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## TORQUE-ARM II Shaft Mount Speed Reducers

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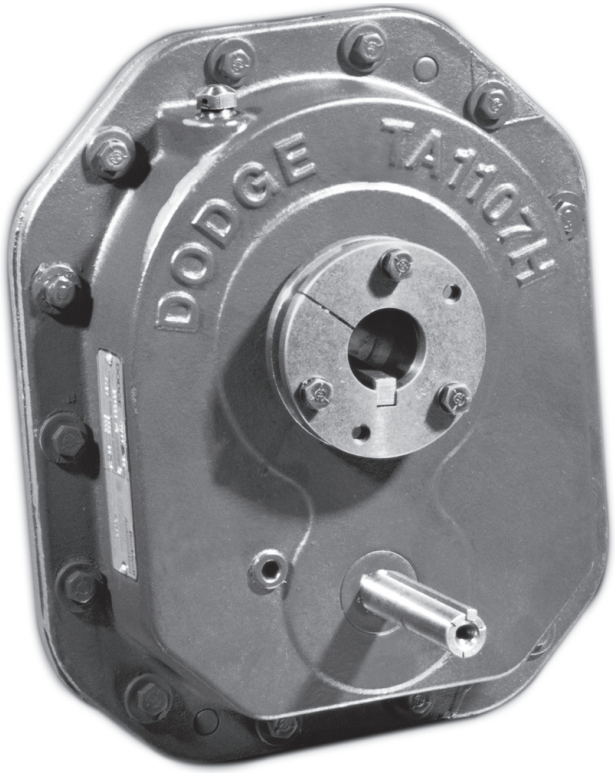
# TORQUE-ARM II Shaft Mount Speed Reducers

**THE LEGACY CONTINUES . . . . . .**




With 60 years of proven dependability and more than 2 million units in service throughout the world, DODGE TORQUE-ARM speed reducers are the standard of the industry. Now, that legacy continues with the newest generation in shaft mounted speed reducers - TORQUE-ARM II - offering patented innovations, new features, plus increased torque and horsepower ratings.

# FEATURES/BENEFITS

## TORQUE-ARM II Shaft Mount Speed Reducers

**THE LEGACY CONTINUES . . . . . .**

The DODGE TORQUE-ARM II surpasses all other reducers on the market because of its industry proven design and patented features.

This powerful line of shaft mounted speed reducers - in 12 case sizes through 700 horsepower (HP) - offers unparalleled torque ratings and is quickly becoming the new industry standard. Improved features include: an all-new backstop concept, a patented sealing system, a steel motor mount system, a state-of-the-art, totally modular design with an expanded ratio range to 40:1, and a patented twin tapered bushing system.

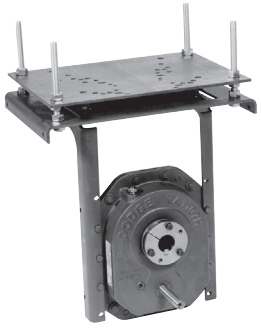
The increased ratings of the TORQUE-ARM II line are comparable to the next larger sized TXT reducer and are the result of the extended gear centers, wider gear faces, and optimized tooth geometry. The backstop design features centrifugal lift-off sprags for extended life and can be used with lubricants containing EP additives.

In addition, the TORQUE-ARM II line has a patented, premium sealing system that uses an HNBR oil seal protected by a metal excluder seal with rubbing lip. This harsh duty sealing system makes this reducer series a perfect fit for today's harsh duty industries such as aggregates, mining, cement, asphalt, mixing & milling and ethanol.

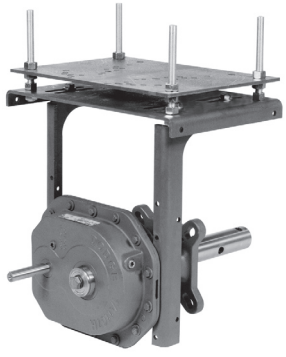
The steel motor mount adjusts to multiple center distances and mounts in shaft mount and screw conveyor positions.

Its patented twin tapered bushing system - in standard length, short shaft, and metric versions - offers all the features of our standard twin tapered TORQUE-ARM bushing design which are unique to DODGE. The patented insertable tapered wedge enables the optional extended tapered bushing kit to be applied for shorter shaft lengths, allowing the replacement of straight bore or single bushed reducers.

**Shaft mounted reducer with twin tapered bushing and motor mount**



**Screw conveyor drive with adapter, drive shaft and motor mount**



## PRODUCT CAPABILITIES

Twelve reducer sizes with modular accessories

All reducers can be shaft mounted, screw conveyor, vertical and flange mounted

HP through 700, and torque ratings through 500,000 lb. in

Standard 5, 9, 15, 25 and up to 40:1 gear ratios

Nearly 300:1 speed reduction with V belt drives

Bushing bores 1 inch through 7 inches

All new highly efficient helical gearing design

Meets or exceeds AGMA standards including 5,000 hour L-10 bearing life, 25,000 average life

Smooth, rugged class 30 cast iron housings with pry slots

36 month - 18 month warranty protection

Complete Metric TA II product line available

TA II products in conformance to ATEX directive 94/9/EC guidelines

Premium HNBR oil sealing system and filter breather

# FEATURES/BENEFITS

## TORQUE-ARM II Shaft Mount Speed Reducers

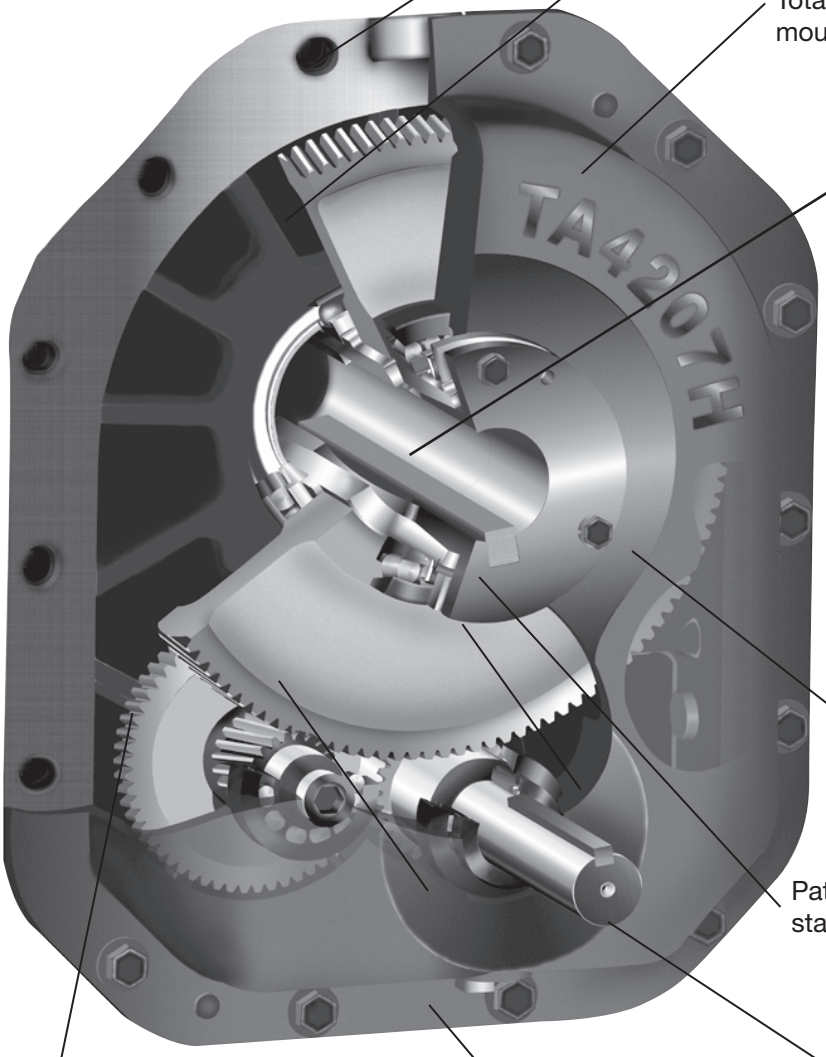
### THE LEGACY CONTINUES . . . . . .

The new-generation DODGE TORQUE-ARM II has been engineered throughout with features designed to improve performance, extend service life, and reduce or simplify maintenance.

Three large pry slots make rebuilding easy.

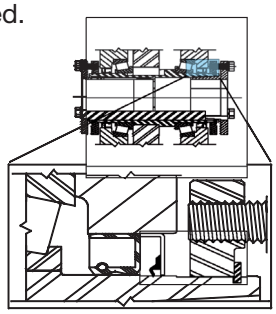
Proven, AGMA-rated, case-carburized gear design ensures high efficiency. Has Class I starting load capability of 200%.

Totally modular construction, one reducer for shaft mount, screw conveyor, vertical and flange mount applications.




Premium HNBR oil seals are protected by a patented labyrinth metal shield and excluder lip auxiliary seal on all shafts.

No lubrication required.
Factory tested.



100% cast iron housing (Class 30) eliminates bearing cap leak paths and maximizes surface area for heat dissipation.

Patented twin tapered bushings are available in standard, patented short shaft, and metric versions.

Heavy duty tapered roller bearings provide 25,000 hours average life and 5,000 L-10 minimum hours life—even in the heaviest load conditions.

Extended gear centers and increased gear tooth contact provide dramatically increased torque and horsepower ratings.

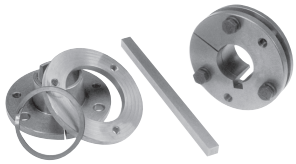
Magnetic drain plug and baffled air breather are standard.

# FEATURES/BENEFITS

## TORQUE-ARM II Shaft Mount Speed Reducers

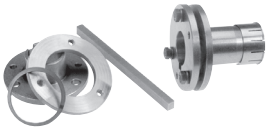
### THE LEGACY CONTINUES . . . . . .

### Shaft Mounted



STANDARD TWIN TAPERED BUSHING SYSTEM is an easy on, easy off, no-wobble bushing system featuring a fully split, ductile iron 8° taper and reliable twin support. Available in inch and metric bores. Increased bore capability in many sizes.

Our **SHORT-SHAFT TWIN-TAPERED BUSHING KITS** eliminate the need for full-length shafts. Constructed with ductile iron, it has all the features of our standard bushing system. Available in both inch and metric bores.



This **MODULAR MOTOR MOUNT** is attached and supported by two angle iron brackets with equally spaced holes, which align with the spacing of the cast slots of the gear case. This way, the motor mount can be adjusted up or down depending on the customer's requirements. It can also be mounted on the side of the reducer for screw conveyor applications.

This new-design **BACKSTOP** option helps prevent reverse rotation in high stop-start loads, and results in less wear and longer life. Its centrifugal throw-out design eliminates sprag sliding and reduces wear. It operates with standard and EP lubricants and requires no external lubrication.

Ruggedly constructed, the **TA Rod Kit** includes standard brackets, functions as a belt-tensioning device, and offers universal mounting options.

### Screw Conveyor

The CEMA BOLT-ON ADAPTER features double-lip seals on both surfaces. The adapter center is open for contaminate drop out for optimized sealing.

An optional ADJUSTABLE PACKING KIT bolts to the standard adapter and provides a proven sealing option for hostile environments. Packing can be retightened.

The SCREW CONVEYOR DRIVE SHAFTS are made from high alloy steel and engineered to CEMA dimensions. They are three-bolt drilled and their tapered fit ensures simple installation. The rugged locking plate (patent pending) also provides a mechanical shaft removal feature. #316 Stainless Steel drive shafts also available.

This complete BOLT-ON BELT GUARD PACKAGE requires no drilling or straps. It allows multiple height adjustments, and has an open metal inspection feature.

*Other accessories include cooling fans and vertical breather kits.*

# TORQUE-ARM II Shaft Mount Speed Reducers

## General Specifications

### TORQUE-ARM II Speed Reducers:

The speed reducer shall be either a belt driven or direct coupled enclosed shaft mount type unit with a single or double reduction ratio. The reducer shall mount directly on the driven shaft and utilize an adjustable torque arm that attaches from the gear case to the support structure or foundation. Optional all steel motor mount adjusts to various belt center distances and supports the motor.

The reducer housing shall be constructed of two piece corrosion resistant, class 30 gray iron. All housings shall be doweled and precision machined to assure accurate alignment for all gear sets. Pry slots are provided for ease of repair.

All gearing shall be of helical design, case carburized and precision finished to insure a high surface durability with a resilient tooth core for impact resistance and optimum service life. Gears shall be supported between bearings to maintain proper alignment of gear meshes, maximize load carrying capabilities, and to eliminate overhung loads imposed on bearings. Design meets or exceed AGMA standards.

Reducer bearings shall be of the tapered roller type, meet or exceed AGMA standards, and provide a 25,000 hour average life, a 5,000 L-10 AGMA Class I standard.

All seals shall be of the lip, spring loaded type, made of Hydrogenated Nitrile Butadiene Rubber. A metal excluder seal with rubber lip is external to the standard oil seal.

Reducer installation shall be accomplished by using ductile iron, fully split, two bushing system. Reducer removal shall be accomplished by providing jack screw holes in the bushing flanges to mechanically remove the tapered assembly.

Backstops should be lift-off sprag type designed for use with standard and extreme pressure (EP) lubricants.

### Screw Conveyor Drives:

The drive shall consist of a standard speed reducer; a cast iron, bolt on, four bolt mounting adapter with double lip seals on both ends, and optional bolt on adjustable packing kit.

A standard three-hole drive shaft will be machined from a high quality alloy steel.

The drive shall conform to Conveyor Equipment Manufacturers Association (CEMA) standards.

Optional all steel motor mount adjusts to various belt center distances and supports the motor.

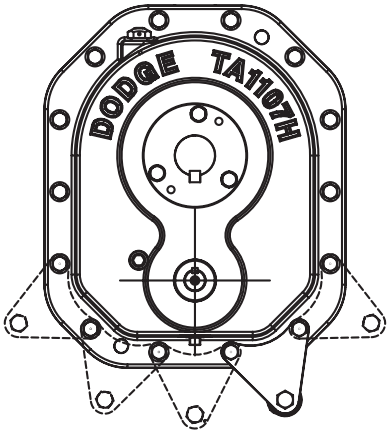
# NOMENCLATURE

## TORQUE-ARM II Shaft Mount Speed Reducers

### Basic TORQUE-ARM II Reducer

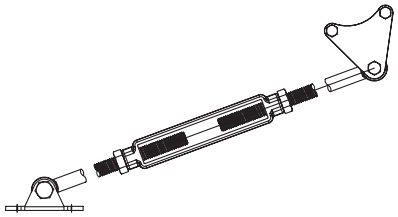
### TA1107H25

**TA** - TORQUE-ARM II Shaft Mount Reducer
1- Case Size 1
**107** - AGMA Code reference & Traditional Bore Size
**H** - Heavy Duty Rating & Extended Bore Size
**25** - Nominal Reducer Ration

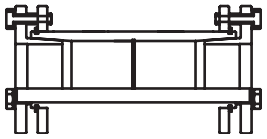



### Shaft Mount Reducer Drive Accessories

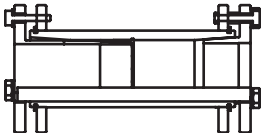
**TA1107RA**
TA1107 Rod Assembly



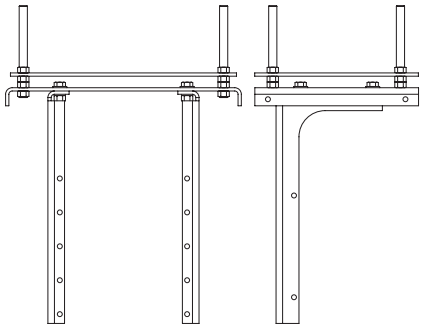
**TA1107TB x 1-7/16**
TA1107TB x 1-7/16 Twin Tapered Bushing Kit for Standard Length Driven Shaft



**TA1107TBS x 1/7-16**
TA1107TB x 1-7/16 Twin Tapered Bushing Kit for Short Driven Shaft

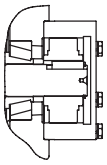


**TA1107MM**
TA1107MM Motor Mount Assembly

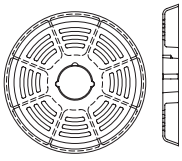


### Other Accessories

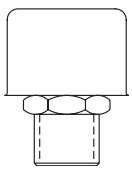
**TA1107BS**
Backstop Assembly



**TA4207CF**
Cooling Fan Assembly

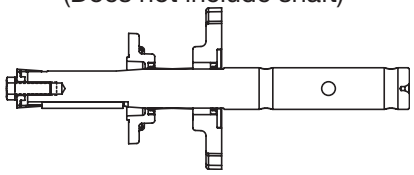


**TA1-4 FB KIT**
Filter Breather Kit

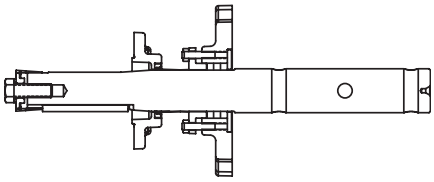


### Screw Conveyor Drive Accessories

**TA1107SCA**
TA1107SCA Screw Conveyor Standard Adapter & Hardware Kit (Does not include shaft)

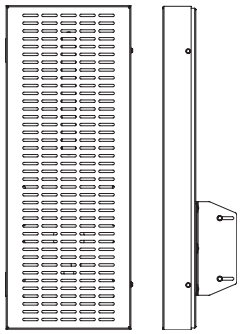


**TA1107SCP Kit**
TA11070SCP Screw Adjustable Packing Kit (Does not include shaft)



**TA1107SCS x 1-7/16**
TA11070SCS Screw Conveyor Drive Shaft x 1-7/17" Diameter

**TA1107BG**
TA1107BG Belt Guard



# TORQUE-ARM II Shaft Mount Speed Reducers

## Easy Selection Method (For Electric Motors) For TORQUE-ARM II Reducer And Screw Conveyor Drive Reducer Applications

### When to Use Easy Selection

The Easy Selection tables for TA II Shaft Mount reducers are for electric motor selections up to 400 horsepower with output speeds up to 400 RPM, using AGMA recommended application class numbers. For extreme shock or high energy loads which must be absorbed, as when stalling; for a power source other than an electric motor; or for extreme ambient temperatures or oversized equipment, consult DODGE Application Engineering, 864-284-5700.

