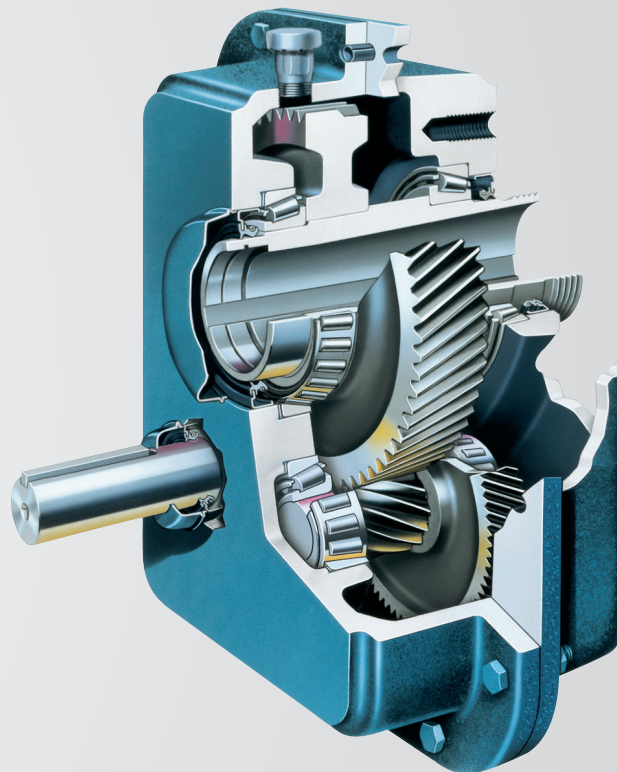


# Falk Quadrive Shaft Mounted Drive

## Interchange and Nomenclature Guide



## FALK® QUADRIVE®

### Easiest On, Easiest Off...Guaranteed

It's a simple fact. The heavy duty, shaft-mounted Falk Quadrive features a completely unique design that makes it the easiest, quickest shaft-mounted drive to install and remove.

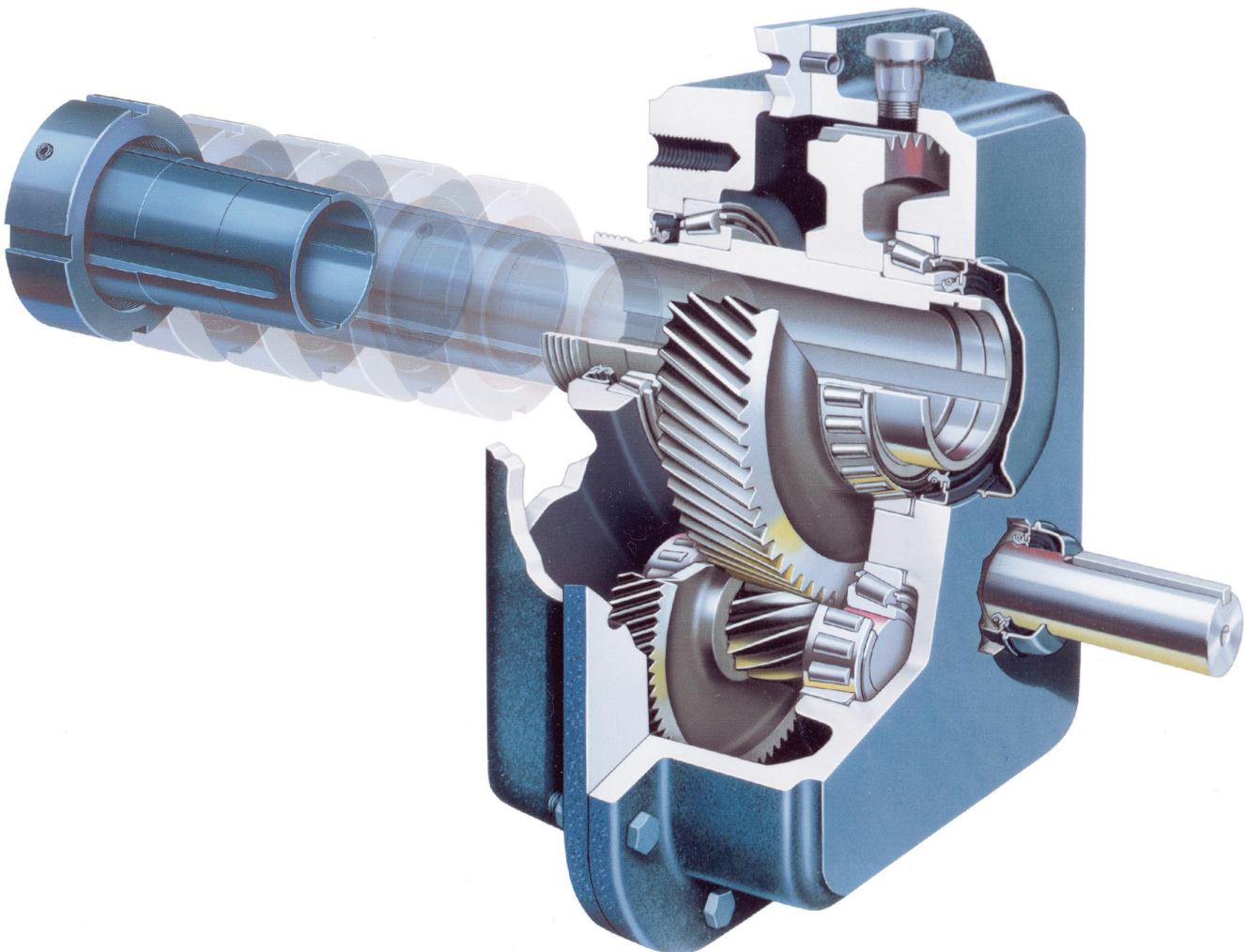
Quadrive is built to stand up to continuous rough duty. And now, with new higher ratings, you may be able to downsize the drive, saving money right up front. The Falk TA Taper Bushing design makes sure that drive removal is not only simple, but don't damage the drive, or driven equipment.

You don't need extra time. You don't need extra tools. And you're assured safe, worry-free operation.

In a game where there are so few sure things, Falk Quadrive is the right shot to take.

#### **Lifetime Removal Guarantee**

Due to the unique properties of the TA Taper Bushing, Quadrive is guaranteed to come off the shaft, regardless of length of service or operation conditions, or we'll replace it FREE. That's a promise no other shaft-mounted drive can make.



# Interchange Guide 371-810, March 2006

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HEAVY DUTY WARRANTY

**Factory Warranty** We're so confident in the performance and reliability of these Falk gear drives that we're backing this comprehensive offering with the best standard warranty in the business. Our full, 3-year Heavy-Duty Warranty provides "shaft-to-shaft" protection on all Falk components – including bearings and seals. It's an industry first... and one more powerful reason why Rexnord is your ultimate bottom-line value. ★

★ Warranty extends for 3 years from date of shipment.

## Introduction

### How to Make an Interchange

**Example 1:** Your customer wants to replace a Dodge TXT 425 with a taper bushed design. However, the available driven shaft length (2 7/16" diameter) is only 6 1/2". Select a Falk Quadrive replacement drive.

**Step 1** — From Page 7, Table 1, a Size 5207J with a 25:1 nominal ratio is the correct interchange for a Dodge Size 4.

**Step 2** — For a Size 5207JR shaft mounted drive a 2 7/16" TA Taper bushing requires a minimum 6.11 inch driven shaft length. Your customer will require a new sheave or sheave bushing (1.5" diameter vs. 1.437" diameter high speed shaft) and may need to adjust the motor and tie rod position.

**Step 3** — Components Required:

|                                 |            |
|---------------------------------|------------|
| 5207J25A Basic Drive . . . . .  | PN 0794381 |
| BU4207J Bushing 2.438 . . . . . | PN 0769105 |
| TR4207J Tie Rod . . . . .       | PN 0738515 |

Optional Accessories (which can be factory installed):

|                                 |            |
|---------------------------------|------------|
| BS4207J25 Backstop . . . . .    | PN 0738517 |
| MM4207J-1 Motor Mount . . . . . | PN 0738718 |
| Belt Guard . . . . .            | PN 0783738 |

# Features & Benefits

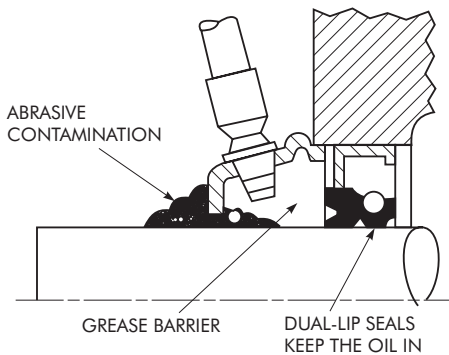
Quadrive is the fifth generation of heavy duty shaft mounted drives from Falk. Built for exceptional value, the Quadrive benefits from the latest in manufacturing and design technology.

**The Economic Advantage** Cellular manufacturing and modular components result in low drive costs. And the TA Taper bushing design means a simple, cost-effective installation.

