PT2-8  | 096010..... | PT5-5   | 097024..... | PT6-14, PT13-30 | 099190..... | PT1-70         | 100381..... | PT13-4  |
| 031915..... | PT2-8  | 096011..... | PT5-5   | 097025..... | PT6-14, PT13-30 | 099191..... | PT1-70         | 100382..... | PT13-4  |
| 031916..... | PT2-8  | 096014..... | PT5-5   | 098175..... | PT13-29         | 099192..... | PT1-70         | 100383..... | PT13-4  |
| 031917..... | PT2-8  | 096015..... | PT5-5   | 098176..... | PT13-29         | 099193..... | PT1-70         | 100384..... | PT13-4  |
| 031918..... | PT2-8  | 096016..... | PT5-5   | 098177..... | PT13-29         | 099194..... | PT1-70         | 100385..... | PT13-4  |
| 031919..... | PT2-8  | 096017..... | PT5-5   | 098180..... | PT13-29         | 099195..... | PT1-70         | 100386..... | PT13-4  |
| 031920..... | PT2-8  | 096018..... | PT5-5   | 098181..... | PT13-29         | 099196..... | PT1-70         | 100387..... | PT13-4  |
| 031921..... | PT2-8  | 096019..... | PT5-5   | 098182..... | PT13-29         | 099197..... | PT1-70         | 100388..... | PT13-4  |















# PART NUMBER INDEX

Conveyor Components

Engineering

Part Number Index

Keyword Index

| Part Number | Page         | Part Number | Page         | Part Number | Page             | Part Number | Page    | Part Number | Page    |
|-------------|--------------|-------------|--------------|-------------|------------------|-------------|---------|-------------|---------|
| 109521      | PT9-2        | 109723      | PT9-3        | 109857      | PT9-4            | 110061      | PT7-10  | 110215      | PT10-11 |
| 109522      | PT9-2, PT9-3 | 109724      | PT9-2, PT9-3 | 109858      | PT9-2, PT9-4     | 110062      | PT7-10  | 110216      | PT10-11 |
| 109523      | PT9-2, PT9-3 | 109725      | PT9-3        | 109861      | PT9-4            | 110064      | PT7-9   | 110217      | PT10-11 |
| 109524      | PT9-3        | 109726      | PT9-2, PT9-3 | 109862      | PT9-2, PT9-4     | 110065      | PT7-10  | 110218      | PT10-11 |
| 109525      | PT9-3        | 109727      | PT9-3        | 109863      | PT9-2, PT9-4     | 110066      | PT7-10  | 110219      | PT10-11 |
| 109533      | PT9-3        | 109728      | PT9-2, PT9-3 | 109865      | PT9-4            | 110068      | PT7-10  | 110220      | PT10-11 |
| 109542      | PT9-3        | 109729      | PT9-2, PT9-3 | 109875      | PT9-4            | 110071      | PT7-10  | 110221      | PT10-11 |
| 109543      | PT9-3        | 109730      | PT9-3        | 109877      | PT9-2, PT9-4     | 110072      | PT7-10  | 110222      | PT10-11 |
| 109544      | PT9-3        | 109731      | PT9-2, PT9-3 | 109879      | PT9-2, PT9-4     | 110073      | PT7-10  | 110223      | PT10-11 |
| 109545      | PT9-3        | 109732      | PT9-2, PT9-3 | 109882      | PT9-2, PT9-4     | 110074      | PT7-10  | 110224      | PT10-11 |
| 109546      | PT9-3        | 109733      | PT9-3        | 109885      | PT9-4            | 110075      | PT7-10  | 110225      | PT10-11 |
| 109549      | PT9-3        | 109734      | PT9-2, PT9-3 | 109886      | PT9-4            | 110076      | PT7-10  | 110226      | PT10-11 |
| 109552      | PT9-3        | 109735      | PT9-2, PT9-3 | 109887      | PT9-4            | 110077      | PT7-10  | 110227      | PT10-11 |
| 109554      | PT9-3        | 109736      | PT9-3        | 109889      | PT9-4            | 110078      | PT7-10  | 110228      | PT10-11 |
| 109555      | PT9-3        | 109740      | PT9-2, PT9-3 | 109890      | PT9-4            | 110079      | PT7-10  | 110229      | PT10-11 |
| 109557      | PT9-3        | 109745      | PT9-3        | 109892      | PT9-4            | 110080      | PT7-10  | 110230      | PT10-11 |
| 109559      | PT9-3        | 109749      | PT9-2        | 109893      | PT9-2            | 110081      | PT7-10  | 110231      | PT10-11 |
| 109561      | PT9-3        | 109750      | PT9-2, PT9-3 | 109894      | PT9-4            | 110132      | PT10-11 | 110232      | PT10-11 |
| 109562      | PT9-3        | 109751      | PT9-2, PT9-3 | 109896      | PT9-4            | 110133      | PT10-11 | 110233      | PT10-11 |
| 109565      | PT9-3        | 109752      | PT9-3        | 109897      | PT9-4            | 110134      | PT10-11 | 110234      | PT10-11 |
| 109568      | PT9-3        | 109753      | PT9-2, PT9-3 | 109901      | PT9-4            | 110135      | PT10-11 | 110235      | PT10-11 |
| 109571      | PT9-3        | 109754      | PT9-2, PT9-3 | 109904      | PT9-4            | 110136      | PT10-11 | 110236      | PT10-11 |
| 109585      | PT9-3        | 109760      | PT9-2, PT9-3 | 109906      | PT9-4            | 110137      | PT10-11 | 110237      | PT10-11 |
| 109590      | PT9-3        | 109761      | PT9-2, PT9-3 | 109907      | PT9-2            | 110138      | PT10-11 | 110238      | PT10-11 |
| 109592      | PT9-3        | 109762      | PT9-2        | 109908      | PT9-2, PT9-4     | 110139      | PT10-11 | 110239      | PT10-11 |
| 109594      | PT9-3        | 109763      | PT9-2, PT9-3 | 109909      | PT9-2            | 110140      | PT10-11 | 110240      | PT10-11 |
| 109596      | PT9-3        | 109764      | PT9-3        | 109910      | PT9-2, PT9-4     | 110141      | PT10-11 | 110241      | PT10-11 |
| 109599      | PT9-2, PT9-3 | 109766      | PT9-3        | 109911      | PT9-2            | 110142      | PT10-11 | 110242      | PT10-11 |
| 109601      | PT9-2, PT9-3 | 109772      | PT9-3        | 109912      | PT9-2            | 110143      | PT10-11 | 110243      | PT10-11 |
| 109602      | PT9-2, PT9-3 | 109774      | PT9-3        | 109913      | PT9-2            | 110144      | PT10-11 | 110244      | PT10-11 |
| 109604      | PT9-3        | 109789      | PT9-4        | 109914      | PT9-2            | 110145      | PT10-11 | 110245      | PT10-11 |
| 109607      | PT9-2, PT9-3 | 109790      | PT9-4        | 109916      | PT9-4            | 110146      | PT10-11 | 110246      | PT10-11 |
| 109609      | PT9-3        | 109791      | PT9-4        | 109918      | PT9-4            | 110147      | PT10-11 | 110247      | PT10-11 |
| 109611      | PT9-2, PT9-3 | 109792      | PT9-4        | 109920      | PT9-4            | 110148      | PT10-11 | 110248      | PT10-11 |
| 109612      | PT9-3        | 109793      | PT9-4        | 109927      | PT9-4            | 110149      | PT10-11 | 110249      | PT10-11 |
| 109614      | PT9-2, PT9-3 | 109794      | PT9-4        | 109935      | PT9-4            | 110150      | PT10-11 | 110250      | PT10-11 |
| 109615      | PT9-3        | 109795      | PT9-4        | 109936      | PT9-4            | 110151      | PT10-11 | 110251      | PT10-11 |
| 109617      | PT9-2, PT9-3 | 109796      | PT9-4        | 109939      | PT9-4            | 110152      | PT10-11 | 110252      | PT10-11 |
| 109618      | PT9-3        | 109797      | PT9-4        | 109940      | PT9-4            | 110153      | PT10-11 | 110253      | PT10-11 |
| 109619      | PT9-2        | 109798      | PT9-4        | 109991      | PT7-142          | 110154      | PT10-11 | 110254      | PT10-11 |
| 109620      | PT9-3        | 109799      | PT9-4        | 109992      | PT7-142          | 110155      | PT10-11 | 110255      | PT10-11 |
| 109623      | PT9-3        | 109800      | PT9-4        | 109993      | PT7-142, PT12-78 | 110156      | PT10-11 | 110256      | PT10-11 |
| 109625      | PT9-3        | 109801      | PT9-4        | 109994      | PT7-142, PT12-79 | 110157      | PT10-11 | 110257      | PT10-11 |
| 109631      | PT9-3        | 109802      | PT9-4        | 109995      | PT7-142          | 110158      | PT10-11 | 110258      | PT10-11 |
| 109637      | PT9-3        | 109803      | PT9-3        | 109996      | PT7-142          | 110159      | PT10-11 | 110259      | PT10-11 |
| 109639      | PT9-3        | 109805      | PT9-3        | 109997      | PT7-142          | 110160      | PT10-11 | 110260      | PT10-11 |
| 109641      | PT9-3        | 109806      | PT9-4        | 110002      | PT7-9            | 110161      | PT10-11 | 110261      | PT10-11 |
| 109644      | PT9-3        | 109807      | PT9-3        | 110003      | PT7-9            | 110162      | PT10-11 | 110262      | PT10-11 |
| 109647      | PT9-3        | 109808      | PT9-3        | 110004      | PT7-9            | 110163      | PT10-11 | 110263      | PT10-11 |
| 109648      | PT9-3        | 109809      | PT9-3        | 110006      | PT7-9            | 110164      | PT10-11 | 110264      | PT10-11 |
| 109650      | PT9-3        | 109810      | PT9-3        | 110007      | PT7-9            | 110165      | PT10-11 | 110266      | PT10-11 |
| 109652      | PT9-3        | 109814      | PT9-4        | 110008      | PT7-9            | 110166      | PT10-11 | 110267      | PT10-11 |
| 109653      | PT9-3        | 109816      | PT9-4        | 110015      | PT7-9            | 110167      | PT10-11 | 110268      | PT10-11 |
| 109658      | PT9-3        | 109817      | PT9-3        | 110016      | PT7-9            | 110168      | PT10-11 | 110269      | PT10-11 |
| 109662      | PT9-3        | 109821      | PT9-3        | 110017      | PT7-9            | 110169      | PT10-11 | 110270      | PT10-11 |
| 109664      | PT9-3        | 109822      | PT9-3        | 110018      | PT7-9            | 110170      | PT10-11 | 110271      | PT10-11 |
| 109672      | PT9-3        | 109824      | PT9-3        | 110023      | PT7-9            | 110171      | PT10-11 | 110272      | PT10-11 |
| 109675      | PT9-3        | 109825      | PT9-4        | 110024      | PT7-9            | 110187      | PT10-11 | 110273      | PT10-11 |
| 109688      | PT9-3        | 109826      | PT9-3        | 110025      | PT7-9            | 110189      | PT10-11 | 110274      | PT10-11 |
| 109689      | PT9-3        | 109827      | PT9-3        | 110026      | PT7-9            | 110190      | PT10-11 | 110275      | PT10-11 |
| 109692      | PT9-3        | 109828      | PT9-3        | 110027      | PT7-9            | 110191      | PT10-11 | 110276      | PT10-11 |
| 109694      | PT9-3        | 109829      | PT9-4        | 110028      | PT7-9            | 110192      | PT10-11 | 110277      | PT10-11 |
| 109696      | PT9-3        | 109830      | PT9-3        | 110029      | PT7-9            | 110193      | PT10-11 | 110278      | PT10-11 |
| 109698      | PT9-3        | 109831      | PT9-3        | 110033      | PT7-9            | 110194      | PT10-11 | 110279      | PT10-11 |
| 109699      | PT9-3        | 109832      | PT9-3        | 110034      | PT7-9            | 110195      | PT10-11 | 110280      | PT10-11 |
| 109700      | PT9-3        | 109833      | PT9-3        | 110035      | PT7-9            | 110196      | PT10-11 | 110281      | PT10-11 |
| 109701      | PT9-3        | 109834      | PT9-3        | 110036      | PT7-9            | 110197      | PT10-11 | 110282      | PT10-11 |
| 109702      | PT9-3        | 109835      | PT9-3        | 110037      | PT7-9            | 110198      | PT10-11 | 110283      | PT10-11 |
| 109703      | PT9-3        | 109836      | PT9-3        | 110041      | PT7-9            | 110199      | PT10-11 | 110284      | PT10-11 |
| 109705      | PT9-2        | 109837      | PT9-2        | 110042      | PT7-9            | 110200      | PT10-11 | 110285      | PT10-11 |
| 109706      | PT9-3        | 109840      | PT9-3        | 110043      | PT7-9            | 110201      | PT10-11 | 110287      | PT10-11 |
| 109708      | PT9-3        | 109841      | PT9-3        | 110046      | PT7-9            | 110202      | PT10-11 | 110288      | PT10-11 |
| 109710      | PT9-3        | 109843      | PT9-3        | 110047      | PT7-9            | 110203      | PT10-11 | 110289      | PT10-11 |
| 109711      | PT9-3        | 109844      | PT9-3        | 110049      | PT7-9            | 110204      | PT10-11 | 110290      | PT10-11 |
| 109712      | PT9-3        | 109845      | PT9-2        | 110050      | PT7-10           | 110205      | PT10-11 | 110291      | PT10-11 |
| 109713      | PT9-2, PT9-3 | 109846      | PT9-3        | 110051      | PT7-10           | 110206      | PT10-11 | 110292      | PT10-11 |
| 109714      | PT9-3        | 109847      | PT9-3        | 110052      | PT7-10           | 110207      | PT10-11 | 110293      | PT10-11 |
| 109715      | PT9-2, PT9-3 | 109848      | PT9-2, PT9-3 | 110053      | PT7-10           | 110208      | PT10-11 | 110294      | PT10-11 |
| 109716      | PT9-3        | 109849      | PT9-2, PT9-3 | 110054      | PT7-10           | 110209      | PT10-11 | 110295      | PT10-11 |
| 109717      | PT9-2, PT9-3 | 109851      | PT9-3        | 110056      | PT7-10           | 110210      | PT10-11 | 110296      | PT10-11 |
| 109719      | PT9-2, PT9-3 | 109852      | PT9-2, PT9-4 | 110057      | PT7-10           | 110211      | PT10-11 | 110297      | PT10-11 |
| 109720      | PT9-2, PT9-3 | 109854      | PT9-4        | 110058      | PT7-10           | 110212      | PT10-11 | 110298      | PT10-11 |
| 109721      | PT9-2, PT9-3 | 109855      | PT9-2, PT9-4 | 110059      | PT7-10           | 110213      | PT10-11 | 110299      | PT10-11 |
| 109722      | PT9-2, PT9-3 | 109856      | PT9-2, PT9-4 | 110060      | PT7-10           | 110214      | PT10-11 | 110300      | PT10-11 |





# PART NUMBER INDEX

Conveyor Components

Engineering

Part Number Index

Keyword Index

| Part Number | Page    | Part Number | Page          | Part Number | Page   | Part Number | Page   | Part Number | Page   |
|-------------|---------|-------------|---------------|-------------|--------|-------------|--------|-------------|--------|
| 111200      | PT7-6   | 112044      | PT7-4         | 112189      | PT7-4  | 112850      | PT11-5 | 112950      | PT11-7 |
| 111201      | PT7-6   | 112053      | PT7-4         | 112190      | PT7-4  | 112851      | PT11-5 | 112951      | PT11-7 |
| 111202      | PT7-6   | 112054      | PT7-4         | 112191      | PT7-4  | 112852      | PT11-5 | 112952      | PT11-7 |
| 111203      | PT7-6   | 112055      | PT7-4         | 112192      | PT7-4  | 112853      | PT11-5 | 112953      | PT11-7 |
| 111204      | PT7-6   | 112056      | PT7-4         | 112193      | PT7-4  | 112854      | PT11-5 | 112954      | PT11-7 |
| 111205      | PT7-6   | 112059      | PT7-4         | 112194      | PT7-4  | 112855      | PT11-5 | 112955      | PT11-7 |
| 111206      | PT7-6   | 112061      | PT7-5         | 112195      | PT7-4  | 112856      | PT11-5 | 112956      | PT11-7 |
| 111207      | PT7-6   | 112062      | PT7-5         | 112196      | PT7-4  | 112857      | PT11-5 | 112957      | PT11-7 |
| 111208      | PT7-6   | 112063      | PT7-5         | 112197      | PT7-4  | 112858      | PT11-5 | 112958      | PT11-7 |
| 111209      | PT7-6   | 112064      | PT7-5         | 112198      | PT7-4  | 112859      | PT11-5 | 112959      | PT11-7 |
| 111210      | PT7-6   | 112065      | PT7-5         | 112199      | PT7-4  | 112860      | PT11-5 | 112960      | PT11-7 |
| 111211      | PT7-6   | 112066      | PT7-5         | 112200      | PT7-4  | 112861      | PT11-5 | 113021      | PT10-3 |
| 111212      | PT7-6   | 112067      | PT7-5         | 112201      | PT7-4  | 112862      | PT11-5 | 113022      | PT10-3 |
| 111213      | PT7-6   | 112069      | PT7-5         | 112202      | PT7-4  | 112863      | PT11-5 | 113023      | PT10-3 |
| 111214      | PT7-6   | 112070      | PT7-5         | 112203      | PT7-4  | 112864      | PT11-5 | 113024      | PT10-3 |
| 111215      | PT7-6   | 112071      | PT7-5         | 112204      | PT7-4  | 112865      | PT11-5 | 113046      | PT10-3 |
| 111216      | PT7-6   | 112072      | PT7-5         | 112205      | PT7-4  | 112866      | PT11-5 | 113047      | PT10-3 |
| 111217      | PT7-6   | 112073      | PT7-5         | 112206      | PT7-4  | 112867      | PT11-5 | 113048      | PT10-3 |
| 111218      | PT7-6   | 112074      | PT7-5         | 112207      | PT7-4  | 112868      | PT11-5 | 113049      | PT10-3 |
| 111219      | PT7-6   | 112075      | PT7-5         | 112208      | PT7-4  | 112869      | PT11-5 | 113072      | PT10-6 |
| 111220      | PT7-6   | 112076      | PT7-5         | 112209      | PT7-4  | 112870      | PT11-5 | 113073      | PT10-6 |
| 111221      | PT7-7   | 112077      | PT7-5         | 112210      | PT7-4  | 112871      | PT11-5 | 113074      | PT10-7 |
| 111222      | PT7-7   | 112078      | PT7-5         | 112211      | PT7-4  | 112872      | PT11-5 | 113120      | PT10-7 |
| 111223      | PT7-7   | 112080      | PT7-5         | 112212      | PT7-4  | 112873      | PT11-5 | 113121      | PT10-7 |
| 111224      | PT7-7   | 112081      | PT7-5         | 112213      | PT7-4  | 112874      | PT11-5 | 113122      | PT10-7 |
| 111225      | PT7-7   | 112082      | PT7-5         | 112214      | PT7-4  | 112875      | PT11-5 | 113399      | PT10-3 |
| 111226      | PT7-7   | 112083      | PT7-5         | 112215      | PT7-4  | 112876      | PT11-5 | 113401      | PT10-8 |
| 111227      | PT7-7   | 112084      | PT7-5         | 112216      | PT7-4  | 112877      | PT11-5 | 113402      | PT10-8 |
| 111228      | PT7-7   | 112085      | PT7-5         | 112217      | PT7-4  | 112878      | PT11-5 | 113403      | PT10-8 |
| 111229      | PT7-7   | 112086      | PT7-5         | 112218      | PT7-4  | 112879      | PT11-5 | 113404      | PT10-8 |
| 111230      | PT7-7   | 112087      | PT7-5         | 112250      | PT3-16 | 112880      | PT11-5 | 113405      | PT10-8 |
| 111231      | PT7-7   | 112088      | PT7-5         | 112251      | PT3-16 | 112881      | PT11-5 | 113406      | PT10-8 |
| 111232      | PT7-7   | 112090      | PT7-5         | 112252      | PT3-16 | 112882      | PT11-5 | 113407      | PT10-8 |
| 111233      | PT7-7   | 112091      | PT7-5         | 112253      | PT3-16 | 112883      | PT11-5 | 113408      | PT10-8 |
| 111234      | PT7-7   | 112092      | PT7-5         | 112254      | PT3-16 | 112884      | PT11-5 | 113409      | PT10-8 |
| 111235      | PT7-7   | 112093      | PT7-5         | 112255      | PT3-16 | 112885      | PT11-6 | 113410      | PT10-8 |
| 111236      | PT7-7   | 112094      | PT7-5         | 112256      | PT3-16 | 112886      | PT11-6 | 113411      | PT10-8 |
| 111237      | PT7-7   | 112095      | PT7-5         | 112265      | PT3-17 | 112889      | PT11-6 | 113412      | PT10-8 |
| 111238      | PT7-7   | 112096      | PT7-5         | 112266      | PT3-17 | 112890      | PT11-6 | 113413      | PT10-8 |
| 111239      | PT7-7   | 112097      | PT7-5         | 112267      | PT3-17 | 112891      | PT11-6 | 113414      | PT10-8 |
| 111240      | PT7-8   | 112098      | PT7-5         | 112268      | PT3-17 | 112892      | PT11-6 | 113415      | PT10-8 |
| 111241      | PT7-8   | 112099      | PT7-5         | 112269      | PT3-17 | 112893      | PT11-6 | 113416      | PT10-8 |
| 111242      | PT7-8   | 112100      | PT7-5         | 112270      | PT3-17 | 112894      | PT11-6 | 113417      | PT10-8 |
| 111243      | PT7-8   | 112101      | PT7-5         | 112271      | PT3-17 | 112895      | PT11-6 | 113418      | PT10-8 |
| 111244      | PT7-8   | 112102      | PT7-5         | 112275      | PT7-4  | 112896      | PT11-6 | 113419      | PT10-8 |
| 111245      | PT7-8   | 112103      | PT7-5         | 112276      | PT7-4  | 112897      | PT11-6 | 113420      | PT10-8 |
| 111246      | PT7-8   | 112124      | PT7-4         | 112277      | PT7-5  | 112898      | PT11-6 | 113450      | PT10-9 |
| 111247      | PT7-8   | 112125      | PT7-4         | 112278      | PT7-5  | 112899      | PT11-6 | 113451      | PT10-9 |
| 111248      | PT7-8   | 112126      | PT7-4         | 112279      | PT7-5  | 112901      | PT11-6 | 113452      | PT10-9 |
| 111249      | PT7-8   | 112127      | PT7-4         | 112280      | PT7-7  | 112902      | PT11-6 | 113453      | PT10-9 |
| 111250      | PT7-8   | 112128      | PT7-4         | 112281      | PT7-7  | 112903      | PT11-6 | 113464      | PT10-3 |
| 111251      | PT7-8   | 112129      | PT7-4         | 112465      | PT11-4 | 112904      | PT11-6 | 113466      | PT10-3 |
| 111252      | PT7-8   | 112130      | PT7-4         | 112466      | PT11-4 | 112905      | PT11-6 | 113468      | PT10-3 |
| 111253      | PT7-8   | 112131      | PT7-4         | 112467      | PT11-4 | 112906      | PT11-6 | 113470      | PT10-3 |
| 111254      | PT7-8   | 112132      | PT7-4         | 112468      | PT11-4 | 112907      | PT11-6 | 113472      | PT10-3 |
| 111255      | PT7-6   | 112133      | PT7-4         | 112469      | PT11-4 | 112908      | PT11-6 | 113478      | PT10-3 |
| 111256      | PT7-6   | 112144      | PT7-4         | 112470      | PT11-4 | 112909      | PT11-6 | 113484      | PT10-3 |
| 111709      | PT11-11 | 112145      | PT7-4         | 112471      | PT11-4 | 112910      | PT11-6 | 113485      | PT10-3 |
| 111940      | PT6-29  | 112150      | PT7-4         | 112472      | PT11-4 | 112911      | PT11-6 | 113486      | PT10-3 |
| 111941      | PT6-29  | 112151      | PT7-4         | 112473      | PT11-4 | 112912      | PT11-6 | 113487      | PT10-3 |
| 111942      | PT6-29  | 112152      | PT7-5         | 112474      | PT11-4 | 112913      | PT11-6 | 113500      | PT10-9 |
| 111943      | PT6-29  | 112153      | PT7-5         | 112475      | PT11-4 | 112914      | PT11-6 | 113501      | PT10-9 |
| 111944      | PT6-29  | 112154      | PT7-5         | 112476      | PT11-4 | 112915      | PT11-6 | 113502      | PT10-9 |
| 111945      | PT6-29  | 112155      | PT7-5         | 112477      | PT11-4 | 112916      | PT11-6 | 113513      | PT10-4 |
| 111946      | PT6-29  | 112156      | PT7-5         | 112478      | PT11-4 | 112917      | PT11-6 | 113515      | PT10-4 |
| 111947      | PT6-29  | 112157      | PT7-5         | 112479      | PT11-4 | 112922      | PT11-7 | 113517      | PT10-4 |
| 111948      | PT6-29  | 112158      | PT7-5         | 112480      | PT11-4 | 112923      | PT11-7 | 113519      | PT10-4 |
| 111949      | PT6-29  | 112159      | PT7-5         | 112481      | PT11-4 | 112925      | PT11-7 | 113521      | PT10-4 |
| 111950      | PT6-29  | 112160      | PT7-5         | 112482      | PT11-4 | 112926      | PT11-7 | 113527      | PT10-4 |
| 112008      | PT7-4   | 112161      | PT7-5         | 112483      | PT11-4 | 112927      | PT11-7 | 113533      | PT10-4 |
| 112009      | PT7-4   | 112175      | PT3-16, PT7-4 | 112484      | PT11-4 | 112928      | PT11-7 | 113534      | PT10-4 |
| 112010      | PT7-4   | 112176      | PT3-16, PT7-4 | 112485      | PT11-4 | 112929      | PT11-7 | 113535      | PT10-4 |
| 112011      | PT7-4   | 112177      | PT3-16, PT7-4 | 112486      | PT11-4 | 112930      | PT11-7 | 113536      | PT10-4 |
| 112023      | PT7-4   | 112178      | PT3-16, PT7-4 | 112487      | PT11-4 | 112931      | PT11-7 | 113550      | PT10-9 |
| 112024      | PT7-4   | 112179      | PT7-4         | 112488      | PT11-4 | 112932      | PT11-7 | 113551      | PT10-9 |
| 112025      | PT7-4   | 112180      | PT3-16, PT7-4 | 112489      | PT11-4 | 112934      | PT11-7 | 113562      | PT10-4 |
| 112026      | PT7-4   | 112181      | PT3-16, PT7-4 | 112490      | PT11-4 | 112935      | PT11-7 | 113564      | PT10-4 |
| 112027      | PT7-4   | 112182      | PT3-16, PT7-4 | 112491      | PT11-4 | 112936      | PT11-7 | 113566      | PT10-4 |
| 112038      | PT7-4   | 112183      | PT3-16, PT7-4 | 112492      | PT11-4 | 112937      | PT11-7 | 113568      | PT10-4 |
| 112039      | PT7-4   | 112184      | PT3-16, PT7-4 | 112493      | PT11-4 | 112944      | PT11-7 | 113570      | PT10-4 |
| 112040      | PT7-4   | 112185      | PT3-16, PT7-4 | 112494      | PT11-4 | 112945      | PT11-7 | 113575      | PT10-3 |
| 112041      | PT7-4   | 112186      | PT7-4         | 112495      | PT11-4 | 112947      | PT11-7 | 113576      | PT10-4 |
| 112042      | PT7-4   | 112187      | PT7-4         | 112496      | PT11-4 | 112948      | PT11-7 | 113581      | PT10-3 |
| 112043      | PT7-4   | 112188      | PT7-4         | 112849      | PT11-5 | 112949      | PT11-7 | 113582      | PT10-4 |