### How to Select

**Step 1: Determine Class of Service** - See Table 1 to determine Load Classification for applications under normal conditions. Find the type application and duty cycle that most closely matches your specific application.

**Class 1 -** Steady load not exceeding Motor HP rating and light shock loads during 10 hours a day. Moderate shock loads are allowable if operation is intermittent

For Class 1 applications, the maximum value of starting and momentary peak loads should not exceed 2 x Motor HP rating. If it exceeds this amount it should be divided by 2 and the result used in the selection table instead of the Motor HP rating.

**Class 2 -** Steady load not exceeding Motor HP rating for over 10 hours a day. Moderate shock loads are allowable during 10 hours a day.

For Class 2 applications, the maximum value of starting and momentary peak loads should not exceed 2.8 x Motor HP rating. If it exceeds this amount it should be divided by 2.8 and the result used in the selection table instead of the Motor HP rating.

**Class 3 -** Moderate shock loads for over 10 hours a day. Heavy shock loads are allowable during 10 hours a day.

For Class 3 applications, the maximum value of starting and momentary peak loads should not exceed 4 x Motor HP rating. If it exceeds this amount it should be divided by 4 and the result used in the selection table instead of the Motor HP rating.

**Step 2: Determine Reducer Size** - See the Easy Selection Tables, pages G1-12- G1-34. From Class I, II or III Table, find the reducer size for the application horsepower and output speed.

**Note:** For applications where fan cooling is acceptable, use the Easy Selection tables with an increased Class of Service number. Where more than one reducer selection is listed, the most economical ratio is generally listed first.

See Engineering/Technical pages for maximum input speed, output speed, and thrust capacity ratings for TA II reducers.

**Step 3: Compare Hollow Shaft Bore** with the size of the driven shaft. All DODGE TA II Taper Bushed reducers require bushings to mount reducer to driven shaft. Refer to reducer pages for available bushings. If the driven shaft is larger than the bore of the selected reducers, the shaft must be machined to the proper size, or select a larger reducer. Check driven shaft and key for strength.

**Step 4: Check Dimensions -** See Selection/ Dimension pages for reducer dimensions, weights, part numbers and Torque-Arm rod mounting positions. See Engineering/ Technical pages for reducer mounting positions.

**Step 5: Select a Belt Drive Arrangement** - From the Sheave ratio information, pages G1-125 thru G1-126, select a sheave ratio for the belt drive. The reducer sheave P.D., Pitch Diameter, should not be smaller than the minimum sheave diameter shown in the selection tables. Note: Mount the sheave as close as possible to the reducer to minimize the effect of overhung load on the reducer.

See DODGE Drives Components catalog to select sheaves, bushings and belts for the appropriate belt drive.

**Step- 6: Select Accessories** - See Selection/Dimensions pages for description, dimensions, weights and part numbers for accessories for the TA II reducer selected:

**Rod Assembly Bushing Kit Motor Mount**
**Cooling Fan Backstop Assembly Belt Guard**
**Screw Conveyor Adapter Filter Breather**
**Drive Shaft Adjustable Packing Kit**
**Vertical Breather Kit**

# EASY SELECTION

## TORQUE-ARM II Shaft Mount Speed Reducers

### Easy Selection Method (For Electric Motors) For TORQUE-ARM II Reducer And Screw Conveyor Drive Reducer Applications

**NOTE: IMPORTANT INFORMATION**

TA II reducers are stocked without a Torque-Arm Rod Assembly. Order a TA Rod Assembly as a separate item.

TA II reducers are shipped without oil. They must be lubricated at time of installation.

TA II reducers are suitable, from stock, for vertical or incline mounting and flange mounting; no reducer modification is required. See accessories for vertical breather kit.

TA II Backstop - For best life, select reducer gear ratios which exceed input shaft speeds required for backstop sprag lift-off. See page G1-129 for Backstop Lift-off speeds.

**WARNING:** Backstops are not recommended for applications involving energy absorption and shock or torque loads in excess of reducer ratings or on applications such as chair lift, amusement rides, etc., where the safety of persons or property is dependent on their function. On such applications, other safety devices should be provided.

**Note:** The TA II reducer has built-in auxiliary sealing which gives extra seal protection for all environments, at no additional cost to the user. See the Feature/Benefits pages for details.

**Example: Easy Selection method for TORQUE-ARM II Reducers - Shaft Mount and Screw Conveyor Drive**

**Shaft Mount Reducer Application:**

A 10 HP 1750 RPM motor is used to drive a belt conveyor moving sand at 70 RPM. The conveyor is uniformly loaded and operates 16 hours per day. The head pulley shaft diameter is 2-3/16". The user specifications call for a means of holding the conveyor from moving backwards.

**Step 1: Determine Class of Service** - From Table 1 on page G1-12 locate the appropriate application, "belt conveyors, uniformly loaded or fed" for over 10 hours per day. This load is classified as a Class II application.

**Step 2: Determine Reducer Size** - From Class II Selection, page G1-22, find the column for10 HP and read down to 70 RPM. A reducer size TA3203H25 or TA3203H15 reducer is the correct selection. See Engineering/Technical pages to compare input and output speed and overhung load application requirements with reducer ratings.

**Step 3: Compare Hollow Shaft Bore** of a size TA3203H25 or TA3203H15 with the head pulley shaft diameter. Per page G1-60, 2-3/16" is the maximum bore available for this size of reducer. It will work in this application. Be sure to check the driven shaft and key for strength.

**Step 4: Check Dimensions and Weights** -See Selection/Dimension pages for reducer dimensions, weights, part numbers and other pertinent drive dimensions, as well as information on TORQUE-ARM rod mounting positions. See Engineering/Technical pages for information on reducer mounting positions.

**Step 5: Select a Belt Drive** - From the Sheave Ratio information, pagesG1-125 thru G1-126, select a belt drive ratio for the conveyor speed of 70 RPM. Then select a belt drive, from the DODGE Drive components catalog, that meets the customer's needs (service factor, minimum number of belts) and preferences (belt style, bushing mounting style, etc.) The sheave diameters must not be smaller than the minimum diameters shown in the selection tables.

**Step 6: Select Accessories** - See Selection/Dimensions pages to pick out accessories for this application:

**TA3203BS Backstop Assembly,** to hold the conveyor from moving backwards

**TA3203MM Motor Mount Assembly**, for top mounting the motor to the reducer.

**TA3203BG - Pos. B Belt Guard,** to cover and protect the rotating belt drive.

# TORQUE-ARM II Shaft Mount Speed Reducers

## Easy Selection Method (For Electric Motors) For TORQUE-ARM II Reducer And Screw Conveyor Drive Reducer Applications

**Example: Easy Selection method for TORQUE-ARM II Reducers - Shaft Mount and Screw Conveyor Drive**

**Screw Conveyor Drive Reducer Application:**

A 5 HP 1750 RPM motor is used to drive a heavy duty screw conveyor moving at 72 RPM. The conveyor runs 10 hours per day in a local feed mill conveying grain. The user needs a reducer drive compatible with a CEMA 12" diameter screw and a 2-7/16" diameter drive shaft.

**Step 1: Determine Class of Service** - From Table 1 page G1-12, locate the appropriate application, "conveyors, general purpose; screw conveyor - heavy duty, not uniformly loaded" for 3 to 10 hours per day. This load is classified as a Class II application.

**Step 2: Determine Reducer Size** - From Class II Selection Table, page G1-22, find the column for 5 HP and read down to 72 RPM. A TA1107H25 reducer is the correct selection. See Engineering/Technical pages to compare input and output speed and overhung load application requirements with reducer ratings.

**Step 3: Check Dimensions** - See Selection/Dimensions pages for reducer dimensions, weights, part numbers and other pertinent drive dimensions. See Engineering/Technical pages for information on reducer mounting positions.

**Step 4: Select Drive Shaft to fit screw diameter.** See Selection/Dimension page G1-40. Here we verify that a 2-7/16" diameter drive shaft is compatible with a 12" diameter screw.

**Step 5: Select a Belt Drive** - From the Sheave Ratio information, pages G1-125 thru G1-126, select a belt drive ratio for the screw conveyor speed of 72 RPM. Then select a belt drive, from the DODGE Drive Components catalog, that meets the customer's needs (service factor, minimum number of belts) and preferences (belt style, bushing mounting style, etc.) The sheave diameters must not be smaller than the minimum diameters shown in the selection tables.

**Step 6: Select Accessories** - See Selection/Dimensions pages to pick out screw conveyor accessories for this application:

**TA1107SCA Adapter & Hardware Kit,** to mount reducer to trough end of screw conveyor.

**TA1107SCP Adjustable Packing Kit,** to add additional sealing protection to reducer drive.

**TA1107MM Motor Mount Assembly,** for top mounting of motor to the reducer.

**TA1107BG-Pos. C Belt Guard,** to cover and protect the rotating belt drive.

**TA1107SCS X 2-7/16" Drive Shaft,** to connect the reducer to the screw conveyor.

# TORQUE-ARM II Shaft Mount Speed Reducers

## Table 1: Application Classification And Class Numbers

| Application | Class Numbers | |
|---|---|---|
| | 3 to 10 Hrs per Day | Over 10 Hrs per Day |
| AGITATORS (Mixers) | | |
| Pure Liquids | I | II |
| Liquids and Solids | II | II |
| Liquids-Variable Density | II | II |
| BLOWERS | | |
| Centrifugal | I | II |
| Lobe | II | II |
| Vane | II | II |
| BREWING AND DISTILLING | | |
| Bottling Machinery | I | II |
| Brew Kettles-Continuous Duty | II | II |
| Cookers-Continuous Duty | II | II |
| Mash Tubs-Continuous Duty | II | II |
| Scale Hopper-Frequent Starts | II | II |
| CAN FILLING MACHINES | I | II |
| CAR DUMPERS | III | III |
| CAR PULLERS | II | II |
| CLARIFIERS | I | II |
| CLASSIFIERS | II | II |
| CLAY WORKING MACHINERY | III | III |
| Brick Press | III | III |
| Briquette Machine | II | II |
| Pug Mill | | |
| COMPACTORS | ★ | ★ |
| COMPRESSORS | | |
| Centrifugal | I | II |
| Lobe | II | II |
| Reciprocating, Multi-Cylinder | II | III |
| Reciprocating, Single-Cylinder | III | III |
| CONVEYORS-GENERAL PURPOSE | | |
| Includes Apron, Assembly, Belt, Bucket, Chain, Flight, Oven and Screw | | |
| Uniformly Loaded or Fed | I | II |
| Heavy Duty-Not Uniformly Fed | II | II |
| Severe Duty-Reciprocating or Shaker | III | III |
| CRANES | ★ | ★ |
| CRUSHER | | |
| Stone or Ore | III | III |
| DREDGES | | |
| Cable Reels | II | II |
| Conveyors | II | II |
| Cutter Head Drives | III | III |
| Pumps | III | III |
| Screen Drives | III | III |
| Stackers | II | II |
| Winches | II | II |
| ELEVATORS | | |
| Bucket | II | II |
| Centrifugal Discharge | I | II |
| Escalators | I | II |
| Freight | II | II |
| Gravity Discharge | I | II |
| EXTRUDERS | | |
| General | II | II |
| Plastics | | |

| Application | Class Numbers | |
|---|---|---|
| | 3 to 10 Hrs per Day | Over 10 Hrs per Day |
| EXTRUDERS (cont) | | |
| Variable Speed Drive | III | III |
| Fixed Speed Drive | III | III |
| Rubber | | |
| Continuous Screw Operation | III | III |
| Intermittent Screw Operation | III | III |
| FANS | | |
| Centrifugal | I | II |
| Forced Draft | II | II |
| Induced Draft | II | II |
| Industrial & Mine | II | II |
| FEEDERS | | |
| Apron | II | II |
| Belt | II | II |
| Disc | I | II |
| Reciprocating | III | III |
| Screw | II | II |
| FOOD INDUSTRY | I | II |
| Cereal Cooker | II | II |
| Dough Mixer | II | II |
| Meat Grinders | II | II |
| Slicers | | |
| GENERATORS AND EXCITERS | II | II |
| HAMMER MILLS | III | III |
| HOISTS | ★ | ★ |
| LAUNDRY TUMBLERS | II | II |
| LAUNDRY WASHERS | II | III |
| LUMBER INDUSTRY | | |
| Barkers | | |
| Spindle Feed | II | II |
| Main Drive | III | III |
| Conveyors | | |
| Burner | II | II |
| Main or Heavy Duty | II | II |
| Main Log | III | III |
| Re-saw, Merry-Go-Round | II | II |
| Slab | III | III |
| Transfer | II | II |
| Chains | | |
| Floor | II | II |
| Green | II | III |
| Cut-Off Saws | | |
| Chain | II | III |
| Drag | II | III |
| Debarking Drums | III | III |
| Feeds | | |
| Edger | II | II |
| Gang | III | III |
| Trimmer | II | II |
| Log Deck | III | III |
| Log Hauls-Incline-Well Type | III | III |
| Log Tuning Devices | III | III |
| Planer Feed | II | II |
| Planer Tilting Hoists | II | II |
| Rolls-Live-off brg.- Roll Cases | III | III |
| Sorting Table | II | II |
| Triple Hoist | II | II |

★ Consult DODGE for more information on class number

# TORQUE-ARM II Shaft Mount Speed Reducers

## Table 1: Application Classification And Class Numbers

| Application | Class Numbers | |
|---|---|---|
| | 3 to 10 Hrs per Day | Over 10 Hrs per Day |
| LUMBER INDUSTRY (cont) | | |
| Transfers | | |
| Chain | II | III |
| Craneway | II | III |
| Tray Drives | II | II |
| Veneer Lathe Drives | II | II |
| METAL MILLS | | |
| Draw bench Carriage and Main Drive | II | II |
| Runout Table | | |
| Non-Reversing | | |
| Group Drives | III | II |
| Individual Drives | III | III |
| Reversing | II | III |
| Slab Pushers | III | II |
| Shears | II | III |
| Wire Drawing | II | II |
| Wire Winding Machine | II | II |
| METAL STRIP PROCESSING MACHINERY | | |
| Bridles | II | II |
| Coilers & Uncoliers | I | II |
| Edge Trimmers | II | II |
| Flatteners | II | II |
| Loopers (Accumulators) | I | I |
| Pinch Rolls | II | II |
| Scrap Choppers | II | II |
| Shears | III | III |
| Slitters | II | II |
| MILLS, ROTARY TYPE | | |
| Ball & Rod | | |
| Spur Ring Gear | III | III |
| Helical Ring Gear | II | II |
| Direct Connected | III | III |
| Cement Kilns | II | II |
| Dryers & Coolers | II | II |
| MIXERS, CEMENT | II | II |
| PAPER MILLS | | |
| Agitator (Mixer) | II | II |
| Agitator for Pure Liquors | II | II |
| Barking Drums | III | III |
| Barkers-Mechanical | III | III |
| Beater | II | II |
| Breaker Stack | II | II |
| Chipper | III | III |
| Chip Feeder | II | II |
| Coating Rolls | II | II |
| Conveyors | | |
| Chip, Bark, Chemical | II | |
| Log (including Slab) | III | |
| Couch Rolls | II | |
| Cutter | III | |
| Cylinder Molds | II | |
| Embosser | II | |
| Extruder | II | |
| Fourdrinier Rolls (includes Lump | | |
| breaker, dandy roll, wire | II | II |
| turning, and return rolls) | II | II |

| Application | Class Numbers | |
|---|---|---|
| | 3 to 10 Hrs per Day | Over 10 Hrs per Day |
| PAPER MILLS (cont) | | |
| Jordan | II | II |
| Kiln Drive | II | II |
| Mt. Hope Roll | II | II |
| Paper Rolls | II | II |
| Platter | II | II |
| Presses-Felt & Suction | III | III |
| Pulper | II | II |
| Pumps-Vacuum | II | II |
| Reel (Surface Type) | | |
| Screens | | |
| Chip | II | II |
| Rotary | II | II |
| Vibrating | III | III |
| Size Press | II | II |
| Thickener (AC Motor) | II | II |
| (DC Motor) | II | II |
| Washer (AC Motor) | II | II |
| (DC Motor) | II | II |
| Wind and Unwind Stand | I | I |
| Winders (Surface Type) | II | II |
| PLASTICS INDUSTRY-SECONDARY | | |
| PROCESSING | II | II |
| Blow Molders | II | II |
| Coating | II | II |
| Film | II | II |
| Pipe | II | II |
| Pre-Plasticizers | II | II |
| Rods | II | II |
| Sheet | II | II |
| Tubing | | |
| PULLERS-BARGE HAUL | II | II |
| PUMPS | | |
| Centrifugal | I | II |
| Proportioning | II | II |
| Reciprocating | | |
| Single Acting, 3 or more cylinders | II | II |
| Double Acting, 2 or more cylinders | II | II |
| Rotary | | |
| Gear Type | I | II |
| Lobe | I | II |
| Vane | I | II |
| RUBBER AND PLASTICS INDUSTRY | | |
| Intensive Internal Mixers | III | III |
| Batch Mixers | II | II |
| Continuous Mixers | | |
| Mixing Mill | | |
| 2 smooth rolls | II | II |
| 1 or 2 corrugated rolls | III | III |
| Batch Drop Mill - 2 smooth rolls | II | II |
| Cracker Warmer - 2 roll, 1 corrugated roll | III | III |
| Cracker-2 corrugated rolls | III | III |
| Holding, Feed & Blend Mill-2 rolls | II | II |
| Refiner-2 rolls | II | II |
| Calenders | II | II |
| SAND MULLER | II | II |