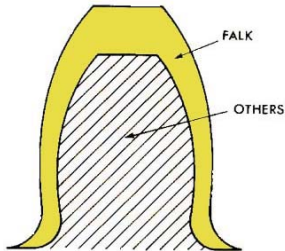
**Honest Warranty** A three year heavy duty warranty which includes all bearings and seals — the best in the industry!

**Standard Bearings & Viton Seals** with published manufacturers' numbers are available locally to minimize replacement downtime.

**Severe-Duty Grease Purged Seals** on high speed shafts prevent leakage and subsequent drive failure. A grease barrier traps abrasive contaminants before they can groove the shaft or enter the gear drive.



**Traditional Long Life Gearing** Falk's high hardness, surface finished, helical design features large teeth and wider face for maximum load carrying capacity.



## "Torque Assist" TA Taper Bushing

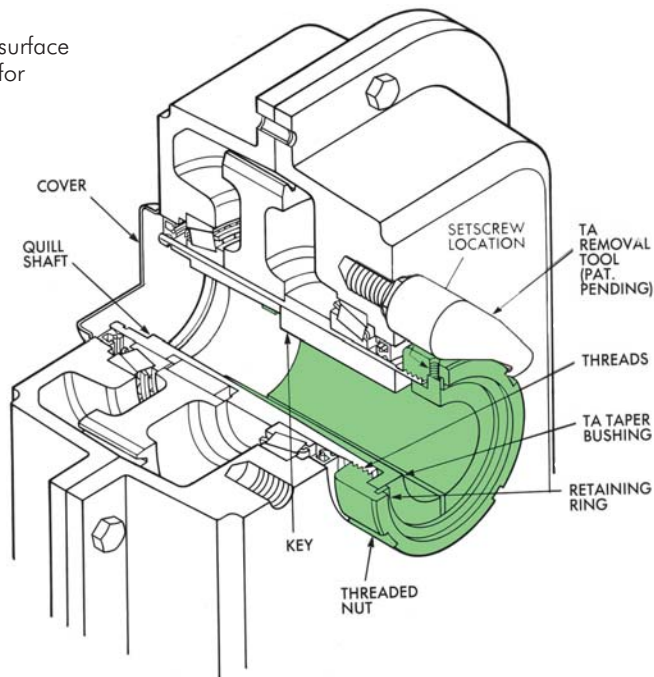
- Unique torque assist design provides easiest removal. Fast installation too!
- Eliminates binding common to twin-taper and single-flanged bushings.
- Concentric operation minimizes wobble even on worn shafts.
- Quill cover keeps out contaminants and protects outboard low speed shaft seal.
- Minimal shaft engagement requirement allows for easy retrofits.
- Inboard bushing location saves high speed bearings by minimizing sheave overhang.

## Easiest On . . .

To Install, simply place the TA Taper bushing assembly onto the driven shaft. Slide the drive onto the bushing and tighten the threaded nut and setscrew. Falk's TA Taper design provides a uniform draw onto the taper with less difficulty than twin-taper or single-flanged bushings.

## . . . And Easiest Off!

To remove, loosen the bushing setscrew, back off the bushing nut and the drive dismounts. It's that easy . . . only with Falk! In fact, Falk's Quadrive is guaranteed to come off the shaft, regardless of length of service or operating conditions, or WE'LL REPLACE IT FOR FREE!





Not all shaft mounted drives are created equal; when it comes down to ruggedness, life expectancy, cost, and accessories... Falk is the industry leader. Couple these features with the TA Bushing system and you have a real winner! But the really big difference is how they mount to your headshaft.

### Compare Mounting Benefits:

Falk's simple, yet highly effective, single tapered bushing, mounted on the output side of the drive with the others you have been using or are considering.

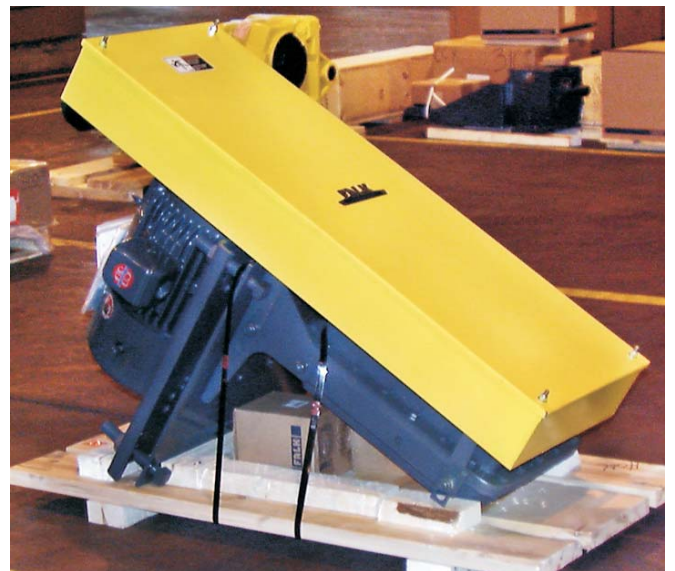
- **NO** cap screws to tighten, lose, torque, corrode in place, or break off when trying to remove them.
- **NO** numerous snap rings, "stabilizer" sleeves or bronze bushings to install, lose, or break.
- **NO** worries about having enough head shaft extension, since only the length of the Falk TA Taper Bushing needs to be engaged.
- **NO** special tools are required to install or remove your Quadrive. Readily available pipe and spanner wrenches are already in your tool room. You don't even need a torque wrench!
- **NO** large mounting distances from your head shaft bearings are required. Since there are no axial cap screws to tighten, the Falk Quadrive can be positioned right next to the headshaft bearing, reducing overhung loads.
- **NO** additional "lifts" will be required when installing; Falk's Quadrive is unique, in that you can install your sheaves, belts, motor mount, motor and belt guard before installing the drive. This will allow you to complete the whole installation with one lift to the headshaft. Your installer only needs to take the TA Taper Bushing, key and a pipe or spanner wrench up to install the drive. (Your maintenance people will thank you on those cold, windy days, 80 feet off the ground!)

The Falk Quadrive starts out with Falk's exclusive **3-year Heavy Duty Warranty**, which by the way, **includes oil seals and bearings — a true, shaft to shaft drive warranty!** Falk's unique TA Torque Assist Taper Bushing System eliminates binding found with twin-taper and single-flange bushing designs. Concentric operation minimizes wobble, even on worn shafts. A quill cover keeps contaminants out and protects the outboard shaft seal. The inboard bushing location minimizes sheave overhang, reducing overhung load on high-speed bearings. Minimal shaft engagement is required for retrofits.

Using **Standard Bearings and Seals, with published part numbers, and Falk's TA Torque Assist Taper Bushing System**, you are getting the best drive available. Standard high speed severe duty grease-purged seals are also included. They prevent leakage and ultimate drive failure. The grease barrier traps abrasive contaminants **before** they can groove the shaft or enter the drive.

Assemble your sheaves, belts, motor mount, motor, align them properly, add a belt guard and the lubricating oil **all in your shop!** Take your TA Taper Bushing and shaft key, along with your pipe or spanner wrench, out to the job-site and install your new Falk Quadrive. Hook up your motor and torque arm and you are ready to start running product! It couldn't be easier!

What happens when this particular drive has been running for 5 or 6 years and the head shaft bearing behind the drive fails? Is it going to take 2 or 3 hours to get the drive off, so you can get at that bearing? Not with a Falk Quadrive! Disconnect your drive motor, loosen the bushing setscrew, take your pipe or spanner wrench and back off the bushing nut. The Falk Quadrive will disengage itself immediately...**Falk's Quadrive is guaranteed to come off the shaft, regardless of length of service or operating conditions, or we'll replace it — FREE!**



## Let's look at how the "others" install their drives:

### Dodge TXT

- ◆ The drive is mounted between two opposing tapered bushings.
- ◆ The minimum distance from the head shaft bearing required for cap screw clearance ranges from 1 1/4" to 2 11/16".
- ◆ The head shaft must extend completely through the drive to engage the second bushing.
- ◆ Cap screws in both bushings must be set to the proper torque to complete installation.
- ◆ Installation of sheaves, belts, and belt guard must be done after the drive is installed on the headshaft.



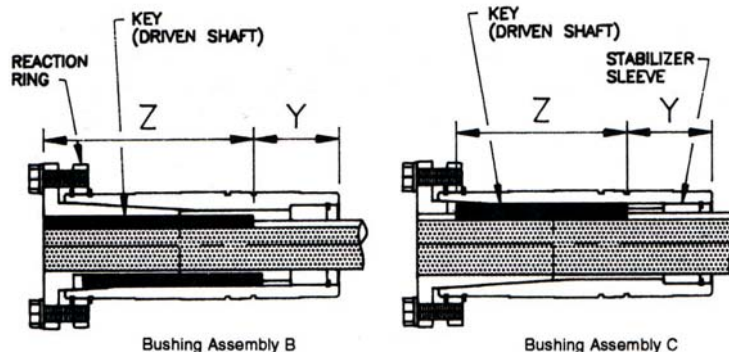
### Dodge TAI

- ◆ Torque Arm II shaft mounts still use dual opposing 8° ductile iron taper bushings.
- ◆ New with this drive is the "Short-Shaft Twin Taper Bushing Kit" which consists of:
  - ✓ One standard bushing
  - ✓ One long bushing with insertable wedge
  - ✓ Two back-up plates, with snap rings
  - ✓ Hardware and key
- ◆ Housings—Still use cast iron for all sizes.
- ◆ All new motor mounts, backstops, CEMA bolt-on-adapters, and tapered screw conveyor shafts. None of these accessories are compatible with the previous TXT, SCXT, HXT, or HSCXT model drives.
- ◆ Installation of sheaves, belts, and belt guard must **STILL** be done **after** the drives are installed on the headshaft.
- ◆ Another system, using multiple small components, which can easily be misplaced, dropped, and/or lost.