# PART NUMBER INDEX

Conveyor Components

Engineering

Part Number Index

Keyword Index

| Part Number | Page           | Part Number | Page   | Part Number | Page   | Part Number | Page           | Part Number | Page   |
|-------------|----------------|-------------|--------|-------------|--------|-------------|----------------|-------------|--------|
| 114794      | PT6-9          | 115012      | PT7-14 | 115163      | PT7-14 | 117037      | PT6-7          | 117165      | PT6-6  |
| 114795      | PT6-9          | 115014      | PT7-14 | 115164      | PT7-14 | 117043      | PT6-18         | 117166      | PT6-6  |
| 114796      | PT6-9          | 115016      | PT7-14 | 115165      | PT7-14 | 117045      | PT6-11         | 117167      | PT6-6  |
| 114797      | PT6-9          | 115017      | PT7-15 | 115166      | PT7-14 | 117049      | PT6-18         | 117168      | PT6-6  |
| 114798      | PT6-9          | 115022      | PT7-15 | 115171      | PT7-14 | 117071      | PT3-18, PT6-5  | 117169      | PT6-6  |
| 114799      | PT6-9          | 115023      | PT7-15 | 115174      | PT7-14 | 117073      | PT6-5          | 117170      | PT6-6  |
| 114800      | PT6-9          | 115024      | PT7-15 | 115175      | PT7-14 | 117074      | PT6-5          | 117173      | PT6-6  |
| 114801      | PT6-9          | 115025      | PT7-15 | 115176      | PT7-14 | 117075      | PT6-5          | 117174      | PT6-6  |
| 114802      | PT6-9          | 115026      | PT7-15 | 115177      | PT7-14 | 117076      | PT6-5          | 117175      | PT6-6  |
| 114803      | PT6-9          | 115027      | PT7-15 | 115178      | PT7-14 | 117077      | PT6-5          | 117176      | PT6-6  |
| 114804      | PT6-9          | 115028      | PT7-15 | 115185      | PT7-15 | 117078      | PT6-5          | 117177      | PT6-6  |
| 114805      | PT6-9          | 115029      | PT7-15 | 115186      | PT7-14 | 117079      | PT6-5          | 117178      | PT6-7  |
| 114806      | PT6-9          | 115030      | PT7-15 | 115187      | PT7-14 | 117080      | PT6-5          | 117179      | PT6-7  |
| 114807      | PT6-9          | 115032      | PT7-15 | 115188      | PT7-14 | 117081      | PT6-5          | 117180      | PT6-7  |
| 114821      | PT11-6         | 115033      | PT7-15 | 115189      | PT7-14 | 117082      | PT6-5          | 117181      | PT6-7  |
| 114822      | PT11-6         | 115036      | PT7-15 | 115190      | PT7-15 | 117083      | PT6-5          | 117182      | PT6-7  |
| 114823      | PT11-6         | 115038      | PT7-15 | 115191      | PT7-15 | 117084      | PT6-5          | 117183      | PT6-7  |
| 114825      | PT11-6         | 115039      | PT7-15 | 115192      | PT7-15 | 117085      | PT6-5          | 117205      | PT6-11 |
| 114827      | PT11-9         | 115040      | PT7-15 | 115193      | PT7-15 | 117086      | PT6-5          | 117207      | PT6-8  |
| 114828      | PT11-6         | 115041      | PT7-15 | 115194      | PT7-15 | 117087      | PT6-6          | 117208      | PT6-8  |
| 114833      | PT11-6         | 115042      | PT7-15 | 115195      | PT7-15 | 117088      | PT6-6          | 117209      | PT6-8  |
| 114834      | PT11-6         | 115043      | PT7-15 | 115196      | PT7-15 | 117089      | PT6-6          | 117210      | PT6-8  |
| 114836      | PT11-7         | 115044      | PT7-15 | 115197      | PT7-15 | 117090      | PT6-6          | 117211      | PT6-8  |
| 114837      | PT11-7         | 115045      | PT7-15 | 115325      | PT7-14 | 117091      | PT6-6          | 117212      | PT6-8  |
| 114838      | PT11-8         | 115048      | PT7-15 | 115326      | PT7-14 | 117092      | PT6-6          | 117213      | PT6-8  |
| 114840      | PT11-6         | 115049      | PT7-15 | 115327      | PT7-14 | 117093      | PT6-6          | 117214      | PT6-8  |
| 114841      | PT11-7         | 115054      | PT7-15 | 115328      | PT7-14 | 117094      | PT6-6          | 117215      | PT6-8  |
| 114844      | PT11-7         | 115055      | PT7-15 | 115329      | PT7-14 | 117095      | PT6-6          | 117216      | PT6-8  |
| 114848      | PT11-8         | 115056      | PT7-15 | 115330      | PT7-14 | 117096      | PT6-6          | 117217      | PT6-8  |
| 114850      | PT11-7         | 115057      | PT7-15 | 115331      | PT7-14 | 117097      | PT6-6          | 117218      | PT6-8  |
| 114851      | PT11-6         | 115058      | PT7-15 | 115349      | PT7-15 | 117098      | PT6-6          | 117219      | PT6-8  |
| 114852      | PT11-6, PT11-9 | 115059      | PT7-15 | 115351      | PT7-15 | 117099      | PT6-6          | 117220      | PT6-8  |
| 114853      | PT11-9         | 115060      | PT7-15 | 115352      | PT7-15 | 117101      | PT6-7          | 117221      | PT6-8  |
| 114854      | PT11-7         | 115061      | PT7-15 | 115353      | PT7-15 | 117102      | PT6-7          | 117222      | PT6-8  |
| 114855      | PT11-7         | 115062      | PT7-15 | 115354      | PT7-15 | 117103      | PT6-7          | 117223      | PT6-8  |
| 114856      | PT11-8         | 115064      | PT7-15 | 115355      | PT7-15 | 117104      | PT6-7          | 117224      | PT6-8  |
| 114857      | PT11-8         | 115065      | PT7-15 | 115356      | PT7-15 | 117105      | PT6-7          | 117225      | PT6-8  |
| 114858      | PT11-8         | 115066      | PT7-15 | 115357      | PT7-15 | 117106      | PT6-7          | 117226      | PT6-8  |
| 114859      | PT11-7         | 115067      | PT7-15 | 115358      | PT7-15 | 117107      | PT6-7          | 117227      | PT6-8  |
| 114860      | PT11-7, PT11-9 | 115068      | PT7-15 | 115359      | PT7-15 | 117108      | PT6-7          | 117228      | PT6-8  |
| 114865      | PT6-10         | 115069      | PT7-15 | 115360      | PT7-15 | 117109      | PT6-7          | 117229      | PT6-8  |
| 114866      | PT6-10         | 115070      | PT7-15 | 115361      | PT7-15 | 117110      | PT6-7          | 117230      | PT6-8  |
| 114867      | PT6-10         | 115071      | PT7-15 | 115978      | PT6-30 | 117111      | PT6-6          | 117231      | PT6-8  |
| 114868      | PT6-10         | 115072      | PT7-15 | 115979      | PT6-30 | 117112      | PT6-7          | 117232      | PT6-8  |
| 114869      | PT6-10         | 115081      | PT7-15 | 115980      | PT6-30 | 117113      | PT6-7          | 117233      | PT6-8  |
| 114870      | PT6-10         | 115086      | PT7-15 | 115982      | PT6-30 | 117114      | PT6-7          | 117234      | PT6-8  |
| 114871      | PT6-10         | 115087      | PT7-15 | 115983      | PT6-30 | 117115      | PT6-6          | 117235      | PT6-8  |
| 114872      | PT6-10         | 115088      | PT7-15 | 115984      | PT6-30 | 117116      | PT6-7          | 117236      | PT6-8  |
| 114873      | PT6-10         | 115089      | PT7-15 | 115985      | PT6-30 | 117117      | PT6-7          | 117237      | PT6-8  |
| 114874      | PT6-10         | 115090      | PT7-15 | 115986      | PT6-30 | 117118      | PT6-7, PT11-19 | 117250      | PT6-11 |
| 114875      | PT6-10         | 115091      | PT7-15 | 115987      | PT6-30 | 117119      | PT6-7          | 117267      | PT6-9  |
| 114876      | PT6-10         | 115092      | PT7-15 | 115988      | PT6-30 | 117120      | PT6-7          | 117297      | PT6-8  |
| 114877      | PT6-10         | 115093      | PT7-15 | 115989      | PT6-30 | 117121      | PT6-7          | 117307      | PT6-11 |
| 114878      | PT6-10         | 115096      | PT7-15 | 115990      | PT6-30 | 117122      | PT6-7          | 117310      | PT6-9  |
| 114879      | PT6-10         | 115097      | PT7-15 | 117004      | PT6-7  | 117124      | PT6-7          | 117311      | PT6-9  |
| 114880      | PT6-10         | 115098      | PT7-15 | 117005      | PT6-7  | 117125      | PT6-7          | 117312      | PT6-9  |
| 114881      | PT6-10         | 115123      | PT7-15 | 117007      | PT6-7  | 117126      | PT6-7          | 117313      | PT6-9  |
| 114882      | PT6-10         | 115124      | PT7-15 | 117008      | PT6-7  | 117128      | PT6-7          | 117314      | PT6-9  |
| 114883      | PT6-10         | 115125      | PT7-15 | 117009      | PT6-7  | 117129      | PT6-7          | 117315      | PT6-9  |
| 114884      | PT6-10         | 115130      | PT7-14 | 117010      | PT6-7  | 117130      | PT6-7          | 117316      | PT6-9  |
| 114885      | PT6-10         | 115131      | PT7-14 | 117011      | PT6-7  | 117132      | PT6-7          | 117317      | PT6-9  |
| 114886      | PT6-10         | 115132      | PT7-14 | 117012      | PT6-7  | 117133      | PT6-7          | 117318      | PT6-9  |
| 114887      | PT6-10         | 115133      | PT7-14 | 117013      | PT6-7  | 117134      | PT6-7          | 117319      | PT6-9  |
| 114888      | PT6-10         | 115135      | PT7-15 | 117014      | PT6-7  | 117135      | PT6-7          | 117320      | PT6-9  |
| 114889      | PT6-10         | 115136      | PT7-15 | 117015      | PT6-7  | 117136      | PT6-7          | 117321      | PT6-9  |
| 114890      | PT6-10         | 115137      | PT7-15 | 117016      | PT6-7  | 117137      | PT6-7          | 117322      | PT6-9  |
| 114891      | PT6-10         | 115138      | PT7-15 | 117017      | PT6-7  | 117139      | PT6-7          | 117323      | PT6-9  |
| 114892      | PT6-10         | 115140      | PT7-15 | 117018      | PT6-7  | 117147      | PT6-11         | 117324      | PT6-9  |
| 114893      | PT6-10         | 115141      | PT7-15 | 117019      | PT6-7  | 117149      | PT6-11         | 117325      | PT6-9  |
| 114894      | PT6-10         | 115142      | PT7-15 | 117020      | PT6-7  | 117150      | PT6-5          | 117326      | PT6-9  |
| 114895      | PT6-10         | 115143      | PT7-15 | 117021      | PT6-7  | 117151      | PT6-5          | 117327      | PT6-9  |
| 114896      | PT6-10         | 115145      | PT7-15 | 117022      | PT6-7  | 117152      | PT6-5          | 117328      | PT6-9  |
| 114897      | PT6-10         | 115146      | PT7-15 | 117023      | PT6-7  | 117153      | PT6-5          | 117329      | PT6-9  |
| 114898      | PT6-10         | 115147      | PT7-15 | 117024      | PT6-7  | 117154      | PT6-5          | 117330      | PT6-9  |
| 114899      | PT6-10         | 115148      | PT7-15 | 117025      | PT6-7  | 117155      | PT6-5          | 117331      | PT6-9  |
| 114900      | PT6-10         | 115151      | PT7-15 | 117026      | PT6-7  | 117156      | PT6-5          | 117332      | PT6-9  |
| 114993      | PT11-9         | 115152      | PT7-15 | 117027      | PT6-7  | 117157      | PT6-5          | 117333      | PT6-9  |
| 114994      | PT11-9         | 115153      | PT7-15 | 117028      | PT6-7  | 117158      | PT6-5          | 117334      | PT6-9  |
| 115000      | PT7-14         | 115155      | PT7-15 | 117029      | PT6-7  | 117159      | PT6-5          | 117335      | PT6-9  |
| 115001      | PT7-14         | 115156      | PT7-15 | 117031      | PT6-7  | 117160      | PT6-5          | 117336      | PT6-9  |
| 115006      | PT7-14         | 115157      | PT7-15 | 117032      | PT6-7  | 117161      | PT6-5          | 117337      | PT6-9  |
| 115009      | PT7-14         | 115160      | PT7-15 | 117033      | PT6-7  | 117162      | PT6-5          | 117338      | PT6-9  |
| 115010      | PT7-14         | 115161      | PT7-15 | 117035      | PT6-7  | 117163      | PT6-5          | 117340      | PT6-9  |
| 115011      | PT7-14         | 115162      | PT7-14 | 117036      | PT6-7  | 117164      | PT6-6          | 117341      | PT6-9  |





# PART NUMBER INDEX

Conveyor Components

Engineering

Part Number Index

Keyword Index

| Part Number | Page   | Part Number | Page   | Part Number | Page   | Part Number | Page   | Part Number | Page   |
|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|
| 118747      | PT4-5  | 119109      | PT6-6  | 119324      | PT6-7  | 119596      | PT6-5  | 119706      | PT6-8  |
| 118749      | PT4-5  | 119110      | PT6-6  | 119326      | PT6-7  | 119598      | PT6-6  | 119707      | PT6-8  |
| 118750      | PT4-5  | 119111      | PT6-6  | 119327      | PT6-7  | 119599      | PT6-6  | 119708      | PT6-8  |
| 118755      | PT4-5  | 119112      | PT6-6  | 119328      | PT6-7  | 119600      | PT6-6  | 119709      | PT6-8  |
| 118757      | PT4-5  | 119113      | PT6-6  | 119329      | PT6-7  | 119601      | PT6-6  | 119710      | PT6-8  |
| 118758      | PT4-5  | 119114      | PT6-6  | 119330      | PT6-7  | 119602      | PT6-6  | 119711      | PT6-8  |
| 118759      | PT4-5  | 119115      | PT6-6  | 119331      | PT6-7  | 119603      | PT6-6  | 119712      | PT6-8  |
| 118762      | PT4-5  | 119116      | PT6-6  | 119332      | PT6-7  | 119604      | PT6-6  | 119713      | PT6-8  |
| 118763      | PT4-5  | 119117      | PT6-6  | 119336      | PT6-11 | 119605      | PT6-6  | 119714      | PT6-8  |
| 118764      | PT4-5  | 119118      | PT6-6  | 119365      | PT6-5  | 119606      | PT6-6  | 119715      | PT6-8  |
| 118765      | PT4-5  | 119119      | PT6-6  | 119366      | PT6-5  | 119607      | PT6-6  | 119716      | PT6-8  |
| 118769      | PT4-5  | 119120      | PT6-6  | 119368      | PT6-5  | 119608      | PT6-6  | 119717      | PT6-8  |
| 118770      | PT4-5  | 119121      | PT6-6  | 119370      | PT6-5  | 119609      | PT6-6  | 119718      | PT6-8  |
| 118771      | PT4-5  | 119122      | PT6-6  | 119372      | PT6-5  | 119610      | PT6-6  | 119719      | PT6-8  |
| 118772      | PT4-5  | 119123      | PT6-6  | 119374      | PT6-5  | 119611      | PT6-6  | 119720      | PT6-8  |
| 118774      | PT4-5  | 119124      | PT6-6  | 119386      | PT6-11 | 119612      | PT6-6  | 119721      | PT6-8  |
| 118775      | PT4-5  | 119125      | PT6-6  | 119390      | PT6-5  | 119613      | PT6-6  | 119722      | PT6-8  |
| 118776      | PT4-5  | 119129      | PT6-6  | 119391      | PT6-5  | 119614      | PT6-6  | 119723      | PT6-8  |
| 118777      | PT4-5  | 119141      | PT6-11 | 119392      | PT6-5  | 119615      | PT6-6  | 119724      | PT6-8  |
| 118778      | PT4-5  | 119144      | PT6-6  | 119393      | PT6-5  | 119616      | PT6-6  | 119725      | PT6-8  |
| 118779      | PT4-5  | 119176      | PT6-5  | 119394      | PT6-5  | 119617      | PT6-6  | 119726      | PT6-8  |
| 118780      | PT4-5  | 119177      | PT6-5  | 119395      | PT6-5  | 119618      | PT6-6  | 119727      | PT6-8  |
| 118781      | PT4-5  | 119179      | PT6-5  | 119396      | PT6-5  | 119619      | PT6-6  | 119728      | PT6-8  |
| 118782      | PT4-5  | 119181      | PT6-5  | 119397      | PT6-5  | 119620      | PT6-6  | 119729      | PT6-8  |
| 118783      | PT4-5  | 119183      | PT6-5  | 119398      | PT6-5  | 119621      | PT6-6  | 119730      | PT6-8  |
| 118784      | PT4-5  | 119187      | PT6-11 | 119399      | PT6-5  | 119622      | PT6-6  | 119731      | PT6-8  |
| 118785      | PT4-5  | 119191      | PT6-5  | 119400      | PT6-5  | 119623      | PT6-6  | 119732      | PT6-8  |
| 118786      | PT4-5  | 119192      | PT6-5  | 119401      | PT6-5  | 119624      | PT6-7  | 119733      | PT6-8  |
| 118787      | PT4-5  | 119194      | PT6-5  | 119402      | PT6-5  | 119625      | PT6-7  | 119734      | PT6-8  |
| 118788      | PT4-5  | 119196      | PT6-5  | 119403      | PT6-5  | 119626      | PT6-7  | 119735      | PT6-8  |
| 118789      | PT4-5  | 119198      | PT6-5  | 119404      | PT6-5  | 119627      | PT6-7  | 119736      | PT6-8  |
| 118790      | PT4-5  | 119200      | PT6-5  | 119410      | PT6-11 | 119628      | PT6-7  | 119737      | PT6-8  |
| 118792      | PT4-5  | 119206      | PT6-11 | 119411      | PT6-11 | 119629      | PT6-7  | 119738      | PT6-8  |
| 118793      | PT4-5  | 119209      | PT6-11 | 119412      | PT6-11 | 119630      | PT6-7  | 119739      | PT6-8  |
| 118794      | PT4-5  | 119211      | PT6-5  | 119413      | PT6-11 | 119640      | PT6-7  | 119740      | PT6-8  |
| 118795      | PT4-5  | 119212      | PT6-5  | 119414      | PT6-11 | 119641      | PT6-7  | 119741      | PT6-8  |
| 118796      | PT4-5  | 119213      | PT6-5  | 119415      | PT6-11 | 119642      | PT6-7  | 119742      | PT6-8  |
| 118797      | PT4-5  | 119214      | PT6-5  | 119416      | PT6-11 | 119643      | PT6-7  | 119743      | PT6-8  |
| 118798      | PT4-5  | 119215      | PT6-5  | 119417      | PT6-11 | 119644      | PT6-7  | 119744      | PT6-8  |
| 119001      | PT6-5  | 119216      | PT6-5  | 119418      | PT6-11 | 119645      | PT6-7  | 119745      | PT6-8  |
| 119002      | PT6-5  | 119217      | PT6-5  | 119419      | PT6-11 | 119646      | PT6-7  | 119746      | PT6-8  |
| 119003      | PT6-5  | 119219      | PT6-5  | 119421      | PT6-11 | 119647      | PT6-7  | 119747      | PT6-8  |
| 119004      | PT6-5  | 119220      | PT6-5  | 119422      | PT6-11 | 119648      | PT6-7  | 119748      | PT6-8  |
| 119005      | PT6-5  | 119221      | PT6-5  | 119423      | PT6-11 | 119649      | PT6-7  | 119749      | PT6-8  |
| 119006      | PT6-5  | 119222      | PT6-5  | 119429      | PT6-11 | 119650      | PT6-7  | 119750      | PT6-8  |
| 119007      | PT6-5  | 119223      | PT6-5  | 119430      | PT6-11 | 119651      | PT6-5  | 119751      | PT6-8  |
| 119008      | PT6-5  | 119224      | PT6-5  | 119431      | PT6-11 | 119652      | PT6-5  | 119752      | PT6-8  |
| 119009      | PT6-5  | 119225      | PT6-5  | 119432      | PT6-11 | 119653      | PT6-5  | 119753      | PT6-8  |
| 119010      | PT6-5  | 119226      | PT6-5  | 119433      | PT6-11 | 119654      | PT6-5  | 119754      | PT6-9  |
| 119011      | PT6-5  | 119227      | PT6-5  | 119434      | PT6-11 | 119655      | PT6-5  | 119755      | PT6-9  |
| 119012      | PT6-5  | 119228      | PT6-5  | 119435      | PT6-11 | 119656      | PT6-5  | 119756      | PT6-9  |
| 119013      | PT6-5  | 119229      | PT6-5  | 119436      | PT6-11 | 119657      | PT6-5  | 119757      | PT6-9  |
| 119023      | PT6-11 | 119236      | PT6-6  | 119437      | PT6-11 | 119658      | PT6-5  | 119758      | PT6-9  |
| 119038      | PT6-6  | 119241      | PT6-6  | 119438      | PT6-5  | 119659      | PT6-5  | 119759      | PT6-9  |
| 119039      | PT6-6  | 119242      | PT6-6  | 119565      | PT6-5  | 119660      | PT6-5  | 119760      | PT6-9  |
| 119040      | PT6-6  | 119244      | PT6-6  | 119566      | PT6-5  | 119661      | PT6-5  | 119761      | PT6-9  |
| 119041      | PT6-6  | 119246      | PT6-6  | 119567      | PT6-5  | 119662      | PT6-5  | 119762      | PT6-9  |
| 119042      | PT6-6  | 119248      | PT6-6  | 119568      | PT6-5  | 119663      | PT6-6  | 119763      | PT6-9  |
| 119043      | PT6-6  | 119249      | PT6-6  | 119569      | PT6-5  | 119664      | PT6-6  | 119764      | PT6-9  |
| 119044      | PT6-6  | 119250      | PT6-6  | 119570      | PT6-5  | 119665      | PT6-6  | 119765      | PT6-9  |
| 119045      | PT6-6  | 119252      | PT6-6  | 119571      | PT6-5  | 119666      | PT6-6  | 119766      | PT6-11 |
| 119046      | PT6-6  | 119253      | PT6-6  | 119572      | PT6-5  | 119667      | PT6-6  | 119767      | PT6-11 |
| 119047      | PT6-6  | 119254      | PT6-6  | 119573      | PT6-6  | 119668      | PT6-6  | 119768      | PT6-11 |
| 119048      | PT6-6  | 119256      | PT6-6  | 119574      | PT6-6  | 119669      | PT6-6  | 119769      | PT6-11 |
| 119049      | PT6-6  | 119257      | PT6-6  | 119575      | PT6-5  | 119670      | PT6-6  | 119770      | PT6-8  |
| 119050      | PT6-6  | 119258      | PT6-6  | 119576      | PT6-5  | 119671      | PT6-6  | 119771      | PT6-8  |
| 119051      | PT6-6  | 119262      | PT6-6  | 119577      | PT6-5  | 119672      | PT6-6  | 119772      | PT6-8  |
| 119052      | PT6-6  | 119272      | PT6-11 | 119579      | PT6-5  | 119673      | PT6-7  | 119773      | PT6-8  |
| 119053      | PT6-6  | 119304      | PT6-7  | 119580      | PT6-5  | 119674      | PT6-7  | 119774      | PT6-8  |
| 119054      | PT6-6  | 119306      | PT6-7  | 119581      | PT6-5  | 119675      | PT6-7  | 119775      | PT6-8  |
| 119055      | PT6-6  | 119307      | PT6-7  | 119582      | PT6-5  | 119676      | PT6-7  | 119776      | PT6-8  |
| 119056      | PT6-6  | 119308      | PT6-7  | 119583      | PT6-5  | 119677      | PT6-7  | 119777      | PT6-8  |
| 119057      | PT6-6  | 119310      | PT6-7  | 119584      | PT6-5  | 119678      | PT6-7  | 119778      | PT6-8  |
| 119058      | PT6-6  | 119311      | PT6-7  | 119585      | PT6-5  | 119679      | PT6-7  | 119779      | PT6-8  |
| 119067      | PT6-11 | 119312      | PT6-7  | 119586      | PT6-5  | 119680      | PT6-7  | 119780      | PT6-8  |
| 119068      | PT6-6  | 119314      | PT6-7  | 119587      | PT6-5  | 119681      | PT6-7  | 119781      | PT6-8  |
| 119100      | PT6-6  | 119315      | PT6-7  | 119588      | PT6-5  | 119682      | PT6-7  | 119782      | PT6-8  |
| 119102      | PT6-6  | 119316      | PT6-7  | 119589      | PT6-5  | 119683      | PT6-8  | 119783      | PT6-8  |
| 119103      | PT6-6  | 119318      | PT6-7  | 119590      | PT6-5  | 119700      | PT6-11 | 119784      | PT6-9  |
| 119104      | PT6-6  | 119319      | PT6-7  | 119591      | PT6-5  | 119701      | PT6-11 | 119785      | PT6-9  |
| 119105      | PT6-6  | 119320      | PT6-7  | 119592      | PT6-5  | 119702      | PT6-8  | 119786      | PT6-9  |
| 119106      | PT6-6  | 119321      | PT6-7  | 119593      | PT6-5  | 119703      | PT6-8  | 119787      | PT6-9  |
| 119107      | PT6-6  | 119322      | PT6-7  | 119594      | PT6-5  | 119704      | PT6-8  | 119788      | PT6-9  |
| 119108      | PT6-6  | 119323      | PT6-7  | 119595      | PT6-5  | 119705      | PT6-8  | 119789      | PT6-11 |





# PART NUMBER INDEX

Conveyor Components

Engineering

Part Number Index

Keyword Index

| Part Number | Page           | Part Number | Page   | Part Number | Page  | Part Number | Page          | Part Number | Page          |
|-------------|----------------|-------------|--------|-------------|-------|-------------|---------------|-------------|---------------|
| 120502      | PT6-20         | 120612      | PT6-21 | 120927      | PT8-5 | 121045      | PT8-7         | 121134      | PT6-18, PT8-7 |
| 120503      | PT6-20         | 120613      | PT6-21 | 120929      | PT8-5 | 121046      | PT8-7         | 121136      | PT6-18, PT8-7 |
| 120504      | PT6-20         | 120614      | PT6-21 | 120930      | PT8-5 | 121048      | PT8-7         | 121138      | PT6-18, PT8-7 |
| 120505      | PT6-20         | 120615      | PT6-21 | 120932      | PT8-5 | 121049      | PT8-7         | 121140      | PT6-18, PT8-7 |
| 120506      | PT6-20         | 120617      | PT6-21 | 120933      | PT8-5 | 121050      | PT8-7         | 121144      | PT6-18, PT8-7 |
| 120507      | PT6-20         | 120618      | PT6-21 | 120942      | PT8-5 | 121051      | PT8-7         | 121145      | PT6-18, PT8-7 |
| 120508      | PT6-20         | 120619      | PT6-21 | 120943      | PT8-5 | 121052      | PT8-7         | 121146      | PT6-18, PT8-7 |
| 120509      | PT6-20         | 120620      | PT6-21 | 120945      | PT8-5 | 121053      | PT8-7         | 121147      | PT6-18, PT8-7 |
| 120510      | PT6-20         | 120621      | PT6-21 | 120946      | PT8-5 | 121054      | PT8-7         | 121148      | PT6-18, PT8-7 |
| 120511      | PT6-20         | 120622      | PT6-21 | 120947      | PT8-5 | 121055      | PT8-7         | 121149      | PT6-18, PT8-7 |
| 120512      | PT6-20         | 120623      | PT6-21 | 120949      | PT8-5 | 121056      | PT8-7         | 121150      | PT8-7         |
| 120513      | PT6-20         | 120624      | PT6-21 | 120950      | PT8-5 | 121057      | PT8-7         | 121151      | PT6-18, PT8-7 |
| 120514      | PT6-20         | 120625      | PT6-21 | 120951      | PT8-5 | 121058      | PT8-7         | 121152      | PT8-7         |
| 120516      | PT6-20         | 120626      | PT6-21 | 120952      | PT8-5 | 121059      | PT8-7         | 121153      | PT6-18, PT8-7 |
| 120517      | PT6-20         | 120627      | PT6-21 | 120953      | PT8-5 | 121060      | PT8-7         | 121154      | PT6-18, PT8-7 |
| 120518      | PT6-20         | 120628      | PT6-21 | 120954      | PT8-5 | 121061      | PT8-7         | 121162      | PT6-18, PT8-7 |
| 120519      | PT6-20         | 120629      | PT6-21 | 120955      | PT8-5 | 121062      | PT8-7         | 121163      | PT6-18, PT8-7 |
| 120520      | PT6-20         | 120630      | PT6-21 | 120956      | PT8-5 | 121063      | PT8-7         | 121164      | PT6-18, PT8-7 |
| 120521      | PT6-20         | 120631      | PT6-21 | 120957      | PT8-5 | 121064      | PT8-7         | 121186      | PT6-18, PT8-7 |
| 120522      | PT6-20         | 120632      | PT6-21 | 120958      | PT8-5 | 121065      | PT8-7         | 121187      | PT6-18, PT8-7 |
| 120524      | PT6-20         | 120633      | PT6-21 | 120959      | PT8-5 | 121066      | PT8-7         | 121203      | PT8-9         |
| 120525      | PT6-20         | 120634      | PT6-21 | 120960      | PT8-5 | 121067      | PT8-7         | 121207      | PT8-9         |
| 120526      | PT6-20         | 120635      | PT6-21 | 120961      | PT8-5 | 121068      | PT8-7         | 121208      | PT8-9         |
| 120527      | PT6-20         | 120636      | PT6-21 | 120962      | PT8-5 | 121069      | PT8-7         | 121209      | PT8-9         |
| 120528      | PT6-20         | 120637      | PT6-21 | 120963      | PT8-5 | 121070      | PT8-7         | 121210      | PT8-9         |
| 120529      | PT6-20         | 120847      | PT8-5  | 120972      | PT8-5 | 121072      | PT8-8         | 121211      | PT8-9         |
| 120530      | PT6-20         | 120848      | PT8-5  | 120973      | PT8-5 | 121073      | PT8-8         | 121212      | PT8-9         |
| 120531      | PT6-20         | 120850      | PT8-5  | 120974      | PT8-5 | 121074      | PT8-8         | 121213      | PT8-9         |
| 120533      | PT6-20         | 120851      | PT8-5  | 120975      | PT8-5 | 121075      | PT8-8         | 121214      | PT8-9         |
| 120534      | PT6-20         | 120852      | PT8-5  | 120976      | PT8-5 | 121076      | PT8-8         | 121215      | PT8-9         |
| 120535      | PT6-20         | 120853      | PT8-5  | 120977      | PT8-5 | 121077      | PT8-8         | 121216      | PT8-9         |
| 120537      | PT6-20         | 120854      | PT8-5  | 120978      | PT8-5 | 121078      | PT8-8         | 121217      | PT8-9         |
| 120538      | PT6-20         | 120855      | PT8-5  | 120980      | PT8-5 | 121079      | PT8-8         | 121218      | PT8-9         |
| 120539      | PT6-20         | 120856      | PT8-5  | 120981      | PT8-5 | 121080      | PT8-8         | 121219      | PT8-9         |
| 120540      | PT6-20         | 120857      | PT8-5  | 120982      | PT8-5 | 121081      | PT8-8         | 121220      | PT8-9         |
| 120541      | PT6-20         | 120858      | PT8-5  | 120985      | PT8-5 | 121082      | PT8-8         | 121221      | PT8-9         |
| 120542      | PT6-20         | 120859      | PT8-5  | 120989      | PT8-5 | 121083      | PT8-8         | 121222      | PT8-9         |
| 120543      | PT6-20         | 120860      | PT8-5  | 120990      | PT8-5 | 121084      | PT8-8         | 121223      | PT8-9         |
| 120544      | PT6-20         | 120861      | PT8-5  | 120991      | PT8-5 | 121085      | PT8-8         | 121224      | PT8-9         |
| 120545      | PT6-20         | 120862      | PT8-5  | 120992      | PT8-5 | 121086      | PT8-8         | 121225      | PT8-9         |
| 120546      | PT6-20         | 120863      | PT8-5  | 120994      | PT8-5 | 121087      | PT8-8         | 121226      | PT8-9         |
| 120547      | PT6-20         | 120864      | PT8-5  | 120995      | PT8-5 | 121088      | PT8-8         | 121227      | PT8-9         |
| 120548      | PT6-20         | 120865      | PT8-5  | 120996      | PT8-5 | 121089      | PT8-8         | 121228      | PT8-9         |
| 120549      | PT6-20         | 120866      | PT8-5  | 120997      | PT8-5 | 121090      | PT8-8         | 121229      | PT8-9         |
| 120550      | PT6-20         | 120867      | PT8-5  | 120998      | PT8-5 | 121091      | PT8-8         | 121230      | PT8-9         |
| 120551      | PT6-20         | 120874      | PT8-5  | 121000      | PT8-5 | 121092      | PT8-8         | 121231      | PT8-9         |
| 120552      | PT6-21         | 120875      | PT8-5  | 121001      | PT8-5 | 121093      | PT8-8         | 121232      | PT8-9         |
| 120553      | PT6-21         | 120876      | PT8-5  | 121008      | PT8-7 | 121094      | PT8-8         | 121233      | PT8-9         |
| 120554      | PT6-21         | 120877      | PT8-5  | 121009      | PT8-8 | 121095      | PT8-8         | 121234      | PT8-9         |
| 120555      | PT6-21         | 120878      | PT8-5  | 121010      | PT8-5 | 121096      | PT8-8         | 121235      | PT8-9         |
| 120557      | PT6-21         | 120885      | PT8-5  | 121011      | PT8-5 | 121097      | PT8-8         | 121236      | PT8-9         |
| 120558      | PT6-21         | 120886      | PT8-5  | 121012      | PT8-5 | 121098      | PT8-8         | 121237      | PT8-9         |
| 120559      | PT6-21         | 120887      | PT8-5  | 121013      | PT8-5 | 121099      | PT8-8         | 121239      | PT8-9         |
| 120560      | PT6-21         | 120888      | PT8-5  | 121014      | PT8-5 | 121100      | PT8-8         | 121240      | PT8-9         |
| 120561      | PT6-21         | 120889      | PT8-5  | 121015      | PT8-5 | 121101      | PT8-8         | 121241      | PT8-9         |
| 120562      | PT6-21         | 120890      | PT8-5  | 121016      | PT8-8 | 121102      | PT8-8         | 121242      | PT8-9         |
| 120563      | PT6-21         | 120892      | PT8-5  | 121017      | PT8-7 | 121103      | PT8-8         | 121243      | PT8-9         |
| 120565      | PT6-21         | 120893      | PT8-5  | 121018      | PT8-7 | 121105      | PT8-8         | 121244      | PT8-9         |
| 120566      | PT6-21         | 120894      | PT8-5  | 121019      | PT8-7 | 121106      | PT8-8         | 121246      | PT8-9         |
| 120567      | PT6-21         | 120895      | PT8-5  | 121020      | PT8-7 | 121107      | PT8-8         | 121247      | PT8-9         |
| 120569      | PT6-21         | 120896      | PT8-5  | 121021      | PT8-7 | 121108      | PT8-8         | 121248      | PT8-9         |
| 120570      | PT6-21         | 120897      | PT8-5  | 121022      | PT8-7 | 121109      | PT8-8         | 121249      | PT8-9         |
| 120571      | PT6-21         | 120899      | PT8-5  | 121023      | PT8-7 | 121110      | PT8-8         | 121251      | PT8-9         |
| 120573      | PT6-21         | 120900      | PT8-5  | 121024      | PT8-7 | 121111      | PT8-8         | 121266      | PT8-9         |
| 120574      | PT6-21         | 120901      | PT8-5  | 121025      | PT8-7 | 121112      | PT8-8         | 121267      | PT8-9         |
| 120575      | PT6-21         | 120902      | PT8-5  | 121026      | PT8-7 | 121113      | PT8-8         | 121268      | PT8-9         |
| 120577      | PT6-21         | 120903      | PT8-5  | 121027      | PT8-7 | 121114      | PT8-8         | 121269      | PT8-9         |
| 120578      | PT6-21         | 120910      | PT8-5  | 121028      | PT8-7 | 121115      | PT8-8         | 121270      | PT8-9         |
| 120579      | PT6-21         | 120911      | PT8-5  | 121029      | PT8-7 | 121116      | PT8-8         | 121271      | PT8-9         |
| 120580      | PT3-18, PT6-18 | 120912      | PT8-5  | 121030      | PT8-7 | 121117      | PT8-8         | 121272      | PT8-9         |
| 120581      | PT6-19         | 120913      | PT8-5  | 121031      | PT8-7 | 121118      | PT8-8         | 121273      | PT8-9         |
| 120592      | PT6-20         | 120914      | PT8-5  | 121032      | PT8-7 | 121119      | PT8-8         | 121274      | PT8-9         |
| 120595      | PT6-23, PT8-7  | 120915      | PT8-5  | 121033      | PT8-7 | 121120      | PT8-8         | 121275      | PT8-9         |
| 120600      | PT6-21         | 120916      | PT8-5  | 121034      | PT8-7 | 121121      | PT8-8         | 121276      | PT8-9         |
| 120601      | PT6-21         | 120917      | PT8-5  | 121035      | PT8-7 | 121122      | PT8-8         | 121277      | PT8-9         |
| 120603      | PT6-21         | 120918      | PT8-5  | 121036      | PT8-7 | 121123      | PT8-8         | 121278      | PT8-9         |
| 120604      | PT6-21         | 120919      | PT8-5  | 121037      | PT8-7 | 121124      | PT8-8         | 121279      | PT8-9         |
| 120605      | PT6-21         | 120920      | PT8-5  | 121038      | PT8-7 | 121125      | PT8-8         | 121281      | PT8-9         |
| 120606      | PT6-21         | 120921      | PT8-5  | 121039      | PT8-7 | 121126      | PT8-8         | 121282      | PT8-9         |
| 120607      | PT6-21         | 120922      | PT8-5  | 121040      | PT8-7 | 121127      | PT8-8         | 121283      | PT8-9         |
| 120608      | PT6-21         | 120923      | PT8-5  | 121041      | PT8-7 | 121129      | PT6-18, PT8-7 | 121285      | PT8-9         |
| 120609      | PT6-21         | 120924      | PT8-5  | 121042      | PT8-7 | 121130      | PT6-18, PT8-7 | 121286      | PT8-9         |
| 120610      | PT6-21         | 120925      | PT8-5  | 121043      | PT8-7 | 121131      | PT6-18, PT8-7 | 121287      | PT8-9         |
| 120611      | PT6-21         | 120926      | PT8-5  | 121044      | PT8-7 | 121133      | PT6-18, PT8-7 | 121288      | PT8-9         |