# TORQUE-ARM II Shaft Mount Speed Reducers

## Table 1: Application Classification And Class Numbers

| Application | Class Numbers | |
|---|---|---|
| | 3 to 10 Hrs per Day | Over 10 Hrs per Day |
| SEWAGE DISPOSAL EQUIPMENT | | |
| Bar Screens | II | II |
| Chemical Feeders | II | II |
| Dewatering Screens | II | II |
| Scum Breakers | II | II |
| Slow or Rapid Mixers | II | II |
| Sludge Collectors | II | II |
| Thickener | II | II |
| Vacuum Filters | II | II |
| SCREENS | | |
| Air Washing | I | II |
| Rotary-Stone or Gravel | II | II |
| Traveling Water Intake | I | I |
| SCREW CONVEYORS | | |
| Uniformly Loaded or Fed | I | II |
| Heavy Duty | II | II |
| SUGAR INDUSTRY | | |
| Beet Slicer | III | III |
| Cane knives | II | II |
| Crushers | II | II |
| Mills (low speed end) | III | III |

| Application | Class Numbers | |
|---|---|---|
| | 3 to 10 Hrs per Day | Over 10 Hrs per Day |
| TEXTILE INDUSTRY | | |
| Batchers | II | II |
| Calenders | II | II |
| Cards | II | II |
| Dry Cans | II | II |
| Dyeing Machinery | II | II |
| Looms | II | II |
| Mangles | II | II |
| Nappers | II | II |
| Pads | II | II |
| Stashers | II | II |
| Soapers | II | II |
| Spinners | II | II |
| Tenter Frames | II | II |
| Washers | II | II |
| Winders | II | II |

# TORQUE-ARM II Shaft Mount Speed Reducers

## Class I Selections ★ (SF = 1.0)

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 1/4 | 4-50 | TA0107L31 | 4.0 | --- |
| | | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 51-80 | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 81-89 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.3 | --- |
| | 90-120 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.2 | --- |
| | | TA0107L05 | 9.2 | --- |
| | 121-200 | TA0107L09 | 5.0 | --- |
| | | TA0107L05 | 8.3 | --- |
| | 201-400 | TA0107L05 | 6.9 | --- |
| 1/3 | 4 | TA1107H31 | 5.0 | --- |
| | | TA1107H25 | 6.4 | --- |
| | | TA1107H15 | 5.5 | --- |
| | 5-50 | TA0107L31 | 4.0 | --- |
| | | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 51-80 | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 81-89 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.3 | --- |
| | 90-120 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.2 | --- |
| | | TA0107L05 | 9.2 | --- |
| | 121-200 | TA0107L09 | 5.0 | --- |
| | | TA0107L05 | 8.3 | --- |
| | 201-400 | TA0107L05 | 6.9 | --- |
| 1/2 | 4 | TA2115H33 | 3.7 | --- |
| | | TA2115H25 | 3.3 | --- |
| | | TA2115H15 | 3.3 | --- |
| | 5-7 | TA1107H31 | 5.0 | --- |
| | | TA1107H25 | 6.4 | --- |
| | | TA1107H15 | 5.5 | --- |
| | 8-50 | TA0107L31 | 4.0 | --- |
| | | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 51-80 | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 81-89 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.3 | --- |
| | 90-120 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.2 | --- |
| | | TA0107L05 | 9.2 | --- |
| | 121-200 | TA0107L09 | 5.0 | --- |
| | | TA0107L05 | 8.3 | --- |
| | 201-400 | TA0107L05 | 6.9 | --- |

★ See Page G1-132 for lubrication for 15 RPM and slower

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 3/4 | 4-6 | TA2115H33 | 3.7 | --- |
| | | TA2115H25 | 3.3 | --- |
| | | TA2115H15 | 3.3 | --- |
| | 7-11 | TA1107H31 | 5.0 | --- |
| | | TA1107H25 | 6.4 | --- |
| | | TA1107H15 | 5.5 | --- |
| | 12-50 | TA0107L31 | 4.0 | --- |
| | | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 51-80 | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 81-89 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.3 | --- |
| | 90-120 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.2 | --- |
| | | TA0107L05 | 9.2 | --- |
| | 121-200 | TA0107L09 | 5.0 | --- |
| | | TA0107L05 | 8.3 | --- |
| | 201-400 | TA0107L05 | 6.9 | --- |
| 1 | 4-5 | TA3203H32 | 4.6 | --- |
| | | TA3203H25 | 4.6 | --- |
| | | TA3203H15 | 4.6 | --- |
| | 6-8 | TA2115H33 | 3.7 | --- |
| | | TA2115H25 | 3.3 | --- |
| | | TA2115H15 | 3.3 | --- |
| | 9-15 | TA1107H31 | 5.0 | --- |
| | | TA1107H25 | 6.4 | --- |
| | | TA1107H15 | 5.5 | --- |
| | 16-50 | TA0107L31 | 4.0 | --- |
| | | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 51-80 | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 81-89 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.3 | --- |
| | 90-120 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.2 | --- |
| | | TA0107L05 | 9.2 | --- |
| | 121-200 | TA0107L09 | 5.0 | --- |
| | | TA0107L05 | 8.3 | --- |
| | 201-400 | TA0107L05 | 6.9 | --- |
| 1-1/2 | 4-5 | TA4207H40 | 5.0 | --- |
| | | TA4207H25 | 5.5 | --- |
| | | TA4207H15 | 8.1 | --- |
| | 6-7 | TA3203H32 | 4.6 | --- |
| | | TA3203H25 | 4.6 | --- |
| | | TA3203H15 | 4.6 | --- |
| | 8-12 | TA2115H33 | 3.7 | --- |
| | | TA2115H25 | 3.3 | --- |
| | | TA2115H15 | 3.3 | --- |

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 1-1/2 (cont) | 13-23 | TA1107H31 | 4.9 | --- |
| | | TA1107H25 | 6.2 | --- |
| | | TA1107H15 | 5.5 | --- |
| | 24-50 | TA0107L31 | 4.0 | --- |
| | | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 51-80 | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 81-89 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.3 | --- |
| | 90-120 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.2 | --- |
| | | TA0107L05 | 9.2 | --- |
| | 121-200 | TA0107L09 | 5.0 | --- |
| | | TA0107L05 | 8.3 | --- |
| | 201-400 | TA0107L05 | 6.9 | --- |
| 2 | 4 | TA5215H40 | 6.8 | --- |
| | | TA5215H25 | 6.1 | --- |
| | | TA5215H15 | 7.1 | --- |
| | 5-6 | TA4207H40 | 5.0 | --- |
| | | TA4207H25 | 5.5 | --- |
| | | TA4207H15 | 8.1 | --- |
| | 7-10 | TA3203H32 | 4.6 | --- |
| | | TA3203H25 | 4.6 | --- |
| | | TA3203H15 | 4.6 | --- |
| | 11-16 | TA2115H33 | 3.7 | --- |
| | | TA2115H25 | 3.3 | --- |
| | | TA2115H15 | 3.3 | --- |
| | 17 | TA1107H31 | 4.8 | --- |
| | | TA2115H25 | 3.3 | --- |
| | | TA1107H15 | 5.4 | --- |
| | 18-32 | TA1107H31 | 4.8 | --- |
| | | TA1107H25 | 5.9 | --- |
| | | TA1107H15 | 5.3 | --- |
| | 33-50 | TA0107L31 | 4.0 | --- |
| | | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 51-80 | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 81-89 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.3 | --- |
| | 90-120 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.2 | --- |
| | | TA0107L05 | 9.2 | --- |
| | 121-200 | TA0107L09 | 5.0 | --- |
| | | TA0107L05 | 8.3 | --- |
| | 201-400 | TA0107L05 | 6.9 | |

# SELECTION

DODGE®

## TORQUE-ARM II Shaft Mount Speed Reducers

### Class I Selections ★ (SF = 1.0)

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 3 | 4-6 | TA5215H40 | 6.8 | --- |
| | | TA5215H25 | 6.1 | --- |
| | | TA5215H15 | 7.1 | --- |
| | 7-10 | TA4207H40 | 5.0 | --- |
| | | TA4207H25 | 5.5 | --- |
| | | TA4207H15 | 8.1 | --- |
| | 11-15 | TA3203H32 | 4.6 | --- |
| | | TA3203H25 | 4.6 | --- |
| | | TA3203H15 | 4.6 | --- |
| | 16-26 | TA2115H33 | 3.7 | --- |
| | | TA2115H25 | 3.3 | --- |
| | | TA2115H15 | 3.2 | --- |
| | 27-50 | TA1107H31 | 4.6 | --- |
| | | TA1107H25 | 5.7 | --- |
| | | TA1107H15 | 5.2 | --- |
| | 51-80 | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 81-89 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.3 | --- |
| | 90-120 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.2 | --- |
| | | TA0107L05 | 9.2 | --- |
| | 121-200 | TA0107L09 | 5.0 | --- |
| | | TA0107L05 | 8.3 | --- |
| | 201-400 | TA0107L05 | 6.9 | |
| 5 | 4 | TA7315H40 | 6.2 | --- |
| | | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| | 5-6 | TA6307H40 | 6.3 | --- |
| | | TA6307H25 | 6.3 | --- |
| | | TA6307H15 | 6.4 | --- |
| | 7-10 | TA5215H40 | 6.8 | --- |
| | | TA5215H25 | 6.1 | --- |
| | | TA5215H15 | 7.1 | --- |
| | 11-16 | TA4207H40 | 5.0 | --- |
| | | TA4207H25 | 5.5 | --- |
| | | TA4207H15 | 8.1 | --- |
| | 17-25 | TA3203H32 | 4.4 | --- |
| | | TA3203H25 | 4.5 | --- |
| | | TA3203H15 | 4.5 | --- |
| | 26 | TA3203H32 | 4.2 | --- |
| | | TA2115H25 | 3.2 | --- |
| | | TA2115H15 | 3.1 | --- |
| | 27-46 | TA2115H33 | 3.6 | --- |
| | | TA2115H25 | 3.2 | --- |
| | | TA2115H15 | 3.1 | --- |

★ See Page G1-132 for lubrication for 15 RPM and slower

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 5 (cont) | 47-50 | TA1107H31 | 4.4 | --- |
| | | TA1107H25 | 5.4 | --- |
| | | TA1107H15 | 4.9 | --- |
| | 51-80 | TA1107H25 | 5.4 | --- |
| | | TA1107H15 | 4.9 | --- |
| | 81-89 | TA1107H15 | 4.6 | --- |
| | | TA1107H09 | 7.7 | --- |
| | 90-120 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.2 | --- |
| | | TA0107L05 | 9.2 | --- |
| | 121-200 | TA0107L09 | 5.0 | --- |
| | | TA0107L05 | 8.3 | --- |
| | 201-400 | TA0107L05 | 6.9 | |
| 7-1/2 | 4 | TA8407H40 | 6.2 | --- |
| | | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 6.2 | --- |
| | 5-6 | TA7315H40 | 6.2 | --- |
| | | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| | 7-9 | TA6307H40 | 6.3 | --- |
| | | TA6307H25 | 6.3 | --- |
| | | TA6307H15 | 6.4 | --- |
| | 10-15 | TA5215H40 | 6.8 | --- |
| | | TA5215H25 | 6.1 | --- |
| | | TA5215H15 | 7.1 | --- |
| | 16-25 | TA4207H40 | 4.8 | --- |
| | | TA4207H25 | 5.4 | --- |
| | | TA4207H15 | 7.9 | --- |
| | 26-39 | TA3203H32 | 4.2 | --- |
| | | TA3203H25 | 4.4 | --- |
| | | TA3203H15 | 4.4 | --- |
| | 40-50 | TA2115H33 | 3.2 | --- |
| | | TA2115H25 | 3.1 | --- |
| | | TA2115H15 | 3.2 | --- |
| | 51-72 | TA2115H25 | 3.1 | --- |
| | | TA2115H15 | 3.6 | --- |
| | 73-80 | TA1107H25 | 5.2 | --- |
| | | TA1107H15 | 4.7 | --- |
| | 81-89 | TA1107H15 | 4.6 | --- |
| | | TA1107H09 | 7.7 | --- |
| | 90-120 | TA1107H15 | 4.6 | --- |
| | | TA1107H09 | 7.5 | --- |
| | | TA1107H05 | 12.5 | --- |
| | 121-145 | TA1107H09 | 7.1 | --- |
| | | TA1107H05 | 11.2 | --- |
| | 146-163 | TA0107L09 | 4.8 | --- |
| | | TA1107H05 | 10.3 | --- |
| | 164-200 | TA0107L09 | 4.7 | --- |
| | | TA0107L05 | 7.4 | --- |
| | 201-400 | TA0107L05 | 6.9 | |

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 10 | 4 | TA9415H40 | 8.0 | --- |
| | | TA9415H25 | 8.0 | --- |
| | | TA9415H15 | 10.2 | --- |
| | 5 | TA8407H40 | 6.2 | --- |
| | | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 6.2 | --- |
| | 6-8 | TA7315H40 | 6.2 | --- |
| | | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| | 9-12 | TA6307H40 | 6.3 | --- |
| | | TA6307H25 | 6.3 | --- |
| | | TA6307H15 | 6.4 | --- |
| | 13-20 | TA5215H40 | 6.7 | --- |
| | | TA5215H25 | 6.0 | --- |
| | | TA5215H15 | 7.0 | --- |
| | 21-32 | TA4207H40 | 4.7 | --- |
| | | TA4207H25 | 5.2 | --- |
| | | TA4207H15 | 7.7 | --- |
| | 34-50 | TA3203H32 | 4.1 | --- |
| | | TA3203H25 | 4.3 | --- |
| | | TA3203H15 | 4.3 | --- |
| | 51-55 | TA3203H25 | 4.2 | --- |
| | | TA3203H15 | 4.2 | --- |
| | 56-80 | TA2115H25 | 3.1 | --- |
| | | TA2115H15 | 3.6 | --- |
| | 81-89 | TA2115H15 | 3.7 | --- |
| | | TA2115H09 | 6.1 | --- |
| | 90-100 | TA2115H15 | 3.7 | --- |
| | | TA2115H09 | 6.2 | --- |
| | | TA2115H05 | 6.5 | --- |
| | 101 | TA1107H15 | 4.5 | --- |
| | | TA2115H09 | 6.2 | --- |
| | | TA2115H05 | 6.5 | --- |
| | 102-118 | TA1107H15 | 4.5 | --- |
| | | TA1107H09 | 7.4 | --- |
| | | TA2115H05 | 6.6 | --- |
| | 119-120 | TA1107H15 | 4.4 | --- |
| | | TA1107H09 | 7.1 | --- |
| | | TA1107H05 | 11.2 | --- |
| | 121-200 | TA1107H09 | 7.1 | --- |
| | | TA1107H05 | 11.2 | --- |
| | 201-276 | TA1107H05 | 9.1 | --- |
| | 277-400 | TA0107L05 | 5.8 | --- |
| 15 | 4 | TA10507H40 | 8.5 | --- |
| | | TA10507H25 | 8.5 | --- |
| | | TA10507H15 | 10.8 | --- |
| | 5-6 | TA9415H40 | 8.0 | --- |
| | | TA9415H25 | 8.0 | --- |
| | | TA9415H15 | 10.2 | --- |