### Browning

- ◆ The Browning drive is mounted with a single tapered bushing from the low speed (output) side.
- ◆ Requires a long head shaft extension to fully engage the bushing.
- ◆ A minimum distance is required for installation and removal of bushing axial retaining cap screws. Cap screws must be set to the proper torque to finish installation.
- ◆ Now the installation of sheaves, belts, and belt guard can begin.

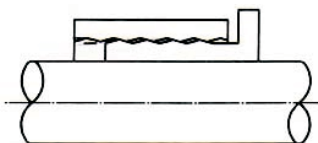


### Link-Belt

- ◆ The Link-Belt drive is mounted with a single tapered bushing from the high speed (input) side.
- ◆ Requires stabilizer sleeves, bronze bushings and numerous snap ring installations before the drive is ready to mount. (There are numerous small parts to drop and/or lose.)
- ◆ Cap screws must be set to the proper torque to tighten bushing and finish installation.
- ◆ Now the installation of sheaves, belts, and belt guard can begin.

### Fenner

- ◆ The Fenner drive is mounted with a single, modified keyless, tapered bushing from either input or output side.
- ◆ The bushing must be screwed into the drive and then cap screws are inserted, tightened and torqued to specifications. If the bushing is inserted from the output side, axial clearance is required. If the bushing is installed from the input side, mounting the sheaves, belts, and belt guard needs to be installed after the cap screws are torqued down.



**Table 1 — Selections Based Upon 1.0 Service Factor**

| HP & RPM           | Falk 5000 | Falk 4000 | Browning | Dodge TXT | Dodge TA II | Sumitomo/Fenner | Link Belt | Dorris |
|--------------------|-----------|-----------|----------|-----------|-------------|-----------------|-----------|--------|
| <b>5hp/15rpm</b>   | 5207J25A  | 4207J25C  | 207SMT25 | TXT425    | TA4207H25   | 215 G           | 207FX25   | 215TR  |
| <b>10hp/20rpm</b>  | 5215J25A  | 4215J25C  | 215SMT25 | TXT525    | TA5215H25   | 307 H           | 215FX25   | 307TR  |
| <b>15hp/20rpm</b>  | 5307J25A  | 4307J25C  | 307SMT25 | TXT625    | TA5215H25   | 315 J           | 307FX25   | 315TR  |
| <b>25hp/20rpm</b>  | 5315J25A  | 4315J25C  | 315SMT25 | TXT725    | TA7315H25   | 407 S           | 315FX25   | 407TR  |
| <b>40hp/24rpm</b>  | 5407J25A  | 4407J25C  | 407SMT25 | TXT825    | TA8407H25   | 415 K           | 407FX25   | 407TR  |
| <b>60hp/30rpm</b>  | 5415J25A  | 4415J25C  | 415SMT25 | TXT926    | TA8407H25   | 507 L           | 415FX25   | 415TR  |
| <b>75hp/30rpm</b>  | 5507J25A  | 4507J25C  | 507SMT25 | TXT1024   | TA9415H25   | 507 L           | 507D24    | 507TR  |
| <b>100hp/18rpm</b> | 5608J25A  | 4608J25C  | 608SMT25 | TXT1225   | TA12608H25  | N/A             | 608D24    | 700TR  |

**Table 2 — AGMA Size Comparison**

| Max Bore (in)  | AGMA | Falk 5000 | Falk 4000 | Browning | Dodge TXT | Dodge TA II | Sumitomo/Fenner | Link Belt | Dorris |
|----------------|------|-----------|-----------|----------|-----------|-------------|-----------------|-----------|--------|
| <b>1 7/16</b>  | 107  | 5107J     | 4107J     | 107SMT   | TXT1      | TA0107      | 107 C           | 107FX     | 107TR  |
| <b>1 15/16</b> | 115  | 5115J     | 4115J     | 115SMT   | TXT2      | TA2115      | 115 D           | 115FX     | 115TR  |
| <b>2 3/16</b>  | 203  | 5203J     | 4203J     | 203SMT   | TXT3      | TA3203      | 203 E           | 203FX     | 203TR  |
| <b>2 7/16</b>  | 207  | 5207J     | 4207J     | 207SMT   | TXT4      | TA4207      | 207 F           | 207FX     | 207TR  |
| <b>2 15/16</b> | 215  | 5215J     | 4215J     | 215SMT   | TXT5      | TA5215      | 215 G           | 215FX     | 215TR  |
| <b>3 7/16</b>  | 307  | 5307J     | 4307J     | 307SMT   | TXT6      | TA6307      | 307 H           | 307FX     | 307TR  |
| <b>3 15/16</b> | 315  | 5315J     | 4315J     | 315SMT   | TXT7      | TA7315      | 315 J           | 315FX     | 315TR  |
| <b>4 7/16</b>  | 407  | 5407J     | 4407J     | 407SMT   | TXT8      | TA8407      | 407 S           | 407FX     | 407TR  |
| <b>4 15/16</b> | 415  | 5415J     | 4415J     | 415SMT   | TXT9      | TA9415      | 415 K           | 415FX     | 415TR  |
| <b>5 7/16</b>  | 507  | 5507J     | 4507J     | 507SMT   | TXT10     | TA10507     | 507 L           | 507D      | 507TR  |
| <b>6 1/2</b>   | 608  | 5608J     | 4608J     | 608SMT   | TXT12     | TA12608     | 608 M           | 608D      | 608TR  |

**Table 3 — Minimum Recommended Shaft Engagements (Inch)**

| AGMA Sizes | Falk  | Browning | Dodge TXT | Dodge TA II | Dodge TA II Short Shaft Bushing | Sumitomo/Fenner | Link Belt | Dorris |
|------------|-------|----------|-----------|-------------|---------------------------------|-----------------|-----------|--------|
| <b>107</b> | 5.00  | 6.125    | 8.344     | 6.95        | 4.42                            | 5.551           | 4.880     | 6.25   |
| <b>115</b> | 5.55  | 6.625    | 8.563     | 7.81        | 4.79                            | 6.142           | 5.180     | 6.88   |
| <b>203</b> | 5.53  | 7.125    | 10.281    | 8.62        | 5.45                            | 6.653           | 5.960     | 7.88   |
| <b>207</b> | 6.11  | 7.625    | 11.500    | 8.94        | 5.64                            | 7.165           | 6.900     | 8.38   |
| <b>215</b> | 7.08  | 8.250    | 12.031    | 10.33       | 6.35                            | 8.425           | 7.910     | 9.00   |
| <b>307</b> | 7.39  | 9.750    | 13.313    | 10.84       | 6.70                            | 9.409           | 8.960     | 11.00  |
| <b>315</b> | 7.92  | 11.063   | 14.875    | 11.86       | 7.63                            | 9.606           | 9.680     | 11.00  |
| <b>407</b> | 8.38  | 10.500   | 16.126    | 12.81       | 8.11                            | 10.345          | 10.800    | 13.50  |
| <b>415</b> | 10.33 | 12.875   | 16.844    | 13.75       | 8.55                            | 11.693          | 11.800    | 14.88  |
| <b>507</b> | 10.66 | 14.500   | 17.781    | 15.47       | 9.66                            | 13.583          | 13.500    | 15.50  |
| <b>608</b> | 12.75 | 15.250   | 21.156    | 18.33       | 11.50                           | 15.551          | 15.250    | 20.25  |

Shaded values show where cost savings can be achieved.