# PART NUMBER INDEX

Conveyor Components

Engineering

Part Number Index

Keyword Index

| Part Number | Page             | Part Number | Page    | Part Number | Page             | Part Number | Page             | Part Number | Page             |
|-------------|------------------|-------------|---------|-------------|------------------|-------------|------------------|-------------|------------------|
| 146545      | PT11-18          | 146629      | PT11-18 | 201006      | PT14-40          | 202058      | PT14-58          | 202142      | PT14-58          |
| 146546      | PT11-18          | 146630      | PT11-18 | 201007      | PT14-40          | 202059      | PT14-58          | 202143      | PT14-58          |
| 146547      | PT11-18          | 146631      | PT11-18 | 201008      | PT14-40          | 202060      | PT14-16, PT14-58 | 202144      | PT14-58          |
| 146548      | PT11-18          | 146633      | PT11-18 | 201009      | PT14-40          | 202061      | PT14-16, PT14-58 | 202145      | PT14-58          |
| 146549      | PT11-18          | 146634      | PT11-18 | 201012      | PT14-39          | 202062      | PT14-16, PT14-58 | 202146      | PT14-58          |
| 146550      | PT11-18          | 146635      | PT11-18 | 201013      | PT14-39          | 202063      | PT14-16, PT14-58 | 202147      | PT14-58          |
| 146551      | PT11-18          | 146636      | PT11-18 | 201014      | PT14-40          | 202064      | PT14-16, PT14-58 | 202148      | PT14-58          |
| 146552      | PT11-18          | 146637      | PT11-18 | 201015      | PT14-40          | 202065      | PT14-58          | 202149      | PT14-58          |
| 146553      | PT11-18          | 146638      | PT11-18 | 201016      | PT14-40          | 202066      | PT14-16, PT14-58 | 202150      | PT14-58          |
| 146554      | PT11-18          | 146639      | PT11-18 | 201018      | PT14-39          | 202067      | PT14-16, PT14-58 | 202151      | PT14-16, PT14-58 |
| 146555      | PT11-18          | 146640      | PT11-18 | 201019      | PT14-39          | 202068      | PT14-16, PT14-58 | 203005      | PT14-63          |
| 146556      | PT11-18          | 146641      | PT11-18 | 201020      | PT14-39          | 202069      | PT14-16, PT14-58 | 203006      | PT14-63          |
| 146557      | PT11-18          | 151152      | PT6-18  | 201021      | PT14-40          | 202070      | PT14-16, PT14-58 | 203007      | PT14-63          |
| 146558      | PT11-18          | 200001      | PT14-63 | 201022      | PT14-40          | 202071      | PT14-16, PT14-58 | 203008      | PT14-63          |
| 146559      | PT11-18          | 200002      | PT14-63 | 201023      | PT14-40          | 202072      | PT14-16, PT14-58 | 203015      | PT14-63          |
| 146560      | PT11-18          | 200003      | PT14-63 | 201024      | PT14-40          | 202073      | PT14-16, PT14-58 | 203016      | PT14-63          |
| 146561      | PT11-18          | 200004      | PT14-63 | 201031      | PT14-39          | 202074      | PT14-16, PT14-58 | 203017      | PT14-63          |
| 146562      | PT11-18          | 200005      | PT14-63 | 201032      | PT14-39          | 202075      | PT14-16, PT14-58 | 203018      | PT14-63          |
| 146563      | PT11-18          | 200006      | PT14-63 | 201033      | PT14-40          | 202076      | PT14-16, PT14-58 | 203025      | PT14-63          |
| 146564      | PT11-18          | 200007      | PT14-63 | 201034      | PT14-40          | 202077      | PT14-16, PT14-58 | 203026      | PT14-63          |
| 146565      | PT11-18          | 200008      | PT14-63 | 201035      | PT14-40          | 202078      | PT14-16, PT14-58 | 203027      | PT14-63          |
| 146566      | PT11-18          | 200010      | PT14-63 | 201036      | PT14-40          | 202079      | PT14-16, PT14-58 | 203028      | PT14-63          |
| 146567      | PT11-18          | 200011      | PT14-63 | 201040      | PT14-40          | 202080      | PT14-58          | 203094      | PT14-36          |
| 146568      | PT11-18          | 200012      | PT14-63 | 201042      | PT14-40          | 202081      | PT14-58          | 203096      | PT14-24          |
| 146569      | PT11-18          | 200013      | PT14-63 | 201043      | PT14-39          | 202082      | PT14-58          | 203097      | PT14-17          |
| 146570      | PT11-18          | 200014      | PT14-63 | 201045      | PT14-40          | 202083      | PT14-58          | 203098      | PT14-17          |
| 146571      | PT11-18          | 200016      | PT14-63 | 202000      | PT14-58          | 202084      | PT14-58          | 203099      | PT14-24          |
| 146572      | PT11-18          | 200017      | PT14-63 | 202001      | PT14-58          | 202085      | PT14-16, PT14-58 | 203100      | PT14-54          |
| 146573      | PT11-18          | 200018      | PT14-63 | 202002      | PT14-16, PT14-58 | 202086      | PT14-16, PT14-58 | 203101      | PT14-54          |
| 146574      | PT11-18          | 200019      | PT14-63 | 202003      | PT14-58          | 202087      | PT14-16, PT14-58 | 203102      | PT14-55          |
| 146575      | PT11-18          | 200020      | PT14-63 | 202004      | PT14-58          | 202088      | PT14-16, PT14-58 | 203103      | PT14-55          |
| 146576      | PT11-18          | 200021      | PT14-63 | 202005      | PT14-16, PT14-58 | 202089      | PT14-16, PT14-58 | 203104      | PT14-55          |
| 146577      | PT11-18          | 200022      | PT14-63 | 202006      | PT14-16, PT14-58 | 202090      | PT14-16, PT14-58 | 203105      | PT14-55          |
| 146578      | PT11-18          | 200023      | PT14-63 | 202007      | PT14-16, PT14-58 | 202091      | PT14-16, PT14-58 | 203106      | PT14-54          |
| 146579      | PT11-18          | 200024      | PT14-63 | 202008      | PT14-58          | 202092      | PT14-16, PT14-58 | 203107      | PT14-54          |
| 146580      | PT11-18          | 200026      | PT14-63 | 202009      | PT14-16, PT14-58 | 202093      | PT14-58          | 203108      | PT14-54          |
| 146581      | PT11-18          | 200027      | PT14-63 | 202010      | PT14-16, PT14-58 | 202094      | PT14-58          | 203109      | PT14-55          |
| 146582      | PT11-18          | 200028      | PT14-63 | 202011      | PT14-16, PT14-58 | 202095      | PT14-16, PT14-58 | 203110      | PT14-55          |
| 146583      | PT11-18          | 200029      | PT14-63 | 202012      | PT14-58          | 202096      | PT14-16, PT14-58 | 203111      | PT14-55          |
| 146584      | PT11-18          | 200030      | PT14-63 | 202013      | PT14-58          | 202097      | PT14-16, PT14-58 | 203112      | PT14-55          |
| 146585      | PT11-18          | 200031      | PT14-63 | 202014      | PT14-58          | 202098      | PT14-16, PT14-58 | 203113      | PT14-55          |
| 146586      | PT11-18          | 200034      | PT14-63 | 202015      | PT14-16, PT14-58 | 202099      | PT14-16, PT14-58 | 203114      | PT14-55          |
| 146587      | PT11-18          | 200035      | PT14-63 | 202016      | PT14-16, PT14-58 | 202100      | PT14-16, PT14-58 | 203115      | PT14-54          |
| 146588      | PT11-18          | 200036      | PT14-63 | 202017      | PT14-16, PT14-58 | 202101      | PT14-16, PT14-58 | 203116      | PT14-54          |
| 146589      | PT11-18          | 200037      | PT14-63 | 202018      | PT14-16, PT14-58 | 202102      | PT14-16, PT14-58 | 203117      | PT14-54          |
| 146590      | PT11-18          | 200038      | PT14-63 | 202019      | PT14-16, PT14-58 | 202103      | PT14-16, PT14-58 | 203118      | PT14-55          |
| 146591      | PT11-18          | 200039      | PT14-63 | 202020      | PT14-58          | 202104      | PT14-16, PT14-58 | 203119      | PT14-55          |
| 146592      | PT11-18          | 200040      | PT14-63 | 202021      | PT14-58          | 202105      | PT14-16, PT14-58 | 203120      | PT14-55          |
| 146593      | PT11-18          | 200042      | PT14-63 | 202022      | PT14-58          | 202106      | PT14-16, PT14-58 | 203121      | PT14-55          |
| 146594      | PT11-18          | 200043      | PT14-63 | 202023      | PT14-16, PT14-58 | 202107      | PT14-16, PT14-58 | 203122      | PT14-55          |
| 146595      | PT11-18          | 200045      | PT14-63 | 202024      | PT14-16, PT14-58 | 202108      | PT14-16, PT14-58 | 203123      | PT14-55          |
| 146596      | PT11-18          | 200050      | PT14-63 | 202025      | PT14-16, PT14-58 | 202109      | PT14-16, PT14-58 | 203124      | PT14-55          |
| 146597      | PT11-18          | 200051      | PT14-63 | 202026      | PT14-58          | 202110      | PT14-16, PT14-58 | 203125      | PT14-54          |
| 146598      | PT11-18          | 200052      | PT14-63 | 202027      | PT14-58          | 202111      | PT14-16, PT14-58 | 203126      | PT14-54          |
| 146599      | PT11-18          | 200053      | PT14-63 | 202028      | PT14-58          | 202112      | PT14-58          | 203127      | PT14-54          |
| 146600      | PT11-18          | 200054      | PT14-63 | 202029      | PT14-16, PT14-58 | 202113      | PT14-58          | 203128      | PT14-54          |
| 146601      | PT11-18          | 200055      | PT14-63 | 202030      | PT14-16, PT14-58 | 202114      | PT14-58          | 203129      | PT14-54          |
| 146602      | PT11-18, PT11-19 | 200056      | PT14-63 | 202031      | PT14-16, PT14-58 | 202115      | PT14-58          | 203130      | PT14-55          |
| 146603      | PT11-18          | 200070      | PT14-63 | 202032      | PT14-16, PT14-58 | 202116      | PT14-58          | 203131      | PT14-55          |
| 146604      | PT11-18          | 200071      | PT14-63 | 202033      | PT14-58          | 202117      | PT14-58          | 203132      | PT14-55          |
| 146605      | PT11-18          | 200072      | PT14-63 | 202034      | PT14-58          | 202118      | PT14-58          | 203133      | PT14-55          |
| 146606      | PT11-18          | 200073      | PT14-63 | 202035      | PT14-16, PT14-58 | 202119      | PT14-58          | 203134      | PT14-55          |
| 146607      | PT11-18          | 200074      | PT14-63 | 202036      | PT14-16, PT14-58 | 202120      | PT14-58          | 203135      | PT14-55          |
| 146608      | PT11-18          | 200075      | PT14-63 | 202037      | PT14-16, PT14-58 | 202121      | PT14-58          | 203136      | PT14-55          |
| 146609      | PT11-18          | 200076      | PT14-63 | 202038      | PT14-16, PT14-58 | 202122      | PT14-58          | 203137      | PT14-55          |
| 146610      | PT11-18          | 200088      | PT14-63 | 202039      | PT14-58          | 202123      | PT14-58          | 203138      | PT14-55          |
| 146611      | PT11-18          | 200089      | PT14-63 | 202040      | PT14-58          | 202124      | PT14-58          | 203139      | PT14-55          |
| 146612      | PT11-18          | 200090      | PT14-63 | 202041      | PT14-16, PT14-58 | 202125      | PT14-58          | 203140      | PT14-55          |
| 146613      | PT11-18          | 200091      | PT14-63 | 202042      | PT14-16, PT14-58 | 202126      | PT14-58          | 203141      | PT14-55          |
| 146614      | PT11-18          | 200092      | PT14-63 | 202043      | PT14-16, PT14-58 | 202127      | PT14-58          | 203142      | PT14-54          |
| 146615      | PT11-18          | 200093      | PT14-63 | 202044      | PT14-16, PT14-58 | 202128      | PT14-58          | 203143      | PT14-54          |
| 146616      | PT11-18          | 200094      | PT14-63 | 202045      | PT14-16, PT14-58 | 202129      | PT14-58          | 203144      | PT14-54          |
| 146617      | PT11-18          | 201006      | PT14-63 | 202046      | PT14-16, PT14-58 | 202130      | PT14-58          | 203145      | PT14-54          |
| 146618      | PT11-18          | 201007      | PT14-63 | 202047      | PT14-16, PT14-58 | 202131      | PT14-58          | 203146      | PT14-54          |
| 146619      | PT11-18          | 201009      | PT14-63 | 202048      | PT14-16, PT14-58 | 202132      | PT14-58          | 203147      | PT14-55          |
| 146620      | PT11-18          | 201025      | PT14-63 | 202049      | PT14-16, PT14-58 | 202133      | PT14-58          | 203148      | PT14-55          |
| 146621      | PT11-18          | 201026      | PT14-63 | 202050      | PT14-16, PT14-58 | 202134      | PT14-58          | 203149      | PT14-55          |
| 146622      | PT11-18          | 201027      | PT14-63 | 202051      | PT14-16, PT14-58 | 202135      | PT14-58          | 203150      | PT14-55          |
| 146623      | PT11-18          | 201000      | PT14-39 | 202052      | PT14-16, PT14-58 | 202136      | PT14-58          | 203151      | PT14-55          |
| 146624      | PT11-18          | 201001      | PT14-39 | 202053      | PT14-16, PT14-58 | 202137      | PT14-58          | 203152      | PT14-55          |
| 146625      | PT11-18          | 201002      | PT14-40 | 202054      | PT14-16, PT14-58 | 202138      | PT14-58          | 203153      | PT14-55          |
| 146626      | PT11-18          | 201003      | PT14-40 | 202055      | PT14-58          | 202139      | PT14-58          | 203154      | PT14-55          |
| 146627      | PT11-18          | 201004      | PT14-39 | 202056      | PT14-58          | 202140      | PT14-58          | 203155      | PT14-55          |
| 146628      | PT11-18          | 201005      | PT14-39 | 202057      | PT14-58          | 202141      | PT14-58          | 203156      | PT14-55          |

# PART NUMBER INDEX



| Part Number | Page             | Part Number | Page    | Part Number | Page             | Part Number | Page             | Part Number | Page             |
|-------------|------------------|-------------|---------|-------------|------------------|-------------|------------------|-------------|------------------|
| 203157      | PT14-54          | 203340      | PT14-16 | 203577      | PT14-17          | 203691      | PT14-17          | 203808      | PT14-17          |
| 203158      | PT14-54          | 203341      | PT14-16 | 203578      | PT14-17          | 203692      | PT14-17          | 203809      | PT14-17          |
| 203159      | PT14-54          | 203342      | PT14-17 | 203579      | PT14-17          | 203695      | PT14-17          | 203810      | PT14-17          |
| 203160      | PT14-54          | 203343      | PT14-17 | 203581      | PT14-17          | 203696      | PT14-17          | 203811      | PT14-17          |
| 203161      | PT14-54          | 203344      | PT14-17 | 203582      | PT14-17          | 203697      | PT14-17          | 203812      | PT14-17          |
| 203162      | PT14-54          | 203346      | PT14-17 | 203583      | PT14-17          | 203698      | PT14-17          | 203813      | PT14-17          |
| 203163      | PT14-55          | 203349      | PT14-17 | 203584      | PT14-17          | 203700      | PT14-17          | 203814      | PT14-16, PT14-58 |
| 203164      | PT14-55          | 203350      | PT14-17 | 203585      | PT14-17          | 203701      | PT14-17          | 203816      | PT14-16, PT14-58 |
| 203165      | PT14-55          | 203352      | PT14-17 | 203586      | PT14-17          | 203703      | PT14-16, PT14-58 | 203817      | PT14-16, PT14-58 |
| 203166      | PT14-55          | 203355      | PT14-17 | 203587      | PT14-17          | 203704      | PT14-16, PT14-58 | 203818      | PT14-16, PT14-58 |
| 203167      | PT14-55          | 203359      | PT14-17 | 203588      | PT14-17          | 203707      | PT14-16, PT14-58 | 203819      | PT14-16, PT14-58 |
| 203168      | PT14-55          | 203361      | PT14-17 | 203589      | PT14-17          | 203709      | PT14-16, PT14-58 | 203820      | PT14-16, PT14-58 |
| 203169      | PT14-55          | 203362      | PT14-17 | 203590      | PT14-17          | 203710      | PT14-16          | 203821      | PT14-16, PT14-58 |
| 203170      | PT14-54          | 203363      | PT14-17 | 203591      | PT14-17          | 203712      | PT14-16, PT14-58 | 203822      | PT14-16          |
| 203171      | PT14-54          | 203364      | PT14-17 | 203592      | PT14-17          | 203713      | PT14-16, PT14-58 | 203824      | PT14-16, PT14-58 |
| 203172      | PT14-54          | 203371      | PT14-17 | 203593      | PT14-17          | 203715      | PT14-16          | 203826      | PT14-16          |
| 203173      | PT14-54          | 203373      | PT14-17 | 203594      | PT14-16          | 203718      | PT14-16, PT14-58 | 203827      | PT14-16, PT14-58 |
| 203174      | PT14-54          | 203392      | PT14-58 | 203596      | PT14-16          | 203719      | PT14-16, PT14-58 | 203828      | PT14-16, PT14-58 |
| 203175      | PT14-55          | 203393      | PT14-17 | 203597      | PT14-16          | 203723      | PT14-16          | 203829      | PT14-16, PT14-58 |
| 203176      | PT14-55          | 203394      | PT14-17 | 203600      | PT14-16          | 203725      | PT14-16          | 203831      | PT14-16          |
| 203177      | PT14-55          | 203398      | PT14-17 | 203603      | PT14-16          | 203726      | PT14-16          | 203832      | PT14-16          |
| 203178      | PT14-55          | 203401      | PT14-17 | 203606      | PT14-16          | 203727      | PT14-16          | 203833      | PT14-16          |
| 203179      | PT14-55          | 203402      | PT14-17 | 203607      | PT14-16          | 203728      | PT14-16          | 203836      | PT14-16          |
| 203180      | PT14-55          | 203403      | PT14-17 | 203608      | PT14-16          | 203729      | PT14-16          | 203837      | PT14-17          |
| 203181      | PT14-55          | 203406      | PT14-17 | 203609      | PT14-16          | 203730      | PT14-16          | 203838      | PT14-17          |
| 203182      | PT14-55          | 203408      | PT14-17 | 203610      | PT14-16          | 203731      | PT14-16          | 203839      | PT14-17          |
| 203183      | PT14-55          | 203409      | PT14-17 | 203613      | PT14-16          | 203732      | PT14-16          | 203840      | PT14-17          |
| 203184      | PT14-55          | 203410      | PT14-17 | 203616      | PT14-16          | 203734      | PT14-16          | 203841      | PT14-17          |
| 203185      | PT14-55          | 203414      | PT14-17 | 203617      | PT14-16          | 203735      | PT14-17          | 203842      | PT14-17          |
| 203186      | PT14-55          | 203430      | PT14-58 | 203618      | PT14-16          | 203737      | PT14-17          | 203843      | PT14-17          |
| 203187      | PT14-55          | 203431      | PT14-58 | 203620      | PT14-16          | 203738      | PT14-17          | 203844      | PT14-17          |
| 203188      | PT14-55          | 203437      | PT14-17 | 203621      | PT14-16          | 203739      | PT14-17          | 203845      | PT14-17          |
| 203189      | PT14-55          | 203438      | PT14-17 | 203622      | PT14-16          | 203740      | PT14-17          | 203846      | PT14-17          |
| 203190      | PT14-55          | 203439      | PT14-17 | 203623      | PT14-16          | 203741      | PT14-17          | 203848      | PT14-17          |
| 203191      | PT14-55          | 203441      | PT14-17 | 203624      | PT14-17          | 203742      | PT14-17          | 203849      | PT14-17          |
| 203192      | PT14-55          | 203455      | PT14-35 | 203625      | PT14-17          | 203744      | PT14-17          | 203850      | PT14-17          |
| 203193      | PT14-55          | 203473      | PT14-21 | 203627      | PT14-17          | 203745      | PT14-17          | 203853      | PT14-17          |
| 203194      | PT14-55          | 203474      | PT14-17 | 203629      | PT14-17          | 203746      | PT14-17          | 203854      | PT14-17          |
| 203195      | PT14-55          | 203475      | PT14-17 | 203631      | PT14-17          | 203748      | PT14-17          | 203855      | PT14-17          |
| 203196      | PT14-55          | 203477      | PT14-16 | 203633      | PT14-16          | 203749      | PT14-17          | 203856      | PT14-17          |
| 203197      | PT14-55          | 203479      | PT14-16 | 203634      | PT14-17          | 203750      | PT14-17          | 203857      | PT14-16, PT14-58 |
| 203198      | PT14-55          | 203482      | PT14-36 | 203635      | PT14-17          | 203751      | PT14-17          | 203858      | PT14-16, PT14-58 |
| 203199      | PT14-55          | 203483      | PT14-36 | 203636      | PT14-17          | 203753      | PT14-17          | 203860      | PT14-16, PT14-58 |
| 203200      | PT14-55          | 203484      | PT14-36 | 203637      | PT14-17          | 203754      | PT14-17          | 203861      | PT14-16, PT14-58 |
| 203201      | PT14-55          | 203485      | PT14-36 | 203638      | PT14-17          | 203755      | PT14-17          | 203862      | PT14-16, PT14-58 |
| 203202      | PT14-54          | 203486      | PT14-36 | 203639      | PT14-17          | 203756      | PT14-17          | 203863      | PT14-16, PT14-58 |
| 203203      | PT14-17          | 203500      | PT14-16 | 203641      | PT14-17          | 203757      | PT14-17          | 203864      | PT14-16, PT14-58 |
| 203204      | PT14-17          | 203501      | PT14-16 | 203642      | PT14-17          | 203758      | PT14-17          | 203865      | PT14-16, PT14-58 |
| 203205      | PT14-17          | 203502      | PT14-16 | 203643      | PT14-17          | 203759      | PT14-17          | 203868      | PT14-16, PT14-58 |
| 203206      | PT14-17          | 203503      | PT14-16 | 203644      | PT14-17          | 203760      | PT14-17          | 203869      | PT14-16, PT14-58 |
| 203207      | PT14-16, PT14-58 | 203504      | PT14-16 | 203645      | PT14-17          | 203761      | PT14-17          | 203870      | PT14-16, PT14-58 |
| 203208      | PT14-16, PT14-58 | 203505      | PT14-17 | 203647      | PT14-17          | 203762      | PT14-17          | 203871      | PT14-16          |
| 203210      | PT14-16, PT14-58 | 203510      | PT14-17 | 203648      | PT14-17          | 203763      | PT14-17          | 203872      | PT14-16          |
| 203214      | PT14-58          | 203511      | PT14-17 | 203649      | PT14-17          | 203765      | PT14-16, PT14-58 | 203873      | PT14-16          |
| 203215      | PT14-58          | 203512      | PT14-17 | 203651      | PT14-16, PT14-58 | 203766      | PT14-16, PT14-58 | 203874      | PT14-16          |
| 203217      | PT14-58          | 203516      | PT14-16 | 203652      | PT14-16, PT14-58 | 203767      | PT14-16, PT14-58 | 203875      | PT14-16          |
| 203218      | PT14-58          | 203519      | PT14-16 | 203654      | PT14-16          | 203768      | PT14-16, PT14-58 | 203878      | PT14-16          |
| 203268      | PT14-16          | 203524      | PT14-17 | 203655      | PT14-16          | 203770      | PT14-16, PT14-58 | 203879      | PT14-16          |
| 203271      | PT14-16          | 203526      | PT14-16 | 203657      | PT14-16, PT14-58 | 203771      | PT14-16          | 203880      | PT14-16          |
| 203272      | PT14-16          | 203527      | PT14-16 | 203658      | PT14-16          | 203773      | PT14-16, PT14-58 | 203883      | PT14-17          |
| 203274      | PT14-17          | 203529      | PT14-16 | 203659      | PT14-16          | 203774      | PT14-16, PT14-58 | 203884      | PT14-17          |
| 203275      | PT14-17          | 203530      | PT14-16 | 203664      | PT14-16          | 203775      | PT14-16, PT14-58 | 203885      | PT14-17          |
| 203276      | PT14-17          | 203531      | PT14-16 | 203666      | PT14-16          | 203776      | PT14-16          | 203886      | PT14-17          |
| 203277      | PT14-17          | 203533      | PT14-16 | 203667      | PT14-16          | 203778      | PT14-16, PT14-58 | 203888      | PT14-17          |
| 203283      | PT14-16, PT14-58 | 203534      | PT14-16 | 203668      | PT14-16          | 203780      | PT14-16, PT14-58 | 203890      | PT14-17          |
| 203292      | PT14-17          | 203538      | PT14-16 | 203670      | PT14-16          | 203781      | PT14-16          | 203891      | PT14-17          |
| 203293      | PT14-17          | 203539      | PT14-16 | 203671      | PT14-16          | 203784      | PT14-16          | 203892      | PT14-17          |
| 203303      | PT14-17          | 203543      | PT14-17 | 203672      | PT14-16          | 203786      | PT14-16          | 203894      | PT14-17          |
| 203305      | PT14-17          | 203544      | PT14-17 | 203674      | PT14-16          | 203787      | PT14-16          | 203895      | PT14-17          |
| 203307      | PT14-17          | 203551      | PT14-17 | 203675      | PT14-16          | 203788      | PT14-16          | 203896      | PT14-17          |
| 203308      | PT14-17          | 203556      | PT14-16 | 203676      | PT14-16          | 203789      | PT14-16          | 203897      | PT14-17          |
| 203309      | PT14-16, PT14-58 | 203558      | PT14-16 | 203677      | PT14-17          | 203790      | PT14-16          | 203898      | PT14-17          |
| 203310      | PT14-16          | 203559      | PT14-16 | 203678      | PT14-17          | 203791      | PT14-16          | 203900      | PT14-17          |
| 203311      | PT14-16          | 203560      | PT14-16 | 203679      | PT14-17          | 203793      | PT14-17          | 203901      | PT14-17          |
| 203314      | PT14-17          | 203561      | PT14-16 | 203680      | PT14-17          | 203794      | PT14-17          | 203905      | PT14-17          |
| 203315      | PT14-17          | 203562      | PT14-16 | 203682      | PT14-17          | 203795      | PT14-17          | 203906      | PT14-16, PT14-58 |
| 203317      | PT14-17          | 203563      | PT14-16 | 203683      | PT14-17          | 203796      | PT14-17          | 203907      | PT14-17          |
| 203320      | PT14-17          | 203565      | PT14-16 | 203684      | PT14-17          | 203797      | PT14-17          | 203908      | PT14-16          |
| 203322      | PT14-17          | 203566      | PT14-16 | 203685      | PT14-17          | 203799      | PT14-17          | 203910      | PT14-16          |
| 203323      | PT14-17          | 203568      | PT14-16 | 203686      | PT14-17          | 203801      | PT14-17          | 203911      | PT14-21          |
| 203326      | PT14-17          | 203571      | PT14-16 | 203687      | PT14-17          | 203802      | PT14-17          | 203912      | PT14-21          |
| 203327      | PT14-17          | 203572      | PT14-16 | 203688      | PT14-17          | 203803      | PT14-17          | 203913      | PT14-21          |
| 203328      | PT14-17          | 203574      | PT14-17 | 203689      | PT14-17          | 203804      | PT14-17          | 203914      | PT14-21          |
| 203339      | PT14-16, PT14-58 | 203575      | PT14-17 | 203690      | PT14-17          | 203807      | PT14-17          | 203918      | PT14-59          |