# TORQUE-ARM II Shaft Mount Speed Reducers

## Class I Selections ★ (SF = 1.0)

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 15 (cont) | 7-8 | TA8407H40 | 6.2 | --- |
| | | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 6.2 | --- |
| | 9-13 | TA7315H40 | 6.2 | --- |
| | | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| | 14-18 | TA6307H40 | 6.3 | --- |
| | | TA6307H25 | 6.3 | --- |
| | | TA6307H15 | 6.3 | --- |
| | 19-32 | TA5215H40 | 6.5 | --- |
| | | TA5215H25 | 5.9 | --- |
| | | TA5215H15 | 6.8 | --- |
| | 33-50 | TA4207H40 | 4.5 | --- |
| | | TA4207H25 | 5.0 | --- |
| | | TA4207H15 | 7.3 | --- |
| | 51-53 | TA4207H25 | 4.7 | --- |
| | | TA4207H15 | 6.8 | --- |
| | 54-80 | TA3203H25 | 4.1 | --- |
| | | TA3203H15 | 4.2 | --- |
| | 81-89 | TA3203H15 | 4.0 | --- |
| | | TA3203H09 | 5.2 | --- |
| | 90-92 | TA3203H15 | 4.0 | --- |
| | | TA3203H09 | 5.3 | --- |
| | | TA3203H05 | 11.0 | --- |
| | 93-120 | TA2115H15 | 3.7 | --- |
| | | TA2115H09 | 6.2 | --- |
| | | TA3203H05 | 10.4 | --- |
| | 121-143 | TA2115H09 | 6.1 | --- |
| | | TA3203H05 | 7.7 | --- |
| | 144-200 | TA2115H09 | 6.5 | --- |
| | | TA2115H05 | 6.4 | --- |
| | 201-400 | TA2115H05 | 6.0 | --- |
| 20 | 4 | TA12608H40 | 17.2 | --- |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 13.7 | --- |
| | 5-6 | TA10507H40 | 8.5 | --- |
| | | TA10507H25 | 8.5 | --- |
| | | TA10507H15 | 10.8 | --- |
| | 7-8 | TA9415H40 | 8.0 | --- |
| | | TA9415H25 | 8.0 | --- |
| | | TA9415H15 | 10.2 | --- |
| | 9-11 | TA8407H40 | 6.2 | --- |
| | | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 6.2 | --- |
| | 12-18 | TA7315H40 | 6.2 | --- |
| | | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |

★ See Page G1-132 for lubrication for 15 RPM and slower

† See page G2-68 and G2-69 for information on TDT1425 and TDT1530 Reducers

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 20 (cont) | 19-25 | TA6307H40 | 6.3 | --- |
| | | TA6307H25 | 6.3 | --- |
| | | TA6307H15 | 6.3 | --- |
| | 26-45 | TA5215H40 | 6.4 | --- |
| | | TA5215H25 | 5.7 | --- |
| | | TA5215H15 | 6.7 | --- |
| | 46-50 | TA4207H40 | 4.3 | --- |
| | | TA4207H25 | 4.7 | --- |
| | | TA4207H15 | 7.0 | --- |
| | 51-75 | TA4207H25 | 4.7 | --- |
| | | TA4207H15 | 6.8 | --- |
| | 76-80 | TA4207H25 | 4.4 | --- |
| | | TA3203H15 | 4.1 | --- |
| | 81-89 | TA3203H15 | 4.0 | --- |
| | | TA3203H09 | 5.2 | --- |
| | 90-103 | TA3203H15 | 4.0 | --- |
| | | TA3203H09 | 5.4 | --- |
| | | TA4207H05 | 9.9 | --- |
| | 104-105 | TA4207H15 | 6.1 | --- |
| | | TA3203H09 | 5.4 | --- |
| | | TA4207H05 | 9.6 | --- |
| | 106-120 | TA4207H15 | 6.1 | --- |
| | | TA3203H09 | 5.6 | --- |
| | | TA3203H05 | 8.6 | --- |
| | 121-141 | TA3203H09 | 5.7 | --- |
| | | TA3203H05 | 7.7 | --- |
| | 142-200 | TA2115H09 | 6.5 | --- |
| | | TA3203H05 | 7.2 | --- |
| | 201-238 | TA3203H05 | 7.0 | --- |
| | 239-400 | TA2115H05 | 5.7 | --- |
| 25 | 4 | TDT1425 † | 15.0 | --- |
| | 5 | TA12608H40 | 17.2 | --- |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 13.7 | --- |
| | 6-7 | TA10507H40 | 8.5 | --- |
| | | TA10507H25 | 8.5 | --- |
| | | TA10507H15 | 10.8 | --- |
| | 8-10 | TA9415H40 | 8.0 | --- |
| | | TA9415H25 | 8.0 | --- |
| | | TA9415H15 | 10.2 | --- |
| | 11-15 | TA8407H40 | 6.2 | --- |
| | | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 6.2 | --- |
| | 16-23 | TA7315H40 | 6.2 | --- |
| | | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| | 24-32 | TA6307H40 | 6.3 | --- |
| | | TA6307H25 | 6.3 | --- |
| | | TA6307H15 | 6.3 | --- |

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 25 (cont) | 33-50 | TA5215H40 | 6.3 | --- |
| | | TA5215H25 | 5.6 | --- |
| | | TA5215H15 | 6.5 | --- |
| | 51-58 | TA5215H25 | 5.4 | --- |
| | | TA5215H15 | 6.3 | --- |
| | 59-80 | TA4207H25 | 4.6 | --- |
| | | TA4207H15 | 6.7 | --- |
| | 81-89 | TA4207H15 | 6.4 | --- |
| | | TA4207H09 | 10.1 | --- |
| | 90-110 | TA4207H15 | 6.3 | --- |
| | | TA4207H09 | 9.9 | --- |
| | | TA5215H05 | 13.9 | --- |
| | 111-120 | TA4207H15 | 6.0 | --- |
| | | TA4207H09 | 9.4 | --- |
| | | TA4207H05 | 9.5 | --- |
| | 121-163 | TA4207H09 | 9.3 | --- |
| | | TA4207H05 | 9.3 | --- |
| | 164-200 | TA4207H09 | 8.5 | --- |
| | | TA3203H05 | 7.0 | --- |
| | 201-400 | TA3203H05 | 7.0 | --- |
| 30 | 4-5 | TDT1425 † | 15.0 | --- |
| | 6 | TA12608H40 | 17.2 | --- |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 13.7 | --- |
| | 7-9 | TA10507H40 | 8.5 | --- |
| | | TA10507H25 | 8.5 | --- |
| | | TA10507H15 | 10.8 | --- |
| | 10-12 | TA9415H40 | 8.0 | --- |
| | | TA9415H25 | 8.0 | --- |
| | | TA9415H15 | 10.3 | --- |
| | 13-18 | TA8407H40 | 6.2 | --- |
| | | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 6.2 | --- |
| | 19-28 | TA7315H40 | 6.2 | --- |
| | | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| | 29-30 | TA6307H40 | 6.3 | --- |
| | | TA6307H25 | 6.3 | --- |
| | | TA6307H15 | 6.3 | --- |
| | 31-39 | TA6307H40 | 6.2 | --- |
| | | TA6307H25 | 6.2 | --- |
| | | TA6307H15 | 6.3 | --- |
| | 40-50 | TA5215H40 | 6.2 | --- |
| | | TA5215H25 | 5.5 | --- |
| | | TA5215H15 | 6.4 | --- |
| | 51-72 | TA5215H25 | 5.4 | --- |
| | | TA5215H15 | 6.3 | --- |
| | 73-80 | TA4207H25 | 4.4 | --- |
| | | TA4207H15 | 6.5 | --- |

# SELECTION

## TORQUE-ARM II Shaft Mount Speed Reducers

### Class I Selections ⋆ (SF = 1.0)

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 30 (cont) | 81-89 | TA4207H15 | 6.4 | --- |
| | | TA4207H09 | 10.1 | --- |
| | 90-120 | TA4207H15 | 6.3 | --- |
| | | TA4207H09 | 9.9 | --- |
| | | TA5215H05 | 13.9 | --- |
| | 121-132 | TA4207H09 | 9.3 | --- |
| | | TA5215H05 | 11.8 | --- |
| | 133-200 | TA4207H09 | 9.1 | --- |
| | | TA4207H05 | 9.2 | --- |
| | 201-215 | TA4207H05 | 9.3 | --- |
| | 216-400 | TA3203H05 | 7.0 | --- |
| 40 | 4 | TDT1530 † | 15.0 | --- |
| | 5-6 | TDT1425 † | 15.0 | --- |
| | 7 | TA12608H40 | 17.2 | --- |
| | | TDT1425 † | 15.0 | --- |
| | 8 | TA12608H40 | 17.2 | --- |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 13.7 | --- |
| | 9-12 | TA10507H40 | 8.5 | --- |
| | | TA10507H25 | 8.5 | --- |
| | | TA10507H15 | 10.8 | --- |
| | 13-17 | TA9415H40 | 8.0 | --- |
| | | TA9415H25 | 8.0 | --- |
| | | TA9415H15 | 10.5 | --- |
| | 18-25 | TA8407H40 | 6.2 | --- |
| | | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 6.2 | --- |
| | 26-38 | TA7315H40 | 6.2 | --- |
| | | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| | 39-50 | TA6307H40 | 6.2 | --- |
| | | TA6307H25 | 6.2 | --- |
| | | TA6307H15 | 6.2 | --- |
| | 51-54 | TA6307H25 | 6.2 | --- |
| | | TA6307H15 | 6.2 | --- |
| | 55-80 | TA5215H25 | 5.4 | --- |
| | | TA5215H15 | 6.3 | --- |
| | 81-89 | TA5215H15 | 6.0 | --- |
| | | TA5215H09 | 9.1 | --- |
| | 90-102 | TA5215H15 | 5.7 | --- |
| | | TA5215H09 | 8.9 | --- |
| | | TA5215H05 | 13.9 | --- |
| 40 (cont) | 103-107 | TA4207H15 | 6.1 | --- |
| | | TA5215H09 | 8.6 | --- |
| | | TA5215H05 | 12.9 | --- |
| | 108-120 | TA4207H15 | 6.0 | --- |
| | | TA4207H09 | 9.5 | --- |
| | | TA5215H05 | 12.6 | --- |
| | 121-182 | TA4207H09 | 9.3 | --- |
| | | TA5215H05 | 11.8 | --- |
| | 183-185 | TA4207H09 | 8.1 | --- |
| | | TA4207H05 | 9.1 | --- |
| | 186-200 | TA4207H09 | 8.0 | --- |
| | | TA4207H05 | 9.2 | --- |
| | 201-400 | TA4207H05 | 9.8 | --- |
| 50 | 4-5 | TDT1530 † | 15.0 | --- |
| | 6-8 | TDT1425 † | 15.0 | --- |
| | 9-10 | TA12608H40 | 17.2 | --- |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 13.7 | --- |
| | 11-15 | TA10507H40 | 8.5 | --- |
| | | TA10507H25 | 8.5 | --- |
| | | TA10507H15 | 10.8 | --- |
| | 16-17 | TA9415H40 | 8.0 | Fan |
| | | TA9415H25 | 8.0 | --- |
| | | TA9415H15 | 10.5 | --- |
| | 18-21 | TA9415H40 | 8.0 | --- |
| | | TA9415H25 | 8.0 | --- |
| | | TA9415H15 | 10.7 | --- |
| | 22-27 | TA8407H40 | 6.2 | Fan |
| | | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 6.2 | --- |
| | 28-32 | TA8407H40 | 6.2 | --- |
| | | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 6.2 | --- |
| | 33-49 | TA7315H40 | 6.2 | --- |
| | | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| | 50 | TA6307H40 | 6.2 | Fan |
| | | TA6307H25 | 6.2 | --- |
| | | TA6307H15 | 6.2 | --- |
| | 51-69 | TA6307H25 | 6.2 | --- |
| | | TA6307H15 | 6.2 | --- |
| | 70-80 | TA5215H25 | 5.3 | Fan |
| | | TA5215H15 | 6.1 | --- |
| | 81-89 | TA5215H15 | 6.0 | --- |
| | | TA5215H09 | 9.1 | --- |
| | 90-93 | TA5215H15 | 5.7 | --- |
| | | TA5215H09 | 8.9 | --- |
| | | TA6307H05 | 15.1 | --- |
| 50 (cont) | 94-120 | TA5215H15 | 5.6 | --- |
| | | TA5215H09 | 8.8 | --- |
| | | TA5215H05 | 13.6 | --- |
| | 121-144 | TA5215H09 | 8.3 | --- |
| | | TA5215H05 | 11.8 | --- |
| | 145-200 | TA4207H09 | 8.9 | --- |
| | | TA5215H05 | 11.2 | --- |
| | 201-242 | TA5215H05 | 9.9 | --- |
| | 243-400 | TA4207H05 | 9.7 | --- |
| 60 | 4-6 | TDT1530 † | 15.0 | --- |
| | 7-10 | TDT1425 † | 15.0 | --- |
| | 11-13 | TA12608H40 | 17.2 | --- |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 13.9 | --- |
| | 14-18 | TA10507H40 | 8.5 | --- |
| | | TA10507H25 | 8.5 | --- |
| | | TA10507H15 | 10.8 | --- |
| | 19 | TA9415H40 | 8.0 | Fan |
| | | TA9415H25 | 8.0 | Fan |
| | | TA9415H15 | 10.7 | --- |
| | 20-26 | TA9415H40 | 8.0 | Fan |
| | | TA9415H25 | 8.0 | --- |
| | | TA9415H15 | 10.8 | --- |
| | 27-30 | TA8407H40 | 6.2 | Fan |
| | | TA8407H25 | 6.2 | Fan |
| | | TA8407H15 | 6.2 | --- |
| | 31-39 | TA8407H40 | 6.2 | Fan |
| | | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 6.2 | --- |
| | 40-50 | TA7315H40 | 6.2 | Fan |
| | | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| | 51-60 | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| | 61-80 | TA6307H25 | 6.2 | --- |
| | | TA6307H15 | 6.2 | --- |
| | 81-88 | TA6307H15 | 6.3 | --- |
| | | TA6307H09 | 9.9 | --- |
| | 89 | TA5215H15 | 5.7 | Fan |
| | | TA6307H09 | 9.9 | --- |
| | 90-93 | TA5215H15 | 5.7 | --- |
| | | TA6307H09 | 10.1 | --- |
| | | TA6307H05 | 15.1 | --- |
| | 94-115 | TA5215H15 | 5.6 | --- |
| | | TA5215H09 | 8.8 | --- |
| | 116-120 | TA5215H15 | 5.1 | Fan |
| | | TA5215H09 | 8.4 | --- |
| | 121-131 | TA5215H09 | 8.3 | --- |
| | | TA6307H05 | 14.5 | --- |

* See Page G1-132 for lubrication for 15 RPM and slower

† See page G2-68 and G2-69 for information on TDT1425 and TDT1530 Reducers

# TORQUE-ARM II Shaft Mount Speed Reducers

## Class I Selections ★ (SF = 1.0)

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 60 (cont) | 132-200 | TA5215H09 | 7.9 | --- |
| | | TA5215H05 | 11.4 | --- |
| | 201-400 | TA5215H05 | 9.9 | --- |
| 75 | 5-8 | TDT1530 † | 15.0 | --- |
| | 9-13 | TDT1425 † | 15.0 | --- |
| | 14-16 | TA12608H40 | 17.1 | --- |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 14.2 | --- |
| | 17-23 | TA10507H40 | 8.5 | --- |
| | | TA10507H25 | 8.5 | --- |
| | | TA10507H15 | 10.8 | --- |
| | 24-33 | TA9415H40 | 8.0 | Fan |
| | | TA9415H25 | 8.0 | Fan |
| | | TA9415H15 | 10.8 | --- |
| | 34-37 | TA8407H40 | 6.2 | Fan |
| | | TA8407H25 | 6.2 | Fan |
| | | TA8407H15 | 6.2 | Fan |
| | 38-49 | TA8407H40 | 6.2 | Fan |
| | | TA8407H25 | 6.2 | Fan |
| | | TA8407H15 | 6.2 | --- |
| | 50 | TA7315H40 | 6.2 | Fan |
| | | TA7315H25 | 6.2 | Fan |
| | | TA7315H15 | 6.2 | --- |
| | 51-77 | TA7315H25 | 6.2 | Fan |
| | | TA7315H15 | 6.2 | --- |
| | 78-80 | TA6307H25 | 6.2 | Fan |
| | | TA6307H15 | 6.2 | Fan |
| | 81-89 | TA6307H15 | 6.3 | Fan |
| | | TA6307H09 | 9.9 | Fan |
| | 90-101 | TA6307H15 | 6.5 | Fan |
| | | TA6307H09 | 10.3 | Fan |
| | | TA7315H05 | 14.8 | --- |
| | 102-120 | TA6307H15 | 6.7 | Fan |
| | | TA6307H09 | 10.8 | Fan |
| | | TA6307H05 | 15.1 | --- |
| | 121-129 | TA6307H09 | 10.8 | Fan |
| | | TA6307H05 | 14.5 | --- |
| | 130-196 | TA5215H09 | 7.9 | --- |
| | | TA6307H05 | 14.4 | --- |
| | 197-200 | TA5215H09 | 5.9 | Fan |
| | | TA6307H05 | 13.9 | --- |
| | 201-208 | TA6307H05 | 13.8 | --- |
| | 209-400 | TA5215H05 | 9.7 | --- |