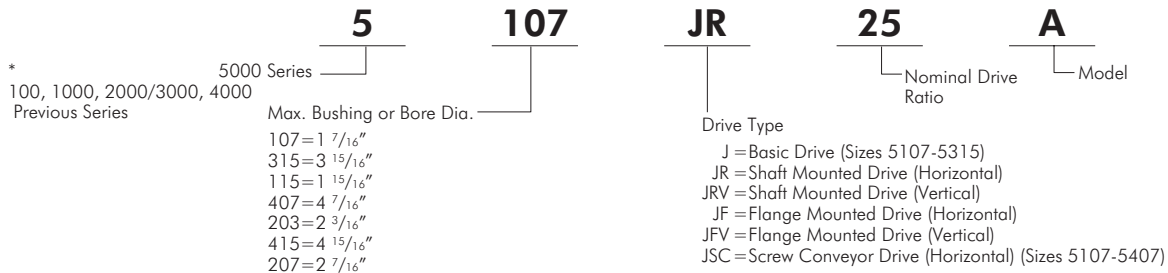
**Table 4 — Oil Capacity Comparison (U.S. Quarts) – Horizontal Mounting w/HS Shafts @ 12:00 o'clock Position**

| FALK ♦          | Quarts | Browning        | Quarts | Dodge TXT      | Quarts | Dodge TA II     | Quarts | Sumitomo/Fenner | Quarts | Link Belt      | Quarts | Dorris        | Quarts |
|-----------------|--------|-----------------|--------|----------------|--------|-----------------|--------|-----------------|--------|----------------|--------|---------------|--------|
| <b>5107J25A</b> | 2.0    | <b>107SMT25</b> | 1.00   | <b>TXT125</b>  | 0.750  | <b>TA1107H</b>  | 1.7    | <b>107 C</b>    | 0.63   | <b>107FX25</b> | 1.00   | <b>107R25</b> | 1.50   |
| <b>5115J25A</b> | 3.0    | <b>115SMT25</b> | 1.25   | <b>TXT225</b>  | 1.000  | <b>TA2115H</b>  | 2.6    | <b>115 D</b>    | 1.27   | <b>115FX25</b> | 1.25   | <b>115R25</b> | 3.00   |
| <b>5203J25A</b> | 3.5    | <b>203SMT25</b> | 3.00   | <b>TXT325</b>  | 2.125  | <b>TA3203H</b>  | 4.0    | <b>203 E</b>    | 1.90   | <b>203FX25</b> | 2.00   | <b>203R25</b> | 3.75   |
| <b>5207J25A</b> | 5.5    | <b>207SMT25</b> | 3.50   | <b>TXT425</b>  | 1.750  | <b>TA4207H</b>  | 7.3    | <b>215 G</b>    | 3.59   | <b>207FX25</b> | 3.50   | <b>207R25</b> | 4.25   |
| <b>5215J25A</b> | 9.0    | <b>215SMT25</b> | 5.50   | <b>TXT525</b>  | 4.000  | <b>TA5215H</b>  | 12.9   | <b>307 H</b>    | 5.28   | <b>215FX25</b> | 5.00   | <b>215R25</b> | 7.00   |
| <b>5307J25A</b> | 13.0   | <b>307SMT25</b> | 8.00   | <b>TXT625</b>  | 5.000  | <b>TA6307H</b>  | 15.8   | <b>315 J</b>    | 11.62  | <b>307FX25</b> | 10.25  | <b>307R25</b> | 12.25  |
| <b>5315J25A</b> | 15.0   | <b>315SMT25</b> | 10.00  | <b>TXT725</b>  | 9.250  | <b>TA7315H</b>  | 22.0   | <b>407 S</b>    | 15.32  | <b>315FX25</b> | 12.00  | <b>315R25</b> | 15.50  |
| <b>5407J25A</b> | 17.2   | <b>407SMT25</b> | 12.50  | <b>TXT825</b>  | 8.500  | <b>TA8407H</b>  | 25.1   | <b>415 K</b>    | 25.36  | <b>407FX25</b> | 17.50  | <b>407R25</b> | 18.50  |
| <b>5415J25A</b> | 28.0   | <b>415SMT25</b> | 16.00  | <b>TXT926</b>  | 14.250 | <b>TA9415H</b>  | 33.2   | <b>507 L</b>    | 26.42  | <b>415FX25</b> | 16.50  | <b>415R25</b> | 34.00  |
| <b>5507J25A</b> | 41.2   | <b>507SMT25</b> | 22.00  | <b>TXT1024</b> | 18.750 | <b>TA10507H</b> | 53.5   | <b>507 L</b>    | 26.42  | <b>507D24</b>  | 22.00  | <b>507R25</b> | 38.00  |
| <b>5608J25A</b> | 100.0  | <b>608SMT25</b> | 33.00  | <b>TXT1225</b> | 36.500 | <b>TA12608H</b> | 70.7   | <b>N/A</b>      | N/A    | <b>608D24</b>  | 30.00  | <b>608R25</b> | N/A    |

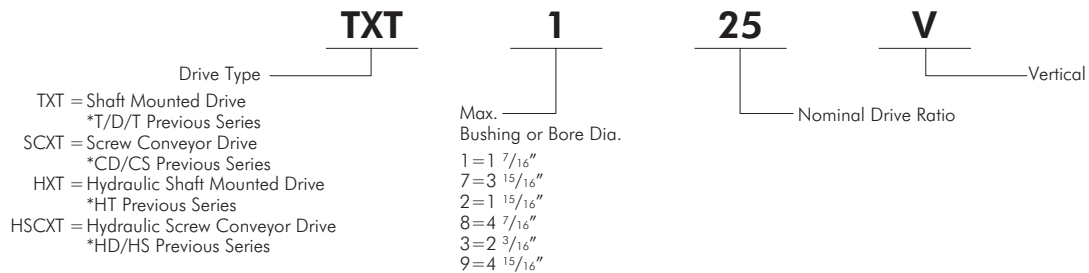
♦ Falk's oil level ensures bearings are lubricated during start-up.