# PART NUMBER INDEX

Conveyor Components

Engineering

Part Number Index

Keyword Index

| Part Number | Page    | Part Number | Page    | Part Number | Page    | Part Number | Page    | Part Number | Page    |
|-------------|---------|-------------|---------|-------------|---------|-------------|---------|-------------|---------|
| 203935      | PT14-59 | 204525      | PT14-23 | 204673      | PT14-23 | 205076      | PT14-24 | 205205      | PT14-55 |
| 203936      | PT14-59 | 204528      | PT14-23 | 204675      | PT14-23 | 205078      | PT14-24 | 205206      | PT14-55 |
| 203937      | PT14-59 | 204531      | PT14-23 | 204676      | PT14-23 | 205080      | PT14-23 | 205207      | PT14-55 |
| 203938      | PT14-59 | 204534      | PT14-23 | 204677      | PT14-23 | 205082      | PT14-23 | 205208      | PT14-55 |
| 203940      | PT14-59 | 204537      | PT14-24 | 204679      | PT14-23 | 205083      | PT14-24 | 205225      | PT14-23 |
| 203941      | PT14-59 | 204538      | PT14-24 | 204681      | PT14-23 | 205085      | PT14-24 | 205227      | PT14-24 |
| 203942      | PT14-59 | 204539      | PT14-24 | 204682      | PT14-23 | 205086      | PT14-23 | 205228      | PT14-24 |
| 203948      | PT14-59 | 204549      | PT14-23 | 204684      | PT14-24 | 205087      | PT14-23 | 205229      | PT14-24 |
| 203955      | PT14-59 | 204550      | PT14-23 | 204685      | PT14-24 | 205088      | PT14-23 | 205230      | PT14-24 |
| 203958      | PT14-59 | 204551      | PT14-23 | 204687      | PT14-24 | 205089      | PT14-23 | 205234      | PT14-23 |
| 204265      | PT14-24 | 204552      | PT14-23 | 204700      | PT14-23 | 205090      | PT14-24 | 205240      | PT14-24 |
| 204266      | PT14-23 | 204553      | PT14-23 | 204701      | PT14-23 | 205091      | PT14-24 | 205241      | PT14-24 |
| 204267      | PT14-24 | 204554      | PT14-23 | 204702      | PT14-24 | 205092      | PT14-24 | 205246      | PT14-23 |
| 204268      | PT14-24 | 204555      | PT14-23 | 204703      | PT14-24 | 205093      | PT14-24 | 205248      | PT14-23 |
| 204269      | PT14-24 | 204556      | PT14-23 | 204706      | PT14-23 | 205094      | PT14-23 | 205250      | PT14-24 |
| 204270      | PT14-24 | 204558      | PT14-23 | 204707      | PT14-23 | 205095      | PT14-23 | 205251      | PT14-24 |
| 204271      | PT14-24 | 204559      | PT14-23 | 204708      | PT14-23 | 205096      | PT14-23 | 205252      | PT14-23 |
| 204272      | PT14-25 | 204561      | PT14-24 | 204709      | PT14-24 | 205097      | PT14-24 | 205255      | PT14-23 |
| 204275      | PT14-24 | 204562      | PT14-24 | 204710      | PT14-24 | 205098      | PT14-24 | 205256      | PT14-23 |
| 204276      | PT14-24 | 204565      | PT14-24 | 204713      | PT14-23 | 205100      | PT14-25 | 205257      | PT14-23 |
| 204277      | PT14-24 | 204566      | PT14-24 | 204714      | PT14-23 | 205101      | PT14-25 | 205258      | PT14-24 |
| 204278      | PT14-24 | 204568      | PT14-24 | 204715      | PT14-24 | 205102      | PT14-25 | 205261      | PT14-24 |
| 204280      | PT14-24 | 204571      | PT14-24 | 204716      | PT14-24 | 205105      | PT14-25 | 205262      | PT14-24 |
| 204281      | PT14-24 | 204574      | PT14-23 | 204719      | PT14-23 | 205123      | PT14-23 | 205263      | PT14-24 |
| 204282      | PT14-24 | 204575      | PT14-23 | 204720      | PT14-23 | 205124      | PT14-23 | 205264      | PT14-23 |
| 204283      | PT14-24 | 204576      | PT14-23 | 204721      | PT14-23 | 205125      | PT14-23 | 205265      | PT14-23 |
| 204284      | PT14-24 | 204577      | PT14-23 | 204722      | PT14-24 | 205127      | PT14-24 | 205267      | PT14-23 |
| 204285      | PT14-25 | 204578      | PT14-23 | 204723      | PT14-24 | 205128      | PT14-24 | 205268      | PT14-23 |
| 204286      | PT14-25 | 204579      | PT14-23 | 204724      | PT14-24 | 205129      | PT14-24 | 205269      | PT14-23 |
| 204287      | PT14-25 | 204580      | PT14-23 | 204727      | PT14-25 | 205132      | PT14-23 | 205270      | PT14-24 |
| 204288      | PT14-25 | 204581      | PT14-23 | 204728      | PT14-25 | 205133      | PT14-23 | 205271      | PT14-55 |
| 204290      | PT14-25 | 204582      | PT14-23 | 204729      | PT14-25 | 205134      | PT14-23 | 205272      | PT14-55 |
| 204291      | PT14-25 | 204584      | PT14-23 | 204730      | PT14-25 | 205135      | PT14-23 | 205273      | PT14-24 |
| 204292      | PT14-25 | 204586      | PT14-24 | 204731      | PT14-25 | 205136      | PT14-23 | 205275      | PT14-24 |
| 204293      | PT14-25 | 204587      | PT14-24 | 204732      | PT14-25 | 205137      | PT14-23 | 205276      | PT14-25 |
| 204295      | PT14-25 | 204590      | PT14-24 | 204733      | PT14-25 | 205138      | PT14-24 | 205281      | PT14-25 |
| 204329      | PT14-25 | 204591      | PT14-24 | 204734      | PT14-25 | 205139      | PT14-24 | 205282      | PT14-55 |
| 204339      | PT14-24 | 204593      | PT14-24 | 204735      | PT14-25 | 205140      | PT14-24 | 205283      | PT14-54 |
| 204342      | PT14-24 | 204599      | PT14-23 | 204736      | PT14-25 | 205141      | PT14-24 | 205285      | PT14-25 |
| 204346      | PT14-24 | 204600      | PT14-23 | 204738      | PT14-25 | 205142      | PT14-24 | 205286      | PT14-25 |
| 204349      | PT14-24 | 204601      | PT14-23 | 204739      | PT14-25 | 205145      | PT14-23 | 205289      | PT14-25 |
| 204353      | PT14-23 | 204602      | PT14-23 | 204740      | PT14-25 | 205147      | PT14-23 | 205290      | PT14-25 |
| 204354      | PT14-24 | 204603      | PT14-23 | 204741      | PT14-25 | 205148      | PT14-23 | 205291      | PT14-25 |
| 204355      | PT14-24 | 204604      | PT14-23 | 204744      | PT14-25 | 205149      | PT14-23 | 205293      | PT14-25 |
| 204356      | PT14-24 | 204605      | PT14-23 | 204745      | PT14-25 | 205150      | PT14-24 | 205294      | PT14-25 |
| 204357      | PT14-24 | 204606      | PT14-23 | 204746      | PT14-25 | 205151      | PT14-24 | 205295      | PT14-25 |
| 204358      | PT14-24 | 204608      | PT14-23 | 204747      | PT14-25 | 205152      | PT14-24 | 205296      | PT14-25 |
| 204359      | PT14-24 | 204609      | PT14-23 | 204748      | PT14-25 | 205153      | PT14-24 | 205312      | PT14-24 |
| 204362      | PT14-24 | 204611      | PT14-24 | 204749      | PT14-25 | 205154      | PT14-24 | 205325      | PT14-24 |
| 204365      | PT14-25 | 204612      | PT14-24 | 204750      | PT14-25 | 205156      | PT14-23 | 205327      | PT14-24 |
| 204366      | PT14-25 | 204615      | PT14-24 | 204751      | PT14-25 | 205159      | PT14-23 | 205328      | PT14-24 |
| 204367      | PT14-25 | 204618      | PT14-24 | 204754      | PT14-24 | 205161      | PT14-23 | 205332      | PT14-23 |
| 204368      | PT14-25 | 204623      | PT14-23 | 204760      | PT14-23 | 205162      | PT14-24 | 205334      | PT14-23 |
| 204369      | PT14-25 | 204624      | PT14-23 | 204761      | PT14-24 | 205163      | PT14-24 | 205336      | PT14-24 |
| 204381      | PT14-25 | 204625      | PT14-23 | 204769      | PT14-24 | 205165      | PT14-23 | 205337      | PT14-24 |
| 204417      | PT14-23 | 204626      | PT14-23 | 204770      | PT14-24 | 205168      | PT14-23 | 205338      | PT14-24 |
| 204424      | PT14-23 | 204627      | PT14-23 | 204772      | PT14-25 | 205169      | PT14-23 | 205339      | PT14-24 |
| 204425      | PT14-23 | 204628      | PT14-23 | 204773      | PT14-25 | 205170      | PT14-23 | 205340      | PT14-24 |
| 204426      | PT14-24 | 204629      | PT14-23 | 204774      | PT14-25 | 205171      | PT14-24 | 205341      | PT14-23 |
| 204427      | PT14-24 | 204630      | PT14-23 | 204779      | PT14-25 | 205172      | PT14-24 | 205343      | PT14-23 |
| 204428      | PT14-25 | 204632      | PT14-23 | 204780      | PT14-25 | 205175      | PT14-23 | 205344      | PT14-23 |
| 204429      | PT14-25 | 204633      | PT14-23 | 204946      | PT14-25 | 205176      | PT14-23 | 205345      | PT14-23 |
| 204430      | PT14-25 | 204635      | PT14-24 | 205050      | PT14-23 | 205177      | PT14-23 | 205346      | PT14-23 |
| 204431      | PT14-25 | 204636      | PT14-24 | 205051      | PT14-23 | 205178      | PT14-23 | 205347      | PT14-24 |
| 204432      | PT14-25 | 204639      | PT14-24 | 205052      | PT14-23 | 205179      | PT14-24 | 205348      | PT14-24 |
| 204435      | PT14-25 | 204640      | PT14-24 | 205053      | PT14-23 | 205180      | PT14-24 | 205349      | PT14-24 |
| 204436      | PT14-25 | 204642      | PT14-24 | 205054      | PT14-23 | 205181      | PT14-24 | 205350      | PT14-24 |
| 204437      | PT14-25 | 204649      | PT14-23 | 205056      | PT14-23 | 205184      | PT14-25 | 205351      | PT14-24 |
| 204438      | PT14-25 | 204650      | PT14-23 | 205057      | PT14-24 | 205185      | PT14-25 | 205352      | PT14-25 |
| 204505      | PT14-23 | 204651      | PT14-23 | 205058      | PT14-24 | 205186      | PT14-25 | 205355      | PT14-25 |
| 204506      | PT14-23 | 204652      | PT14-23 | 205059      | PT14-24 | 205187      | PT14-25 | 205358      | PT14-25 |
| 204507      | PT14-23 | 204653      | PT14-23 | 205060      | PT14-24 | 205188      | PT14-25 | 205362      | PT14-25 |
| 204508      | PT14-23 | 204654      | PT14-23 | 205061      | PT14-24 | 205192      | PT14-25 | 205363      | PT14-25 |
| 204509      | PT14-23 | 204655      | PT14-23 | 205063      | PT14-23 | 205193      | PT14-25 | 205365      | PT14-25 |
| 204510      | PT14-23 | 204656      | PT14-23 | 205064      | PT14-23 | 205195      | PT14-54 | 205368      | PT14-25 |
| 204511      | PT14-23 | 204658      | PT14-23 | 205065      | PT14-23 | 205196      | PT14-54 | 205370      | PT14-25 |
| 204512      | PT14-23 | 204659      | PT14-23 | 205066      | PT14-24 | 205197      | PT14-54 | 205371      | PT14-25 |
| 204514      | PT14-23 | 204661      | PT14-24 | 205067      | PT14-24 | 205198      | PT14-54 | 205372      | PT14-25 |
| 204515      | PT14-23 | 204662      | PT14-24 | 205068      | PT14-24 | 205199      | PT14-54 | 205373      | PT14-25 |
| 204517      | PT14-24 | 204665      | PT14-24 | 205070      | PT14-23 | 205200      | PT14-54 | 205374      | PT14-25 |
| 204518      | PT14-24 | 204666      | PT14-24 | 205071      | PT14-23 | 205201      | PT14-55 | 205377      | PT14-54 |
| 204520      | PT14-24 | 204668      | PT14-24 | 205072      | PT14-23 | 205202      | PT14-54 | 205378      | PT14-54 |
| 204522      | PT14-24 | 204669      | PT14-24 | 205073      | PT14-23 | 205203      | PT14-54 | 205379      | PT14-54 |
| 204524      | PT14-23 | 204672      | PT14-23 | 205075      | PT14-24 | 205204      | PT14-54 | 205380      | PT14-55 |







# PART NUMBER INDEX

Conveyor Components

Engineering

Part Number Index

Keyword Index

| Part Number | Page             | Part Number | Page    | Part Number | Page    | Part Number | Page    | Part Number | Page    |
|-------------|------------------|-------------|---------|-------------|---------|-------------|---------|-------------|---------|
| 206104      | PT14-17          | 206237      | PT14-35 | 206356      | PT14-35 | 206453      | PT14-36 | 206571      | PT14-40 |
| 206105      | PT14-21          | 206239      | PT14-35 | 206357      | PT14-35 | 206454      | PT14-36 | 206573      | PT14-40 |
| 206106      | PT14-21          | 206240      | PT14-35 | 206358      | PT14-35 | 206455      | PT14-35 | 206574      | PT14-40 |
| 206107      | PT14-21          | 206241      | PT14-35 | 206359      | PT14-35 | 206456      | PT14-35 | 206575      | PT14-40 |
| 206108      | PT14-21          | 206242      | PT14-36 | 206360      | PT14-36 | 206457      | PT14-35 | 206576      | PT14-40 |
| 206110      | PT14-16, PT14-58 | 206243      | PT14-36 | 206363      | PT14-36 | 206458      | PT14-35 | 206578      | PT14-40 |
| 206111      | PT14-16          | 206244      | PT14-35 | 206367      | PT14-35 | 206459      | PT14-35 | 206579      | PT14-40 |
| 206112      | PT14-16          | 206245      | PT14-36 | 206368      | PT14-35 | 206460      | PT14-36 | 206580      | PT14-40 |
| 206113      | PT14-16          | 206246      | PT14-36 | 206370      | PT14-35 | 206461      | PT14-36 | 206582      | PT14-40 |
| 206114      | PT14-16          | 206247      | PT14-36 | 206371      | PT14-35 | 206462      | PT14-36 | 206585      | PT14-40 |
| 206115      | PT14-16          | 206248      | PT14-35 | 206373      | PT14-35 | 206463      | PT14-36 | 206588      | PT14-39 |
| 206116      | PT14-17          | 206249      | PT14-36 | 206374      | PT14-36 | 206464      | PT14-36 | 206595      | PT14-36 |
| 206117      | PT14-17          | 206250      | PT14-36 | 206375      | PT14-36 | 206471      | PT14-35 | 206599      | PT14-36 |
| 206118      | PT14-17          | 206251      | PT14-36 | 206376      | PT14-36 | 206472      | PT14-35 | 206615      | PT14-71 |
| 206119      | PT14-17          | 206252      | PT14-36 | 206377      | PT14-36 | 206476      | PT14-36 | 206617      | PT14-71 |
| 206120      | PT14-17          | 206253      | PT14-36 | 206378      | PT14-36 | 206478      | PT14-36 | 206619      | PT14-71 |
| 206121      | PT14-17          | 206255      | PT14-35 | 206379      | PT14-35 | 206480      | PT14-36 | 206621      | PT14-71 |
| 206125      | PT14-16, PT14-58 | 206256      | PT14-35 | 206380      | PT14-35 | 206481      | PT14-36 | 206623      | PT14-71 |
| 206126      | PT14-16          | 206257      | PT14-35 | 206381      | PT14-35 | 206482      | PT14-36 | 206625      | PT14-71 |
| 206127      | PT14-16          | 206258      | PT14-35 | 206382      | PT14-35 | 206483      | PT14-36 | 206627      | PT14-71 |
| 206128      | PT14-16          | 206259      | PT14-35 | 206383      | PT14-35 | 206484      | PT14-36 | 206629      | PT14-71 |
| 206129      | PT14-16          | 206260      | PT14-35 | 206384      | PT14-35 | 206485      | PT14-36 | 206631      | PT14-71 |
| 206130      | PT14-16          | 206261      | PT14-36 | 206385      | PT14-35 | 206486      | PT14-36 | 206633      | PT14-71 |
| 206131      | PT14-17          | 206262      | PT14-36 | 206386      | PT14-35 | 206487      | PT14-36 | 206635      | PT14-71 |
| 206132      | PT14-17          | 206263      | PT14-36 | 206387      | PT14-35 | 206490      | PT14-36 | 206637      | PT14-71 |
| 206133      | PT14-17          | 206264      | PT14-36 | 206388      | PT14-35 | 206491      | PT14-36 | 206639      | PT14-71 |
| 206134      | PT14-17          | 206265      | PT14-35 | 206389      | PT14-36 | 206492      | PT14-35 | 206640      | PT14-71 |
| 206135      | PT14-17          | 206266      | PT14-35 | 206390      | PT14-36 | 206494      | PT14-36 | 206642      | PT14-71 |
| 206136      | PT14-17          | 206268      | PT14-35 | 206391      | PT14-36 | 206495      | PT14-36 | 206644      | PT14-71 |
| 206137      | PT14-17          | 206269      | PT14-35 | 206392      | PT14-36 | 206496      | PT14-36 | 206646      | PT14-71 |
| 206140      | PT14-16          | 206270      | PT14-35 | 206393      | PT14-36 | 206497      | PT14-36 | 206648      | PT14-71 |
| 206141      | PT14-16          | 206271      | PT14-35 | 206394      | PT14-36 | 206498      | PT14-36 | 206649      | PT14-71 |
| 206142      | PT14-16          | 206272      | PT14-35 | 206395      | PT14-36 | 206499      | PT14-36 | 206650      | PT14-71 |
| 206143      | PT14-16          | 206273      | PT14-36 | 206396      | PT14-35 | 206500      | PT14-36 | 206652      | PT14-71 |
| 206144      | PT14-16          | 206274      | PT14-36 | 206397      | PT14-35 | 206501      | PT14-36 | 206654      | PT14-71 |
| 206145      | PT14-17          | 206276      | PT14-36 | 206398      | PT14-35 | 206502      | PT14-35 | 206656      | PT14-71 |
| 206146      | PT14-17          | 206277      | PT14-36 | 206399      | PT14-35 | 206504      | PT14-36 | 206658      | PT14-71 |
| 206147      | PT14-17          | 206278      | PT14-36 | 206400      | PT14-35 | 206506      | PT14-36 | 206659      | PT14-71 |
| 206148      | PT14-17          | 206279      | PT14-35 | 206402      | PT14-35 | 206507      | PT14-36 | 206660      | PT14-71 |
| 206149      | PT14-17          | 206286      | PT14-35 | 206404      | PT14-35 | 206508      | PT14-36 | 206662      | PT14-71 |
| 206150      | PT14-17          | 206287      | PT14-35 | 206405      | PT14-36 | 206510      | PT14-36 | 206664      | PT14-71 |
| 206151      | PT14-17          | 206288      | PT14-35 | 206406      | PT14-36 | 206511      | PT14-36 | 206666      | PT14-71 |
| 206158      | PT14-36          | 206289      | PT14-35 | 206407      | PT14-36 | 206512      | PT14-36 | 206668      | PT14-71 |
| 206190      | PT14-35          | 206295      | PT14-35 | 206408      | PT14-36 | 206513      | PT14-36 | 206670      | PT14-71 |
| 206193      | PT14-35          | 206297      | PT14-36 | 206409      | PT14-36 | 206515      | PT14-35 | 206671      | PT14-71 |
| 206196      | PT14-35          | 206298      | PT14-36 | 206410      | PT14-36 | 206522      | PT14-36 | 206672      | PT14-71 |
| 206197      | PT14-35          | 206299      | PT14-36 | 206411      | PT14-36 | 206523      | PT14-36 | 206673      | PT14-71 |
| 206198      | PT14-35          | 206303      | PT14-36 | 206412      | PT14-35 | 206524      | PT14-35 | 206675      | PT14-71 |
| 206199      | PT14-35          | 206305      | PT14-36 | 206413      | PT14-35 | 206525      | PT14-36 | 206677      | PT14-71 |
| 206200      | PT14-35          | 206306      | PT14-36 | 206414      | PT14-35 | 206526      | PT14-36 | 206680      | PT14-71 |
| 206201      | PT14-35          | 206308      | PT14-35 | 206415      | PT14-35 | 206527      | PT14-36 | 206682      | PT14-71 |
| 206202      | PT14-36          | 206309      | PT14-35 | 206416      | PT14-35 | 206528      | PT14-36 | 206684      | PT14-71 |
| 206203      | PT14-36          | 206312      | PT14-35 | 206417      | PT14-35 | 206530      | PT14-36 | 206686      | PT14-71 |
| 206204      | PT14-35          | 206313      | PT14-35 | 206418      | PT14-35 | 206531      | PT14-36 | 206687      | PT14-71 |
| 206205      | PT14-35          | 206314      | PT14-35 | 206419      | PT14-35 | 206532      | PT14-36 | 206688      | PT14-71 |
| 206206      | PT14-35          | 206316      | PT14-35 | 206420      | PT14-36 | 206534      | PT14-36 | 206689      | PT14-71 |
| 206207      | PT14-36          | 206317      | PT14-36 | 206421      | PT14-36 | 206535      | PT14-36 | 206690      | PT14-72 |
| 206208      | PT14-36          | 206318      | PT14-36 | 206422      | PT14-36 | 206536      | PT14-36 | 206692      | PT14-72 |
| 206209      | PT14-36          | 206319      | PT14-36 | 206423      | PT14-36 | 206537      | PT14-36 | 206694      | PT14-72 |
| 206210      | PT14-36          | 206320      | PT14-36 | 206424      | PT14-36 | 206538      | PT14-36 | 206700      | PT14-72 |
| 206211      | PT14-36          | 206321      | PT14-36 | 206425      | PT14-36 | 206539      | PT14-35 | 206702      | PT14-72 |
| 206212      | PT14-35          | 206322      | PT14-36 | 206426      | PT14-36 | 206543      | PT14-36 | 206704      | PT14-72 |
| 206213      | PT14-36          | 206323      | PT14-36 | 206428      | PT14-35 | 206544      | PT14-36 | 206706      | PT14-72 |
| 206214      | PT14-36          | 206324      | PT14-36 | 206429      | PT14-35 | 206545      | PT14-36 | 206708      | PT14-72 |
| 206216      | PT14-35          | 206328      | PT14-35 | 206430      | PT14-35 | 206546      | PT14-36 | 206710      | PT14-72 |
| 206217      | PT14-36          | 206330      | PT14-35 | 206432      | PT14-35 | 206547      | PT14-36 | 206712      | PT14-72 |
| 206218      | PT14-36          | 206331      | PT14-35 | 206433      | PT14-35 | 206548      | PT14-40 | 206714      | PT14-72 |
| 206219      | PT14-36          | 206332      | PT14-35 | 206434      | PT14-35 | 206549      | PT14-40 | 206716      | PT14-72 |
| 206220      | PT14-35          | 206334      | PT14-36 | 206435      | PT14-36 | 206550      | PT14-40 | 206718      | PT14-72 |
| 206221      | PT14-35          | 206335      | PT14-36 | 206436      | PT14-36 | 206552      | PT14-40 | 206720      | PT14-72 |
| 206222      | PT14-35          | 206336      | PT14-36 | 206437      | PT14-36 | 206553      | PT14-40 | 206722      | PT14-72 |
| 206223      | PT14-36          | 206337      | PT14-36 | 206438      | PT14-36 | 206555      | PT14-40 | 206724      | PT14-72 |
| 206224      | PT14-36          | 206338      | PT14-36 | 206439      | PT14-36 | 206556      | PT14-40 | 206744      | PT14-71 |
| 206225      | PT14-36          | 206342      | PT14-35 | 206440      | PT14-36 | 206557      | PT14-40 | 206745      | PT14-71 |
| 206226      | PT14-36          | 206343      | PT14-35 | 206442      | PT14-35 | 206558      | PT14-40 | 206747      | PT14-71 |
| 206227      | PT14-36          | 206344      | PT14-35 | 206443      | PT14-35 | 206559      | PT14-40 | 206748      | PT14-71 |
| 206228      | PT14-35          | 206345      | PT14-35 | 206444      | PT14-35 | 206560      | PT14-40 | 206750      | PT14-71 |
| 206229      | PT14-35          | 206346      | PT14-35 | 206445      | PT14-35 | 206561      | PT14-40 | 206752      | PT14-71 |
| 206231      | PT14-35          | 206347      | PT14-36 | 206446      | PT14-35 | 206562      | PT14-39 | 206754      | PT14-71 |
| 206232      | PT14-35          | 206348      | PT14-36 | 206447      | PT14-35 | 206563      | PT14-40 | 206756      | PT14-71 |
| 206233      | PT14-36          | 206349      | PT14-36 | 206448      | PT14-36 | 206565      | PT14-40 | 206758      | PT14-71 |
| 206234      | PT14-36          | 206350      | PT14-36 | 206449      | PT14-36 | 206566      | PT14-40 | 206760      | PT14-71 |
| 206235      | PT14-36          | 206352      | PT14-36 | 206450      | PT14-36 | 206567      | PT14-40 | 206763      | PT14-71 |
| 206236      | PT14-36          | 206355      | PT14-35 | 206452      | PT14-36 | 206570      | PT14-40 | 206765      | PT14-71 |