* See Page G1-132 for lubrication for 15 RPM and slower

† See page G2-68 and G2-69 for information on TDT1425 and TDT1530 Reducers

P&C (Pump & Coolers) - Use the DODGE Speed Reducer auxiliary cooling package, part number 014148

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 100 | 6-11 | TDT1530 † | 15.0 | --- |
| | 12-17 | TDT1425 † | 15.0 | --- |
| | 18-19 | TA12608H40 | 17.1 | Fan |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 14.4 | --- |
| | 20-22 | TA12608H40 | 17.1 | --- |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 14.6 | --- |
| | 23-26 | TA10507H40 | 8.5 | Fan |
| | | TA10507H25 | 8.5 | Fan |
| | | TA10507H15 | 10.7 | --- |
| | 27-31 | TA10507H40 | 8.5 | Fan |
| | | TA10507H25 | 8.5 | --- |
| | | TA10507H15 | 10.6 | --- |
| | 32-46 | TA9415H40 | 8.0 | Fan |
| | | TA9415H25 | 8.0 | Fan |
| | | TA9415H15 | 10.8 | Fan |
| | 47-50 | TA8407H40 | 6.2 | Fan |
| | | TA8407H25 | 6.2 | Fan |
| | | TA8407H15 | 6.2 | Fan |
| | 51-68 | TA8407H25 | 6.2 | Fan |
| | | TA8407H15 | 7.0 | Fan |
| | 69-80 | TA7315H25 | 6.2 | Fan |
| | | TA7315H15 | 6.2 | Fan |
| | 81-110 | TA7315H15 | 6.2 | Fan |
| | | TA7315H09 | 8.5 | Fan |
| | 111 | TA6307H15 | 6.6 | Fan |
| | | TA6307H09 | 10.5 | Fan |
| | 112-120 | TA6307H15 | 6.7 | Fan |
| | | TA6307H09 | 10.8 | Fan |
| | | TA7315H05 | 13.2 | --- |
| | 121-157 | TA6307H09 | 10.9 | Fan |
| | | TA7315H05 | 12.8 | --- |
| | 158-200 | TA6307H09 | 10.9 | Fan |
| | | TA6307H05 | 14.2 | --- |
| | 201-400 | TA6307H05 | 13.8 | --- |
| 125 | 8-14 | TDT1530 † | 15.0 | --- |
| | 15-21 | TDT1425 † | 15.0 | --- |
| | 22-26 | TA12608H40 | 17.1 | Fan |
| | | TA12608H25 | 9.5 | Fan |
| | | TA12608H15 | 14.8 | Fan |
| | 27-28 | TA12608H40 | 17.1 | Fan |
| | | TA12608H25 | 9.5 | Fan |
| | | TA12608H15 | 14.9 | --- |
| | 29 | TA10507H40 | 8.5 | Fan |
| | | TA12608H25 | 9.5 | Fan |
| | | TA12608H15 | 14.9 | --- |
| | 30-40 | TA10507H40 | 8.5 | Fan |
| | | TA10507H25 | 8.5 | Fan |
| | | TA10507H15 | 10.8 | Fan |

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 125 (cont) | 41-50 | TA9415H40 | 8.0 | P&C |
| | | TA9415H25 | 8.0 | P&C |
| | | TA9415H15 | 10.8 | Fan |
| | 51-59 | TA9415H25 | 8.0 | P&C |
| | | TA9415H15 | 10.8 | Fan |
| | 60-80 | TA8407H25 | 6.2 | P&C |
| | | TA8407H15 | 7.5 | Fan |
| | 81-88 | TA8407H15 | 7.8 | Fan |
| | 89-90 | TA7315H15 | 6.2 | Fan |
| | 91-120 | TA7315H15 | 6.2 | Fan |
| | | TA7315H09 | 8.5 | Fan |
| | 121-149 | TA7315H09 | 8.6 | Fan |
| | 150-160 | TA6307H09 | 10.9 | Fan |
| | 161-200 | TA6307H09 | 10.8 | Fan |
| | | TA7315H05 | 11.9 | --- |
| | 201-225 | TA7315H05 | 11.7 | --- |
| | 226-368 | TA6307H05 | 12.8 | --- |
| | 369-400 | TA6307H05 | 10.9 | Fan |
| 150 | 9-17 | TDT1530 † | 15.0 | --- |
| | 18-26 | TDT1425 † | 15.0 | --- |
| | 27-34 | TA12608H40 | 17.1 | P&C |
| | | TA12608H25 | 9.5 | Fan |
| | | TA12608H15 | 15.1 | Fan |
| | 35-36 | TA10507H40 | 8.5 | P&C |
| | | TA12608H25 | 9.5 | Fan |
| | | TA12608H15 | 15.2 | Fan |
| | 37-49 | TA10507H40 | 8.5 | P&C |
| | | TA10507H25 | 8.5 | Fan |
| | | TA10507H15 | 11.3 | --- |
| | 50 | TA9415H40 | 8.0 | P&C |
| | | TA9415H25 | 8.0 | P&C |
| | | TA9415H15 | 10.8 | Fan |
| | 51-72 | TA9415H25 | 8.0 | P&C |
| | | TA9415H15 | 10.8 | Fan |
| | 73-80 | TA8407H25 | 6.2 | P&C |
| | | TA8407H15 | 7.5 | Fan |
| | 81-112 | TA8407H15 | 8.6 | Fan |
| | 113 | TA7315H15 | 6.2 | Fan |
| | 114-120 | TA7315H15 | 6.2 | Fan |
| | | TA7315H09 | 8.5 | Fan |
| | 121-200 | TA7315H09 | 8.6 | Fan |
| | 213-400 | TA7315H05 | 11.5 | --- |
| 200 | 12-23 | TDT1530 † | 15.0 | --- |
| | 24-35 | TDT1425 † | 15.0 | --- |
| | 36-47 | TA12608H40 | 17.1 | P&C |
| | | TA12608H25 | 9.5 | P&C |
| | | TA12608H15 | 15.6 | Fan |
| | 48-50 | TA10507H40 | 8.5 | P&C |
| | | TA12608H25 | 9.5 | P&C |
| | | TA12608H15 | 15.7 | Fan |

# SELECTION

## TORQUE-ARM II Shaft Mount Speed Reducers

### Class I Selections ⋆ (SF = 1.0)

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 200 (cont) | 51 | TA12608H25 | 9.6 | P&C |
| | | TA12608H15 | 15.7 | Fan |
| | 52-67 | TA10507H25 | 8.8 | P&C |
| | | TA10507H15 | 12.4 | Fan |
| | 68 | TA9415H25 | 8.0 | P&C |
| | | TA10507H15 | 12.5 | Fan |
| | 69-80 | TA9415H25 | 8.0 | P&C |
| | | TA9415H15 | 10.7 | P&C |
| | 81-100 | TA9415H15 | 10.5 | P&C |
| | 101-120 | TA8407H15 | 8.7 | P&C |
| | 172-200 | TA7315H09 | 8.4 | P&C |
| | 331-400 | TA7315H05 | 10.8 | Fan |
| 250 | 16-30 | TDT1530 † | 15.0 | --- |
| | 31-43 | TDT1425 † | 15.0 | Fan |
| | 44-50 | TA12608H40 | 17.1 | P&C |
| | | TA12608H25 | 9.5 | P&C |
| | | TA12608H15 | 15.7 | P&C |
| | 51-67 | TA12608H25 | 10.4 | P&C |
| | | TA12608H15 | 16.1 | P&C |
| | 68-75 | TA10507H25 | 9.2 | P&C |
| | | TA10507H15 | 13.0 | P&C |
| | 76-80 | TA10507H25 | 9.4 | P&C |
| | | TA10507H15 | 13.4 | P&C |
| | 81-90 | TA10507H15 | 13.6 | P&C |
| | 91-120 | TA9415H15 | 10.3 | P&C |
| 300 | 19-36 | TDT1530 † | 15.0 | --- |
| | 37-52 | TDT1425 † | 15.0 | P&C |
| | 53-80 | TA12608H25 | 10.7 | P&C |
| | | TA12608H15 | 16.1 | P&C |
| | 81-83 | TA12608H15 | 15.6 | P&C |
| | 84-115 | TA10507H15 | 13.6 | P&C |
| | 116-120 | TA9415H15 | 10.2 | P&C |
| 350 | 23-42 | TDT1530 † | 15.0 | Fan |
| | 43-61 | TDT1425 † | 15.0 | P&C |
| | 62-80 | TA12608H25 | 10.7 | P&C |
| | | TA12608H15 | 16.1 | P&C |
| | 81-103 | TA12608H15 | 15.6 | P&C |
| | 104-120 | TA10507H15 | 13.5 | P&C |
| 400 | 27-50 | TDT1530 † | 15.0 | Fan |
| | 51-70 | TDT1425 † | 15.0 | P&C |
| | 71-80 | TA12608H25 | 10.7 | P&C |
| | | TA12608H15 | 16.1 | P&C |
| | 81-120 | TA12608H15 | 15.6 | P&C |
| 450 | 30-31 | TDT1530 † | 15.0 | P&C |
| | 32-57 | TDT1530 † | 15.0 | Fan |
| | 59-75 | TDT1425 † | 15.0 | P&C |
| | 84-120 | TA12608H15 | 15.5 | P&C |
| 500 | 34-57 | TDT1530 † | 15.0 | P&C |
| | 66-75 | TDT1425 † | 15.0 | P&C |
| | 97-120 | TA12608H15 | 15.1 | P&C |
| 600 | 41-57 | TDT1530 † | 15.0 | P&C |
| 700 | 50-57 | TDT1530 † | 15.0 | P&C |

* See Page G1-132 for lubrication for 15 RPM and slower

† See page G2-68 and G2-69 for information on TDT1425 and TDT1530 Reducers

P&C (Pump & Coolers) - Use the DODGE Speed Reducer auxiliary cooling package, part number 014148

# TORQUE-ARM II Shaft Mount Speed Reducers

## Class Ii Selections * (SF = 1.4)

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 1/4 | 4-5 | TA1107H31 | 5.0 | --- |
| | | TA1107H25 | 6.4 | --- |
| | | TA1107H15 | 5.5 | --- |
| | 6-50 | TA0107L31 | 4.0 | --- |
| | | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 51-80 | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 81-89 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.3 | --- |
| | 90-120 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.2 | --- |
| | | TA0107L05 | 9.2 | --- |
| | 121-200 | TA0107L09 | 5.0 | --- |
| | | TA0107L05 | 8.3 | --- |
| | 201-400 | TA0107L05 | 6.9 | --- |
| 1/3 | 4-6 | TA1107H31 | 5.0 | --- |
| | | TA1107H25 | 6.4 | --- |
| | | TA1107H15 | 5.5 | --- |
| | 7-50 | TA0107L31 | 4.0 | --- |
| | | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 51-80 | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 81-89 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.3 | --- |
| | 90-120 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.2 | --- |
| | | TA0107L05 | 9.2 | --- |
| | 121-200 | TA0107L09 | 5.0 | --- |
| | | TA0107L05 | 8.3 | --- |
| | 201-400 | TA0107L05 | 6.9 | --- |
| 1/2 | 4-5 | TA2115H33 | 3.7 | --- |
| | | TA2115H25 | 3.3 | --- |
| | | TA2115H15 | 3.3 | --- |
| | 6-10 | TA1107H31 | 5.0 | --- |
| | | TA1107H25 | 6.4 | --- |
| | | TA1107H15 | 5.5 | --- |
| | 11-50 | TA0107L31 | 4.0 | --- |
| | | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 51-80 | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 81-89 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.3 | --- |
| | 90-120 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.2 | --- |
| | | TA0107L05 | 9.2 | --- |
| | 121-200 | TA0107L09 | 5.0 | --- |
| | | TA0107L05 | 8.3 | --- |
| | 201-400 | TA0107L05 | 6.9 | --- |
| 3/4 | 4-5 | TA3203H32 | 4.6 | --- |
| | | TA3203H25 | 4.6 | --- |
| | | TA3203H15 | 4.6 | --- |

* See Page G1-132 for lubrication for 15 RPM and slower

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 3/4 (cont) | 6-8 | TA2115H33 | 3.7 | --- |
| | | TA2115H25 | 3.3 | --- |
| | | TA2115H15 | 3.3 | --- |
| | 9-16 | TA1107H31 | 5.0 | --- |
| | | TA1107H25 | 6.4 | --- |
| | | TA1107H15 | 5.5 | --- |
| | 17-50 | TA0107L31 | 4.0 | --- |
| | | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 51-80 | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 81-89 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.3 | --- |
| | 90-120 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.2 | --- |
| | | TA0107L05 | 9.2 | --- |
| | 121-200 | TA0107L09 | 5.0 | --- |
| | | TA0107L05 | 8.3 | --- |
| | 201-400 | TA0107L05 | 6.9 | --- |
| 1 | 4 | TA4207H40 | 5.0 | --- |
| | | TA4207H25 | 5.5 | --- |
| | | TA4207H15 | 8.1 | --- |
| | 5-7 | TA3203H32 | 4.6 | --- |
| | | TA3203H25 | 4.6 | --- |
| | | TA3203H15 | 4.6 | --- |
| | 8-11 | TA2115H33 | 3.7 | --- |
| | | TA2115H25 | 3.3 | --- |
| | | TA2115H15 | 3.3 | --- |
| | 12-21 | TA1107H31 | 4.9 | --- |
| | | TA1107H25 | 6.3 | --- |
| | | TA1107H15 | 5.5 | --- |
| | 22-50 | TA0107L31 | 4.0 | --- |
| | | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 51-80 | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 81-89 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.3 | --- |
| | 90-120 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.2 | --- |
| | | TA0107L05 | 9.2 | --- |
| | 121-200 | TA0107L09 | 5.0 | --- |
| | | TA0107L05 | 8.3 | --- |
| | 201-400 | TA0107L05 | 6.9 | --- |
| 1-1/2 | 4 | TA5215H40 | 6.8 | --- |
| | | TA5215H25 | 6.1 | --- |
| | | TA5215H15 | 7.1 | --- |
| | 5-7 | TA4207H40 | 5.0 | --- |
| | | TA4207H25 | 5.5 | --- |
| | | TA4207H15 | 8.1 | --- |
| | 8-10 | TA3203H32 | 4.6 | --- |
| | | TA3203H25 | 4.6 | --- |
| | | TA3203H15 | 4.6 | --- |
| | 11-17 | TA2115H33 | 3.7 | --- |
| | | TA2115H25 | 3.3 | --- |
| | | TA2115H15 | 3.3 | --- |

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 1-1/2 (cont) | 18-34 | TA1107H31 | 4.8 | --- |
| | | TA1107H25 | 5.9 | --- |
| | | TA1107H15 | 5.3 | --- |
| | 35-50 | TA0107L31 | 4.0 | --- |
| | | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 51-80 | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 81-89 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.3 | --- |
| | 90-120 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.2 | --- |
| | | TA0107L05 | 9.2 | --- |
| | 121-200 | TA0107L09 | 5.0 | --- |
| | | TA0107L05 | 8.3 | --- |
| | 201-400 | TA0107L05 | 6.9 | --- |
| 2 | 4-5 | TA5215H40 | 6.8 | --- |
| | | TA5215H25 | 6.1 | --- |
| | | TA5215H15 | 7.1 | --- |
| | 6-9 | TA4207H40 | 5.0 | --- |
| | | TA4207H25 | 5.5 | --- |
| | | TA4207H15 | 8.1 | --- |
| | 10-14 | TA3203H32 | 4.6 | --- |
| | | TA3203H25 | 4.6 | --- |
| | | TA3203H15 | 4.6 | --- |
| | 15-24 | TA2115H33 | 3.7 | --- |
| | | TA2115H25 | 3.3 | --- |
| | | TA2115H15 | 3.3 | --- |
| | 25-46 | TA1107H31 | 4.7 | --- |
| | | TA1107H25 | 5.7 | --- |
| | | TA1107H15 | 5.2 | --- |
| | 47-50 | TA0107L31 | 4.0 | --- |
| | | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 51-80 | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 81-89 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.3 | --- |
| | 90-120 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.2 | --- |
| | | TA0107L05 | 9.2 | --- |
| | 121-200 | TA0107L09 | 5.0 | --- |
| | | TA0107L05 | 8.3 | --- |
| | 201-400 | TA0107L05 | 6.9 | --- |
| 3 | 4-5 | TA6307H40 | 6.3 | --- |
| | | TA6307H25 | 6.3 | --- |
| | | TA6307H15 | 6.4 | --- |
| | 6-8 | TA5215H40 | 6.8 | --- |
| | | TA5215H25 | 6.1 | --- |
| | | TA5215H15 | 7.1 | --- |
| | 9-14 | TA4207H40 | 5.0 | --- |
| | | TA4207H25 | 5.5 | --- |
| | | TA4207H15 | 8.1 | --- |
| | 15-21 | TA3203H32 | 4.5 | --- |
| | | TA3203H25 | 4.5 | --- |
| | | TA3203H15 | 4.5 | --- |