# Nomenclature Guide

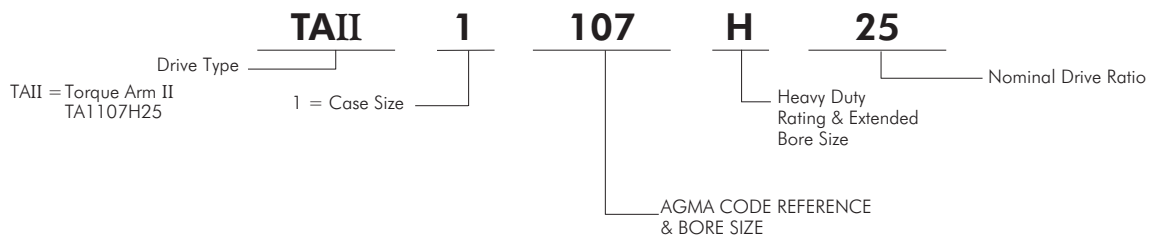
## FALK QUADRIVE



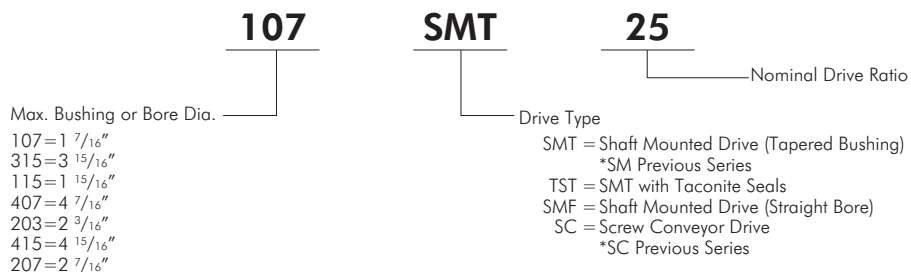
## DODGE



## DODGE TORQUE ARM II

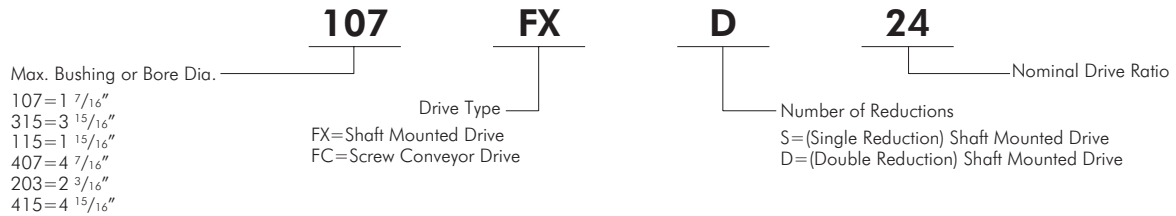


## BROWNING

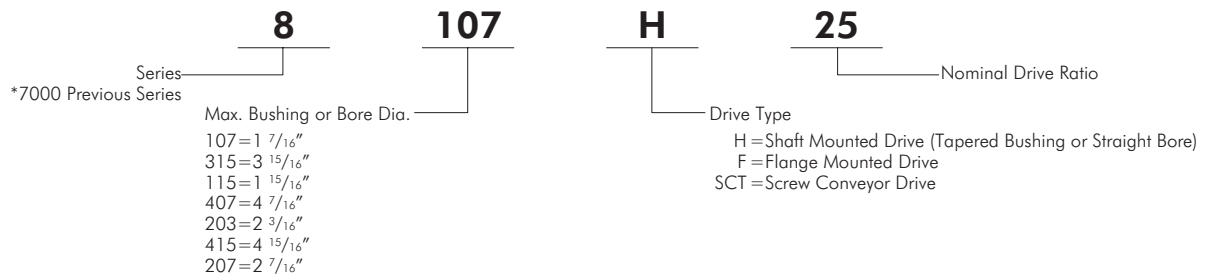


# Nomenclature Guide

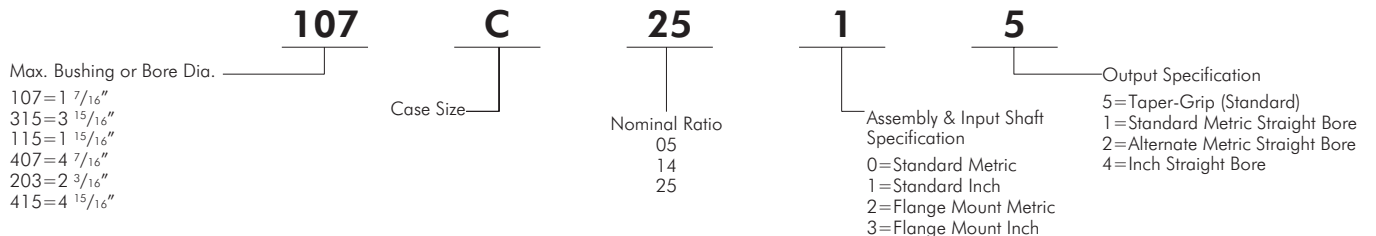
## LINK BELT



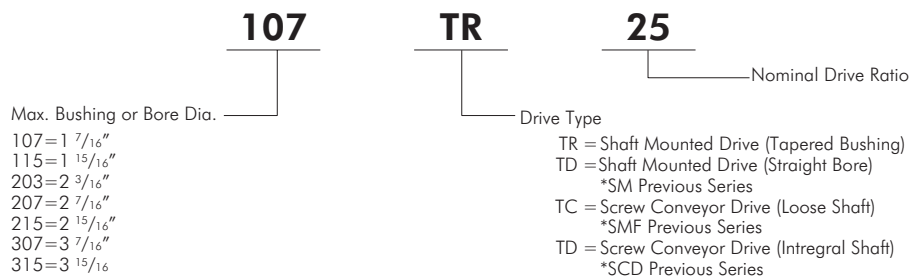
## FOOTE JONES



## SUMITOMO/FENNER



## DORRIS



# Engineering Information

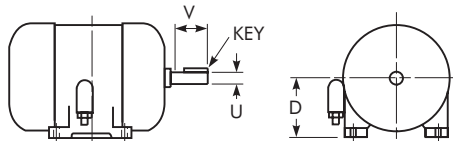
**Table 6 — Load Classifications \* . . . Electric Motor Driven Applications**  
Recommendations are minimum and normal conditions are assumed.

| APPLICATION                                | Service      |                  | APPLICATION                                      | Service      |                  | APPLICATION                        | Service      |                  | APPLICATION                   | Service      |              |
|--|--------------|------------------|--|--------------|------------------|------------------------------------|--------------|------------------|-------------------------------|--------------|--------------|
|  | 3 to 10 Hour | Over 10 Hour     |  | 3 to 10 Hour | Over 10 Hour     |                                    | 3 to 10 Hour | Over 10 Hour     |                               | 3 to 10 Hour | Over 10 Hour |
| <b>AGITATORS</b>                           |              |                  | Belt   |              |                  | <b>LINE SHAFTS</b>                 |              |                  | <b>PUMPS</b>                  |              |              |
| Paper Mill (Mixers)                        | II           | II               | Flight   | II           | II               | Uniform Load                       | I            | II               | Proportioning                 |              |              |
| Pure Liquids                               | I            | II               | Oven   | I            | II               | Heavy Load                         | II           | II               | Refer to Factory              |              |              |
| Semi-Liquids, Variable Density             | II           | II               | Live Roll (Package)                              | I            | II               |                                    |              |                  | Reciprocating, open Discharge | I            | II           |
|  |              |                  | Screw  | I            | II               | <b>LIVE ROLL CONVEYORS</b>         |              |                  | Double Acting                 |              |              |
|  |              |                  | Table—See Metal Mills                            | ...          | ...              | Uniformly Loaded, Package          | I            | II               | Multi-Cylinder                | II           | III          |
|  |              |                  |  |              |                  | Heavy Duty                         | ...          | Refer to Factory | Single Cylinder               |              |              |
| <b>APRON CONVEYORS</b>                     |              |                  | <b>CONVEYORS—HEAVY DUTY —NOT UNIFORMLY FED ‡</b> |              |                  |                                    |              |                  | Refer to Factory              |              |              |
| Uniformly Loaded                           | I            | II               | Apron  | II           | III              | <b>MACHINE TOOLS</b>               |              |                  | Rotary (Gear Type)            |              |              |
| Heavy Duty                                 | II           | III              | Assembly   | II           | II               | Auxiliary Drives                   | I            | II               | Constant Density              | I            | II           |
|  |              |                  | Belt   | II           | II               | Main Drives Uniform Load           | II           | II               | Variable Density              | II           | II           |
| <b>ASSEMBLY CONVEYORS</b>                  |              |                  | Bucket or Pan                                    | II           | II               | Main Drives Heavy Load             | III          | III              |                               |              |              |
| Uniformly Loaded                           | I            | II               | Flight   | II           | II               |                                    |              |                  | <b>RECIPROCATING</b>          |              |              |
| Heavy Duty                                 | II           | II               | Live Roll  | ...          | Refer to Factory | <b>METAL MILLS</b>                 |              |                  | Conveyors                     | III          | III          |
|  |              |                  | Oven   | ...          | ...              | Table Conveyors, Non Reversing     | II           | III              |                               |              |              |
| <b>BELT CONVEYORS</b>                      |              |                  | Reciprocating                                    | III          | II               | Reversing                          | ...          | Refer to Factory | <b>RUBBER INDUSTRY</b>        |              |              |
| Uniformly Loaded                           | I            | II               | Screw  | II           | II               | Wire Drawing & Flattening Machines | II           | III              | Tire Building Machines        | II           | II           |
| Heavy Duty                                 | II           | II               | Table—See Metal Mills                            | ...          | ...              |                                    |              |                  | Tire & Tube Press Openers     | I            | I            |
|  |              |                  |  |              |                  | <b>MILLS</b>                       |              |                  |                               |              |              |
| <b>BREWING &amp; DISTILLING</b>            |              |                  | <b>CRANES &amp; HOISTS ‡</b>                     |              |                  | (See Metal Mills)                  |              |                  | <b>SCREENS</b>                |              |              |
| Bottling Machinery                         | I            | II               | Bridge and Trolley Drive                         | II           | II               | Pebble                             | II           | III              | Air Washing                   | I            | II           |
| Brew Kettles, Continuous                   | ...          | ...              |  |              |                  |                                    |              |                  | Rotary, Stone or Gravel       | II           | II           |
| Can Filling Machines                       | I            | II               | <b>CUTTER HEAD DRIVES</b>                        | ...          | Refer to Factory |                                    |              |                  | Traveling Water Intake        | I            | II           |
| Cookers, Continuous                        | ...          | ...              | <b>DISTILLING</b> — See Brewing                  | ...          | ...              |                                    |              |                  | Shaker                        | II           | III          |
| Mash Tubs, Continuous                      | ...          | ...              | <b>DRYERS &amp; COOLERS, ROTARY</b>              | II           | III              |                                    |              |                  |                               |              |              |
| Scale Hoppers, Frequent Starts             | II           | II               |  |              |                  | <b>ELEVATORS</b>                   |              |                  | <b>SCREW CONVEYORS</b>        |              |              |
|  |              |                  | Bucket—Uniform Load                              | I            | II               | Bucket—Heavy Load                  | II           | III              | Uniformly Loaded              | I            | II           |
| <b>BUCKET</b>                              |              |                  | Escalators                                       | ...          | Not Approved     | Freight                            | ...          | Not Approved     | Heavy Duty                    | II           | II           |
| Conveyors Heavy Duty                       | II           | II               | Man lifts, Passenger                             | ...          | Not Approved     |                                    |              |                  |                               |              |              |
| Elevators, Uniform Load                    | I            | II               | <b>FLIGHT CONVEYORS</b>                          |              |                  | <b>FOOD INDUSTRY</b>               |              |                  | <b>SKI TOWS &amp; LIFTS</b>   |              |              |
| Elevators, Heavy Duty                      | II           | III              | Uniformly Loaded                                 | II           | II               | Beet Slicers                       | II           | II               | Not Approved                  |              |              |
|  |              |                  | Heavy Duty                                       | II           | II               | Can Filling Machines               | I            | II               | <b>SKIP HOISTS ‡</b>          | II           | ...          |
| <b>CAN FILLING MACHINES</b>                |              |                  |  |              |                  | Cereal Cookers                     | I            | II               |                               |              |              |
|  |              |                  | <b>LAUNDRY</b>                                   |              |                  | Dough Mixers                       | II           | II               | <b>STOKERS</b>                | ...          | II           |
| <b>CAR</b>                                 |              |                  | Washers, reversing                               | ...          | Refer to Factory | Meat Grinders                      | II           | II               |                               |              |              |
| Dumpers                                    | III          | ...              | Tumblers   | II           | III              |                                    |              |                  | <b>TEXTILE INDUSTRY</b>       |              |              |
| Pullers                                    | ...          | Refer to Factory |  |              |                  | <b>PAN CONVEYORS</b>               |              |                  | Batchers                      | II           | II           |
|  |              |                  |  |              |                  | Heavy Duty                         | II           | II               | Calenders                     | II           | II           |
| <b>CLARIFIERS</b>                          |              |                  |  |              |                  |                                    |              |                  | Card Machines                 | III          | III          |
|  |              |                  |  |              |                  | <b>PAPER MILLS</b>                 |              |                  | Dry Cans                      | II           | II           |
| <b>CLASSIFIERS</b>                         |              |                  |  |              |                  | Agitators (Mixers)                 | II           | II               | Dyeing Machinery              | II           | II           |
|  |              |                  |  |              |                  | Bleachers                          | I            | II               | Looms                         | ...          | ...          |
| <b>CLAY WORKING MACHINERY</b>              |              |                  |  |              |                  | Calenders                          | ...          | III              | Refer to Factory              |              |              |
| Brick Presses                              | III          | III              |  |              |                  | Cylinders                          | ...          | II               | Mangles, Nappers & Soapers    | II           | II           |
| Briquette Machines                         | III          | III              |  |              |                  | Felt Stretchers                    | ...          | II               | Spinners                      | II           | III          |
| Extruders & Mixers                         | II           | III              |  |              |                  | Winders                            | ...          | II               | Tenter Frames                 | II           | II           |
|  |              |                  |  |              |                  |                                    |              |                  | <b>TUMBLING BARRELS</b>       | III          | III          |
| <b>CONVEYORS—UNIFORMLY LOADED OR FED ‡</b> |              |                  |  |              |                  | <b>PEBBLE MILLS</b>                |              |                  |                               |              |              |
| Apron and Assembly                         | I            | II               |  |              |                  |                                    |              |                  |                               |              |              |