# PART NUMBER INDEX



| Part Number | Page    | Part Number | Page    | Part Number | Page    | Part Number | Page    | Part Number | Page    |
|-------------|---------|-------------|---------|-------------|---------|-------------|---------|-------------|---------|
| 206767      | PT14-71 | 206979      | PT14-39 | 207399      | PT14-72 | 207610      | PT14-40 | 207738      | PT14-39 |
| 206768      | PT14-71 | 206980      | PT14-39 | 207400      | PT14-36 | 207612      | PT14-39 | 207739      | PT14-39 |
| 206770      | PT14-71 | 206981      | PT14-39 | 207402      | PT14-36 | 207615      | PT14-39 | 207740      | PT14-39 |
| 206772      | PT14-71 | 206988      | PT14-40 | 207404      | PT14-36 | 207616      | PT14-40 | 207741      | PT14-39 |
| 206774      | PT14-71 | 206990      | PT14-40 | 207406      | PT14-36 | 207617      | PT14-40 | 207743      | PT14-39 |
| 206775      | PT14-71 | 207156      | PT6-13  | 207407      | PT14-36 | 207621      | PT14-39 | 207744      | PT14-40 |
| 206777      | PT14-71 | 207157      | PT6-13  | 207408      | PT14-36 | 207622      | PT14-39 | 207746      | PT14-40 |
| 206778      | PT14-71 | 207205      | PT14-21 | 207410      | PT14-36 | 207644      | PT14-39 | 207753      | PT14-39 |
| 206779      | PT14-71 | 207206      | PT14-21 | 207411      | PT14-36 | 207645      | PT14-39 | 207754      | PT14-39 |
| 206780      | PT14-71 | 207207      | PT14-21 | 207412      | PT14-36 | 207646      | PT14-39 | 207761      | PT14-40 |
| 206781      | PT14-71 | 207208      | PT14-21 | 207416      | PT14-36 | 207647      | PT14-39 | 207950      | PT14-21 |
| 206784      | PT14-71 | 207209      | PT14-21 | 207417      | PT14-36 | 207648      | PT14-39 | 207951      | PT14-21 |
| 206786      | PT14-71 | 207210      | PT14-21 | 207418      | PT14-36 | 207649      | PT14-39 | 207952      | PT14-21 |
| 206788      | PT14-71 | 207211      | PT14-21 | 207430      | PT14-40 | 207650      | PT14-39 | 207953      | PT14-21 |
| 206790      | PT14-71 | 207212      | PT14-21 | 207432      | PT14-40 | 207651      | PT14-39 | 207954      | PT14-21 |
| 206792      | PT14-71 | 207213      | PT14-21 | 207433      | PT14-39 | 207652      | PT14-39 | 207960      | PT14-72 |
| 206794      | PT14-71 | 207214      | PT14-21 | 207435      | PT14-39 | 207653      | PT14-40 | 207961      | PT14-72 |
| 206795      | PT14-71 | 207215      | PT14-21 | 207436      | PT14-40 | 207654      | PT14-40 | 207962      | PT14-72 |
| 206796      | PT14-71 | 207216      | PT14-21 | 207437      | PT14-40 | 207655      | PT14-40 | 207963      | PT14-72 |
| 206798      | PT14-71 | 207249      | PT14-67 | 207438      | PT14-40 | 207656      | PT14-40 | 207964      | PT14-72 |
| 206800      | PT14-71 | 207300      | PT14-68 | 207441      | PT14-39 | 207657      | PT14-39 | 207965      | PT14-72 |
| 206801      | PT14-71 | 207301      | PT14-68 | 207442      | PT14-40 | 207658      | PT14-39 | 207966      | PT14-72 |
| 206803      | PT14-71 | 207325      | PT14-67 | 207443      | PT14-40 | 207659      | PT14-39 | 207967      | PT14-72 |
| 206807      | PT14-71 | 207326      | PT14-67 | 207446      | PT14-39 | 207660      | PT14-39 | 207968      | PT14-72 |
| 206810      | PT14-71 | 207327      | PT14-67 | 207447      | PT14-39 | 207661      | PT14-39 | 207969      | PT14-72 |
| 206811      | PT14-71 | 207328      | PT14-67 | 207448      | PT14-40 | 207662      | PT14-39 | 207970      | PT14-72 |
| 206812      | PT14-71 | 207329      | PT14-67 | 207449      | PT14-40 | 207663      | PT14-40 | 207971      | PT14-21 |
| 206813      | PT14-71 | 207330      | PT14-67 | 207450      | PT14-40 | 207664      | PT14-40 | 207972      | PT14-36 |
| 206815      | PT14-71 | 207331      | PT14-67 | 207451      | PT14-40 | 207665      | PT14-40 | 207973      | PT14-21 |
| 206817      | PT14-71 | 207332      | PT14-67 | 207456      | PT14-40 | 207666      | PT14-40 | 207977      | PT14-21 |
| 206818      | PT14-71 | 207333      | PT14-67 | 207457      | PT14-40 | 207668      | PT14-40 | 207978      | PT14-21 |
| 206821      | PT14-71 | 207334      | PT14-67 | 207500      | PT14-27 | 207669      | PT14-39 | 207998      | PT14-71 |
| 206823      | PT14-71 | 207335      | PT14-67 | 207501      | PT14-27 | 207670      | PT14-39 | 208001      | PT14-42 |
| 206825      | PT14-71 | 207336      | PT14-67 | 207502      | PT14-28 | 207671      | PT14-39 | 208002      | PT14-42 |
| 206838      | PT14-71 | 207337      | PT14-67 | 207503      | PT14-27 | 207672      | PT14-39 | 208003      | PT14-42 |
| 206839      | PT14-71 | 207338      | PT14-67 | 207504      | PT14-27 | 207673      | PT14-39 | 208004      | PT14-42 |
| 206840      | PT14-71 | 207339      | PT14-67 | 207505      | PT14-27 | 207674      | PT14-39 | 208005      | PT14-42 |
| 206841      | PT14-71 | 207340      | PT14-67 | 207506      | PT14-28 | 207675      | PT14-40 | 208006      | PT14-42 |
| 206845      | PT14-72 | 207341      | PT14-67 | 207507      | PT14-27 | 207676      | PT14-40 | 208007      | PT14-42 |
| 206847      | PT14-72 | 207342      | PT14-67 | 207508      | PT14-27 | 207678      | PT14-40 | 208008      | PT14-42 |
| 206849      | PT14-72 | 207343      | PT14-67 | 207509      | PT14-28 | 207679      | PT14-40 | 208009      | PT14-42 |
| 206852      | PT14-39 | 207344      | PT14-67 | 207510      | PT14-27 | 207680      | PT14-40 | 208010      | PT14-42 |
| 206853      | PT14-40 | 207345      | PT14-67 | 207511      | PT14-27 | 207681      | PT14-39 | 208011      | PT14-42 |
| 206854      | PT14-40 | 207346      | PT14-67 | 207512      | PT14-28 | 207682      | PT14-39 | 208012      | PT14-43 |
| 206855      | PT14-40 | 207349      | PT14-67 | 207513      | PT14-27 | 207683      | PT14-39 | 208013      | PT14-43 |
| 206856      | PT14-40 | 207350      | PT14-42 | 207514      | PT14-27 | 207684      | PT14-39 | 208014      | PT14-42 |
| 206858      | PT14-40 | 207351      | PT14-42 | 207515      | PT14-27 | 207685      | PT14-39 | 208015      | PT14-42 |
| 206860      | PT14-40 | 207352      | PT14-43 | 207516      | PT14-28 | 207686      | PT14-39 | 208016      | PT14-42 |
| 206864      | PT14-40 | 207353      | PT14-42 | 207517      | PT14-27 | 207687      | PT14-39 | 208017      | PT14-42 |
| 206868      | PT14-39 | 207354      | PT14-42 | 207518      | PT14-28 | 207688      | PT14-40 | 208018      | PT14-42 |
| 206876      | PT14-39 | 207355      | PT14-42 | 207519      | PT14-27 | 207690      | PT14-40 | 208019      | PT14-42 |
| 206879      | PT14-39 | 207356      | PT14-42 | 207520      | PT14-27 | 207691      | PT14-40 | 208020      | PT14-42 |
| 206880      | PT14-39 | 207357      | PT14-42 | 207521      | PT14-28 | 207692      | PT14-40 | 208021      | PT14-42 |
| 206881      | PT14-39 | 207358      | PT14-43 | 207522      | PT14-27 | 207694      | PT14-39 | 208023      | PT14-43 |
| 206882      | PT14-39 | 207359      | PT14-42 | 207523      | PT14-27 | 207695      | PT14-39 | 208025      | PT14-43 |
| 206883      | PT14-40 | 207360      | PT14-42 | 207524      | PT14-28 | 207696      | PT14-39 | 208026      | PT14-43 |
| 206885      | PT14-40 | 207361      | PT14-42 | 207526      | PT14-28 | 207697      | PT14-39 | 208027      | PT14-42 |
| 206886      | PT14-40 | 207362      | PT14-42 | 207527      | PT14-27 | 207698      | PT14-39 | 208029      | PT14-42 |
| 206887      | PT14-40 | 207363      | PT14-42 | 207528      | PT14-28 | 207699      | PT14-39 | 208030      | PT14-42 |
| 206888      | PT14-40 | 207364      | PT14-43 | 207529      | PT14-27 | 207700      | PT14-39 | 208031      | PT14-42 |
| 206897      | PT14-39 | 207365      | PT14-43 | 207530      | PT14-27 | 207701      | PT14-40 | 208033      | PT14-42 |
| 206916      | PT14-40 | 207366      | PT14-42 | 207531      | PT14-28 | 207702      | PT14-40 | 208034      | PT14-42 |
| 206917      | PT14-40 | 207367      | PT14-42 | 207532      | PT14-29 | 207703      | PT14-40 | 208035      | PT14-42 |
| 206918      | PT14-40 | 207368      | PT14-42 | 207534      | PT14-29 | 207705      | PT14-40 | 208036      | PT14-42 |
| 206919      | PT14-40 | 207369      | PT14-42 | 207536      | PT14-29 | 207707      | PT14-40 | 208037      | PT14-42 |
| 206923      | PT14-39 | 207370      | PT14-43 | 207566      | PT14-36 | 207708      | PT14-40 | 208038      | PT14-42 |
| 206926      | PT14-39 | 207371      | PT14-42 | 207567      | PT14-36 | 207709      | PT14-39 | 208039      | PT14-42 |
| 206927      | PT14-39 | 207372      | PT14-42 | 207568      | PT14-36 | 207710      | PT14-39 | 208040      | PT14-42 |
| 206928      | PT14-40 | 207373      | PT14-42 | 207569      | PT14-36 | 207711      | PT14-39 | 208041      | PT14-42 |
| 206929      | PT14-40 | 207374      | PT14-43 | 207570      | PT14-36 | 207713      | PT14-39 | 208042      | PT14-43 |
| 206930      | PT14-40 | 207375      | PT14-43 | 207571      | PT14-36 | 207714      | PT14-39 | 208044      | PT14-43 |
| 206931      | PT14-40 | 207376      | PT14-42 | 207572      | PT14-36 | 207715      | PT14-40 | 208045      | PT14-43 |
| 206932      | PT14-40 | 207377      | PT14-43 | 207573      | PT14-36 | 207716      | PT14-40 | 208046      | PT14-43 |
| 206934      | PT14-40 | 207378      | PT14-43 | 207574      | PT14-36 | 207717      | PT14-40 | 208047      | PT14-43 |
| 206935      | PT14-40 | 207380      | PT14-72 | 207575      | PT14-36 | 207719      | PT14-40 | 208050      | PT14-43 |
| 206939      | PT14-39 | 207382      | PT14-72 | 207578      | PT14-21 | 207721      | PT14-40 | 208051      | PT14-43 |
| 206940      | PT14-39 | 207384      | PT14-72 | 207600      | PT14-39 | 207724      | PT14-39 | 208052      | PT14-42 |
| 206968      | PT14-39 | 207386      | PT14-72 | 207601      | PT14-39 | 207725      | PT14-39 | 208054      | PT14-42 |
| 206970      | PT14-40 | 207388      | PT14-72 | 207602      | PT14-39 | 207726      | PT14-39 | 208056      | PT14-42 |
| 206972      | PT14-40 | 207390      | PT14-72 | 207603      | PT14-39 | 207727      | PT14-39 | 208058      | PT14-42 |
| 206974      | PT14-40 | 207392      | PT14-72 | 207604      | PT14-39 | 207728      | PT14-39 | 208063      | PT14-42 |
| 206975      | PT14-40 | 207394      | PT14-72 | 207605      | PT14-40 | 207729      | PT14-39 | 208065      | PT14-42 |
| 206976      | PT14-40 | 207396      | PT14-72 | 207606      | PT14-40 | 207730      | PT14-39 | 208067      | PT14-42 |
| 206977      | PT14-40 | 207398      | PT14-72 | 207608      | PT14-40 | 207731      | PT14-40 | 208068      | PT14-42 |



# PART NUMBER INDEX



| Part Number | Page             | Part Number | Page             | Part Number | Page             | Part Number | Page    | Part Number | Page             |
|-------------|------------------|-------------|------------------|-------------|------------------|-------------|---------|-------------|------------------|
| 208718..... | PT14-29          | 208885..... | PT14-52          | 209736..... | PT14-16, PT14-58 | 209835..... | PT14-19 | 209928..... | PT14-21          |
| 208719..... | PT14-29          | 208886..... | PT14-52          | 209737..... | PT14-16, PT14-58 | 209836..... | PT14-19 | 209929..... | PT14-21          |
| 208723..... | PT14-29          | 208887..... | PT14-52          | 209738..... | PT14-16          | 209837..... | PT14-19 | 209930..... | PT14-21          |
| 208731..... | PT14-29          | 208888..... | PT14-52          | 209739..... | PT14-16          | 209838..... | PT14-19 | 209931..... | PT14-21          |
| 208732..... | PT14-29          | 208889..... | PT14-52          | 209740..... | PT14-16          | 209839..... | PT14-19 | 209932..... | PT14-21          |
| 208733..... | PT14-29          | 208890..... | PT14-52          | 209741..... | PT14-17          | 209840..... | PT14-19 | 209933..... | PT14-21          |
| 208734..... | PT14-29          | 208891..... | PT14-52          | 209742..... | PT14-17          | 209841..... | PT14-19 | 209934..... | PT14-21          |
| 208735..... | PT14-29          | 208892..... | PT14-52          | 209743..... | PT14-16, PT14-58 | 209842..... | PT14-19 | 209935..... | PT14-21          |
| 208736..... | PT14-29          | 208893..... | PT14-52          | 209744..... | PT14-16, PT14-58 | 209843..... | PT14-18 | 209936..... | PT14-21          |
| 208737..... | PT14-29          | 208894..... | PT14-52          | 209745..... | PT14-16, PT14-58 | 209844..... | PT14-18 | 209937..... | PT14-21          |
| 208738..... | PT14-29          | 208895..... | PT14-52          | 209746..... | PT14-16, PT14-58 | 209845..... | PT14-18 | 209938..... | PT14-21          |
| 208740..... | PT14-29          | 208896..... | PT14-52          | 209747..... | PT14-16          | 209846..... | PT14-18 | 209939..... | PT14-21          |
| 208742..... | PT14-29          | 208897..... | PT14-36          | 209748..... | PT14-16          | 209847..... | PT14-19 | 209940..... | PT14-21          |
| 208743..... | PT14-29          | 209519..... | PT14-52          | 209749..... | PT14-16          | 209848..... | PT14-19 | 209941..... | PT14-21          |
| 208744..... | PT14-29          | 209522..... | PT14-35          | 209750..... | PT14-16          | 209849..... | PT14-19 | 209942..... | PT14-16          |
| 208745..... | PT14-29          | 209553..... | PT14-35          | 209751..... | PT14-17          | 209850..... | PT14-19 | 209945..... | PT14-16          |
| 208746..... | PT14-29          | 209655..... | PT14-35          | 209752..... | PT14-17          | 209851..... | PT14-19 | 209948..... | PT14-16          |
| 208747..... | PT14-29          | 209656..... | PT14-35          | 209753..... | PT14-17          | 209852..... | PT14-18 | 209949..... | PT14-17          |
| 208758..... | PT14-29          | 209657..... | PT14-35          | 209754..... | PT14-17          | 209853..... | PT14-19 | 209950..... | PT14-17          |
| 208761..... | PT14-43          | 209659..... | PT14-35          | 209755..... | PT14-17          | 209854..... | PT14-19 | 209951..... | PT14-16          |
| 208762..... | PT14-43          | 209660..... | PT14-35          | 209756..... | PT14-16, PT14-58 | 209855..... | PT14-19 | 209952..... | PT14-16, PT14-58 |
| 208764..... | PT14-43          | 209661..... | PT14-36          | 209757..... | PT14-16, PT14-58 | 209856..... | PT14-20 | 209953..... | PT14-16, PT14-58 |
| 208765..... | PT14-43          | 209662..... | PT14-36          | 209758..... | PT14-16, PT14-58 | 209857..... | PT14-20 | 209955..... | PT14-16          |
| 208766..... | PT14-42          | 209663..... | PT14-36          | 209759..... | PT14-16          | 209864..... | PT14-50 | 209956..... | PT14-17          |
| 208767..... | PT14-43          | 209664..... | PT14-35          | 209760..... | PT14-16          | 209866..... | PT14-50 | 209957..... | PT14-58          |
| 208768..... | PT14-43          | 209665..... | PT14-36          | 209761..... | PT14-17          | 209867..... | PT14-51 | 209958..... | PT14-16, PT14-58 |
| 208769..... | PT14-42          | 209666..... | PT14-36          | 209762..... | PT14-17          | 209870..... | PT14-51 | 209959..... | PT14-16, PT14-58 |
| 208770..... | PT14-43          | 209668..... | PT14-36          | 209763..... | PT14-17          | 209871..... | PT14-51 | 209960..... | PT14-17          |
| 208771..... | PT14-44, PT14-46 | 209669..... | PT14-35          | 209764..... | PT14-17          | 209872..... | PT14-51 | 209963..... | PT14-21          |
| 208772..... | PT14-45, PT14-47 | 209670..... | PT14-35          | 209765..... | PT14-17          | 209873..... | PT14-51 | 223058..... | PT14-16          |
| 208773..... | PT14-45, PT14-47 | 209671..... | PT14-35          | 209766..... | PT14-17          | 209874..... | PT14-50 | 223059..... | PT14-17          |
| 208775..... | PT14-45, PT14-47 | 209672..... | PT14-35          | 209767..... | PT14-16, PT14-58 | 209875..... | PT14-50 | 223060..... | PT14-17          |
| 208776..... | PT14-45, PT14-47 | 209673..... | PT14-36          | 209769..... | PT14-16          | 209876..... | PT14-51 | 223061..... | PT14-16          |
| 208777..... | PT14-45, PT14-47 | 209674..... | PT14-36          | 209770..... | PT14-16          | 209877..... | PT14-51 | 223063..... | PT14-17          |
| 208778..... | PT14-45, PT14-47 | 209675..... | PT14-35          | 209771..... | PT14-16          | 209878..... | PT14-50 | 223065..... | PT14-17          |
| 208794..... | PT14-28          | 209676..... | PT14-35          | 209772..... | PT14-16          | 209879..... | PT14-50 | 223066..... | PT14-16          |
| 208800..... | PT14-28          | 209677..... | PT14-35          | 209773..... | PT14-16          | 209880..... | PT14-51 | 223067..... | PT14-17          |
| 208806..... | PT14-28          | 209678..... | PT14-36          | 209774..... | PT14-17          | 209881..... | PT14-51 | 223068..... | PT14-17          |
| 208831..... | PT14-50          | 209679..... | PT14-36          | 209775..... | PT14-17          | 209882..... | PT14-51 | 223069..... | PT14-17          |
| 208833..... | PT14-50          | 209680..... | PT14-36          | 209776..... | PT14-17          | 209883..... | PT14-51 | 223070..... | PT14-17          |
| 208835..... | PT14-50          | 209681..... | PT14-35          | 209777..... | PT14-17          | 209884..... | PT14-50 | 223071..... | PT14-17          |
| 208837..... | PT14-50          | 209682..... | PT14-35          | 209778..... | PT14-17          | 209885..... | PT14-51 | 223072..... | PT14-17          |
| 208838..... | PT14-50          | 209683..... | PT14-35          | 209779..... | PT14-17          | 209886..... | PT14-51 | 223073..... | PT14-16          |
| 208839..... | PT14-50          | 209684..... | PT14-35          | 209780..... | PT14-16, PT14-58 | 209887..... | PT14-51 | 223074..... | PT14-16          |
| 208840..... | PT14-50          | 209685..... | PT14-35          | 209781..... | PT14-16          | 209888..... | PT14-51 | 223075..... | PT14-16          |
| 208841..... | PT14-50          | 209686..... | PT14-36          | 209782..... | PT14-17          | 209889..... | PT14-50 | 223076..... | PT14-16          |
| 208842..... | PT14-50          | 209687..... | PT14-36          | 209783..... | PT14-17          | 209890..... | PT14-50 | 223078..... | PT14-16          |
| 208844..... | PT14-50          | 209688..... | PT14-36          | 209784..... | PT14-17          | 209891..... | PT14-51 | 223079..... | PT14-17          |
| 208845..... | PT14-50          | 209689..... | PT14-36          | 209785..... | PT14-17          | 209892..... | PT14-51 | 223080..... | PT14-17          |
| 208847..... | PT14-50          | 209690..... | PT14-36          | 209786..... | PT14-17          | 209893..... | PT14-51 | 223081..... | PT14-17          |
| 208849..... | PT14-50          | 209691..... | PT14-35          | 209800..... | PT14-18          | 209894..... | PT14-51 | 223082..... | PT14-17          |
| 208850..... | PT14-50          | 209692..... | PT14-36          | 209801..... | PT14-18          | 209895..... | PT14-51 | 223083..... | PT14-17          |
| 208851..... | PT14-50          | 209693..... | PT14-36          | 209802..... | PT14-18          | 209896..... | PT14-21 | 223084..... | PT14-17          |
| 208852..... | PT14-50          | 209700..... | PT14-17          | 209803..... | PT14-17          | 209897..... | PT14-21 | 223085..... | PT14-17          |
| 208853..... | PT14-50          | 209701..... | PT14-17          | 209804..... | PT14-19          | 209898..... | PT14-21 | 223086..... | PT14-17          |
| 208854..... | PT14-50          | 209703..... | PT14-17          | 209805..... | PT14-19          | 209899..... | PT14-21 | 223087..... | PT14-17          |
| 208855..... | PT14-50          | 209704..... | PT14-17          | 209806..... | PT14-19          | 209900..... | PT14-21 | 223088..... | PT14-17          |
| 208856..... | PT14-50          | 209707..... | PT14-17          | 209807..... | PT14-19          | 209901..... | PT14-21 | 223089..... | PT14-17          |
| 208857..... | PT14-50          | 209710..... | PT14-16          | 209808..... | PT14-19          | 209902..... | PT14-21 | 223090..... | PT14-17          |
| 208858..... | PT14-50          | 209711..... | PT14-17          | 209810..... | PT14-18          | 209903..... | PT14-21 | 223091..... | PT14-17          |
| 208860..... | PT14-51          | 209712..... | PT14-17          | 209811..... | PT14-19          | 209904..... | PT14-21 | 223092..... | PT14-17          |
| 208862..... | PT14-51          | 209713..... | PT14-17          | 209812..... | PT14-19          | 209905..... | PT14-21 | 223093..... | PT14-17          |
| 208863..... | PT14-51          | 209714..... | PT14-17          | 209813..... | PT14-19          | 209906..... | PT14-21 | 223094..... | PT14-17          |
| 208864..... | PT14-51          | 209715..... | PT14-17          | 209814..... | PT14-18          | 209907..... | PT14-21 | 223095..... | PT14-16          |
| 208865..... | PT14-51          | 209716..... | PT14-16          | 209815..... | PT14-18          | 209908..... | PT14-21 | 223096..... | PT14-16          |
| 208866..... | PT14-51          | 209717..... | PT14-16          | 209816..... | PT14-18          | 209909..... | PT14-21 | 223097..... | PT14-16          |
| 208867..... | PT14-51          | 209718..... | PT14-16          | 209817..... | PT14-19          | 209910..... | PT14-21 | 223098..... | PT14-16          |
| 208868..... | PT14-51          | 209719..... | PT14-16          | 209818..... | PT14-18          | 209911..... | PT14-21 | 223099..... | PT14-16          |
| 208869..... | PT14-51          | 209720..... | PT14-16          | 209819..... | PT14-18          | 209912..... | PT14-21 | 223100..... | PT14-17          |
| 208870..... | PT14-51          | 209721..... | PT14-16          | 209820..... | PT14-18          | 209913..... | PT14-21 | 223101..... | PT14-17          |
| 208871..... | PT14-52          | 209722..... | PT14-17          | 209821..... | PT14-18          | 209914..... | PT14-21 | 223102..... | PT14-17          |
| 208872..... | PT14-52          | 209723..... | PT14-17          | 209822..... | PT14-19          | 209915..... | PT14-21 | 223103..... | PT14-17          |
| 208873..... | PT14-52          | 209724..... | PT14-17          | 209823..... | PT14-19          | 209916..... | PT14-21 | 223104..... | PT14-17          |
| 208874..... | PT14-52          | 209725..... | PT14-16          | 209824..... | PT14-19          | 209917..... | PT14-21 | 223111..... | PT14-17          |
| 208875..... | PT14-52          | 209726..... | PT14-16          | 209825..... | PT14-19          | 209918..... | PT14-21 | 223112..... | PT14-17          |
| 208876..... | PT14-52          | 209727..... | PT14-16          | 209826..... | PT14-18          | 209919..... | PT14-21 | 223113..... | PT14-17          |
| 208877..... | PT14-52          | 209728..... | PT14-16          | 209827..... | PT14-18          | 209920..... | PT14-21 | 223114..... | PT14-17          |
| 208878..... | PT14-52          | 209729..... | PT14-16          | 209828..... | PT14-19          | 209921..... | PT14-21 | 223115..... | PT14-17          |
| 208879..... | PT14-52          | 209730..... | PT14-16          | 209829..... | PT14-19          | 209922..... | PT14-21 | 223116..... | PT14-17          |
| 208880..... | PT14-52          | 209731..... | PT14-17          | 209830..... | PT14-19          | 209923..... | PT14-21 | 223118..... | PT14-17          |
| 208881..... | PT14-52          | 209732..... | PT14-17          | 209831..... | PT14-18          | 209924..... | PT14-21 | 223119..... | PT14-17          |
| 208882..... | PT14-52          | 209733..... | PT14-17          | 209832..... | PT14-18          | 209925..... | PT14-21 | 223120..... | PT14-17          |
| 208883..... | PT14-52          | 209734..... | PT14-16, PT14-58 | 209833..... | PT14-18          | 209926..... | PT14-21 | 223123..... | PT14-16          |
| 208884..... | PT14-52          | 209735..... | PT14-16, PT14-58 | 209834..... | PT14-19          | 209927..... | PT14-21 | 223124..... | PT14-16          |