# SELECTION

## TORQUE-ARM II Shaft Mount Speed Reducers

### Class II Selections ★ (SF = 1.4)

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 3 (cont) | 22-38 | TA2115H33 | 3.6 | --- |
| | | TA2115H25 | 3.3 | --- |
| | | TA2115H15 | 3.2 | --- |
| | 39-50 | TA1107H31 | 4.5 | --- |
| | | TA1107H25 | 5.5 | --- |
| | | TA1107H15 | 5.0 | --- |
| | 51-73 | TA1107H25 | 5.4 | --- |
| | | TA1107H15 | 4.9 | --- |
| | 74-80 | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 81-89 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.3 | --- |
| | 90-120 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.2 | --- |
| | | TA0107L05 | 9.2 | --- |
| | 121-200 | TA0107L09 | 5.0 | --- |
| | | TA0107L05 | 8.3 | --- |
| | 201-400 | TA0107L05 | 6.9 | --- |
| 5 | 4 | TA8407H40 | 6.2 | --- |
| | | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 6.2 | --- |
| | 5-6 | TA7315H40 | 6.2 | --- |
| | | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| | 7-8 | TA6307H40 | 6.3 | --- |
| | | TA6307H25 | 6.3 | --- |
| | | TA6307H15 | 6.4 | --- |
| | 9-14 | TA5215H40 | 6.8 | --- |
| | | TA5215H25 | 6.1 | --- |
| | | TA5215H15 | 7.1 | --- |
| | 15-23 | TA4207H40 | 4.9 | --- |
| | | TA4207H25 | 5.4 | --- |
| | | TA4207H15 | 7.9 | --- |
| | 24-36 | TA3203H32 | 4.3 | --- |
| | | TA3203H25 | 4.4 | --- |
| | | TA3203H15 | 4.4 | --- |
| | 37-50 | TA2115H33 | 3.3 | --- |
| | | TA2115H25 | 3.1 | --- |
| | | TA2115H15 | 3.2 | --- |
| | 51-67 | TA2115H25 | 3.1 | --- |
| | | TA2115H15 | 3.5 | --- |
| | 68-80 | TA1107H25 | 5.2 | --- |
| | | TA1107H15 | 4.7 | --- |
| | 81-89 | TA1107H15 | 4.6 | --- |
| | | TA1107H09 | 7.7 | --- |
| | 90-120 | TA1107H15 | 4.6 | --- |
| | | TA1107H09 | 7.5 | --- |
| | | TA1107H05 | 12.5 | --- |
| | 121-131 | TA1107H09 | 7.1 | --- |
| | | TA1107H05 | 11.2 | --- |
| | 132-146 | TA0107L09 | 5.0 | --- |
| | | TA1107H05 | 10.8 | --- |
| | 147-200 | TA0107L09 | 4.8 | --- |
| | | TA0107L05 | 7.7 | --- |
| | 201-400 | TA0107L05 | 6.9 | --- |

* See Page G1-132 for lubrication for 15 RPM and slower

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 7-1/2 | 4 | TA9415H40 | 8.0 | --- |
| | | TA9415H25 | 8.0 | --- |
| | | TA9415H15 | 10.2 | --- |
| | 5-6 | TA8407H40 | 6.2 | --- |
| | | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 6.2 | --- |
| | 7-9 | TA7315H40 | 6.2 | --- |
| | | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| | 10-13 | TA6307H40 | 6.3 | --- |
| | | TA6307H25 | 6.3 | --- |
| | | TA6307H15 | 6.4 | --- |
| | 14-21 | TA5215H40 | 6.7 | --- |
| | | TA5215H25 | 6.0 | --- |
| | | TA5215H15 | 7.0 | --- |
| | 22-35 | TA4207H40 | 4.7 | --- |
| | | TA4207H25 | 5.2 | --- |
| | | TA4207H15 | 7.7 | --- |
| | 36-50 | TA3203H32 | 4.1 | --- |
| | | TA3203H25 | 4.3 | --- |
| | | TA3203H15 | 4.3 | --- |
| | 51-58 | TA3203H25 | 4.2 | --- |
| | | TA3203H15 | 4.2 | --- |
| | 59-80 | TA2115H25 | 3.1 | --- |
| | | TA2115H15 | 3.6 | --- |
| | 81-89 | TA2115H15 | 3.7 | --- |
| | | TA2115H09 | 6.1 | --- |
| | 90-105 | TA2115H15 | 3.7 | --- |
| | | TA2115H09 | 6.2 | --- |
| | | TA2115H05 | 6.5 | --- |
| | 106-108 | TA1107H15 | 4.5 | --- |
| | | TA2115H09 | 6.2 | --- |
| | | TA2115H05 | 6.5 | --- |
| | 109-120 | TA1107H15 | 4.5 | --- |
| | | TA1107H09 | 7.3 | --- |
| | | TA2115H05 | 6.6 | --- |
| | 121-127 | TA1107H09 | 7.1 | --- |
| | | TA2115H05 | 6.6 | --- |
| | 128-200 | TA1107H09 | 7.0 | --- |
| | | TA1107H05 | 10.9 | --- |
| | 201-306 | TA1107H05 | 9.1 | --- |
| | 307-400 | TA0107L05 | 5.5 | --- |
| 10 | 4 | TA10507H40 | 8.5 | --- |
| | | TA10507H25 | 8.5 | --- |
| | | TA10507H15 | 10.8 | --- |
| | 5 | TA9415H40 | 8.0 | --- |
| | | TA9415H25 | 8.0 | --- |
| | | TA9415H15 | 10.2 | --- |
| | 6-8 | TA8407H40 | 6.2 | --- |
| | | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 6.2 | --- |
| | 9-12 | TA7315H40 | 6.2 | --- |
| | | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| | 13-17 | TA6307H40 | 6.3 | --- |
| | | TA6307H25 | 6.3 | --- |
| | | TA6307H15 | 6.3 | --- |

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 10 (cont) | 18-29 | TA5215H40 | 6.6 | --- |
| | | TA5215H25 | 5.9 | --- |
| | | TA5215H15 | 6.8 | --- |
| | 30-49 | TA4207H40 | 4.5 | --- |
| | | TA4207H25 | 5.0 | --- |
| | | TA4207H15 | 7.4 | --- |
| | 50 | TA3203H32 | 4.0 | --- |
| | | TA3203H25 | 4.2 | --- |
| | | TA3203H15 | 4.2 | --- |
| | 51-80 | TA3203H25 | 4.2 | --- |
| | | TA3203H15 | 4.2 | --- |
| | 81-84 | TA3203H15 | 4.0 | --- |
| | | TA3203H09 | 5.1 | --- |
| | 85-89 | TA2115H15 | 3.7 | --- |
| | | TA2115H09 | 6.1 | --- |
| | 90-120 | TA2115H15 | 3.7 | --- |
| | | TA2115H09 | 6.2 | --- |
| | | TA3203H05 | 11.0 | --- |
| | 121-127 | TA2115H09 | 6.1 | --- |
| | | TA3203H05 | 7.7 | --- |
| | 128-162 | TA2115H09 | 6.2 | --- |
| | | TA2115H05 | 6.5 | --- |
| | 163-200 | TA1107H09 | 6.5 | --- |
| | | TA2115H05 | 6.3 | --- |
| | 201-209 | TA2115H05 | 6.0 | --- |
| | 210-400 | TA1107H05 | 8.9 | --- |
| 15 | 4 | TA12608H40 | 17.2 | --- |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 13.7 | --- |
| | 5-6 | TA10507H40 | 8.5 | --- |
| | | TA10507H25 | 8.5 | --- |
| | | TA10507H15 | 10.8 | --- |
| | 7-8 | TA9415H40 | 8.0 | --- |
| | | TA9415H25 | 8.0 | --- |
| | | TA9415H15 | 10.2 | --- |
| | 9-12 | TA8407H40 | 6.2 | --- |
| | | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 6.2 | --- |
| | 13-19 | TA7315H40 | 6.2 | --- |
| | | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| | 20-26 | TA6307H40 | 6.3 | --- |
| | | TA6307H25 | 6.3 | --- |
| | | TA6307H15 | 6.3 | --- |
| | 27-47 | TA5215H40 | 6.4 | --- |
| | | TA5215H25 | 5.7 | --- |
| | | TA5215H15 | 6.6 | --- |
| | 48-50 | TA4207H40 | 4.2 | --- |
| | | TA4207H25 | 4.7 | --- |
| | | TA4207H15 | 6.9 | --- |
| | 51-80 | TA4207H25 | 4.7 | --- |
| | | TA4207H15 | 6.8 | --- |
| | 81 | TA3203H15 | 4.0 | --- |
| | | TA4207H09 | 10.1 | --- |
| | 82-89 | TA3203H15 | 4.0 | --- |
| | | TA3203H09 | 5.2 | --- |

# TORQUE-ARM II Shaft Mount Speed Reducers

## Class II Selections ★ (SF = 1.4)

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 15 (cont) | 90-92 | TA3203H15 | 4.0 | --- |
| | | TA3203H09 | 5.3 | --- |
| | | TA5215H05 | 13.9 | --- |
| | 93-118 | TA3203H15 | 4.0 | --- |
| | | TA3203H09 | 5.5 | --- |
| | | TA4207H05 | 9.8 | --- |
| | 119-120 | TA3203H15 | 4.0 | --- |
| | | TA3203H09 | 5.6 | --- |
| | | TA3203H05 | 7.7 | --- |
| | 121-149 | TA3203H09 | 5.7 | --- |
| | | TA3203H05 | 7.7 | --- |
| | 150-200 | TA2115H09 | 6.5 | --- |
| | | TA3203H05 | 7.0 | --- |
| | 201-260 | TA3203H05 | 7.0 | --- |
| | 261-400 | TA2115H05 | 5.6 | --- |
| 20 | 4 | TDT1425 † | 15.0 | --- |
| | 5 | TA12608H40 | 17.2 | --- |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 13.7 | --- |
| | 6-8 | TA10507H40 | 8.5 | --- |
| | | TA10507H25 | 8.5 | --- |
| | | TA10507H15 | 10.8 | --- |
| | 9-11 | TA9415H40 | 8.0 | --- |
| | | TA9415H25 | 8.0 | --- |
| | | TA9415H15 | 10.3 | --- |
| | 12-17 | TA8407H40 | 6.2 | --- |
| | | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 6.2 | --- |
| | 18-26 | TA7315H40 | 6.2 | --- |
| | | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| | 27-36 | TA6307H40 | 6.3 | --- |
| | | TA6307H25 | 6.3 | --- |
| | | TA6307H15 | 6.3 | --- |
| | 37-50 | TA5215H40 | 6.2 | --- |
| | | TA5215H25 | 5.6 | --- |
| | | TA5215H15 | 6.5 | --- |
| | 51-67 | TA5215H25 | 5.4 | --- |
| | | TA5215H15 | 6.3 | --- |
| | 68-80 | TA4207H25 | 4.5 | --- |
| | | TA4207H15 | 6.6 | --- |
| | 81-89 | TA4207H15 | 6.4 | --- |
| | | TA4207H09 | 10.1 | --- |
| | 90-115 | TA4207H15 | 6.3 | --- |
| | | TA4207H09 | 9.9 | --- |
| | | TA5215H05 | 13.9 | --- |
| | 116-120 | TA4207H15 | 5.9 | --- |
| | | TA3203H09 | 5.6 | --- |
| | | TA5215H05 | 12.1 | --- |
| | 121-123 | TA3203H09 | 5.6 | --- |
| | | TA5215H05 | 11.8 | --- |
| | 124-194 | TA3203H09 | 5.7 | --- |
| | | TA4207H05 | 9.3 | --- |
| 20 (cont) | 195-200 | TA3203H09 | 5.5 | --- |
| | | TA3203H05 | 7.0 | --- |
| | 201-400 | TA3203H05 | 7.0 | --- |
| 25 | 4-6 | TDT1425 † | 15.0 | --- |
| | 7 | TA12608H40 | 17.2 | --- |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 13.7 | --- |
| | 8-10 | TA10507H40 | 8.5 | --- |
| | | TA10507H25 | 8.5 | --- |
| | | TA10507H15 | 10.8 | --- |
| | 11-14 | TA9415H40 | 8.0 | --- |
| | | TA9415H25 | 8.0 | --- |
| | | TA9415H15 | 10.4 | --- |
| | 15-21 | TA8407H40 | 6.2 | --- |
| | | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 6.2 | --- |
| | 22-33 | TA7315H40 | 6.2 | --- |
| | | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| | 34-46 | TA6307H40 | 6.2 | --- |
| | | TA6307H25 | 6.2 | --- |
| | | TA6307H15 | 6.2 | --- |
| | 47-50 | TA5215H40 | 6.1 | --- |
| | | TA5215H25 | 5.5 | --- |
| | | TA5215H15 | 6.3 | --- |
| | 51-80 | TA5215H25 | 5.4 | --- |
| | | TA5215H15 | 6.3 | --- |
| | 81-87 | TA5215H15 | 6.0 | --- |
| | | TA5215H09 | 9.1 | --- |
| | 88-89 | TA4207H15 | 6.3 | --- |
| | | TA5215H09 | 8.9 | --- |
| | 90-91 | TA4207H15 | 6.3 | --- |
| | | TA5215H09 | 8.9 | --- |
| | | TA5215H05 | 13.9 | --- |
| | 92-120 | TA4207H15 | 6.3 | --- |
| | | TA4207H09 | 9.8 | --- |
| | | TA5215H05 | 13.7 | --- |
| | 121-154 | TA4207H09 | 9.3 | --- |
| | | TA5215H05 | 11.8 | --- |
| | 155-200 | TA4207H09 | 8.7 | --- |
| | | TA4207H05 | 9.2 | --- |
| | 201-269 | TA4207H05 | 9.8 | --- |
| | 270-400 | TA3203H05 | 7.0 | --- |
| 30 | 4 | TDT1530 † | 15.0 | --- |
| | 5-7 | TDT1425 † | 15.0 | --- |
| | 8 | TA12608H40 | 17.2 | --- |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 13.7 | --- |
| | 9-12 | TA10507H40 | 8.5 | --- |
| | | TA10507H25 | 8.5 | --- |
| | | TA10507H15 | 10.8 | --- |
| | 13-18 | TA9415H40 | 8.0 | --- |
| | | TA9415H25 | 8.0 | --- |
| | | TA9415H15 | 10.6 | --- |
| | 19-26 | TA8407H40 | 6.2 | --- |
| | | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 6.2 | --- |
| 30 (cont) | 27-41 | TA7315H40 | 6.2 | --- |
| | | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| | 42-50 | TA6307H40 | 6.2 | --- |
| | | TA6307H25 | 6.2 | --- |
| | | TA6307H15 | 6.2 | --- |
| | 51-56 | TA6307H25 | 6.2 | --- |
| | | TA6307H15 | 6.2 | --- |
| | 57-80 | TA5215H25 | 5.4 | --- |
| | | TA5215H15 | 6.2 | --- |
| | 81-89 | TA5215H15 | 6.0 | --- |
| | | TA5215H09 | 9.1 | --- |
| | 90-110 | TA5215H15 | 5.7 | --- |
| | | TA5215H09 | 8.9 | --- |
| | | TA5215H05 | 13.9 | --- |
| | 111-114 | TA4207H15 | 6.0 | --- |
| | | TA5215H09 | 8.5 | --- |
| | | TA5215H05 | 12.4 | --- |
| | 115-120 | TA4207H15 | 5.9 | --- |
| | | TA4207H09 | 9.4 | --- |
| | | TA5215H05 | 12.1 | --- |
| | 121-195 | TA4207H09 | 9.3 | --- |
| | | TA5215H05 | 11.8 | --- |
| | 196-200 | TA4207H09 | 7.8 | --- |
| | | TA4207H05 | 9.2 | --- |
| | 201-348 | TA4207H05 | 9.8 | --- |
| | 349-400 | TA3203H05 | 7.0 | --- |
| 40 | 4-6 | TDT1530 † | 15.0 | --- |
| | 7-9 | TDT1425 † | 15.0 | --- |
| | 10-12 | TA12608H40 | 17.2 | --- |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 13.9 | --- |
| | 13-17 | TA10507H40 | 8.5 | --- |
| | | TA10507H25 | 8.5 | --- |
| | | TA10507H15 | 10.8 | --- |
| | 18-24 | TA9415H40 | 8.0 | --- |
| | | TA9415H25 | 8.0 | --- |
| | | TA9415H15 | 10.7 | --- |
| | 25-36 | TA8407H40 | 6.2 | --- |
| | | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 6.2 | --- |
| | 37-50 | TA7315H40 | 6.2 | --- |
| | | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| | 51-56 | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| | 57-78 | TA6307H25 | 6.2 | --- |
| | | TA6307H15 | 6.2 | --- |
| | 79-80 | TA5215H25 | 5.2 | --- |
| | | TA5215H15 | 6.0 | --- |
| | 81-85 | TA5215H15 | 6.0 | --- |
| | | TA6307H09 | 9.8 | --- |
| | 86-89 | TA5215H15 | 5.8 | --- |
| | | TA5215H09 | 9.0 | --- |
| | 90-112 | TA5215H15 | 5.7 | --- |
| | | TA5215H09 | 8.9 | --- |
| | | TA6307H05 | 15.1 | --- |