\* **LOAD CLASSIFICATIONS FOR ENGINE-DRIVEN APPLICATIONS — Multi-Cylinder Engines:** Use the next higher Service Class than the one given in Table 6 for the same application when motor driven. (Example: A motor-driven uniformly loaded belt conveyor for 10 hour service is Class I; the same conveyor driven by a multi-cylinder engine would be Class II). For applications which require Class III when motor driven, consult the Factory for recommendations on engine drives. **Single Cylinder Engines:** Consult the Factory.

‡ Selection of Rexnord products for applications whose primary purpose is the transportation of people is not approved. This includes such applications as freight or passenger elevators, escalators, man lifts, fork lift platforms and ski tows and ski lifts. If the primary purpose of the application is material conveyance and occasionally people are transported, the Factory warranty may remain in effect provided the design load conditions are not exceeded and certification to the appropriate safety codes and load conditions has been obtained by the system designer or end user from the appropriate enforcement authorities.

Motor Ratings and Dimensions are in accordance with NEMA standards



**TABLE 7 — 1964 (Type T) NEMA Motor Standards †**

| MOTOR SPEED AND FRAME SIZE |          |          |         |          |          |          |         |          |          | MOTOR SHAFT DIMENSIONS — INCHES |         |             |       |       |       |          |             |       |       |       |          |             |    |       |       |          |
|----------------------------|----------|----------|---------|----------|----------|----------|---------|----------|----------|---------------------------------|---------|-------------|-------|-------|-------|----------|-------------|-------|-------|-------|----------|-------------|----|-------|-------|----------|
| Motor hp                   | 1800 rpm | 1200 rpm | 900 rpm | Motor hp | 1800 rpm | 1200 rpm | 900 rpm | Motor hp | 1800 rpm | 1200 rpm                        | 900 rpm | Motor Frame | D     | U     | V     | Key (Sq) | Motor Frame | D     | U     | V     | Key (Sq) | Motor Frame | D  | U     | V     | Key (Sq) |
| 1/2                        | 56       | 56       | 143     | 7 1/2    | 213      | 254      | 256     | 50       | 326      | 365                             | 404     | 56          | 3 1/2 | 5/8   | 2     | 3/16     | 215         | 5 1/4 | 1 3/8 | 3 1/8 | 5/16     | 326         | 8  | 2 1/8 | 5     | 1/2      |
| 3/4                        | 56       | 143      | 145     | 10       | 215      | 256      | 284     | 60       | 364      | 404                             | 405     | 143         | 3 1/2 | 7/8   | 2     | 3/16     | 254         | 6 1/4 | 1 5/8 | 3 3/4 | 3/8      | 364         | 9  | 2 3/8 | 5 5/8 | 3/8      |
| 1                          | 143      | 145      | 182     | 15       | 254      | 284      | 286     | 75       | 365      | 405                             | ...     | 145         | 3 1/2 | 7/8   | 2     | 3/16     | 256         | 6 1/4 | 1 5/8 | 3 3/4 | 3/8      | 365         | 9  | 2 3/8 | 5 5/8 | 3/8      |
| 1 1/2                      | 145      | 182      | 184     | 20       | 256      | 286      | 324     | 100      | 404      | ...                             | ...     | 182         | 4 1/2 | 1 1/8 | 2 1/2 | 1/4      | 284         | 7     | 1 7/8 | 3/8   | 1/2      | 404         | 10 | 2 7/8 | 7     | 3/4      |
| 2                          | 145      | 184      | 213     | 25       | 284      | 324      | 326     | 125      | 405      | ...                             | ...     | 184         | 4 1/2 | 1 1/8 | 2 1/2 | 1/4      | 286         | 7     | 1 7/8 | 3/8   | 1/2      | 405         | 10 | 2 7/8 | 7     | 3/4      |
| 3                          | 182      | 213      | 215     | 30       | 286      | 326      | 364     | 150      | 444      | ...                             | ...     | 213         | 5 1/4 | 1 3/8 | 3 1/8 | 5/16     | 324         | 8     | 1/8   | 5     | 1/2      | 444         | 11 | 3 3/8 | 8 1/4 | 7/8      |
| 5                          | 184      | 215      | 254     | 40       | 324      | 364      | 365     | 200      | 445      | ...                             | ...     | ...         | ...   | ...   | ...   | ...      | ...         | ...   | ...   | ...   | ...      | 445         | 11 | 3 3/8 | 8 1/4 | 7/8      |

† Frame numbers listed are for 110, 208, 220/440 and 550 volts. Falk Motor Mounts are pre-drilled for rerated 1964 NEMA standard foot-mounted motors.