# PART NUMBER INDEX

Conveyor Components

Engineering

Part Number Index

Keyword Index

| Part Number | Page            | Part Number | Page           | Part Number | Page           | Part Number | Page   | Part Number | Page   |
|-------------|-----------------|-------------|----------------|-------------|----------------|-------------|--------|-------------|--------|
| 226893      | PT14-75         | 305022      | PT3-9          | 330255      | PT9-4          | 455118      | PT7-16 | 455202      | PT7-17 |
| 226894      | PT14-75         | 305025      | PT3-11, PT3-14 | 330256      | PT9-4          | 455119      | PT7-16 | 455203      | PT7-17 |
| 226895      | PT14-75         | 305026      | PT3-14         | 330257      | PT9-4          | 455120      | PT7-16 | 455204      | PT7-17 |
| 226896      | PT14-75         | 305027      | PT3-14         | 330258      | PT9-4          | 455121      | PT7-16 | 455205      | PT7-17 |
| 226897      | PT14-75         | 305028      | PT3-14         | 330259      | PT9-4          | 455122      | PT7-16 | 455206      | PT7-17 |
| 226898      | PT14-75         | 305029      | PT3-14         | 330260      | PT9-4          | 455123      | PT7-16 | 455207      | PT7-17 |
| 226899      | PT14-75         | 305037      | PT3-10, PT3-14 | 330261      | PT9-4          | 455124      | PT7-16 | 455208      | PT7-17 |
| 226900      | PT14-75         | 305056      | PT3-9          | 330262      | PT9-4          | 455125      | PT7-16 | 455209      | PT7-17 |
| 226901      | PT14-75         | 305057      | PT3-9          | 330263      | PT9-4          | 455126      | PT7-16 | 455210      | PT7-17 |
| 226902      | PT14-75         | 305058      | PT3-11, PT3-14 | 330264      | PT9-4          | 455127      | PT7-16 | 455211      | PT7-17 |
| 226903      | PT14-75         | 305085      | PT3-9          | 330265      | PT9-4          | 455128      | PT7-16 | 455212      | PT7-17 |
| 226904      | PT14-75         | 305101      | PT3-8          | 330266      | PT9-4          | 455129      | PT7-16 | 455213      | PT7-17 |
| 226905      | PT14-75         | 305102      | PT3-8          | 330267      | PT9-4          | 455130      | PT7-16 | 455214      | PT7-17 |
| 226906      | PT14-75         | 305103      | PT3-8          | 330268      | PT9-4          | 455131      | PT7-16 | 455215      | PT7-17 |
| 226907      | PT14-75         | 305106      | PT3-8          | 330269      | PT9-4          | 455132      | PT7-16 | 455216      | PT7-17 |
| 226908      | PT14-75         | 305115      | PT3-10         | 330270      | PT9-4          | 455133      | PT7-16 | 455217      | PT7-17 |
| 226909      | PT14-75         | 305117      | PT3-14         | 330271      | PT9-4          | 455134      | PT7-16 | 455218      | PT7-17 |
| 226910      | PT14-75         | 305118      | PT3-10         | 330272      | PT9-4          | 455135      | PT7-16 | 455219      | PT7-17 |
| 226911      | PT14-75         | 305120      | PT3-10         | 330273      | PT9-4          | 455136      | PT7-16 | 455220      | PT7-17 |
| 226912      | PT14-75         | 305121      | PT3-10         | 330274      | PT9-4          | 455137      | PT7-16 | 455221      | PT7-17 |
| 226913      | PT14-75         | 305122      | PT3-10         | 330275      | PT9-4          | 455138      | PT7-16 | 455222      | PT7-17 |
| 226914      | PT14-75         | 305123      | PT3-10         | 330276      | PT9-4          | 455139      | PT7-16 | 455223      | PT7-17 |
| 226915      | PT14-75         | 309070      | PT3-9          | 330279      | PT9-4          | 455140      | PT7-16 | 455224      | PT7-17 |
| 226916      | PT14-77         | 309071      | PT3-9          | 391301      | PT13-29        | 455141      | PT7-16 | 455225      | PT7-17 |
| 226917      | PT14-77         | 309072      | PT3-9          | 391304      | PT13-29        | 455142      | PT7-16 | 455226      | PT7-17 |
| 226918      | PT14-77         | 309073      | PT3-9          | 391308      | PT13-29        | 455143      | PT7-16 | 455227      | PT7-17 |
| 226919      | PT14-77         | 309074      | PT3-11         | 391371      | PT5-6          | 455144      | PT7-16 | 455228      | PT7-17 |
| 226920      | PT14-77         | 309077      | PT3-12         | 391372      | PT5-6          | 455145      | PT7-16 | 455229      | PT7-17 |
| 226921      | PT14-77         | 309111      | PT3-15         | 391373      | PT5-6          | 455146      | PT7-16 | 455230      | PT7-17 |
| 226922      | PT14-77         | 310060      | PT3-17         | 391375      | PT5-6          | 455147      | PT7-16 | 455231      | PT7-17 |
| 226923      | PT14-77         | 310061      | PT3-17         | 391376      | PT5-6          | 455148      | PT7-16 | 455232      | PT7-17 |
| 226924      | PT14-77         | 310062      | PT3-17         | 391377      | PT5-6          | 455149      | PT7-16 | 455233      | PT7-17 |
| 226925      | PT14-77         | 310063      | PT3-17         | 391379      | PT5-6          | 455150      | PT7-16 | 455234      | PT7-17 |
| 226926      | PT14-77         | 310064      | PT3-17         | 391380      | PT5-6          | 455151      | PT7-16 | 455235      | PT7-17 |
| 226927      | PT14-77         | 310065      | PT3-17         | 391381      | PT5-6          | 455152      | PT7-16 | 455236      | PT7-17 |
| 226928      | PT14-77         | 310066      | PT3-17         | 391383      | PT5-6          | 455153      | PT7-16 | 455237      | PT7-17 |
| 228010      | PT6-13          | 310067      | PT3-17         | 391384      | PT5-6          | 455154      | PT7-16 | 455238      | PT7-17 |
| 228011      | PT6-13          | 310068      | PT3-17         | 391385      | PT5-6          | 455155      | PT7-16 | 455239      | PT7-17 |
| 228012      | PT6-13          | 310069      | PT3-17         | 393002      | PT6-6          | 455156      | PT7-16 | 455240      | PT7-18 |
| 228058      | PT6-13          | 310070      | PT3-17         | 393170      | PT6-8          | 455157      | PT7-16 | 455241      | PT7-18 |
| 228079      | PT6-13          | 310071      | PT3-17         | 393257      | PT1-55         | 455158      | PT7-16 | 455242      | PT7-18 |
| 228080      | PT6-13          | 310077      | PT3-17         | 394059      | PT6-23         | 455159      | PT7-16 | 455243      | PT7-18 |
| 228081      | PT6-13          | 310078      | PT3-17         | 394171      | PT1-64         | 455160      | PT7-16 | 455244      | PT7-18 |
| 228082      | PT6-13          | 310079      | PT3-17         | 394172      | PT1-64         | 455161      | PT7-16 | 455245      | PT7-18 |
| 228083      | PT6-13          | 310080      | PT3-17         | 394173      | PT1-64         | 455162      | PT7-16 | 455246      | PT7-18 |
| 228084      | PT6-13          | 310081      | PT3-17         | 394174      | PT1-64         | 455163      | PT7-16 | 455247      | PT7-18 |
| 228085      | PT6-13          | 310082      | PT3-17         | 394175      | PT1-64         | 455164      | PT7-16 | 455248      | PT7-18 |
| 228086      | PT6-13          | 310083      | PT3-17         | 394176      | PT1-64         | 455165      | PT7-16 | 455249      | PT7-18 |
| 228087      | PT6-13          | 310084      | PT3-17         | 394177      | PT1-64         | 455166      | PT7-16 | 455250      | PT7-18 |
| 228088      | PT6-13          | 310085      | PT3-17         | 394178      | PT1-64         | 455167      | PT7-16 | 455251      | PT7-18 |
| 228089      | PT6-13, PT13-30 | 311070      | PT3-9          | 394179      | PT1-64         | 455168      | PT7-16 | 455252      | PT7-18 |
| 228090      | PT6-13, PT13-30 | 311071      | PT3-9          | 394180      | PT1-64         | 455169      | PT7-16 | 455253      | PT7-18 |
| 228091      | PT6-13, PT13-30 | 311072      | PT3-9          | 411767      | PT1-82         | 455170      | PT7-16 | 455254      | PT7-18 |
| 228092      | PT6-13, PT13-30 | 311073      | PT3-9          | 411768      | PT1-82         | 455171      | PT7-16 | 455255      | PT7-18 |
| 228093      | PT6-13, PT13-30 | 311074      | PT3-11         | 411770      | PT1-82         | 455172      | PT7-16 | 455256      | PT7-18 |
| 228094      | PT6-13, PT13-30 | 311077      | PT3-12         | 411771      | PT1-82         | 455173      | PT7-16 | 455257      | PT7-18 |
| 228095      | PT6-13, PT13-30 | 311111      | PT3-15         | 423589      | PT1-55         | 455174      | PT7-16 | 455258      | PT7-18 |
| 228110      | PT6-27          | 311112      | PT3-15         | 423677      | PT1-55         | 455175      | PT7-16 | 455259      | PT7-18 |
| 228111      | PT6-27          | 311113      | PT3-15         | 424063      | PT6-30         | 455176      | PT7-16 | 455260      | PT7-18 |
| 228112      | PT6-27          | 311116      | PT3-15         | 425514      | PT1-55         | 455177      | PT7-16 | 455261      | PT7-18 |
| 228113      | PT6-27          | 311118      | PT3-15         | 426013      | PT6-8          | 455178      | PT7-16 | 455262      | PT7-18 |
| 228114      | PT6-27          | 311119      | PT3-15         | 426672      | PT1-55, PT1-82 | 455179      | PT7-16 | 455263      | PT7-18 |
| 228115      | PT6-27          | 311120      | PT3-15         | 426673      | PT1-55, PT1-82 | 455180      | PT7-16 | 455264      | PT7-18 |
| 228116      | PT6-27          | 311121      | PT3-15         | 426674      | PT1-55, PT1-82 | 455181      | PT7-16 | 455265      | PT7-18 |
| 228117      | PT6-27          | 311122      | PT3-15         | 426916      | PT1-55         | 455182      | PT7-16 | 455266      | PT7-18 |
| 228118      | PT6-27          | 311123      | PT3-15         | 450966      | PT7-141        | 455183      | PT7-16 | 455267      | PT7-18 |
| 228119      | PT6-27          | 311124      | PT3-15         | 455100      | PT7-16         | 455184      | PT7-16 | 455268      | PT7-18 |
| 228465      | PT6-26          | 311125      | PT3-15         | 455101      | PT7-16         | 455185      | PT7-16 | 455269      | PT7-18 |
| 228466      | PT6-26          | 315070      | PT3-9          | 455102      | PT7-16         | 455186      | PT7-16 | 455270      | PT7-18 |
| 228467      | PT6-26          | 315071      | PT3-9          | 455103      | PT7-16         | 455187      | PT7-16 | 455271      | PT7-18 |
| 228468      | PT6-26          | 315072      | PT3-9          | 455104      | PT7-16         | 455188      | PT7-17 | 455272      | PT7-18 |
| 228469      | PT6-26          | 315073      | PT3-12         | 455105      | PT7-16         | 455189      | PT7-17 | 455273      | PT7-18 |
| 228470      | PT6-26          | 315074      | PT3-12         | 455106      | PT7-16         | 455190      | PT7-17 | 455274      | PT7-18 |
| 228471      | PT6-26          | 315075      | PT3-12         | 455107      | PT7-16         | 455191      | PT7-17 | 455275      | PT7-18 |
| 228472      | PT6-26          | 315111      | PT3-15         | 455108      | PT3-16, PT7-16 | 455192      | PT7-17 | 455276      | PT7-18 |
| 228473      | PT6-26          | 318060      | PT3-9          | 455109      | PT7-16         | 455193      | PT7-17 | 455277      | PT7-18 |
| 228474      | PT6-26          | 318065      | PT3-9          | 455110      | PT7-16         | 455194      | PT7-17 | 455278      | PT7-18 |
| 228475      | PT6-26          | 318110      | PT3-12         | 455111      | PT7-16         | 455195      | PT7-17 | 455279      | PT7-18 |
| 228476      | PT6-26          | 318400      | PT3-12         | 455112      | PT3-16, PT7-16 | 455196      | PT7-17 | 455280      | PT7-18 |
| 228477      | PT6-26          | 330250      | PT9-4          | 455113      | PT3-16, PT7-16 | 455197      | PT7-17 | 455281      | PT7-18 |
| 305015      | PT3-9           | 330251      | PT9-4          | 455114      | PT3-16, PT7-16 | 455198      | PT7-17 | 455282      | PT7-18 |
| 305016      | PT3-9           | 330252      | PT9-4          | 455115      | PT3-16, PT7-16 | 455199      | PT7-17 | 455284      | PT7-18 |
| 305019      | PT3-11          | 330253      | PT9-4          | 455116      | PT3-16, PT7-16 | 455200      | PT7-17 | 455285      | PT7-18 |
| 305021      | PT3-9           | 330254      | PT9-4          | 455117      | PT3-16, PT7-16 | 455201      | PT7-17 | 455287      | PT7-18 |









# PART NUMBER INDEX

Conveyor Components

Engineering

Part Number Index

Keyword Index

| Part Number | Page    | Part Number | Page    | Part Number | Page    | Part Number | Page   | Part Number | Page   |
|-------------|---------|-------------|---------|-------------|---------|-------------|--------|-------------|--------|
| 482066      | PT12-10 | 482150      | PT12-11 | 482234      | PT12-16 | D1-3V140    | PT7-29 | D2-5V59     | PT7-31 |
| 482067      | PT12-10 | 482151      | PT12-11 | 482235      | PT12-16 | D1-3V190    | PT7-29 | D2-5V63     | PT7-31 |
| 482068      | PT12-10 | 482152      | PT12-11 | 482236      | PT12-16 | D1-3V235    | PT7-29 | D2-5V67     | PT7-31 |
| 482069      | PT12-10 | 482153      | PT12-11 | 482237      | PT12-16 | D1-3V265    | PT7-29 | D2-5V71     | PT7-31 |
| 482070      | PT12-10 | 482154      | PT12-11 | 482238      | PT12-16 | D1-3V315    | PT7-29 | D2-5V75     | PT7-31 |
| 482071      | PT12-10 | 482155      | PT12-11 | 482239      | PT12-16 | D1-3V335    | PT7-29 | D2-5V80     | PT7-31 |
| 482072      | PT12-10 | 482156      | PT12-11 | 482240      | PT12-16 | D1-3V365    | PT7-29 | D2-5V85     | PT7-31 |
| 482073      | PT12-10 | 482157      | PT12-11 | 482241      | PT12-16 | D1-3V412    | PT7-29 | D2-5V90     | PT7-31 |
| 482074      | PT12-10 | 482158      | PT12-11 | 708079      | PT1-80  | D1-3V475    | PT7-29 | D2-5V103    | PT7-31 |
| 482075      | PT12-10 | 482159      | PT12-11 | 708083      | PT1-80  | D1B34       | PT7-36 | D2-5V109    | PT7-31 |
| 482076      | PT12-10 | 482160      | PT12-11 | 708084      | PT1-80  | D1B36       | PT7-36 | D2-5V113    | PT7-31 |
| 482077      | PT12-10 | 482161      | PT12-11 | 708086      | PT1-80  | D1B38       | PT7-36 | D2-5V118    | PT7-31 |
| 482078      | PT12-10 | 482162      | PT12-11 | 708110      | PT1-80  | D1B40       | PT7-36 | D2-5V125    | PT7-31 |
| 482079      | PT12-10 | 482163      | PT12-11 | 708118      | PT1-80  | D1B42       | PT7-36 | D2-5V132    | PT7-31 |
| 482080      | PT12-10 | 482164      | PT12-11 | 708151      | PT1-80  | D1B44       | PT7-36 | D2-5V140    | PT7-31 |
| 482081      | PT12-10 | 482165      | PT12-11 | 708155      | PT1-80  | D1B46       | PT7-36 | D2-5V150    | PT7-31 |
| 482082      | PT12-10 | 482166      | PT12-13 | 708158      | PT1-80  | D1B48       | PT7-36 | D2-5V160    | PT7-31 |
| 482083      | PT12-10 | 482167      | PT12-13 | 708188      | PT1-80  | D1B50       | PT7-36 | D2-5V187    | PT7-31 |
| 482084      | PT12-10 | 482168      | PT12-13 | 708192      | PT1-80  | D1B52       | PT7-36 | D2-5V212    | PT7-31 |
| 482085      | PT12-10 | 482169      | PT12-13 | 708195      | PT1-80  | D1B54       | PT7-36 | D2-5V236    | PT7-31 |
| 482086      | PT12-14 | 482170      | PT12-13 | 708223      | PT1-80  | D1B56       | PT7-36 | D2-5V280    | PT7-31 |
| 482087      | PT12-14 | 482171      | PT12-13 | 708227      | PT1-80  | D1B58       | PT7-36 | D2-5V465    | PT7-31 |
| 482088      | PT12-14 | 482172      | PT12-13 | 708230      | PT1-80  | D1B60       | PT7-36 | D2-5V925    | PT7-31 |
| 482089      | PT12-13 | 482173      | PT12-13 | 708252      | PT1-80  | D1B62       | PT7-36 | D2-5V975    | PT7-31 |
| 482090      | PT12-13 | 482174      | PT12-13 | 708256      | PT1-80  | D1B64       | PT7-36 | D2B34       | PT7-36 |
| 482091      | PT12-13 | 482175      | PT12-13 | 708260      | PT1-80  | D1B66       | PT7-36 | D2B36       | PT7-36 |
| 482092      | PT12-13 | 482176      | PT12-13 | 708280      | PT1-80  | D1B68       | PT7-36 | D2B38       | PT7-36 |
| 482093      | PT12-13 | 482177      | PT12-13 | 708284      | PT1-80  | D1B70       | PT7-36 | D2B40       | PT7-36 |
| 482094      | PT12-13 | 482178      | PT12-13 | 708289      | PT1-80  | D1B74       | PT7-36 | D2B42       | PT7-36 |
| 482095      | PT12-13 | 482179      | PT12-13 | 708300      | PT1-80  | D1B80       | PT7-36 | D2B44       | PT7-36 |
| 482096      | PT12-10 | 482180      | PT12-13 | 708304      | PT1-80  | D1B86       | PT7-36 | D2B46       | PT7-36 |
| 482097      | PT12-10 | 482181      | PT12-13 | 708308      | PT1-80  | D1B90       | PT7-36 | D2B48       | PT7-36 |
| 482098      | PT12-10 | 482182      | PT12-11 | 708322      | PT1-80  | D1B94       | PT7-36 | D2B50       | PT7-36 |
| 482099      | PT12-10 | 482183      | PT12-11 | 708326      | PT1-80  | D1B110      | PT7-36 | D2B52       | PT7-36 |
| 482100      | PT12-10 | 482184      | PT12-11 | 708331      | PT1-80  | D1B124      | PT7-36 | D2B54       | PT7-36 |
| 482101      | PT12-10 | 482185      | PT12-11 | 708337      | PT1-80  | D1B136      | PT7-36 | D2B56       | PT7-36 |
| 482102      | PT12-10 | 482186      | PT12-11 | 708341      | PT1-80  | D1B154      | PT7-36 | D2B58       | PT7-36 |
| 482103      | PT12-10 | 482187      | PT12-11 | 708347      | PT1-80  | D1B160      | PT7-36 | D2B60       | PT7-36 |
| 482104      | PT12-10 | 482188      | PT12-11 | 708351      | PT1-80  | D1B184      | PT7-36 | D2B62       | PT7-36 |
| 482105      | PT12-10 | 482189      | PT12-11 | 708357      | PT1-80  | D1B200      | PT7-36 | D2B64       | PT7-36 |
| 482106      | PT12-10 | 482190      | PT12-11 | 708361      | PT1-80  | D1B250      | PT7-36 | D2B66       | PT7-36 |
| 482107      | PT12-10 | 482191      | PT12-11 | 708367      | PT1-80  | D1C70       | PT7-40 | D2B68       | PT7-36 |
| 482108      | PT12-10 | 482192      | PT12-11 | 708370      | PT1-80  | D1C75       | PT7-40 | D2B70       | PT7-36 |
| 482109      | PT12-10 | 482193      | PT12-11 | 708375      | PT1-80  | D1C80       | PT7-40 | D2B74       | PT7-36 |
| 482110      | PT12-10 | 482194      | PT12-11 | 708378      | PT1-80  | D1C85       | PT7-40 | D2B80       | PT7-36 |
| 482111      | PT12-10 | 482195      | PT12-11 | 708383      | PT1-80  | D1C90       | PT7-40 | D2B86       | PT7-36 |
| 482112      | PT12-10 | 482196      | PT12-11 | 708385      | PT1-80  | D1C95       | PT7-40 | D2B90       | PT7-36 |
| 482113      | PT12-10 | 482197      | PT12-11 | 708389      | PT1-80  | D1C100      | PT7-40 | D2B94       | PT7-36 |
| 482114      | PT12-10 | 482198      | PT12-11 | 708391      | PT1-80  | D1C105      | PT7-40 | D2B110      | PT7-36 |
| 482115      | PT12-10 | 482199      | PT12-15 | 708399      | PT1-80  | D1C110      | PT7-40 | D2B124      | PT7-36 |
| 482116      | PT12-10 | 482200      | PT12-15 | 708403      | PT1-80  | D1C120      | PT7-40 | D2B136      | PT7-36 |
| 482117      | PT12-10 | 482201      | PT12-15 | 708420      | PT1-80  | D1C130      | PT7-40 | D2B154      | PT7-36 |
| 482118      | PT12-10 | 482202      | PT12-15 | 708425      | PT1-80  | D1C140      | PT7-40 | D2B160      | PT7-36 |
| 482119      | PT12-10 | 482203      | PT12-15 | 719349      | PT1-80  | D1C160      | PT7-40 | D2B184      | PT7-36 |
| 482120      | PT12-11 | 482204      | PT12-15 | 719350      | PT1-80  | D1C180      | PT7-40 | D2B200      | PT7-36 |
| 482121      | PT12-11 | 482205      | PT12-15 | 719351      | PT1-80  | D1C200      | PT7-40 | D2B250      | PT7-36 |
| 482122      | PT12-11 | 482206      | PT12-15 | 719352      | PT1-80  | D1C240      | PT7-40 | D2B300      | PT7-36 |
| 482123      | PT12-11 | 482207      | PT12-15 | 719353      | PT1-80  | D2-3V22     | PT7-29 | D2B380      | PT7-36 |
| 482124      | PT12-11 | 482208      | PT12-15 | 719354      | PT1-80  | D2-3V25     | PT7-29 | D2C70       | PT7-40 |
| 482125      | PT12-11 | 482209      | PT12-15 | 719355      | PT1-80  | D2-3V28     | PT7-29 | D2C75       | PT7-40 |
| 482126      | PT12-11 | 482210      | PT12-15 | 719356      | PT1-80  | D2-3V30     | PT7-29 | D2C80       | PT7-40 |
| 482127      | PT12-11 | 482211      | PT12-15 | 719357      | PT1-80  | D2-3V45     | PT7-29 | D2C85       | PT7-40 |
| 482128      | PT12-13 | 482212      | PT12-15 | 719358      | PT1-80  | D2-3V50     | PT7-29 | D2C90       | PT7-40 |
| 482129      | PT12-13 | 482213      | PT12-15 | 719359      | PT1-80  | D2-3V53     | PT7-29 | D2C95       | PT7-40 |
| 482130      | PT12-13 | 482214      | PT12-15 | 719360      | PT1-80  | D2-3V56     | PT7-29 | D2C100      | PT7-40 |
| 482131      | PT12-13 | 482215      | PT12-15 | 719361      | PT1-80  | D2-3V65     | PT7-29 | D2C105      | PT7-40 |
| 482132      | PT12-13 | 482216      | PT12-15 | 719362      | PT1-80  | D2-3V69     | PT7-29 | D2C110      | PT7-40 |
| 482133      | PT12-13 | 482217      | PT12-15 | 719363      | PT1-80  | D2-3V80     | PT7-29 | D2C120      | PT7-40 |
| 482134      | PT12-13 | 482218      | PT12-15 | 719364      | PT1-80  | D2-3V106    | PT7-29 | D2C130      | PT7-40 |
| 482135      | PT12-13 | 482219      | PT12-15 | 719365      | PT1-80  | D2-3V140    | PT7-29 | D2C140      | PT7-40 |
| 482136      | PT12-13 | 482220      | PT12-15 | 719366      | PT1-80  | D2-3V190    | PT7-29 | D2C160      | PT7-40 |
| 482137      | PT12-13 | 482221      | PT12-15 | D1-3V22     | PT7-29  | D2-3V235    | PT7-29 | D2C180      | PT7-40 |
| 482138      | PT12-13 | 482222      | PT12-15 | D1-3V25     | PT7-29  | D2-3V250    | PT7-29 | D2C200      | PT7-40 |
| 482139      | PT12-13 | 482223      | PT12-15 | D1-3V28     | PT7-29  | D2-3V265    | PT7-29 | D2C240      | PT7-40 |
| 482140      | PT12-13 | 482224      | PT12-15 | D1-3V30     | PT7-29  | D2-3V315    | PT7-29 | D2C270      | PT7-40 |
| 482141      | PT12-11 | 482225      | PT12-15 | D1-3V45     | PT7-29  | D2-3V335    | PT7-29 | D2C300      | PT7-40 |
| 482142      | PT12-11 | 482226      | PT12-15 | D1-3V50     | PT7-29  | D2-3V365    | PT7-29 | D3-3V3.35   | PT7-29 |
| 482143      | PT12-11 | 482227      | PT12-15 | D1-3V53     | PT7-29  | D2-3V412    | PT7-29 | D3-3V28     | PT7-29 |
| 482144      | PT12-11 | 482228      | PT12-15 | D1-3V56     | PT7-29  | D2-3V475    | PT7-29 | D3-3V30     | PT7-29 |
| 482145      | PT12-11 | 482229      | PT12-15 | D1-3V65     | PT7-29  | D2-5V44     | PT7-31 | D3-3V50     | PT7-29 |
| 482146      | PT12-11 | 482230      | PT12-15 | D1-3V69     | PT7-29  | D2-5V49     | PT7-31 | D3-3V53     | PT7-29 |
| 482147      | PT12-11 | 482231      | PT12-15 | D1-3V80     | PT7-29  | D2-5V52     | PT7-31 | D3-3V56     | PT7-29 |
| 482148      | PT12-11 | 482232      | PT12-15 | D1-3V106    | PT7-29  | D2-5V55     | PT7-31 | D3-3V60     | PT7-29 |
| 482149      | PT12-11 | 482233      | PT12-16 |             |         |             |        | D3-3V65     | PT7-29 |



# PART NUMBER INDEX



| Part Number | Page   | Part Number | Page   | Part Number | Page   | Part Number | Page   | Part Number | Page   |
|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|
| D3-3V69     | PT7-29 | D3C85       | PT7-40 | D4-8V140    | PT7-34 | D4D220      | PT7-42 | D5B80       | PT7-38 |
| D3-3V80     | PT7-29 | D3C90       | PT7-40 | D4-8V150    | PT7-34 | D4D270      | PT7-42 | D5B86       | PT7-38 |
| D3-3V106    | PT7-29 | D3C95       | PT7-40 | D4-8V160    | PT7-34 | D4D330      | PT7-42 | D5B90       | PT7-38 |
| D3-3V140    | PT7-29 | D3C100      | PT7-40 | D4-8V170    | PT7-34 | D4D400      | PT7-42 | D5B94       | PT7-38 |
| D3-3V190    | PT7-29 | D3C105      | PT7-40 | D4-8V180    | PT7-34 | D5-3V50     | PT7-30 | D5B110      | PT7-38 |
| D3-3V250    | PT7-29 | D3C110      | PT7-40 | D4-8V190    | PT7-34 | D5-3V53     | PT7-30 | D5B124      | PT7-38 |
| D3-3V265    | PT7-29 | D3C120      | PT7-40 | D4-8V200    | PT7-34 | D5-3V56     | PT7-30 | D5B136      | PT7-38 |
| D3-3V315    | PT7-29 | D3C130      | PT7-40 | D4-8V212    | PT7-34 | D5-3V60     | PT7-30 | D5B154      | PT7-38 |
| D3-3V335    | PT7-29 | D3C140      | PT7-40 | D4-8V224    | PT7-34 | D5-3V65     | PT7-30 | D5B160      | PT7-38 |
| D3-3V365    | PT7-29 | D3C160      | PT7-40 | D4-8V248    | PT7-34 | D5-3V69     | PT7-30 | D5B184      | PT7-38 |
| D3-3V412    | PT7-29 | D3C180      | PT7-40 | D4-8V300    | PT7-34 | D5-3V80     | PT7-30 | D5B200      | PT7-38 |
| D3-3V450    | PT7-29 | D3C200      | PT7-40 | D4-8V355    | PT7-34 | D5-3V106    | PT7-30 | D5B250      | PT7-38 |
| D3-3V475    | PT7-29 | D3C240      | PT7-40 | D4-8V400    | PT7-34 | D5-3V140    | PT7-30 | D5B300      | PT7-38 |
| D3-5V44     | PT7-31 | D3C270      | PT7-40 | D4-8V445    | PT7-34 | D5-3V190    | PT7-30 | D5B380      | PT7-38 |
| D3-5V49     | PT7-31 | D3C300      | PT7-40 | D4-8V530    | PT7-34 | D5-3V250    | PT7-30 | D5C60       | PT7-41 |
| D3-5V52     | PT7-31 | D3C360      | PT7-40 | D4B34       | PT7-37 | D5-3V335    | PT7-30 | D5C70       | PT7-41 |
| D3-5V55     | PT7-31 | D3C440      | PT7-40 | D4B36       | PT7-37 | D5-3V475    | PT7-30 | D5C75       | PT7-41 |
| D3-5V59     | PT7-31 | D3C500      | PT7-40 | D4B38       | PT7-37 | D5-5V44     | PT7-32 | D5C80       | PT7-41 |
| D3-5V63     | PT7-31 | D3D120      | PT7-42 | D4B40       | PT7-37 | D5-5V49     | PT7-32 | D5C85       | PT7-41 |
| D3-5V67     | PT7-31 | D3D130      | PT7-42 | D4B42       | PT7-37 | D5-5V52     | PT7-32 | D5C90       | PT7-41 |
| D3-5V71     | PT7-31 | D3D135      | PT7-42 | D4B44       | PT7-37 | D5-5V55     | PT7-32 | D5C95       | PT7-41 |
| D3-5V75     | PT7-31 | D3D140      | PT7-42 | D4B46       | PT7-37 | D5-5V59     | PT7-32 | D5C100      | PT7-41 |
| D3-5V80     | PT7-31 | D3D145      | PT7-42 | D4B48       | PT7-37 | D5-5V63     | PT7-32 | D5C105      | PT7-41 |
| D3-5V85     | PT7-31 | D3D150      | PT7-42 | D4B50       | PT7-37 | D5-5V67     | PT7-32 | D5C110      | PT7-41 |
| D3-5V90     | PT7-31 | D3D155      | PT7-42 | D4B52       | PT7-37 | D5-5V71     | PT7-32 | D5C120      | PT7-41 |
| D3-5V103    | PT7-31 | D3D160      | PT7-42 | D4B54       | PT7-37 | D5-5V75     | PT7-32 | D5C130      | PT7-41 |
| D3-5V109    | PT7-31 | D3D180      | PT7-42 | D4B56       | PT7-37 | D5-5V80     | PT7-32 | D5C140      | PT7-41 |
| D3-5V113    | PT7-31 | D3D220      | PT7-42 | D4B58       | PT7-37 | D5-5V85     | PT7-32 | D5C160      | PT7-41 |
| D3-5V118    | PT7-31 | D3D270      | PT7-42 | D4B60       | PT7-37 | D5-5V90     | PT7-32 | D5C180      | PT7-41 |
| D3-5V125    | PT7-31 | D3D300      | PT7-42 | D4B62       | PT7-37 | D5-5V103    | PT7-32 | D5C200      | PT7-41 |
| D3-5V132    | PT7-31 | D3D400      | PT7-42 | D4B64       | PT7-37 | D5-5V109    | PT7-32 | D5C240      | PT7-41 |
| D3-5V140    | PT7-31 | D4-3V2.65   | PT7-29 | D4B66       | PT7-37 | D5-5V113    | PT7-32 | D5C270      | PT7-41 |
| D3-5V150    | PT7-31 | D4-3V3.35   | PT7-29 | D4B68       | PT7-37 | D5-5V118    | PT7-32 | D5C300      | PT7-41 |
| D3-5V160    | PT7-31 | D4-3V28     | PT7-29 | D4B70       | PT7-37 | D5-5V125    | PT7-32 | D5C360      | PT7-41 |
| D3-5V187    | PT7-31 | D4-3V30     | PT7-29 | D4B74       | PT7-37 | D5-5V132    | PT7-32 | D5C440      | PT7-41 |
| D3-5V212    | PT7-31 | D4-3V45     | PT7-29 | D4B80       | PT7-37 | D5-5V140    | PT7-32 | D5C500      | PT7-41 |
| D3-5V236    | PT7-31 | D4-3V50     | PT7-29 | D4B86       | PT7-37 | D5-5V150    | PT7-32 | D5D120      | PT7-42 |
| D3-5V280    | PT7-31 | D4-3V53     | PT7-29 | D4B90       | PT7-37 | D5-5V160    | PT7-32 | D5D130      | PT7-42 |
| D3-5V315    | PT7-31 | D4-3V56     | PT7-29 | D4B94       | PT7-37 | D5-5V187    | PT7-32 | D5D135      | PT7-42 |
| D3-5V375    | PT7-31 | D4-3V60     | PT7-29 | D4B110      | PT7-37 | D5-5V212    | PT7-32 | D5D140      | PT7-42 |
| D3-5V465    | PT7-31 | D4-3V65     | PT7-29 | D4B124      | PT7-37 | D5-5V236    | PT7-32 | D5D145      | PT7-42 |
| D3-5V500    | PT7-31 | D4-3V69     | PT7-29 | D4B136      | PT7-37 | D5-5V280    | PT7-32 | D5D150      | PT7-42 |
| D3-5V925    | PT7-31 | D4-3V80     | PT7-29 | D4B154      | PT7-37 | D5-5V315    | PT7-32 | D5D155      | PT7-42 |
| D3-5V975    | PT7-31 | D4-3V106    | PT7-29 | D4B160      | PT7-37 | D5-5V375    | PT7-32 | D5D160      | PT7-42 |
| D3B34       | PT7-37 | D4-3V140    | PT7-29 | D4B184      | PT7-37 | D5-5V465    | PT7-32 | D5D170      | PT7-42 |
| D3B36       | PT7-37 | D4-3V190    | PT7-29 | D4B200      | PT7-37 | D5-5V500    | PT7-32 | D5D180      | PT7-42 |
| D3B38       | PT7-37 | D4-3V250    | PT7-29 | D4B250      | PT7-37 | D5-5V925    | PT7-32 | D5D200      | PT7-42 |
| D3B40       | PT7-37 | D4-3V315    | PT7-29 | D4B300      | PT7-37 | D5-5V975    | PT7-32 | D5D220      | PT7-42 |
| D3B42       | PT7-37 | D4-3V335    | PT7-29 | D4B380      | PT7-37 | D5-8V125    | PT7-34 | D5D270      | PT7-42 |
| D3B44       | PT7-37 | D4-3V365    | PT7-29 | D4C50       | PT7-40 | D5-8V132    | PT7-34 | D5D330      | PT7-42 |
| D3B46       | PT7-37 | D4-3V412    | PT7-29 | D4C50SK     | PT7-40 | D5-8V140    | PT7-34 | D5D400      | PT7-42 |
| D3B48       | PT7-37 | D4-3V475    | PT7-29 | D4C56       | PT7-40 | D5-8V150    | PT7-34 | D5D480      | PT7-42 |
| D3B50       | PT7-37 | D4-5V44     | PT7-32 | D4C60       | PT7-40 | D5-8V160    | PT7-34 | D5D580      | PT7-42 |
| D3B52       | PT7-37 | D4-5V49     | PT7-32 | D4C70       | PT7-40 | D5-8V170    | PT7-34 | D6-3V50     | PT7-30 |
| D3B54       | PT7-37 | D4-5V52     | PT7-32 | D4C75       | PT7-40 | D5-8V180    | PT7-34 | D6-3V53     | PT7-30 |
| D3B56       | PT7-37 | D4-5V55     | PT7-32 | D4C80       | PT7-40 | D5-8V190    | PT7-34 | D6-3V56     | PT7-30 |
| D3B58       | PT7-37 | D4-5V59     | PT7-32 | D4C85       | PT7-40 | D5-8V200    | PT7-34 | D6-3V60     | PT7-30 |
| D3B60       | PT7-37 | D4-5V63     | PT7-32 | D4C90       | PT7-40 | D5-8V212    | PT7-34 | D6-3V65     | PT7-30 |
| D3B62       | PT7-37 | D4-5V67     | PT7-32 | D4C95       | PT7-40 | D5-8V224    | PT7-34 | D6-3V69     | PT7-30 |
| D3B64       | PT7-37 | D4-5V71     | PT7-32 | D4C100      | PT7-40 | D5-8V248    | PT7-34 | D6-3V80     | PT7-30 |
| D3B66       | PT7-37 | D4-5V75     | PT7-32 | D4C105      | PT7-40 | D5-8V300    | PT7-34 | D6-3V106    | PT7-30 |
| D3B68       | PT7-37 | D4-5V80     | PT7-32 | D4C110      | PT7-40 | D5-8V355    | PT7-34 | D6-3V140    | PT7-30 |
| D3B70       | PT7-37 | D4-5V85     | PT7-32 | D4C120      | PT7-40 | D5-8V400    | PT7-34 | D6-3V190    | PT7-30 |
| D3B74       | PT7-37 | D4-5V90     | PT7-32 | D4C130      | PT7-40 | D5-8V445    | PT7-34 | D6-3V250    | PT7-30 |
| D3B80       | PT7-37 | D4-5V103    | PT7-32 | D4C140      | PT7-40 | D5-8V530    | PT7-34 | D6-3V335    | PT7-30 |
| D3B86       | PT7-37 | D4-5V109    | PT7-32 | D4C160      | PT7-40 | D5B34       | PT7-38 | D6-3V475    | PT7-30 |
| D3B90       | PT7-37 | D4-5V113    | PT7-32 | D4C180      | PT7-40 | D5B36       | PT7-38 | D6-5V44     | PT7-33 |
| D3B94       | PT7-37 | D4-5V118    | PT7-32 | D4C200      | PT7-40 | D5B38       | PT7-38 | D6-5V49     | PT7-33 |
| D3B110      | PT7-37 | D4-5V125    | PT7-32 | D4C240      | PT7-40 | D5B40       | PT7-38 | D6-5V52     | PT7-33 |
| D3B124      | PT7-37 | D4-5V132    | PT7-32 | D4C270      | PT7-40 | D5B42       | PT7-38 | D6-5V55     | PT7-33 |
| D3B136      | PT7-37 | D4-5V140    | PT7-32 | D4C300      | PT7-40 | D5B44       | PT7-38 | D6-5V59     | PT7-33 |
| D3B154      | PT7-37 | D4-5V150    | PT7-32 | D4C360      | PT7-40 | D5B46       | PT7-38 | D6-5V63     | PT7-33 |
| D3B160      | PT7-37 | D4-5V160    | PT7-32 | D4C440      | PT7-40 | D5B48       | PT7-38 | D6-5V67     | PT7-33 |
| D3B184      | PT7-37 | D4-5V187    | PT7-32 | D4C500      | PT7-40 | D5B50       | PT7-38 | D6-5V71     | PT7-33 |
| D3B200      | PT7-37 | D4-5V212    | PT7-32 | D4D120      | PT7-42 | D5B52       | PT7-38 | D6-5V75     | PT7-33 |
| D3B250      | PT7-37 | D4-5V236    | PT7-32 | D4D130      | PT7-42 | D5B54       | PT7-38 | D6-5V80     | PT7-33 |
| D3B300      | PT7-37 | D4-5V280    | PT7-32 | D4D135      | PT7-42 | D5B56       | PT7-38 | D6-5V85     | PT7-33 |
| D3B380      | PT7-37 | D4-5V315    | PT7-32 | D4D140      | PT7-42 | D5B58       | PT7-38 | D6-5V90     | PT7-33 |
| D3C50       | PT7-40 | D4-5V375    | PT7-32 | D4D145      | PT7-42 | D5B60       | PT7-38 | D6-5V103    | PT7-33 |
| D3C50SK     | PT7-40 | D4-5V465    | PT7-32 | D4D150      | PT7-42 | D5B62       | PT7-38 | D6-5V109    | PT7-33 |
| D3C56       | PT7-40 | D4-5V500    | PT7-32 | D4D155      | PT7-42 | D5B64       | PT7-38 | D6-5V113    | PT7-33 |
| D3C60       | PT7-40 | D4-5V925    | PT7-32 | D4D160      | PT7-42 | D5B66       | PT7-38 | D6-5V118    | PT7-33 |
| D3C70       | PT7-40 | D4-5V975    | PT7-32 | D4D170      | PT7-42 | D5B68       | PT7-38 | D6-5V125    | PT7-33 |
| D3C75       | PT7-40 | D4-8V125    | PT7-34 | D4D180      | PT7-42 | D5B70       | PT7-38 | D6-5V132    | PT7-33 |
| D3C80       | PT7-40 | D4-8V132    | PT7-34 | D4D200      | PT7-42 | D5B74       | PT7-38 | D6-5V140    | PT7-33 |