* See Page G1-132 for lubrication for 15 RPM and slower

† See Pages G2-68 and G2-69 for information on TDT1425 and TDT1530 Reducers

# SELECTION

## TORQUE-ARM II Shaft Mount Speed Reducers

### Class II Selections ★ (SF = 1.4)

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 40 (cont) | 113-120 | TA5215H15 | 5.1 | --- |
| | | TA5215H09 | 8.4 | --- |
| | | TA5215H05 | 12.3 | --- |
| | 121-173 | TA5215H09 | 8.3 | --- |
| | | TA5215H05 | 11.8 | --- |
| | 174-200 | TA4207H09 | 8.2 | --- |
| | | TA5215H05 | 10.4 | --- |
| | 201-299 | TA5215H05 | 9.9 | --- |
| | 300-400 | TA4207H05 | 8.8 | --- |
| 50 | 5-8 | TDT1530 † | 15.0 | --- |
| | 9-12 | TDT1425 † | 15.0 | --- |
| | 13-15 | TA12608H40 | 17.1 | --- |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 14.1 | --- |
| | 16-21 | TA10507H40 | 8.5 | --- |
| | | TA10507H25 | 8.5 | --- |
| | | TA10507H15 | 10.8 | --- |
| | 22-31 | TA9415H40 | 8.0 | --- |
| | | TA9415H25 | 8.0 | --- |
| | | TA9415H15 | 10.8 | --- |
| | 32-43 | TA8407H40 | 6.2 | --- |
| | | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 6.2 | --- |
| | 44-46 | TA8407H40 | 6.2 | Fan |
| | | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 6.2 | --- |
| | 47-50 | TA7315H40 | 6.2 | --- |
| | | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| | 51-71 | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| | 72-80 | TA6307H25 | 6.2 | --- |
| | | TA6307H15 | 6.2 | --- |
| | 81-89 | TA6307H15 | 6.3 | --- |
| | | TA6307H09 | 9.9 | --- |
| | 90-91 | TA6307H15 | 6.3 | --- |
| | | TA6307H09 | 10.0 | --- |
| | | TA7315H05 | 14.8 | --- |
| | 92-114 | TA6307H15 | 6.6 | --- |
| | | TA6307H09 | 10.6 | --- |
| | | TA6307H05 | 15.1 | --- |
| | 115-116 | TA6307H15 | 6.7 | --- |
| | | TA5215H09 | 8.4 | --- |
| | | TA6307H05 | 14.7 | --- |
| | 117-120 | TA5215H15 | 5.1 | --- |
| | | TA5215H09 | 8.4 | --- |
| | | TA6307H05 | 14.6 | --- |
| | 121-177 | TA5215H09 | 8.3 | --- |
| | | TA6307H05 | 14.5 | --- |
| | 178-200 | TA5215H09 | 6.3 | --- |
| | | TA5215H05 | 10.4 | --- |
| | 201-400 | TA5215H05 | 9.9 | --- |
| 60 | 5-9 | TDT1530 † | 15.0 | --- |
| | 10-14 | TDT1425 † | 15.0 | --- |
| | 15-18 | TA12608H40 | 17.1 | --- |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 14.3 | --- |
| | 19-26 | TA10507H40 | 8.5 | --- |
| | | TA10507H25 | 8.5 | --- |
| | | TA10507H15 | 10.8 | --- |
| | 27-38 | TA9415H40 | 8.0 | Fan |
| | | TA9415H25 | 8.0 | --- |
| | | TA9415H15 | 10.8 | --- |
| | 39-50 | TA8407H40 | 6.2 | Fan |
| | | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 6.2 | --- |
| | 51-56 | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 6.5 | --- |
| | 57-80 | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| | 81-89 | TA7315H15 | 6.2 | --- |
| | | TA7315H09 | 8.1 | --- |
| | 90-120 | TA6307H15 | 6.7 | --- |
| | | TA6307H09 | 10.8 | --- |
| | | TA7315H05 | 14.8 | --- |
| | 121 | TA6307H09 | 10.8 | --- |
| | | TA7315H05 | 12.8 | --- |
| | 122-195 | TA6307H09 | 10.9 | --- |
| | | TA6307H05 | 14.5 | --- |
| | 196-199 | TA6307H09 | 10.1 | Fan |
| | | TA6307H05 | 13.9 | --- |
| | 200 | TA5215H09 | 5.8 | --- |
| | | TA6307H05 | 13.8 | --- |
| | 201-282 | TA6307H05 | 13.8 | --- |
| | 283-400 | TA5215H05 | 8.4 | --- |
| 75 | 7-12 | TDT1530 † | 15.0 | --- |
| | 13-18 | TDT1425 † | 15.0 | --- |
| | 19-23 | TA12608H40 | 17.1 | --- |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 14.6 | --- |
| | 24 | TA10507H40 | 8.5 | --- |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 14.7 | --- |
| | 25-33 | TA10507H40 | 8.5 | --- |
| | | TA10507H25 | 8.5 | --- |
| | | TA10507H15 | 10.7 | --- |
| | 34-48 | TA9415H40 | 8.0 | Fan |
| | | TA9415H25 | 8.0 | Fan |
| | | TA9415H15 | 10.8 | --- |
| | 49 | TA8407H40 | 6.2 | Fan |
| | | TA8407H25 | 6.2 | Fan |
| | | TA9415H15 | 10.8 | --- |
| | 50 | TA8407H40 | 6.2 | Fan |
| | | TA8407H25 | 6.2 | Fan |
| | | TA8407H15 | 6.2 | --- |
| | 51-72 | TA8407H25 | 6.2 | Fan |
| | | TA8407H15 | 7.2 | --- |
| | 73-80 | TA7315H25 | 6.2 | Fan |
| | | TA7315H15 | 6.2 | --- |
| 75 (cont) | 81-111 | TA7315H15 | 6.2 | --- |
| | | TA7315H09 | 8.5 | --- |
| | 112-117 | TA7315H15 | 6.2 | --- |
| | | TA7315H09 | 8.5 | --- |
| | 118-120 | TA6307H15 | 6.7 | Fan |
| | | TA6307H09 | 10.8 | Fan |
| | 121-169 | TA6307H09 | 10.9 | Fan |
| | | TA7315H05 | 12.8 | --- |
| | 170-200 | TA6307H09 | 10.7 | Fan |
| | | TA6307H05 | 14.0 | --- |
| | 201-400 | TA6307H05 | 13.8 | --- |
| 100 | 8-16 | TDT1530 † | 15.0 | --- |
| | 17-24 | TDT1425 † | 15.0 | --- |
| | 25-32 | TA12608H40 | 17.1 | --- |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 15.1 | --- |
| | 33 | TA10507H40 | 8.5 | Fan |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 15.1 | --- |
| | 34-45 | TA10507H40 | 8.5 | Fan |
| | | TA10507H25 | 8.5 | --- |
| | | TA10507H15 | 11.1 | --- |
| | 46-50 | TA9415H40 | 8.0 | Fan |
| | | TA9415H25 | 8.0 | Fan |
| | | TA9415H15 | 10.8 | Fan |
| | 51-67 | TA9415H25 | 8.0 | Fan |
| | | TA9415H15 | 10.8 | Fan |
| | 68-80 | TA8407H25 | 6.2 | Fan |
| | | TA8407H15 | 7.5 | Fan |
| | 81-102 | TA8407H15 | 8.3 | Fan |
| | 103 | TA7315H15 | 6.2 | Fan |
| | 104-120 | TA7315H15 | 6.2 | Fan |
| | | TA7315H09 | 8.5 | Fan |
| | 121-180 | TA7315H09 | 8.6 | Fan |
| | 181-190 | TA6307H09 | 10.4 | Fan |
| | 191-200 | TA6307H09 | 10.2 | Fan |
| | | TA7315H05 | 11.7 | --- |
| | 201-274 | TA7315H05 | 11.7 | --- |
| | 275-400 | TA6307H05 | 12.0 | --- |
| 125 | 11-20 | TDT1530 † | 15.0 | --- |
| | 21-30 | TDT1425 † | 15.0 | --- |
| | 31-41 | TA12608H40 | 17.1 | Fan |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 15.4 | --- |
| | 42-43 | TA10507H40 | 8.5 | Fan |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 15.5 | --- |
| | 44-50 | TA10507H40 | 8.5 | Fan |
| | | TA10507H25 | 8.5 | Fan |
| | | TA10507H15 | 11.3 | Fan |
| | 51-58 | TA10507H25 | 8.5 | Fan |
| | | TA10507H15 | 11.8 | Fan |
| | 59-80 | TA9415H25 | 8.0 | Fan |
| | | TA9415H15 | 10.8 | Fan |
| | 81-85 | TA9415H15 | 10.5 | Fan |
| | 86-120 | TA8407H15 | 8.7 | Fan |
| | 141-200 | TA7315H09 | 8.6 | Fan |
| | 272-400 | TA7315H05 | 10.9 | --- |

* See Page G1-132 for lubrication for 15 RPM and slower

† See page G2-68 and G2-69 for information on TDT1425 and TDT1530 Reducers

# SELECTION

## TORQUE-ARM II Shaft Mount Speed Reducers

### Class II Selections ⋆ (SF = 1.4)

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 150 | 13-25 | TDT1530 † | 15.0 | --- |
| | 26-36 | TDT1425 † | 15.0 | --- |
| | 37-50 | TA12608H40 | 17.1 | P&C |
| | | TA12608H25 | 9.5 | Fan |
| | | TA12608H15 | 15.7 | Fan |
| | 51-54 | TA12608H25 | 9.6 | Fan |
| | | TA12608H15 | 15.8 | Fan |
| | 55-71 | TA10507H25 | 9.0 | Fan |
| | | TA10507H15 | 12.7 | Fan |
| | 72 | TA9415H25 | 8.0 | P&C |
| | | TA10507H15 | 12.8 | Fan |
| | 73-80 | TA9415H25 | 8.0 | P&C |
| | | TA9415H15 | 10.6 | Fan |
| | 81-105 | TA9415H15 | 10.5 | Fan |
| | 106-120 | TA8407H15 | 8.7 | Fan |
| | 189-200 | TA7315H09 | 8.2 | Fan |
| | 368-400 | TA7315H05 | 10.1 | --- |
| 200 | 18-33 | TDT1530 † | 15.0 | --- |
| | 34-49 | TDT1425 † | 15.0 | Fan |
| | 50 | TA12608H40 | 17.1 | P&C |
| | | TA12608H25 | 9.5 | P&C |
| | | TA12608H15 | 15.7 | Fan |
| | 51-76 | TA12608H25 | 10.7 | P&C |
| | | TA12608H15 | 16.1 | Fan |
| | 77-80 | TA10507H25 | 9.4 | P&C |
| | | TA10507H15 | 13.4 | Fan |
| | 81-105 | TA10507H15 | 13.6 | Fan |
| | 106-120 | TA9415H15 | 10.2 | P&C |
| 250 | 23-42 | TDT1530 † | 15.0 | --- |
| | 43-61 | TDT1425 † | 15.0 | P&C |
| | 62-80 | TA12608H25 | 10.7 | P&C |
| | | TA12608H15 | 16.1 | P&C |
| | 81-103 | TA12608H15 | 15.6 | P&C |
| | 104-120 | TA10507H15 | 13.5 | P&C |
| 300 | 28-53 | TDT1530 † | 15.0 | --- |
| | 54-75 | TDT1425 † | 15.0 | P&C |
| | 76-80 | TA12608H25 | 10.7 | P&C |
| | | TA12608H15 | 15.8 | P&C |
| | 81-120 | TA12608H15 | 15.6 | P&C |
| 350 | 33-57 | TDT1530 † | 15.0 | --- |
| | 66-75 | TDT1425 † | 15.0 | P&C |
| | 94-120 | TA12608H15 | 15.2 | P&C |
| 400 | 38-57 | TDT1530 † | 15.0 | Fan |
| | 114-120 | TA12608H15 | 15.1 | P&C |
| 450 | 43-57 | TDT1530 † | 15.0 | Fan |
| 500 | 50-57 | TDT1530 † | 15.0 | Fan |

* See Page G1-132 for lubrication for 15 RPM and slower

† See Pages G2-68 and G2-69 for information on TDT1425 and TDT1530 Reducers

P&C (Pump & Coolers) - Use the DODGE Speed Reducer Auxiliary cooling package, part number 014148

# SELECTION

## TORQUE-ARM II Shaft Mount Speed Reducers

### Class III Selections ★ (SF = 2.0)

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 1/4 | 4 | TA2115H33 | 3.7 | --- |
| | | TA2115H25 | 3.3 | --- |
| | | TA2115H15 | 3.3 | --- |
| | 5-7 | TA1107H31 | 5.0 | --- |
| | | TA1107H25 | 6.4 | --- |
| | | TA1107H15 | 5.5 | --- |
| | 8-50 | TA0107L31 | 4.0 | --- |
| | | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 51-80 | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 81-89 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.3 | --- |
| | 90-120 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.2 | --- |
| | | TA0107L05 | 9.2 | --- |
| | 121-200 | TA0107L09 | 5.0 | --- |
| | | TA0107L05 | 8.3 | --- |
| | 201-400 | TA0107L05 | 6.9 | --- |
| 1/3 | 4-5 | TA2115H33 | 3.7 | --- |
| | | TA2115H25 | 3.3 | --- |
| | | TA2115H15 | 3.3 | --- |
| | 6-9 | TA1107H31 | 5.0 | --- |
| | | TA1107H25 | 6.4 | --- |
| | | TA1107H15 | 5.5 | --- |
| | 10-50 | TA0107L31 | 4.0 | --- |
| | | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 51-80 | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 81-89 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.3 | --- |
| | 90-120 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.2 | --- |
| | | TA0107L05 | 9.2 | --- |
| | 121-200 | TA0107L09 | 5.0 | --- |
| | | TA0107L05 | 8.3 | --- |
| | 201-400 | TA0107L05 | 6.9 | --- |
| 1/2 | 4-5 | TA3203H32 | 4.6 | --- |
| | | TA3203H25 | 4.6 | --- |
| | | TA3203H15 | 4.6 | --- |
| | 6-8 | TA2115H33 | 3.7 | --- |
| | | TA2115H25 | 3.3 | --- |
| | | TA2115H15 | 3.3 | --- |
| | 9-15 | TA1107H31 | 5.0 | --- |
| | | TA1107H25 | 6.4 | --- |
| | | TA1107H15 | 5.5 | --- |
| | 16-50 | TA0107L31 | 4.0 | --- |
| | | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 51-80 | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 81-89 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.3 | --- |

* See Page G1-132 for lubrication for 15 RPM and slower

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 1/2 (cont) | 90-120 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.2 | --- |
| | | TA0107L05 | 9.2 | --- |
| | 121-200 | TA0107L09 | 5.0 | --- |
| | | TA0107L05 | 8.3 | --- |
| | 201-400 | TA0107L05 | 6.9 | --- |
| 3/4 | 4-5 | TA4207H40 | 5.0 | --- |
| | | TA4207H25 | 5.5 | --- |
| | | TA4207H15 | 8.1 | --- |
| | 6-7 | TA3203H32 | 4.6 | --- |
| | | TA3203H25 | 4.6 | --- |
| | | TA3203H15 | 4.6 | --- |
| | 8-12 | TA2115H33 | 3.7 | --- |
| | | TA2115H25 | 3.3 | --- |
| | | TA2115H15 | 3.3 | --- |
| | 13-23 | TA1107H31 | 4.9 | --- |
| | | TA1107H25 | 6.2 | --- |
| | | TA1107H15 | 5.5 | --- |
| | 24-50 | TA0107L31 | 4.0 | --- |
| | | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 51-80 | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 81-89 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.3 | --- |
| | 90-120 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.2 | --- |
| | | TA0107L05 | 9.2 | --- |
| | 121-200 | TA0107L09 | 5.0 | --- |
| | | TA0107L05 | 8.3 | --- |
| | 201-400 | TA0107L05 | 6.9 | --- |
| 1 | 4 | TA5215H40 | 6.8 | --- |
| | | TA5215H25 | 6.1 | --- |
| | | TA5215H15 | 7.1 | --- |
| | 5-6 | TA4207H40 | 5.0 | --- |
| | | TA4207H25 | 5.5 | --- |
| | | TA4207H15 | 8.1 | --- |
| | 7-10 | TA3203H32 | 4.6 | --- |
| | | TA3203H25 | 4.6 | --- |
| | | TA3203H15 | 4.6 | --- |
| | 11-16 | TA2115H33 | 3.7 | --- |
| | | TA2115H25 | 3.3 | --- |
| | | TA2115H15 | 3.3 | --- |
| | 17 | TA1107H31 | 4.8 | --- |
| | | TA2115H25 | 3.3 | --- |
| | | TA1107H15 | 5.4 | --- |
| | 18-32 | TA1107H31 | 4.8 | --- |
| | | TA1107H25 | 5.9 | --- |
| | | TA1107H15 | 5.3 | --- |
| | 33-50 | TA0107L31 | 4.0 | --- |
| | | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 51-80 | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 81-89 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.3 | --- |