**Table 8 — 5000J Model A Mechanical Input Horsepower & Output Torque (lb-in) Ratings ★**

| Nom Ratio † | Output Speed rpm ‡ | DRIVE SIZE |                         |                                  |       |                         |                                  |       |                         |                                  |       |                         |                                  |        |                         |                                  |      |                         |                                  |      |      |
|-------------|--------------------|------------|-------------------------|----------------------------------|-------|-------------------------|----------------------------------|-------|-------------------------|----------------------------------|-------|-------------------------|----------------------------------|--------|-------------------------|----------------------------------|------|-------------------------|----------------------------------|------|------|
|             |                    | 5107       |                         |                                  | 5115  |                         |                                  | 5203  |                         |                                  | 5207  |                         |                                  | 5215 * |                         |                                  | 5307 |                         |                                  |      |      |
|             |                    | Hp         | Output Torque (lb-in) ■ | Min HSS Sheave Pitch Dia (in.) ◆ | Hp    | Output Torque (lb-in) ■ | Min HSS Sheave Pitch Dia (in.) ◆ | Hp    | Output Torque (lb-in) ■ | Min HSS Sheave Pitch Dia (in.) ◆ | Hp    | Output Torque (lb-in) ■ | Min HSS Sheave Pitch Dia (in.) ◆ | Hp     | Output Torque (lb-in) ■ | Min HSS Sheave Pitch Dia (in.) ◆ | Hp   | Output Torque (lb-in) ■ | Min HSS Sheave Pitch Dia (in.) ◆ |      |      |
| 25:1        | 5                  | 0.357      | 4494                    | 2.1                              | 0.652 | 8219                    | 2.6                              | 1.04  | 13078                   | 4.0                              | 1.65  | 20832                   | 5.0                              | 2.76   | 34821                   | 6.0                              | 6.0  | 4.48                    | 56529                            | 7.0  | 7.0  |
|             | 7                  | 0.499      | 4494                    | 2.1                              | 0.913 | 8219                    | 2.6                              | 1.45  | 13078                   | 4.0                              | 2.31  | 20832                   | 5.0                              | 3.87   | 34821                   | 6.0                              | 6.0  | 6.29                    | 56529                            | 7.0  | 7.0  |
|             | 10                 | 0.713      | 4494                    | 2.1                              | 1.30  | 8219                    | 2.6                              | 2.08  | 13078                   | 4.0                              | 3.31  | 20832                   | 5.0                              | 5.52   | 34821                   | 6.0                              | 6.0  | 8.97                    | 56529                            | 7.0  | 7.0  |
|             | 15                 | 1.07       | 4494                    | 2.1                              | 1.96  | 8219                    | 2.6                              | 3.11  | 13078                   | 4.0                              | 4.96  | 20832                   | 5.0                              | 8.29   | 34821                   | 6.0                              | 6.0  | 13.5                    | 56529                            | 7.0  | 7.0  |
|             | 20                 | 1.43       | 4494                    | 2.1                              | 2.61  | 8219                    | 2.6                              | 4.15  | 13078                   | 4.0                              | 6.61  | 20832                   | 5.0                              | 11.1   | 34821                   | 6.0                              | 6.0  | 17.9                    | 56529                            | 7.0  | 7.0  |
|             | 25                 | 1.79       | 4494                    | 2.1                              | 3.26  | 8219                    | 2.6                              | 5.19  | 13078                   | 4.0                              | 8.26  | 20832                   | 5.0                              | 13.8   | 34821                   | 6.0                              | 6.0  | 22.4                    | 56529                            | 7.0  | 7.0  |
|             | 30                 | 2.14       | 4494                    | 2.1                              | 3.91  | 8219                    | 2.6                              | 6.23  | 13078                   | 4.0                              | 9.92  | 20832                   | 5.0                              | 16.6   | 34821                   | 6.0                              | 6.0  | 26.9                    | 56529                            | 7.0  | 7.0  |
|             | 35                 | 2.50       | 4494                    | 2.1                              | 4.56  | 8219                    | 2.6                              | 7.26  | 13078                   | 4.0                              | 11.6  | 20832                   | 5.0                              | 19.3   | 34821                   | 6.0                              | 6.0  | 31.4                    | 56529                            | 7.0  | 7.0  |
|             | 40                 | 2.85       | 4494                    | 2.1                              | 5.22  | 8219                    | 2.6                              | 8.30  | 13078                   | 4.0                              | 13.2  | 20832                   | 5.0                              | 22.1   | 34821                   | 6.0                              | 6.0  | 35.9                    | 56529                            | 7.0  | 7.0  |
|             | 50                 | 3.56       | 4494                    | 2.1                              | 6.52  | 8219                    | 2.6                              | 10.4  | 13063                   | 4.0                              | 15.5  | 20832                   | 5.0                              | 27.6   | 34821                   | 6.0                              | 6.0  | 44.9                    | 56529                            | 7.0  | 7.0  |
| 60          | 4.28               | 4494       | 2.1                     | 7.82                             | 8219  | 2.6                     | 11.8                             | 12367 | 4.0                     | 19.8                             | 20832 | 5.0                     | 33.2                             | 34821  | 6.0                     | 6.0                              | 53.8 | 56529                   | 7.0                              | 7.0  |      |
| 70          | 4.99               | 4494       | 2.1                     | 9.13                             | 8219  | 2.6                     | 13.1                             | 11808 | 4.0                     | 23.1                             | 20832 | 5.0                     | 38.7                             | 34821  | 6.0                     | 6.0                              | 62.8 | 56529                   | 7.0                              | 7.0  |      |
| 14:1        | 71                 | 4.79       | 4254                    | 1.7                              | 9.07  | 8052                    | 2.0                              | 14.7  | 13078                   | 4.0                              | 23.5  | 20832                   | 6.5                              | 39.2   | 34821                   | 6.0                              | 6.6  | 63.7                    | 56529                            | 7.0  | 8.3  |
|             | 80                 | 5.40       | 4254                    | 1.7                              | 10.2  | 8052                    | 2.0                              | 16.6  | 13078                   | 4.4                              | 26.4  | 20832                   | 7.4                              | 44.2   | 34821                   | 6.0                              | 7.2  | 71.8                    | 56529                            | 7.0  | 8.6  |
|             | 90                 | 6.08       | 4254                    | 1.7                              | 11.5  | 8052                    | 2.0                              | 18.3  | 12838                   | 4.6                              | 29.2  | 20421                   | 8.0                              | 49.7   | 34821                   | 6.1                              | 8.0  | 80.7                    | 56529                            | 7.2  | 9.2  |
|             | 100                | 6.75       | 4254                    | 1.7                              | 12.8  | 8052                    | 2.0                              | 19.7  | 12439                   | 4.7                              | 31.4  | 19786                   | 8.0                              | 55.3   | 34821                   | 6.8                              | 8.9  | 89.7                    | 56529                            | 7.7  | 9.8  |
|             | 110                | 7.43       | 4254                    | 1.7                              | 14.1  | 8052                    | 2.0                              | 21.1  | 12088                   | 4.6                              | 33.6  | 19228                   | 8.0                              | 60.8   | 34821                   | 7.5                              | 9.8  | 98.1                    | 56227                            | 8.1  | 10.4 |
|             | 120                | 8.10       | 4254                    | 1.7                              | 15.3  | 8052                    | 2.1                              | 22.4  | 11777                   | 4.6                              | 35.7  | 18732                   | 7.9                              | 66.3   | 34821                   | 8.4                              | 10.9 | 104                     | 54778                            | 8.1  | 10.4 |
| 125         | 8.44               | 4254       | 1.7                     | 16.0                             | 8052  | 2.1                     | 23.1                             | 11633 | 4.6                     | 36.7                             | 18504 | 7.9                     | 69.1                             | 34821  | 8.9                     | 11.5                             | 107  | 54112                   | 8.1                              | 10.4 |      |
| 9:1         | 126                | 8.56       | 4317                    | 2.6                              | 15.0  | 7509                    | 2.6                              | 22.0  | 11027                   | 12.0                             | 35.3  | 17634                   | 15.0                             | 68.4   | 34220                   | 9.5                              | 12.5 | 75.1                    | 37545                            | 14.1 | 18.0 |
|             | 130                | 8.90       | 4317                    | 2.5                              | 15.5  | 7509                    | 2.6                              | 22.5  | 10904                   | 12.0                             | 36.0  | 17438                   | 15.0                             | 70.6   | 34220                   | 9.8                              | 12.9 | 76.8                    | 37211                            | 14.1 | 18.0 |
|             | 140                | 9.59       | 4317                    | 2.4                              | 16.7  | 7509                    | 2.7                              | 23.7  | 10647                   | 12.0                             | 37.9  | 17076                   | 15.0                             | 76.0   | 34220                   | 10.7                             | 13.9 | 80.8                    | 36362                            | 14.1 | 18.0 |
|             | 150                | 10.3       | 4317                    | 2.3                              | 17.9  | 7509                    | 2.8                              | 24.9  | 10453                   | 12.0                             | 39.8  | 16725                   | 15.0                             | 81.3   | 34163                   | 11.5                             | 14.9 | 84.8                    | 35625                            | 14.1 | 18.0 |
|             | 160                | 11.0       | 4317                    | 2.2                              | 19.1  | 7509                    | 3.0                              | 26.0  | 10265                   | 12.0                             | 41.6  | 16383                   | 15.0                             | 85.1   | 33504                   | 11.5                             | 15.0 | 88.7                    | 34846                            | 14.1 | 18.0 |
|             | 170                | 11.6       | 4317                    | 2.2                              | 20.3  | 7509                    | 3.1                              | 27.1  | 10059                   | 12.0                             | 43.5  | 16114                   | 15.0                             | 88.8   | 32923                   | 11.5                             | 15.0 | 92.6                    | 34313                            | 14.1 | 18.0 |
|             | 180                | 12.3       | 4317                    | 2.2                              | 21.4  | 7509                    | 3.2                              | 28.3  | 9906                    | 12.0                             | 45.3  | 15843                   | 15.0                             | 92.4   | 32344                   | 11.5                             | 15.0 | 96.4                    | 33750                            | 14.1 | 18.0 |
| 190         | 13.0               | 4317       | 2.2                     | 22.6                             | 7509  | 3.3                     | 29.4                             | 9740  | 12.0                    | 47.0                             | 15572 | 15.0                    | 96.0                             | 31826  | 11.5                    | 15.0                             | 100  | 33203                   | 14.1                             | 18.0 |      |