# PART NUMBER INDEX

Conveyor Components

Engineering

Part Number Index

Keyword Index

| Part Number | Page   | Part Number | Page   | Part Number | Page   | Part Number | Page   | Part Number | Page   |
|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|
| D6-5V150    | PT7-33 | D6C500      | PT7-41 | D8B94       | PT7-39 | D10-8V160   | PT7-35 | D12-8V355   | PT7-35 |
| D6-5V160    | PT7-33 | D6D120      | PT7-42 | D8B110      | PT7-39 | D10-8V170   | PT7-35 | D12-8V400   | PT7-35 |
| D6-5V187    | PT7-33 | D6D130      | PT7-42 | D8B124      | PT7-39 | D10-8V180   | PT7-35 | D12-8V445   | PT7-35 |
| D6-5V212    | PT7-33 | D6D135      | PT7-42 | D8B136      | PT7-39 | D10-8V190   | PT7-35 | D12-8V530   | PT7-35 |
| D6-5V236    | PT7-33 | D6D140      | PT7-42 | D8B154      | PT7-39 | D10-8V200   | PT7-35 | D12-8V580   | PT7-35 |
| D6-5V280    | PT7-33 | D6D145      | PT7-42 | D8B160      | PT7-39 | D10-8V212   | PT7-35 | D12-8V630   | PT7-35 |
| D6-5V315    | PT7-33 | D6D150      | PT7-42 | D8B184      | PT7-39 | D10-8V224   | PT7-35 | D12-8V710   | PT7-35 |
| D6-5V375    | PT7-33 | D6D155      | PT7-42 | D8B200      | PT7-39 | D10-8V248   | PT7-35 | D12C90      | PT7-41 |
| D6-5V465    | PT7-33 | D6D160      | PT7-42 | D8B250      | PT7-39 | D10-8V300   | PT7-35 | D12C95      | PT7-41 |
| D6-5V500    | PT7-33 | D6D170      | PT7-42 | D8B300      | PT7-39 | D10-8V355   | PT7-35 | D12C100     | PT7-41 |
| D6-5V925    | PT7-33 | D6D180      | PT7-42 | D8B380      | PT7-39 | D10-8V400   | PT7-35 | D12C105     | PT7-41 |
| D6-5V975    | PT7-33 | D6D200      | PT7-42 | D8C70       | PT7-41 | D10-8V445   | PT7-35 | D12C110     | PT7-41 |
| D6-8V125    | PT7-34 | D6D220      | PT7-42 | D8C80       | PT7-41 | D10-8V530   | PT7-35 | D12C120     | PT7-41 |
| D6-8V132    | PT7-34 | D6D270      | PT7-42 | D8C85       | PT7-41 | D10-8V580   | PT7-35 | D12C130     | PT7-41 |
| D6-8V140    | PT7-34 | D6D330      | PT7-42 | D8C90       | PT7-41 | D10-8V630   | PT7-35 | D12C140     | PT7-41 |
| D6-8V150    | PT7-34 | D6D400      | PT7-42 | D8C95       | PT7-41 | D10-8V710   | PT7-35 | D12C160     | PT7-41 |
| D6-8V160    | PT7-34 | D6D480      | PT7-42 | D8C100      | PT7-41 | D10B54      | PT7-39 | D12C180     | PT7-41 |
| D6-8V170    | PT7-34 | D6D580      | PT7-42 | D8C105      | PT7-41 | D10B56      | PT7-39 | D12C200     | PT7-41 |
| D6-8V180    | PT7-34 | D8-3V50     | PT7-30 | D8C110      | PT7-41 | D10B58      | PT7-39 | D12C240     | PT7-41 |
| D6-8V190    | PT7-34 | D8-3V53     | PT7-30 | D8C120      | PT7-41 | D10B60      | PT7-39 | D12C300     | PT7-41 |
| D6-8V200    | PT7-34 | D8-3V56     | PT7-30 | D8C130      | PT7-41 | D10B62      | PT7-39 | D12C360     | PT7-41 |
| D6-8V212    | PT7-34 | D8-3V60     | PT7-30 | D8C140      | PT7-41 | D10B64      | PT7-39 | D12C440     | PT7-41 |
| D6-8V224    | PT7-34 | D8-3V65     | PT7-30 | D8C160      | PT7-41 | D10B66      | PT7-39 | D12C500     | PT7-41 |
| D6-8V248    | PT7-34 | D8-3V69     | PT7-30 | D8C180      | PT7-41 | D10B68      | PT7-39 | D12D120     | PT7-43 |
| D6-8V300    | PT7-34 | D8-3V80     | PT7-30 | D8C200      | PT7-41 | D10B70      | PT7-39 | D12D130     | PT7-43 |
| D6-8V355    | PT7-34 | D8-3V106    | PT7-30 | D8C240      | PT7-41 | D10B74      | PT7-39 | D12D135     | PT7-43 |
| D6-8V400    | PT7-34 | D8-3V140    | PT7-30 | D8C300      | PT7-41 | D10B86      | PT7-39 | D12D140     | PT7-43 |
| D6-8V445    | PT7-34 | D8-3V190    | PT7-30 | D8C360      | PT7-41 | D10B89      | PT7-39 | D12D145     | PT7-43 |
| D6-8V530    | PT7-34 | D8-3V250    | PT7-30 | D8C400      | PT7-41 | D10B110     | PT7-39 | D12D150     | PT7-43 |
| D6-8V630    | PT7-34 | D8-3V335    | PT7-30 | D8C460      | PT7-41 | D10B124     | PT7-39 | D12D155     | PT7-43 |
| D6-8V710    | PT7-34 | D8-3V475    | PT7-30 | D8D120      | PT7-43 | D10B136     | PT7-39 | D12D160     | PT7-43 |
| D6B34       | PT7-38 | D8-5V71     | PT7-33 | D8D130      | PT7-43 | D10B154     | PT7-39 | D12D170     | PT7-43 |
| D6B36       | PT7-38 | D8-5V75     | PT7-33 | D8D135      | PT7-43 | D10B160     | PT7-39 | D12D180     | PT7-43 |
| D6B38       | PT7-38 | D8-5V80     | PT7-33 | D8D140      | PT7-43 | D10B184     | PT7-39 | D12D200     | PT7-43 |
| D6B40       | PT7-38 | D8-5V85     | PT7-33 | D8D145      | PT7-43 | D10B200     | PT7-39 | D12D220     | PT7-43 |
| D6B42       | PT7-38 | D8-5V90     | PT7-33 | D8D150      | PT7-43 | D10B250     | PT7-39 | D12D270     | PT7-43 |
| D6B44       | PT7-38 | D8-5V103    | PT7-33 | D8D155      | PT7-43 | D10B300     | PT7-39 | D12D330     | PT7-43 |
| D6B46       | PT7-38 | D8-5V109    | PT7-33 | D8D160      | PT7-43 | D10B380     | PT7-39 | D12D400     | PT7-43 |
| D6B48       | PT7-38 | D8-5V113    | PT7-33 | D8D170      | PT7-43 | D10C85      | PT7-41 | D12D480     | PT7-43 |
| D6B50       | PT7-38 | D8-5V118    | PT7-33 | D8D180      | PT7-43 | D10C90      | PT7-41 | D12D580     | PT7-43 |
| D6B52       | PT7-38 | D8-5V125    | PT7-33 | D8D200      | PT7-43 | D10C95      | PT7-41 |             |        |
| D6B54       | PT7-38 | D8-5V132    | PT7-33 | D8D220      | PT7-43 | D10C100     | PT7-41 |             |        |
| D6B56       | PT7-38 | D8-5V140    | PT7-33 | D8D270      | PT7-43 | D10C105     | PT7-41 |             |        |
| D6B58       | PT7-38 | D8-5V150    | PT7-33 | D8D300      | PT7-43 | D10C110     | PT7-41 |             |        |
| D6B60       | PT7-38 | D8-5V160    | PT7-33 | D8D400      | PT7-43 | D10C120     | PT7-41 |             |        |
| D6B62       | PT7-38 | D8-5V187    | PT7-33 | D8D480      | PT7-43 | D10C130     | PT7-41 |             |        |
| D6B64       | PT7-38 | D8-5V212    | PT7-33 | D8D580      | PT7-43 | D10C140     | PT7-41 |             |        |
| D6B66       | PT7-38 | D8-5V236    | PT7-33 | D10-3V50    | PT7-30 | D10C160     | PT7-41 |             |        |
| D6B68       | PT7-38 | D8-5V280    | PT7-33 | D10-3V53    | PT7-30 | D10C180     | PT7-41 |             |        |
| D6B70       | PT7-38 | D8-5V315    | PT7-33 | D10-3V56    | PT7-30 | D10C200     | PT7-41 |             |        |
| D6B74       | PT7-38 | D8-5V375    | PT7-33 | D10-3V60    | PT7-30 | D10C240     | PT7-41 |             |        |
| D6B80       | PT7-38 | D8-5V500    | PT7-33 | D10-3V65    | PT7-30 | D10C300     | PT7-41 |             |        |
| D6B86       | PT7-38 | D8-5V925    | PT7-33 | D10-3V69    | PT7-30 | D10C360     | PT7-41 |             |        |
| D6B94       | PT7-38 | D8-5V975    | PT7-33 | D10-3V80    | PT7-30 | D10C440     | PT7-41 |             |        |
| D6B110      | PT7-38 | D8-8V125    | PT7-34 | D10-3V106   | PT7-30 | D10C500     | PT7-41 |             |        |
| D6B124      | PT7-38 | D8-8V132    | PT7-34 | D10-3V140   | PT7-30 | D10D120     | PT7-43 |             |        |
| D6B136      | PT7-38 | D8-8V140    | PT7-34 | D10-3V190   | PT7-30 | D10D130     | PT7-43 |             |        |
| D6B154      | PT7-38 | D8-8V150    | PT7-34 | D10-3V250   | PT7-30 | D10D135     | PT7-43 |             |        |
| D6B160      | PT7-38 | D8-8V160    | PT7-34 | D10-3V335   | PT7-30 | D10D140     | PT7-43 |             |        |
| D6B184      | PT7-38 | D8-8V170    | PT7-34 | D10-3V475   | PT7-30 | D10D145     | PT7-43 |             |        |
| D6B200      | PT7-38 | D8-8V180    | PT7-34 | D10-5V80    | PT7-33 | D10D150     | PT7-43 |             |        |
| D6B250      | PT7-38 | D8-8V190    | PT7-34 | D10-5V85    | PT7-33 | D10D155     | PT7-43 |             |        |
| D6B300      | PT7-38 | D8-8V200    | PT7-34 | D10-5V90    | PT7-33 | D10D160     | PT7-43 |             |        |
| D6B380      | PT7-38 | D8-8V212    | PT7-34 | D10-5V103   | PT7-33 | D10D170     | PT7-43 |             |        |
| D6C60       | PT7-41 | D8-8V224    | PT7-34 | D10-5V109   | PT7-33 | D10D180     | PT7-43 |             |        |
| D6C70       | PT7-41 | D8-8V248    | PT7-34 | D10-5V113   | PT7-33 | D10D200     | PT7-43 |             |        |
| D6C75       | PT7-41 | D8-8V300    | PT7-34 | D10-5V118   | PT7-33 | D10D220     | PT7-43 |             |        |
| D6C80       | PT7-41 | D8-8V355    | PT7-34 | D10-5V125   | PT7-33 | D10D270     | PT7-43 |             |        |
| D6C85       | PT7-41 | D8-8V400    | PT7-34 | D10-5V132   | PT7-33 | D10D330     | PT7-43 |             |        |
| D6C90       | PT7-41 | D8-8V445    | PT7-34 | D10-5V140   | PT7-33 | D10D400     | PT7-43 |             |        |
| D6C95       | PT7-41 | D8-8V530    | PT7-34 | D10-5V150   | PT7-33 | D10D480     | PT7-43 |             |        |
| D6C100      | PT7-41 | D8-8V630    | PT7-34 | D10-5V160   | PT7-33 | D10D580     | PT7-43 |             |        |
| D6C105      | PT7-41 | D8-8V710    | PT7-34 | D10-5V187   | PT7-33 | D12-8V125   | PT7-35 |             |        |
| D6C110      | PT7-41 | D8B54       | PT7-39 | D10-5V212   | PT7-33 | D12-8V132   | PT7-35 |             |        |
| D6C120      | PT7-41 | D8B56       | PT7-39 | D10-5V236   | PT7-33 | D12-8V140   | PT7-35 |             |        |
| D6C130      | PT7-41 | D8B58       | PT7-39 | D10-5V280   | PT7-33 | D12-8V150   | PT7-35 |             |        |
| D6C140      | PT7-41 | D8B60       | PT7-39 | D10-5V315   | PT7-33 | D12-8V160   | PT7-35 |             |        |
| D6C160      | PT7-41 | D8B62       | PT7-39 | D10-5V375   | PT7-33 | D12-8V170   | PT7-35 |             |        |
| D6C180      | PT7-41 | D8B64       | PT7-39 | D10-5V500   | PT7-33 | D12-8V180   | PT7-35 |             |        |
| D6C200      | PT7-41 | D8B66       | PT7-39 | D10-5V925   | PT7-33 | D12-8V190   | PT7-35 |             |        |
| D6C240      | PT7-41 | D8B68       | PT7-39 | D10-5V975   | PT7-33 | D12-8V200   | PT7-35 |             |        |
| D6C270      | PT7-41 | D8B70       | PT7-39 | D10-8V125   | PT7-35 | D12-8V212   | PT7-35 |             |        |
| D6C300      | PT7-41 | D8B74       | PT7-39 | D10-8V132   | PT7-35 | D12-8V224   | PT7-35 |             |        |
| D6C360      | PT7-41 | D8B80       | PT7-39 | D10-8V140   | PT7-35 | D12-8V248   | PT7-35 |             |        |
| D6C440      | PT7-41 | D8B86       | PT7-39 | D10-8V150   | PT7-35 | D12-8V300   | PT7-35 |             |        |

| <b>Numbers</b>  |                      |
|---|----------------------|
| <b>2AK Two Groove FHP Sheaves, FHP Drives</b>                   | PT8-4                |
| <b>2AKH H-Bushed Sheaves, FHP Drives</b>                        | PT8-7                |
| <b>2BK Two Groove FHP Sheaves, FHP Drives,</b>                  | PT8-6                |
| <b>2BKH H-Bushed Sheaves, FHP Drives</b>                        | PT8-8                |
| <b>8 degree Taper, TAPER-LOCK Bushings</b>                      | PT6-2                |
| <b>A</b>  |                      |
| <b>Abrasion resistant HT200/HTD Synchronous</b>                 | PT11-2               |
| <b>Acceleration</b>   | PT15-28              |
| <b>Adapters, TAPER-LOCK Bushings</b>                            | PT6-15               |
| <b>Adjustable Motor Bases</b>                                   |                      |
| 5614  | PT9-15               |
| 90 Series   | PT9-16               |
| Electric Remote Control   | PT9-16               |
| REEVES VARI-SPEED Drives  | PT9-15               |
| TEL-1   | PT9-15               |
| <b>AK One Groove FHP Sheaves, FHP Drives</b>                    | PT8-3                |
| AKH H-Bushed Sheaves, FHP Drives                                | PT8-7                |
| <b>Alignment</b>  |                      |
| DYNA-SYNC Drives  | PT10-45              |
| Sprockets   | PT13-46              |
| V-Drives  | PT7-124              |
| <b>Anti-seize</b>   |                      |
| QD Bushings   | PT6-16               |
| TAPER-LOCK Bushings   | PT6-2                |
| <b>Arc Correction, S-L Classic Drives</b>                       | PT7-87               |
| <b>Arc Correction Factors, Stock D-V Wedge Drives</b>           | PT7-45               |
| <b>B</b>  |                      |
| <b>Backlash</b>   |                      |
| DYNA-SYNC Drives  | PT10-2               |
| HT200/HTD Synchronous   | PT11-2               |
| <b>Balance, Made-to-Order Sheave</b>                            |                      |
| Special, Two-Plane (Dynamic)                                    | PT7-27               |
| Standard, Single Plane (Static)                                 | PT7-27               |
| <b>Balancing, DYNA-SYNC Drives</b>                              | PT10-44              |
| <b>Basic Horsepower Ratings</b>                                 |                      |
| Armide Cord Belt  | PT7-83               |
| D-V Wedge Drives  | PT7-78 thru PT7-83   |
| DYNA-SYNC Drives  | PT10-40 thru PT10-43 |
| S-L Classic Drives,   | PT7-116 thru PT7-122 |
| Sprockets   | PT13-32 thru PT13-39 |
| <b>Bearing Load Calculations</b>                                | PT13-21              |
| <b>Belt Correction Factors, S-L Classic Drives</b>              | PT7-87               |
| <b>Belt Deflection, DYNA-SYNC Drives</b>                        | PT10-45              |
| <b>Belt Length, FHP Drives</b>                                  | PT8-10               |
| <b>Belt Pitch Selection Guide, HT200/HTD Synchronous Drives</b> | PT11-22              |
| <b>BK One Groove FHP Sheaves, FHP Drives</b>                    | PT8-5                |
| <b>BKH H-Bushed Sheaves, FHP Drives</b>                         | PT8-8                |
| <b>Bore Size, Made-to-Order Sheave</b>                          | PT7-27               |
| <b>Bushings and Hubs</b>  | PT6-1                |
| <b>C</b>  |                      |
| <b>C-FLEX Module, FLEXIDYNE</b>                                 | PT3-14               |
| <b>Calculate Design Horsepower, FHP Drives</b>                  | PT8-10               |
| <b>Calculate Drive Ratio, FHP Drives</b>                        | PT8-10               |
| <b>Class of Service, Sprockets</b>                              | PT13-28              |
| <b>Center Distance</b>  |                      |
| Compound Pulley   | PT9-11               |
| Junior Pulleys  | PT9-6-PT9-8          |
| Senior Pulleys  | PT9-9-PT9-10         |
| Sprockets   | PT13-46              |
| <b>Center Distance Allowance, V-Drives</b>                      | PT7-125              |
| <b>Center Distance Tables, HT200/HTD Synchronous</b>            | PT11-41 thru PT11-58 |
| <b>Center Distance/Belt Length, FHP Drives</b>                  | PT8-14               |
| <b>Centrifugal Force</b>  | PT13-19              |
| <b>Chain Assembly, Sprockets</b>                                | PT13-42              |
| <b>Chain Length, Sprockets</b>                                  | PT13-28              |
| <b>Chain Pull, Sprockets</b>                                    | PT13-29              |
| <b>Chain Tension, Sprockets</b>                                 | PT13-46              |
| <b>Chordal action, HT200/HTD Synchronous</b>                    | PT11-3               |
| <b>Clamp Collar Mounting, REEVES VARI-SPEED Drives</b>          | PT9-3                |
| <b>Classic Cog, FHP Drives</b>                                  | PT8-2                |
| <b>Classic Cog V-Belts</b>                                      | PT7-38               |
| <b>Clean operation, HT200/HTD Synchronous</b>                   | PT11-3               |
| <b>Clutches and Brakes</b>                                      | PT2-1                |
| <b>Coefficients of Friction "f"</b>                             | PT15-38              |
| <b>Combined Torsion and Bending of Standard Shaft</b>           | PT15-18              |
| <b>Common Conversion Factors</b>                                | PT15-26              |
| <b>Compact, HT200/HTD Synchronous</b>                           | PT11-3               |
| <b>Compound Drives, Selection/Dimensions</b>                    | PT9-5                |
| <b>Compound Pulley, REEVES VARI-SPEED Drives</b>                | PT9-3                |
| <b>Computer Drive Selection, V-Drives</b>                       | PT7-123              |
| <b>Concentricity Tolerance, DYNA-SYNC Drives</b>                | PT10-44              |
| <b>Conventional Mounting, QD Bushings</b>                       | PT6-13               |
| <b>CONVEYOR COMPONENTS</b>                                      | PT14-1 thru PT14-80  |
| <b>Conveyor Belt FPM to RPM</b>                                 | PT13-24              |
| <b>Correction Factor, FHP Drives</b>                            | PT8-10               |
| <b>Corrosion resistant, HT200/HTD Synchronous</b>               | PT11-2               |
| <b>Countershaft</b>   |                      |
| Compound Pulley   | PT9-11               |
| REEVES VARI-SPEED Drives  | PT9-3                |
| <b>Couplings</b>  | PT1-1                |
| <b>Custom Construction, Custom Made Sheaves &amp; Sprockets</b> | PT7-26               |
| <b>D</b>  |                      |
| <b>Dead Shaft Pulleys</b>                                       | PT14-39              |
| <b>Densities of Common Materials, Approximate</b>               | PT15-31              |
| <b>Design Horsepower, Sprockets</b>                             | PT13-28              |
| <b>Design HP</b>  |                      |
| S-L Classic Drives  | PT7-84               |
| Stock D-V Wedge Drives  | PT7-42               |
| <b>Dimensions</b>   |                      |
| HT500 Sprockets   | PT12-14              |
| Conveyor Components   | PT14-16 thru PT14-43 |
| FHP Drives  | PT8-3 thru PT8-9     |
| FLEXIDYNE   | PT3-8 thru PT3-14    |
| Fluid Couplings   | PT4-4                |
| GRIP-TIGHT Bushings   | PT6-29               |
| Motor Brakes  | PT2-2                |
| QD Bushings   | PT6-17               |
| QD SHEAVES  | PT7-13 thru PT7-25   |
| REEVES VARI-SPEED Drives  | PT9-4 thru PT9-11    |
| TAPER-LOCK Bushing  | PT6-3                |
| TORQUE-TAMER  | PT5-4-6              |
| <b>DODGE Motor Bases</b>  | PT9-17 thru PT9-18   |
| Type A Slide  | PT9-17               |
| 100A  | PT9-17               |
| 200A  | PT9-17               |
| 300A  | PT9-17               |
| 50A   | PT9-17               |
| Type B Slide  | PT9-18               |
| 11B   | PT9-18               |
| 22B   | PT9-18               |
| 33B   | PT9-18               |
| 45B   | PT9-18               |
| <b>DODGE Software, HT200/HTD Synchronous</b>                    | PT11-73              |
| <b>Double-V, V-Belts</b>  | PT7-28               |
| <b>Drive Alignment, HT200/HTD Synchronous</b>                   | PT11-72              |
| <b>DRIVE COMPONENT ACCESSORIES</b>                              | PT9-1                |
| <b>Drive Selection, Sprockets</b>                               | PT13-16              |
| <b>Drive Ratio, Sprockets</b>                                   | PT13-28              |
| <b>Drive Tensioning, HT200/HTD Synchronous</b>                  | PT11-72              |
| <b>Drum and Wing Pulleys</b>                                    | PT14-11 thru PT14-15 |
| <b>Ductile Iron Discs, REEVES VARI-SPEED Drives</b>             | PT9-3                |
| <b>DYNA-SYNC DRIVES</b>   | PT10-1 thru PT10-43  |
| <b>E</b>  |                      |
| <b>Easy Selection</b>   |                      |
| Chain Coupling  | PT1-68               |
| Sprockets   | PT13-37              |
| <b>Easy Selection Table, Sprockets</b>                          | PT13-30 thru PT13-31 |
| <b>Efficiency, HT200/HTD Synchronous</b>                        | PT11-2               |
| <b>Elastomer Compatibility, Couplings</b>                       | PT1-67               |
| <b>Elastomeric Bushing, REEVES VARI-SPEED Drives</b>            | PT9-3                |
| <b>Electrical</b>   | PT13-32              |
| <b>Elevator Pulleys</b>   | PT14-39              |
| <b>Engineered Class Pulleys</b>                                 | PT14-37              |
| <b>Engineering Technical, Geometrical Relationships</b>         | PT13-15              |
| <b>ENGINEERING/TECHNICAL</b>                                    | PT15-1               |
| <b>Engineering/Technical</b>                                    |                      |
| Clutches and Brakes   | PT2-38               |
| Conveyor Components   | PT14-78              |
| Couplings   | PT1-83 thru PT1-89   |
| DYNA-SYNC Drives  | PT10-44              |
| FLEXIDYNE   | PT3-26               |

## E (continued)

|   |         |
|---|---------|
| HT200 Synchronous Drives                              | PT11-64 |
| HT500 Synchronous Drives                              | PT12-77 |
| Sprockets   | PT13-30 |
| V-Drives  | PT7-143 |
| <b>English Standard Measures</b>                      | PT15-23 |
| <b>Expansion of Shafting</b>                          | PT15-19 |
| <b>Extra-Value Features, REEVES VARI-SPEED Drives</b> | PT9-3   |

## F

|  |                     |
|--|---------------------|
| <b>Factors for Shafting Other than Standard Shafting</b> | PT15-17             |
| <b>Features/Benefits</b>                                 |                     |
| Chain Coupling   | PT1-65              |
| Clutch/Brake Modules                                     | PT2-11              |
| Conveyor Components                                      | PT14-2              |
| D-FLEX Coupling  | PT1-35 thru PT1-36  |
| DYNA-SYNC Belts  | PT10-2              |
| DYNA-SYNC Pulleys  | PT10-2              |
| FHP Drives   | PT8-2               |
| FLEXIDYNE  | PT3-2               |
| Fluid Couplings  | PT4-2               |
| Fractional HP Clutches & Brakes                          | PT2-24              |
| Gear Coupling  | PT1-48 thru PT1-52, |
| GRID-LIGN Coupling                                       | PT1-48 thru PT1-49  |
| GRIP-TIGHT Bushings                                      | PT6-28              |
| HT200 Synchronous Drive                                  | PT11-2              |
| HT500 Drives   | PT12-2              |
| Motor Brakes   | PT2-2               |
| PARA-FLEX Coupling                                       | PT1-2 thru PT1-3    |
| QD Bushings  | PT6-16              |
| QD Hubs  | PT6-26              |
| REEVES VARI-SPEED Drives                                 | PT9-2 thru PT9-4    |
| Shaft Mounted Clutches & Brakes                          | PT2-18              |
| Sheaves  | PT7-2               |
| Sprockets  | PT13-2              |
| TAPER-LOCK Bushings                                      | PT6-2               |
| TORQUE-TAMER   | PT5-2               |
| V-Belts  | PT7-45              |
| V-Drives   | PT7-2               |

|   |                     |
|---|---------------------|
| <b>FHP Belts</b>                                | PT7-41              |
| <b>FHP Drives</b>                               | PT8-1-PT8-22, PT8-2 |
| <b>Fiberglass, DYNA-SYNC Belts</b>              | PT10-2              |
| <b>Finish Bore Sheaves</b>                      | PT8-2               |
| <b>Fixed Pitch, FHP Drives</b>                  | PT8-2               |
| <b>Flanged, DYNA-SYNC Pulleys</b>               | PT10-2              |
| <b>Flat Face Pulleys</b>                        |                     |
| REEVES VARI-SPEED Drives                        | PT9-14              |
| TAPER-LOCK                                      | PT9-14              |
| Flat-Face Pulley, REEVES VARI-SPEED Drives,     | PT9-3               |
| <b>FLEXIDYNE</b>                                | PT3-1               |
| <b>FLUID COUPLING</b>                           | PT4-1               |
| <b>FLEXIDYNE Couplings, FLEXIDYNE</b>           | PT3-10              |
| <b>FLEXIDYNE Drives, FLEXIDYNE</b>              | PT3-8               |
| <b>FLEXIDYNE Flow Charge</b>                    | PT3-15              |
| <b>Flexlink Belting</b>                         | PT7-40              |
| <b>Flush Mounting, TAPER-LOCK Bushings</b>      | PT6-2               |
| <b>Flywheel Formulas</b>                        | PT15-33             |
| <b>Flywheel Sheave, Made-to-Order Sheave</b>    | PT7-27              |
| <b>Formulas &amp; Constants</b>                 | PT13-17             |
| <b>Fuse Plugs, Replacement, Fluid Couplings</b> | PT4-10              |

## G

|                                       |         |
|---------------------------------------|---------|
| <b>Gravitational Constant</b>         | PT15-31 |
| <b>Groove and Belt Gage, V-Drives</b> | PT7-123 |

## H

|                                       |                      |
|---------------------------------------|----------------------|
| <b>H-Bushed Sheaves</b>               |                      |
| Cast Iron                             | PT8-2                |
| Clamp Fit                             | PT8-2                |
| H-Style Bushing                       | PT8-2                |
| Integral Key                          | PT8-2                |
| Metric Bores                          | PT8-2                |
| QT and D Bushing                      | PT8-2                |
| Static Balance                        | PT8-2                |
| <b>Hardened Teeth, Sprockets</b>      | PT13-46              |
| <b>Hardness Comparison</b>            | PT15-38              |
| <b>HE Heavy Duty Drum Pulleys</b>     | PT14-16 thru PT14-17 |
| <b>HE Heavy Duty Wing Pulleys</b>     | PT14-24 thru PT14-25 |
| <b>Heavy Duty Drum Pulley Weights</b> | PT14-20 thru PT14-24 |

|                                       |                      |
|---------------------------------------|----------------------|
| <b>Heavy Duty Wing Pulley Weights</b> | PT14-28 thru PT14-32 |
|---------------------------------------|----------------------|

|  |                          |
|--|--------------------------|
| <b>Horsepower Rating</b>               |                          |
| HT100                                  | PT11-34 thru PT11-38     |
| HT200/HTD Synchronous Drives           | PT11-23 thru PT11-32     |
| HTD,                                   | PT11-33,PT11-39, PT11-40 |
| Horsepower Ratings, FHP Drives         | PT8-10 thru PT8-11       |
| Horsepower Required for Belt Conveyors | PT13-23                  |

|                                 |        |
|---------------------------------|--------|
| <b>How To Order</b>             |        |
| Chain Coupling                  | PT1-72 |
| Clutch/Brake Modules            | PT2-12 |
| Conveyor Components             | PT14-6 |
| D-FLEX Coupling                 | PT1-37 |
| FLEXIDYNE                       | PT3-3  |
| Fluid Couplings                 | PT4-5  |
| Fractional HP Clutches & Brakes | PT2-25 |
| GRID-LIGN Coupling              | PT1-50 |
| Made-to-Order Sheave            | PT7-27 |
| Motor Brakes                    | PT2-3  |
| PARA-FLEX Coupling              | PT1-4  |
| POLY-DISC Coupling              | PT1-63 |
| Pulley Assemblies               | PT14-8 |
| RIGID Coupling                  | PT1-63 |
| Shaft Mounted Clutches & Brakes | PT2-19 |
| TORQUE-TAMER                    | PT5-3  |

|                                    |                     |
|------------------------------------|---------------------|
| <b>HT200/HTD Synchronous Belts</b> | PT11-1 thru PT11-61 |
|------------------------------------|---------------------|

|                                      |         |
|--------------------------------------|---------|
| <b>HT500 Synchronous Belt Drives</b> |         |
| HT500 TAPER-LOCK Sprockets           | PT12-6  |
| HT500 MPB Sprockets                  | PT12-12 |
| HT500 ACHE Sprockets                 | PT12-14 |
| HT500 Idler Sprockets                | PT12-16 |
| HT500 Belts                          | PT12-17 |

|   |                      |
|---|----------------------|
| <b>HT Specification, QD HTD Sprockets</b> | PT11-10 thru PT11-16 |
|---|----------------------|

|                                |                    |
|--------------------------------|--------------------|
| <b>HT TAPER-LOCK Sprockets</b> | PT11-4 thru PT11-8 |
|--------------------------------|--------------------|

|  |        |
|--|--------|
| <b>Hub Diameter, TAPER-LOCK Bushings</b> | PT6-26 |
|--|--------|

|   |        |
|---|--------|
| <b>Hub Location, Made-to-Order Sheave</b> | PT7-27 |
|---|--------|

|   |        |
|---|--------|
| <b>Hub Locations, Custom Made Sheaves &amp; Sprockets</b> | PT7-26 |
|---|--------|

|                          |        |
|--------------------------|--------|
| <b>Hubs, QD Bushings</b> | PT6-26 |
|--------------------------|--------|

## I

|                                   |         |
|-----------------------------------|---------|
| <b>Idler Brackets, Sprockets</b>  | PT13-40 |
| <b>Idler Bushings, Sprockets</b>  | PT13-40 |
| <b>Idler Sprockets, Sprockets</b> | PT13-41 |
| <b>Idlers, DYNA-SYNC Drives</b>   | PT10-45 |
| <b>IEC Quick Reference Chart</b>  | PT15-41 |

|                                 |                      |
|---------------------------------|----------------------|
| <b>Installation</b>             |                      |
| HT/HTD Drives                   | PT11-71              |
| Sprockets                       | PT13-33              |
| Installing, DYNA-SYNC Drives    | PT10-45              |
| Installing/Tensioning, V-Drives | PT7-124 thru PT7-126 |

|  |       |
|--|-------|
| <b>Integral Key, TAPER-LOCK Bushings</b> | PT6-2 |
|--|-------|

|                            |        |
|----------------------------|--------|
| <b>ISO</b>                 |        |
| QD Bushings                | PT6-23 |
| TAPER-LOCK Bushings        | PT6-12 |
| ISO9000, DYNA-SYNC Pulleys | PT10-2 |

## J

|  |       |
|--|-------|
| <b>Jackscrews, TAPER-LOCK Bushings</b> | PT6-2 |
|--|-------|

|  |       |
|--|-------|
| <b>Junior Pulley, REEVES VARI-SPEED Drives</b> | PT9-2 |
|--|-------|

|                       |             |
|-----------------------|-------------|
| <b>Junior Pulleys</b> |             |
| FHP or Dual-Duty      | PT9-6-PT9-8 |
| Ratings               | PT9-4       |
| S-L Classic           | PT9-6-PT9-8 |
| Selection/Dimensions  | PT9-4       |

## K

|                                   |         |
|-----------------------------------|---------|
| <b>Keywords, DYNA-SYNC Drives</b> | PT10-44 |
|-----------------------------------|---------|

## L

|  |        |
|--|--------|
| <b>Length Correction Factors, Stock D-V Wedge Drives</b> | PT7-45 |
|--|--------|

|  |       |
|--|-------|
| <b>Light Duty V-Drives, FHP Drives</b> | PT8-2 |
|--|-------|

|                                 |        |
|---------------------------------|--------|
| <b>Lockwashers, QD Bushings</b> | PT6-16 |
|---------------------------------|--------|

|   |        |
|---|--------|
| <b>Long life, HT200/HTD Synchronous</b> | PT11-2 |
|---|--------|

|   |        |
|---|--------|
| <b>Low maintenance, HT200/HTD Synchronous</b> | PT11-2 |
|---|--------|

|                     |        |
|---------------------|--------|
| <b>Lubricants</b>   |        |
| QD Bushings         | PT6-16 |
| TAPER-LOCK Bushings | PT6-2  |

|                    |         |
|--------------------|---------|
| <b>Lubrication</b> |         |
| Bath, Sprockets    | PT13-46 |
| Drip, Sprockets    | PT13-46 |

## L (continued)

|  |                      |
|--|----------------------|
| DYNA-SYNC Drives                                       | PT10-2               |
| HT200/HTD Synchronous                                  | PT11-2               |
| Manual, Sprockets                                      | PT13-46              |
| Sprockets  | PT13-46              |
| <b>M</b>   |                      |
| <b>Made To Order Sheaves, FLEXIDYNE</b>                | PT3-18               |
| <b>Material, Made-to-Order Sheave</b>                  |                      |
| Class 65 Ductile Iron                                  | PT7-27               |
| Class 80 Ductile Iron                                  | PT7-27               |
| Gray Iron  | PT7-27               |
| <b>Material Characteristics</b>                        | PT15-12              |
| <b>Materials, Custom Made Sheaves &amp; Sprockets,</b> | PT7-26               |
| Dynamic (two-plane) Balance                            | PT7-26               |
| Gray Iron, Ductile Iron, Steel                         | PT7-26               |
| Measuring Gage, V-Drives                               | PT7-123              |
| Metric, QD Bushings                                    | PT6-18               |
| <b>Mathematical Equations</b>                          | PT15-34              |
| <b>Metric Bore, QD Bushings</b>                        | PT6-24               |
| <b>Metric Bore, TAPER-LOCK Bushings</b>                | PT6-12               |
| <b>Metric Standard Measurement &amp; Conversion,</b>   | PT13-12              |
| <b>Metric System of Measurements</b>                   | PT15-25              |
| <b>Mine Duty Wing &amp; Spiral Wing Pulleys</b>        | PT14-36              |
| <b>Mine Duty X-TRA Drum Pulleys</b>                    | PT14-32 thru PT14-36 |
| <b>Modifications/Accessories</b>                       |                      |
| Conveyor Components                                    | PT14-65              |
| Couplings  | PT1-81 thru PT1-82   |
| FLEXIDYNE  | PT3-15               |
| Molded Cog, D-V Wedge Narrow Belts                     | PT7-29               |
| Motor Brakes   | PT2-10               |
| Power Supplies, Clutches and Brakes                    | PT2-36               |
| <b>Mounting</b>  |                      |
| Custom Made Sheaves & Sprockets                        | PT7-26               |
| Bored-To-Size  | PT7-26               |
| Taper Bore   | PT7-26               |
| Taper Bushed   | PT7-26               |
| Made-to-Order Sheave                                   | PT7-27               |
| Sprockets  | PT13-2               |
| TAPER-LOCK Bushings                                    | PT6-2                |
| <b>Mounted Bearings Life Adjustment Factor</b>         | PT15-8               |
| <b>MPTA/RMA</b>  |                      |
| Classic Cog V-Belts                                    | PT7-38               |
| D-V Wedge Narrow Belts                                 | PT7-29               |
| S-L Classic Belts                                      | PT7-33               |
| <b>Multiple Strand, Sprockets</b>                      | PT13-29              |
| <b>N</b>   |                      |
| <b>NEMA</b>  |                      |
| <b>S-L Classic Drives</b>                              | PT7-85               |
| <b>Stock D-V Wedge Drives</b>                          | PT7-43               |
| <b>NEMA Quick Reference Chart</b>                      | PT15-40              |
| <b>Neoprene, DYNA-SYNC Belts</b>                       | PT10-2               |
| <b>Nomenclature</b>                                    |                      |
| Chain Coupling   | PT1-72               |
| Clutch/Brake Modules                                   | PT2-12               |
| Conveyor Components                                    | PT14-8               |
| D-FLEX Coupling  | PT1-37               |
| DYNA-SYNC Pulleys                                      | PT10-44              |
| FLEXIDYNE  | PT3-3                |
| Fluid Couplings  | PT4-3                |
| Fractional HP Clutches & Brakes                        | PT2-25               |
| GRID-LIGN Coupling                                     | PT1-51               |
| Motor Brakes   | PT2-3                |
| PARA-FLEX Coupling                                     | PT1-5                |
| POLY-DISC Coupling                                     | PT1-63               |
| Pulleys  | PT14-7               |
| RIGID Coupling   | PT1-63               |
| Shaft Mounted Clutches & Brakes                        | PT2-19               |
| TORQUE-TAMER   | PT5-3                |
| <b>Nominal V-Belt Cross Sections</b>                   | PT15-11              |
| <b>O</b>   |                      |
| <b>Oil Viscosity Classification</b>                    | PT13-31              |
| <b>Overhung Load</b>                                   |                      |
| Engineering  | PT15-34              |
| HT200/HTD Synchronous                                  | PT11-70              |

## P

|  |         |
|--|---------|
| <b>PH FLEXIDYNE Couplings</b>                          | PT3-12  |
| <b>Pin Extractors (Chain Breaker), Sprockets</b>       | PT13-42 |
| <b>Plain Bore, DYNA-SYNC Pulleys</b>                   | PT10-8  |
| <b>POLYBAND, V-Belts</b>                               | PT7-28  |
| <b>Positive, non-slip drive, HT200/HTD Synchronous</b> | PT11-2  |
| <b>Pressure, Engineering</b>                           | PT15-29 |
| <b>Properties of Sections</b>                          | PT15-37 |

## Q

|   |                      |
|---|----------------------|
| <b>QD Bushings</b>                                  | PT6-16               |
| <b>QD Combination Duty, Variable Pitch Sheaves,</b> | PT8-2                |
| <b>QD HTD Sprocket</b>                              | PT11-10 thru PT11-16 |
| <b>QD Heavy Duty Drum Pulleys</b>                   | PT14-19 thru PT14-20 |
| <b>QD Heavy Duty Wing Pulleys</b>                   | PT14-27 thru PT14-28 |
| <b>Quieter Operation, HT200/HTD Synchronous</b>     | PT11-2               |

## R

|  |                     |
|--|---------------------|
| <b>Ratio, FHP Drives</b>                         | PT8-12 thru PT8-13  |
| <b>Reborable</b>                                 |                     |
| QD Bushings                                      | PT6-23              |
| TAPER-LOCK Bushings                              | PT6-11              |
| <b>Rebore, DYNA-SYNC Drives</b>                  | PT10-44             |
| <b>Recommended Maximum Conveyor Belt Speeds,</b> | PT13-24             |
| <b>REEVES VARI-SPEED DRIVES</b>                  | PT9-1-PT9-18        |
| <b>Related Products</b>                          |                     |
| Conveyor Components                              | PT14-70             |
| Sprockets  | PT13-28             |
| V-Drives   | PT7-141             |
| <b>Reverse Mounting, QD Bushings</b>             | PT6-16              |
| <b>RMA/MPTA</b>                                  | PT7-2               |
| <b>ROLLER CHAIN SPROCKETS</b>                    | PT13-1 thru PT13-46 |
| <b>Run-Out Tolerance, DYNA-SYNC Drives</b>       | PT10-44             |

## S

|   |                    |
|---|--------------------|
| <b>S-L Classic, FHP Drives</b>          | PT8-2              |
| <b>Sawsplit, TAPER-LOCK Bushings</b>    | PT6-11             |
| <b>Sawsplit, QD Bushings</b>            | PT6-24             |
| <b>Selection</b>                        |                    |
| Conveyor Components                     | PT14-9             |
| Custom Made Sheaves & Sprockets         | PT7-44             |
| DYNA-SYNC Drives                        | PT10-14            |
| FHP Fixed Speed Drives                  | PT8-10             |
| FLEXIDYNE                               | PT3-4              |
| Fluid Couplings                         | PT4-3              |
| Fractional HP Clutches & Brakes         | PT2-26             |
| HE Pulleys, Conveyor Components         | PT14-16            |
| HT100 Belts                             | PT11-27            |
| HT200/HTD Synchronous Drives            | PT11-19            |
| HT200 Belt Drive Selection Tables       | PT11-35            |
| HT500 Synchronous Belt Drives           | PT12-19            |
| QD SHEAVES                              | PT7-13 thru PT7-25 |
| REEVES VARI-SPEED Drives                | PT9-4 thru PT9-11  |
| S-L Classic Drives                      | PT7-106            |
| Sprockets                               | PT13-16            |
| Stock Classical Drives                  | PT7-102            |
| Stock Drives                            | PT10-18            |
| Stock D-V Wedge Drives                  | PT7-60             |
| V-Belts                                 | PT7-46             |
| <b>Selection Methods, Couplings</b>     | PT1-83             |
| <b>Selection/Dimensions</b>             |                    |
| Chain Coupling                          | PT1-69 thru PT1-71 |
| Clutch/Brake Modules                    | PT2-13             |
| Clutches and Brakes                     | PT2-30             |
| Conveyor Components                     | PT14-15            |
| D-FLEX Coupling                         | PT1-38 thru PT1-47 |
| FHP Sheaves                             | PT8-3              |
| FLEXIDYNE                               | PT3-8              |
| Fluid Couplings                         | PT4-4              |
| GRID-LIGN Coupling                      | PT1-52 thru PT1-59 |
| Motor Brakes                            | PT2-4              |
| PARA-FLEX Coupling                      | PT1-6 thru PT1-9   |
| POLY-DISC Coupling                      | PT1-73             |
| QT-Bushed Sheaves                       | PT8-7              |
| RIGID Coupling                          | PT1-74 thru PT1-75 |
| Senior Pulley, REEVES VARI-SPEED Drives | PT9-3              |
| Sheaves                                 | PT7-4              |
| TAPER-LOCK Pulleys, Conveyor Components | PT14-22            |
| TORQUE-TAMER                            | PT5-4              |
| Variable Pitch Sheaves                  | PT8-9              |

# KEYWORD INDEX

## S (continued)

|   |                      |
|---|----------------------|
| <b>Selection of Shaft Diameters</b>                 | PT15-15              |
| <b>Senior Pulleys</b>                               |                      |
| Ratings   | PT9-4                |
| Selection/Dimensions                                | PT9-4                |
| Series Wide Range                                   | PT9-9 thru PT9-10    |
| Wide Flat-Face                                      | PT9-9 thru PT9-10    |
| <b>Serpentine Drives, DYNA-SYNC Belts</b>           | PT10-11              |
| <b>Service Factor</b>                               |                      |
| Couplings   | PT1-68 thru PT1-69   |
| DYNA-SYNC Drives                                    | PT10-16              |
| HT200/HTD Synchronous Drives                        | PT11-21              |
| S-L Classic Drives                                  | PT7-85               |
| Sprockets   | PT13-28              |
| Stock D-V Wedge Drives                              | PT7-43               |
| TAPER-LOCK Bushings                                 | PT6-4                |
| <b>Shaft Keyseats/Hub Keyways</b>                   | PT13-7               |
| <b>Shafting/Shaft Diameters</b>                     | PT15-14              |
| <b>Sheaves</b>                                      |                      |
| Balance   | PT7-2                |
| Construction  | PT7-2                |
| Arm   | PT7-2                |
| Block   | PT7-2                |
| Web   | PT7-2                |
| Shock Loads, V-Belts                                | PT7-28               |
| Specialty Pulleys                                   | PT14-39              |
| <b>Specification</b>                                |                      |
| Chain Coupling                                      | PT1-50 thru PT1-55   |
| Clutch/Brake Modules                                | PT2-12               |
| Conveyor Components                                 | PT14-4               |
| D-FLEX Coupling                                     | PT1-4                |
| DYNA-SYNC Belts                                     | PT10-11              |
| DYNA-SYNC Drives                                    | PT10-3               |
| DYNA-SYNC Pulleys                                   | PT10-3               |
| FLEXIDYNE   | PT3-3                |
| Fractional HP Clutches & Brakes                     | PT2-25               |
| GRID-LIGN Coupling                                  | PT1-40               |
| GRIP-TIGHT Bushings                                 | PT6-39               |
| HT Sprockets  | PT11-9               |
| HT TAPER-LOCK Sprockets                             | PT11-4               |
| HT100 Belts   | PT11-19              |
| HT200 Belts   | PT11-17              |
| HT500 Belts   | PT12-17              |
| HT200/HTD Synchronous Belts                         | PT11-17 thru PT11-18 |
| HT500 Sprockets                                     | PT12-6               |
| Idler Brackets and Bushings                         | PT6-30               |
| Motor Brakes  | PT2-3                |
| PARA-FLEX Coupling                                  | PT1-16               |
| POLY-DISC Coupling                                  | PT1-60               |
| QD Bushings   | PT6-17               |
| QD HTD Sprockets                                    | PT11-10              |
| Metric Series                                       | PT6-24               |
| RIGID Coupling                                      | PT1-60               |
| Shaft Mounted Clutches & Brakes                     | PT2-19               |
| Sprockets   | PT13-3               |
| TAPER-LOCK Bushings                                 | PT6-3                |
| TORQUE-TAMER  | PT5-3                |
| <b>Speed Drop Cutout, FLEXIDYNE</b>                 | PT3-18               |
| <b>Speed-Up Drives, DYNA-SYNC Drives</b>            | PT10-17              |
| <b>Speed-up Drives</b>                              |                      |
| S-L Classic Drives                                  | PT7-86               |
| Stock D-V Wedge Drives                              | PT7-44               |
| <b>Sprocket Dimension, Chain Data</b>               | PT13-32              |
| <b>Steel, TAPER-LOCK Bushings</b>                   | PT6-5                |
| <b>Steel Split Pulleys</b>                          | PT14-40              |
| <b>Stock Sheaves, FLEXIDYNE</b>                     | PT3-16               |
| <b>Stock Sizes</b>                                  |                      |
| QD Bushings   | PT6-18               |
| TAPER-LOCK Bushings                                 | PT6-5                |
| <b>Strength &amp; Physical Properties of Metals</b> | PT15-35              |
| <b>Super Pulleys</b>                                | PT14-38              |

## T

|   |                      |
|---|----------------------|
| <b>Take-up Allowances, V-Drives</b>       | PT7-124              |
| <b>TAPER-LOCK Bushings</b>                | PT6-2                |
| <b>TAPER-LOCK Heavy Duty Drum Pulleys</b> | PT14-18 thru PT14-19 |
| <b>TAPER-LOCK Heavy Duty Wing Pulleys</b> | PT14-26 thru PT14-27 |
| <b>TAPER-LOCK HT Sprockets</b>            | PT13-4 thru PT13-8   |
| <b>Tensile Cords, V-Belts</b>             | PT7-28               |

|   |         |
|---|---------|
| <b>Tensile cords, HT200/HTD Synchronous</b>               | PT11-2  |
| <b>Tension Tester, V-Drives</b>                           | PT7-123 |
| <b>Tensioner, Sprockets</b>                               | PT13-41 |
| <b>Tensioning, DYNA-SYNC Drives</b>                       | PT10-45 |
| <b>Tensioning a Drive, V-Drives</b>                       | PT7-125 |
| <b>Thermal Capacities, FLEXIDYNE</b>                      | PT3-26  |
| <b>Thru-Bore Driven Pulleys, REEVES VARI-SPEED Drives</b> | PT9-5   |
| <b>Timing, DYNA-SYNC Drives</b>                           | PT10-2  |
| <b>Torque &amp; Horsepower Equivalents</b>                | PT15-34 |
| <b>TORQUE TAMER</b>                                       | PT5-1-6 |
| <b>Trigonometric Formula</b>                              | PT15-39 |
| <b>Troubleshooting, V-Drives</b>                          | PT7-128 |
| Belt Noise  | PT7-128 |
| Belt Stretch  | PT7-128 |
| Belt Turn Over  | PT7-128 |
| Hot Bearings  | PT7-128 |
| Short Belt Life   | PT7-128 |

## U

|  |         |
|--|---------|
| <b>U.S. Standard Sheet Metal Gages</b> | PT13-29 |
|--|---------|

## V

|  |                    |
|--|--------------------|
| <b>V-Belts Drives for 11D, 11DL FLEXIDYNE Drives, FLEXIDYNE</b>      | PT3-17             |
| <b>V-Belts Drives for 15D FLEXIDYNE Drives, FLEXIDYNE</b>            | PT3-17             |
| <b>V-Belts Drives for 55D FLEXIDYNE Drives, FLEXIDYNE</b>            | PT3-16             |
| <b>V-Belts Drives for 5D FLEXIDYNE Drives, FLEXIDYNE</b>             | PT3-16             |
| <b>V-Belts Drives for 70D FLEXIDYNE Drives, FLEXIDYNE</b>            | PT3-16             |
| <b>V-Belts Drives for 75D FLEXIDYNE Drives, FLEXIDYNE</b>            | PT3-17             |
| <b>V-Belts Drives for 9D FLEXIDYNE Drives, FLEXIDYNE</b>             | PT3-17             |
| <b>V-Belt Drive Formulas</b>   | PT15-10            |
| <b>V-Belts Sheave Groove Dimensions</b>                              | PT13-22            |
| V-Drives   | PT7-127            |
| <b>V-Belts</b>   |                    |
| Classic Cog/AX, BX, CX, DX   | PT7-28             |
| D-V Wedge/3VX, 5VX, 8V   | PT7-28             |
| S-L Classic/A, B, C, D, E  | PT7-28             |
| <b>V-Drives</b>  |                    |
| Selection  | PT7-1 thru PT7-126 |
| Belt Correction Factors, Length Correction                           | PT7-87             |
| Idler/Bracket and Bushings   | PT7-122            |
| <b>Variable Pitch, FHP Drives</b>                                    | PT8-2              |
| <b>Variable Pitch Selection Procedure, FHP Drives</b>                | PT8-15             |
| <b>Variable Pitch Selection Table, FHP Drives</b>                    | PT8-16             |
| <b>Variable Pitch Sheaves</b>  | PT8-2              |
| Taper-Lock Dual Duty   | PT8-2              |
| <b>Velocity, DYNA-SYNC Drives</b>                                    | PT10-2             |
| <b>Velocity</b>  | PT15-28            |
| <b>VIA-VISA Software, V-Drives</b>                                   | PT7-123            |
| <b>Via-Visa Software</b>   | PT7-2              |
| <b>Vibration Frequencies of Dodge Anti-Friction Mounted Bearings</b> | PT15-2             |
| <b>Viscosity Classification Equivalents</b>                          | PT15-22            |
| <b>Volumetric Flow Rates</b>   | PT15-29            |
| <b>VP Sheaves, FHP Drives</b>  | PT8-9              |

## W

|   |                           |
|---|---------------------------|
| <b>Weight, Mass, Inertia</b>                          | PT15-29                   |
| <b>Weights and Properties of Steel Shafting</b>       | PT15-20                   |
| <b>Weld-on Hubs, TAPER-LOCK Bushings</b>              | PT6-13                    |
| <b>Weld-On Hubs for Conveyor Pulleys, QD Bushings</b> | PT6-23                    |
| <b>Welding, TAPER-LOCK Bushings</b>                   | PT6-10                    |
| <b>Wide Range Belts, REEVES VARI-SPEED Drives</b>     | PT9-3, PT9-12 thru PT9-14 |
| REEVES-Lewellen Belts                                 | PT9-12                    |
| <b>Working Tension, DYNA-SYNC Drives</b>              | PT10-45                   |

For Additional information and DODGE Product Manuals on  
DODGE Bearing Products, DODGE Gearing Products or DODGE  
PT Components:

- > contact your local authorized DODGE Distributor
- > contact us at **864.297.4800**
- > visit us on the web at [www.baldor.com](http://www.baldor.com)







---

**Baldor Electric Company**

P.O. Box 2400, Fort Smith, AR 72902-2400 U.S.A., Ph: (1) 479.646.4711, Fax (1) 479.648.5792, International Fax (1) 479.648.5895

**Baldor - Dodge**

6040 Ponders Court, Greenville, SC 29615-4617 U.S.A., Ph: (1) 864.297.4800, Fax: (1) 864.281.2433

**[www.baldor.com](http://www.baldor.com)**