| Nom Ratio † | Output Speed rpm ‡ | DRIVE SIZE |                         |                                  |                      |        |                         |                                  |                      |        |                         |                                  |                      |        |                         |                                  |                      |        |                         |                                  |                      |
|-------------|--------------------|------------|-------------------------|----------------------------------|----------------------|--------|-------------------------|----------------------------------|----------------------|--------|-------------------------|----------------------------------|----------------------|--------|-------------------------|----------------------------------|----------------------|--------|-------------------------|----------------------------------|----------------------|
|             |                    | 5315       |                         |                                  |                      | 5407 * |                         |                                  |                      | 5415   |                         |                                  |                      | 5507   |                         |                                  |                      | 5608   |                         |                                  |                      |
|             |                    | Hp         | Output Torque (lb-in) ■ | Min HSS Sheave Pitch Dia (in.) ◆ | with Shaft Fan (in.) | Hp     | Output Torque (lb-in) ■ | Min HSS Sheave Pitch Dia (in.) ◆ | with Shaft Fan (in.) | Hp     | Output Torque (lb-in) ■ | Min HSS Sheave Pitch Dia (in.) ◆ | with Shaft Fan (in.) | Hp     | Output Torque (lb-in) ■ | Min HSS Sheave Pitch Dia (in.) ◆ | with Shaft Fan (in.) | Hp     | Output Torque (lb-in) ■ | Min HSS Sheave Pitch Dia (in.) ◆ | with Shaft Fan (in.) |
| 25:1        | 5                  | 5.72       | 72122                   | 7.0                              | 7.0                  | 8.52   | 107421                  | 7.0                              | 7.0                  | 11.1   | 140422                  | 8.0                              | 8.0                  | 17.5   | 220560                  | 8.0                              | 8.0                  | 25.9   | 325993                  | 9.5                              | 10.1                 |
|             | 7                  | 8.01       | 72092                   | 7.0                              | 7.0                  | 11.9   | 107366                  | 7.0                              | 7.0                  | 15.6   | 140348                  | 8.0                              | 8.0                  | 24.5   | 220423                  | 8.0                              | 8.0                  | 36.2   | 325765                  | 9.5                              | 10.2                 |
|             | 10                 | 11.4       | 72046                   | 7.0                              | 7.0                  | 17.0   | 107286                  | 7.0                              | 7.0                  | 22.3   | 140238                  | 8.0                              | 8.0                  | 34.9   | 220219                  | 8.0                              | 8.0                  | 51.6   | 325423                  | 9.5                              | 10.2                 |
|             | 15                 | 17.1       | 71968                   | 7.0                              | 7.0                  | 25.5   | 107152                  | 7.0                              | 7.0                  | 33.3   | 140054                  | 8.0                              | 8.0                  | 52.3   | 219879                  | 8.0                              | 8.0                  | 77.3   | 324853                  | 9.5                              | 10.2                 |
|             | 20                 | 22.8       | 71891                   | 7.0                              | 7.0                  | 34.0   | 107018                  | 7.0                              | 7.0                  | 44.4   | 139869                  | 8.0                              | 8.0                  | 69.7   | 219538                  | 8.0                              | 8.0                  | 103    | 324283                  | 9.5                              | 10.2                 |
|             | 25                 | 28.5       | 71813                   | 7.0                              | 7.0                  | 42.4   | 106883                  | 7.0                              | 7.0                  | 55.4   | 139684                  | 8.0                              | 8.0                  | 86.9   | 219917                  | 8.0                              | 8.0                  | 128    | 323713                  | 9.5                              | 10.1                 |
|             | 30                 | 34.1       | 71736                   | 7.0                              | 7.0                  | 50.8   | 106749                  | 7.0                              | 7.0                  | 66.4   | 139500                  | 8.0                              | 8.0                  | 104    | 218857                  | 8.0                              | 8.0                  | 154    | 323143                  | 9.5                              | 10.1                 |
|             | 35                 | 39.8       | 71659                   | 7.0                              | 7.0                  | 59.2   | 106614                  | 7.0                              | 7.0                  | 77.4   | 139315                  | 8.0                              | 8.0                  | 123    | 218516                  | 8.0                              | 8.0                  | 179    | 322573                  | 9.5                              | 10.1                 |
|             | 40                 | 45.4       | 71581                   | 7.0                              | 7.0                  | 67.6   | 106480                  | 7.0                              | 7.0                  | 88.3   | 139130                  | 8.0                              | 8.0                  | 138    | 218176                  | 8.0                              | 8.0                  | 204    | 322003                  | 9.5                              | 10.2                 |
|             | 50                 | 56.7       | 71427                   | 7.0                              | 7.0                  | 84.3   | 106212                  | 7.0                              | 7.0                  | 110    | 138762                  | 8.0                              | 8.0                  | 173    | 217495                  | 8.0                              | 8.0                  | 253    | 318702                  | 9.5                              | 12.0                 |
| 60          | 67.9               | 71272      | 7.0                     | 7.0                              | 101                  | 105604 | 7.0                     | 7.0                              | 132                  | 138393 | 8.0                     | 8.0                              | 206                  | 216813 | 8.0                     | 8.0                              | 299                  | 314493 | 10.0                    | 14.0                             |                      |
| 70          | 79.0               | 71118      | 7.0                     | 7.0                              | 116                  | 104709 | 7.0                     | 7.0                              | 153                  | 137878 | 8.0                     | 8.0                              | 240                  | 216132 | 8.0                     | 8.0                              | 345                  | 310283 | 11.4                    | 16.1                             |                      |
| 14:1        | 71                 | 80.1       | 71102                   | 11.0                             | 13.3                 | 112    | 99193                   | 7.0                              | 8.5                  | 155    | 137987                  | 8.0                              | 12.3                 | 243    | 216064                  | 8.3                              | 16.2                 | 294    | 261388                  | 9.5                              | 12.0                 |
|             | 80                 | 90.1       | 70963                   | 12.4                             | 14.9                 | 126    | 99193                   | 7.0                              | 8.5                  | 175    | 137654                  | 8.0                              | 12.2                 | 273    | 215452                  | 9.0                              | 16.1                 | 332    | 261388                  | 9.5                              | 13.0                 |
|             | 90                 | 101.1      | 70808                   | 14.2                             | 17.0                 | 142    | 99193                   | 7.0                              | 8.5                  | 196    | 137286                  | 8.0                              | 12.2                 | 307    | 214771                  | 9.8                              | 16.1                 | 373    | 261388                  | 10.0                             | 14.2                 |
|             | 100                | 110        | 69525                   | 15.0                             | 18.0                 | 157    | 99193                   | 7.0                              | 8.5                  | 217    | 136916                  | 8.0                              | 12.2                 | 335    | 211443                  | 10.2                             | 15.8                 | 415    | 261388                  | 10.8                             | 15.3                 |
|             | 110                | 118        | 67577                   | 15.0                             | 18.0                 | 173    | 99193                   | 7.0                              | 9.0                  | 238    | 136547                  | 8.0                              | 12.1                 | 359    | 205482                  | 10.2                             | 15.4                 | 456    | 261388                  | 11.7                             | 16.5                 |
|             | 120                | 125        | 65860                   | 15.0                             | 18.0                 | 189    | 99193                   | 7.0                              | 9.6                  | 259    | 136179                  | 8.0                              | 12.1                 | 381    | 200188                  | 10.2                             | 15.0                 | 498    | 261388                  | 12.7                             | 17.8                 |
| 125         | 129                | 65025      | 15.0                    | 18.0                             | 197                  | 99193  | 7.0                     | 9.9                              | 270                  | 135994 | 8.0                     | 12.1                             | 392                  | 197750 | 10.2                    | 14.8                             | 518                  | 261388 | 13.2                    | 18.5                             |                      |
| 9:1         | 126                | 109        | 54286                   | 14.8                             | 18.0                 | ...    | ...                     | ...                              | ...                  | ...    | ...                     | ...                              | ...                  | ...    | ...                     | ...                              | ...                  | ...    | ...                     | ...                              | ...                  |
|             | 130                | 111        | 53790                   | 14.8                             | 18.0                 | ...    | ...                     | ...                              | ...                  | ...    | ...                     | ...                              | ...                  | ...    | ...                     | ...                              | ...                  | ...    | ...                     | ...                              | ...                  |
|             | 140                | 117        | 52594                   | 14.8                             | 18.0                 | ...    | ...                     | ...                              | ...                  | ...    | ...                     | ...                              | ...                  | ...    | ...                     | ...                              | ...                  | ...    | ...                     | ...                              | ...                  |
|             | 150                | 123        | 51525                   | 14.8                             | 18.0                 | ...    | ...                     | ...                              | ...                  | ...    | ...                     | ...                              | ...                  | ...    | ...                     | ...                              | ...                  | ...    | ...                     | ...                              | ...                  |
|             | 160                | 128        | 50554                   | 14.8                             | 18.0                 | ...    | ...                     | ...                              | ...                  | ...    | ...                     | ...                              | ...                  | ...    | ...                     | ...                              | ...                  | ...    | ...                     | ...                              | ...                  |
|             | 170                | 134        | 49632                   | 14.8                             | 18.0                 | ...    | ...                     | ...                              | ...                  | ...    | ...                     | ...                              | ...                  | ...    | ...                     | ...                              | ...                  | ...    | ...                     | ...                              | ...                  |
|             | 180                | 139        | 48781                   | 14.8                             | 18.0                 | ...    | ...                     | ...                              | ...                  | ...    | ...                     | ...                              | ...                  | ...    | ...                     | ...                              | ...                  | ...    | ...                     | ...                              | ...                  |
| 190         | 145                | 48019      | 14.8                    | 18.0                             | ...                  | ...    | ...                     | ...                              | ...                  | ...    | ...                     | ...                              | ...                  | ...    | ...                     | ...                              | ...                  | ...    | ...                     | ...                              |                      |

★ Refer 5507J14 with backstop applications to the Factory.

† Maximum output speed per nominal ratio based on 1750 input rpm.

‡ Refer to Manual 377-114 for maximum output speeds and vertical mounting.

● Check required up (without service factor) against the application adjusted thermal capacity.

■ Convert required torque (without service factor) to hp and check against the application adjusted thermal capacity.

◆ Values are for V-belt drives and load applied one shaft diameter from seal cage or fan if so equipped. For minimum sheave diameters for other axial locations, refer to load location factor table in Selection Guide 371-110. Multiply values by 0.66 when



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