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 1 (cont) | 90-120 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.2 | --- |
| | | TA0107L05 | 9.2 | --- |
| | 121-200 | TA0107L09 | 5.0 | --- |
| | | TA0107L05 | 8.3 | --- |
| | 201-400 | TA0107L05 | 6.9 | --- |
| 1-1/2 | 4-6 | TA5215H40 | 6.8 | --- |
| | | TA5215H25 | 6.1 | --- |
| | | TA5215H15 | 7.1 | --- |
| | 7-10 | TA4207H40 | 5.0 | --- |
| | | TA4207H25 | 5.5 | --- |
| | | TA4207H15 | 8.1 | --- |
| | 11-15 | TA3203H32 | 4.6 | --- |
| | | TA3203H25 | 4.6 | --- |
| | | TA3203H15 | 4.6 | --- |
| | 16-26 | TA2115H33 | 3.7 | --- |
| | | TA2115H25 | 3.3 | --- |
| | | TA2115H15 | 3.2 | --- |
| | 27-50 | TA1107H31 | 4.6 | --- |
| | | TA1107H25 | 5.7 | --- |
| | | TA1107H15 | 5.2 | --- |
| | 51-80 | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 81-89 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.3 | --- |
| | 90-120 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.2 | --- |
| | | TA0107L05 | 9.2 | --- |
| | 121-200 | TA0107L09 | 5.0 | --- |
| | | TA0107L05 | 8.3 | --- |
| | 201-400 | TA0107L05 | 6.9 | --- |
| 2 | 4-5 | TA6307H40 | 6.3 | --- |
| | | TA6307H25 | 6.3 | --- |
| | | TA6307H15 | 6.4 | --- |
| | 6-8 | TA5215H40 | 6.8 | --- |
| | | TA5215H25 | 6.1 | --- |
| | | TA5215H15 | 7.1 | --- |
| | 9-13 | TA4207H40 | 5.0 | --- |
| | | TA4207H25 | 5.5 | --- |
| | | TA4207H15 | 8.1 | --- |
| | 14-20 | TA3203H32 | 4.5 | --- |
| | | TA3203H25 | 4.5 | --- |
| | | TA3203H15 | 4.6 | --- |
| | 21-36 | TA2115H33 | 3.6 | --- |
| | | TA2115H25 | 3.3 | --- |
| | | TA2115H15 | 3.2 | --- |
| | 37-50 | TA1107H31 | 4.5 | --- |
| | | TA1107H25 | 5.6 | --- |
| | | TA1107H15 | 5.0 | --- |
| | 51-69 | TA1107H25 | 5.4 | --- |
| | | TA1107H15 | 4.9 | --- |
| | 70-80 | TA0107L25 | 4.0 | --- |
| | | TA0107L15 | 4.0 | --- |
| | 81-89 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.3 | --- |

# TORQUE-ARM II Shaft Mount Speed Reducers

## Class III Selections ★ (SF = 2.0)

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 2 (cont) | 90-120 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.2 | --- |
| | | TA0107L05 | 9.2 | --- |
| | 121-200 | TA0107L09 | 5.0 | --- |
| | | TA0107L05 | 8.3 | --- |
| | 201-400 | TA0107L05 | 6.9 | --- |
| 3 | 4-5 | TA7315H40 | 6.2 | --- |
| | | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| | 6-7 | TA6307H40 | 6.3 | --- |
| | | TA6307H25 | 6.3 | --- |
| | | TA6307H15 | 6.4 | --- |
| | 8-12 | TA5215H40 | 6.8 | --- |
| | | TA5215H25 | 6.1 | --- |
| | | TA5215H15 | 7.1 | --- |
| | 13-20 | TA4207H40 | 4.9 | --- |
| | | TA4207H25 | 5.5 | --- |
| | | TA4207H15 | 8.0 | --- |
| | 21-30 | TA3203H32 | 4.3 | --- |
| | | TA3203H25 | 4.4 | --- |
| | | TA3203H15 | 4.4 | --- |
| | 31 | TA3203H32 | 4.1 | --- |
| | | TA2115H25 | 3.1 | --- |
| | | TA2115H15 | 3.1 | --- |
| | 32-50 | TA2115H33 | 3.5 | --- |
| | | TA2115H25 | 3.1 | --- |
| | | TA2115H15 | 3.2 | --- |
| | 51-56 | TA2115H25 | 3.1 | --- |
| | | TA2115H15 | 3.3 | --- |
| | 57-80 | TA1107H25 | 5.3 | --- |
| | | TA1107H15 | 4.8 | --- |
| | 81-89 | TA1107H15 | 4.6 | --- |
| | | TA1107H09 | 7.7 | --- |
| | 90-109 | TA1107H15 | 4.6 | --- |
| | | TA1107H09 | 7.5 | --- |
| | | TA1107H05 | 12.5 | --- |
| | 110-113 | TA1107H15 | 4.5 | --- |
| | | TA0107L09 | 5.1 | --- |
| | | TA1107H05 | 11.6 | --- |
| | 114 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.1 | --- |
| | | TA1107H05 | 11.4 | --- |
| | 115-120 | TA0107L15 | 4.0 | --- |
| | | TA0107L09 | 5.1 | --- |
| | | TA0107L05 | 8.4 | --- |
| | 121-200 | TA0107L09 | 5.0 | --- |
| | | TA0107L05 | 8.3 | --- |
| | 201-400 | TA0107L05 | 6.9 | --- |
| 5 | 4 | TA9415H40 | 8.0 | --- |
| | | TA9415H25 | 8.0 | --- |
| | | TA9415H15 | 10.2 | --- |
| | 5 | TA8407H40 | 6.2 | --- |
| | | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 6.2 | --- |

* See Page G1-132 for lubrication for 15 RPM and slower

† See Pages G2-68 and G2-69 for information on TDT1425 and TDT1530 Reducer

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 5 (cont) | 6-8 | TA7315H40 | 6.2 | --- |
| | | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| | 9-12 | TA6307H40 | 6.3 | --- |
| | | TA6307H25 | 6.3 | --- |
| | | TA6307H15 | 6.4 | --- |
| | 13-20 | TA5215H40 | 6.7 | --- |
| | | TA5215H25 | 6.0 | --- |
| | | TA5215H15 | 7.0 | --- |
| | 21-33 | TA4207H40 | 4.7 | --- |
| | | TA4207H25 | 5.2 | --- |
| | | TA4207H15 | 7.7 | --- |
| | 34-50 | TA3203H32 | 4.1 | --- |
| | | TA3203H25 | 4.3 | --- |
| | | TA3203H15 | 4.3 | --- |
| | 51-55 | TA3203H25 | 4.2 | --- |
| | | TA3203H15 | 4.2 | --- |
| | 56-80 | TA2115H25 | 3.1 | --- |
| | | TA2115H15 | 3.6 | --- |
| | 81-89 | TA2115H15 | 3.7 | --- |
| | | TA2115H09 | 6.1 | --- |
| | 90-100 | TA2115H15 | 3.7 | --- |
| | | TA2115H09 | 6.2 | --- |
| | | TA2115H05 | 6.5 | --- |
| | 101 | TA1107H15 | 4.5 | --- |
| | | TA2115H09 | 6.2 | --- |
| | | TA2115H05 | 6.5 | --- |
| | 102-118 | TA1107H15 | 4.5 | --- |
| | | TA1107H09 | 7.4 | --- |
| | | TA2115H05 | 6.6 | --- |
| | 119-120 | TA1107H15 | 4.4 | --- |
| | | TA1107H09 | 7.1 | --- |
| | | TA1107H05 | 11.2 | --- |
| | 121-200 | TA1107H09 | 7.1 | --- |
| | | TA1107H05 | 11.2 | --- |
| | 201-276 | TA1107H05 | 9.1 | --- |
| | 277-400 | TA0107L05 | 5.8 | --- |
| 7-1/2 | 4 | TA10507H40 | 8.5 | --- |
| | | TA10507H25 | 8.5 | --- |
| | | TA10507H15 | 10.8 | --- |
| | 5-6 | TA9415H40 | 8.0 | --- |
| | | TA9415H25 | 8.0 | --- |
| | | TA9415H15 | 10.2 | --- |
| | 7-8 | TA8407H40 | 6.2 | --- |
| | | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 6.2 | --- |
| | 9-13 | TA7315H40 | 6.2 | --- |
| | | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| | 14-18 | TA6307H40 | 6.3 | --- |
| | | TA6307H25 | 6.3 | --- |
| | | TA6307H15 | 6.3 | --- |
| | 19-32 | TA5215H40 | 6.5 | --- |
| | | TA5215H25 | 5.9 | --- |
| | | TA5215H15 | 6.8 | --- |

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 7-1/2 (cont) | 33-50 | TA4207H40 | 4.5 | --- |
| | | TA4207H25 | 5.0 | --- |
| | | TA4207H15 | 7.3 | --- |
| | 51-53 | TA4207H25 | 4.7 | --- |
| | | TA4207H15 | 6.8 | --- |
| | 54-80 | TA3203H25 | 4.1 | --- |
| | | TA3203H15 | 4.2 | --- |
| | 81-89 | TA3203H15 | 4.0 | --- |
| | | TA3203H09 | 5.2 | --- |
| | 90-92 | TA3203H15 | 4.0 | --- |
| | | TA3203H09 | 5.3 | --- |
| | | TA3203H05 | 11.0 | --- |
| | 93-120 | TA2115H15 | 3.7 | --- |
| | | TA2115H09 | 6.2 | --- |
| | | TA3203H05 | 10.4 | --- |
| | 121-143 | TA2115H09 | 6.1 | --- |
| | | TA3203H05 | 7.7 | --- |
| | 144-181 | TA2115H09 | 6.3 | --- |
| | | TA2115H05 | 6.4 | --- |
| | 182-200 | TA1107H09 | 6.2 | --- |
| | | TA2115H05 | 6.2 | --- |
| | 201-237 | TA2115H05 | 6.0 | --- |
| | 238-400 | TA1107H05 | 8.4 | --- |
| 10 | 4 | TA12608H40 | 17.2 | --- |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 13.7 | --- |
| | 5-6 | TA10507H40 | 8.5 | --- |
| | | TA10507H25 | 8.5 | --- |
| | | TA10507H15 | 10.8 | --- |
| | 7-8 | TA9415H40 | 8.0 | --- |
| | | TA9415H25 | 8.0 | --- |
| | | TA9415H15 | 10.2 | --- |
| | 9-11 | TA8407H40 | 6.2 | --- |
| | | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 6.2 | --- |
| | 12-18 | TA7315H40 | 6.2 | --- |
| | | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| | 19-25 | TA6307H40 | 6.3 | --- |
| | | TA6307H25 | 6.3 | --- |
| | | TA6307H15 | 6.3 | --- |
| | 26-45 | TA5215H40 | 6.4 | --- |
| | | TA5215H25 | 5.7 | --- |
| | | TA5215H15 | 6.7 | --- |
| | 46-50 | TA4207H40 | 4.3 | --- |
| | | TA4207H25 | 4.7 | --- |
| | | TA4207H15 | 7.0 | --- |
| | 51-75 | TA4207H25 | 4.7 | --- |
| | | TA4207H15 | 6.8 | --- |
| | 76-80 | TA3203H25 | 4.0 | --- |
| | | TA3203H15 | 4.1 | --- |
| | 81-89 | TA3203H15 | 4.0 | --- |
| | | TA3203H09 | 5.2 | --- |
| | 90-105 | TA3203H15 | 4.0 | --- |
| | | TA3203H09 | 5.4 | --- |
| | | TA4207H05 | 9.9 | --- |

# SELECTION

## TORQUE-ARM II Shaft Mount Speed Reducers

### Class III Selections ★ (SF = 2.0)

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 10 (cont) | 106-120 | TA3203H15 | 4.0 | --- |
| | | TA3203H09 | 5.6 | --- |
| | | TA3203H05 | 8.6 | --- |
| | 121-141 | TA3203H09 | 5.7 | --- |
| | | TA3203H05 | 7.7 | --- |
| | 142-200 | TA2115H09 | 6.5 | --- |
| | | TA3203H05 | 7.2 | --- |
| | 201-238 | TA3203H05 | 7.0 | --- |
| | 239-400 | TA2115H05 | 5.7 | --- |
| 15 | 4-5 | TDT1425 † | 15.0 | --- |
| | 6 | TA12608H40 | 17.2 | --- |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 13.7 | --- |
| | 7-9 | TA10507H40 | 8.5 | --- |
| | | TA10507H25 | 8.5 | --- |
| | | TA10507H15 | 10.8 | --- |
| | 10-12 | TA9415H40 | 8.0 | --- |
| | | TA9415H25 | 8.0 | --- |
| | | TA9415H15 | 10.3 | --- |
| | 13-18 | TA8407H40 | 6.2 | --- |
| | | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 6.2 | --- |
| | 19-28 | TA7315H40 | 6.2 | --- |
| | | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| | 29-39 | TA6307H40 | 6.3 | --- |
| | | TA6307H25 | 6.3 | --- |
| | | TA6307H15 | 6.3 | --- |
| | 40-50 | TA5215H40 | 6.2 | --- |
| | | TA5215H25 | 5.5 | --- |
| | | TA5215H15 | 6.4 | --- |
| | 51-72 | TA5215H25 | 5.4 | --- |
| | | TA5215H15 | 6.3 | --- |
| | 73-80 | TA4207H25 | 4.4 | --- |
| | | TA4207H15 | 6.5 | --- |
| | 81-89 | TA4207H15 | 6.4 | --- |
| | | TA4207H09 | 10.1 | --- |
| | 90-120 | TA4207H15 | 6.3 | --- |
| | | TA4207H09 | 9.9 | --- |
| | | TA5215H05 | 13.9 | --- |
| | 121-125 | TA4207H09 | 9.3 | --- |
| | | TA5215H05 | 11.8 | --- |
| | 126-132 | TA3203H09 | 5.7 | --- |
| | | TA5215H05 | 11.6 | --- |
| | 133-200 | TA3203H09 | 5.7 | --- |
| | | TA4207H05 | 9.2 | --- |
| | 201-215 | TA4207H05 | 9.3 | --- |
| | 216-400 | TA3203H05 | 7.0 | --- |
| 20 | 4 | TDT1530 † | 15.0 | --- |
| | 5-6 | TDT1425 † | 15.0 | --- |
| | 7 | TA12608H40 | 17.2 | --- |
| | | TDT1425 † | 15.0 | --- |
| 20 (cont) | 8 | TA12608H40 | 17.2 | --- |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 13.7 | --- |
| | 9-12 | TA10507H40 | 8.5 | --- |
| | | TA10507H25 | 8.5 | --- |
| | | TA10507H15 | 10.8 | --- |
| | 13-17 | TA9415H40 | 8.0 | --- |
| | | TA9415H25 | 8.0 | --- |
| | | TA9415H15 | 10.5 | --- |
| | 18-25 | TA8407H40 | 6.2 | --- |
| | | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 6.2 | --- |
| | 26-38 | TA7315H40 | 6.2 | --- |
| | | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| | 39-50 | TA6307H40 | 6.2 | --- |
| | | TA6307H25 | 6.2 | --- |
| | | TA6307H15 | 6.2 | --- |
| | 51-54 | TA6307H25 | 6.2 | --- |
| | | TA6307H15 | 6.2 | --- |
| | 55-80 | TA5215H25 | 5.4 | --- |
| | | TA5215H15 | 6.3 | --- |
| | 81-89 | TA5215H15 | 6.0 | --- |
| | | TA5215H09 | 9.1 | --- |
| | 90-102 | TA5215H15 | 5.7 | --- |
| | | TA5215H09 | 8.9 | --- |
| | | TA5215H05 | 13.9 | --- |
| | 103-107 | TA4207H15 | 6.1 | --- |
| | | TA5215H09 | 8.6 | --- |
| | | TA5215H05 | 12.9 | --- |
| | 108-120 | TA4207H15 | 6.0 | --- |
| | | TA4207H09 | 9.5 | --- |
| | | TA5215H05 | 12.6 | --- |
| | 121-182 | TA4207H09 | 9.3 | --- |
| | | TA5215H05 | 11.8 | --- |
| | 183-200 | TA4207H09 | 8.1 | --- |
| | | TA4207H05 | 9.2 | --- |
| | 201-324 | TA4207H05 | 9.8 | --- |
| | 325-400 | TA3203H05 | 7.0 | --- |
| 25 | 4-5 | TDT1530 † | 15.0 | --- |
| | 6-8 | TDT1425 † | 15.0 | --- |
| | 9-10 | TA12608H40 | 17.2 | --- |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 13.7 | --- |
| | 11-15 | TA10507H40 | 8.5 | --- |
| | | TA10507H25 | 8.5 | --- |
| | | TA10507H15 | 10.8 | --- |
| | 16-21 | TA9415H40 | 8.0 | --- |
| | | TA9415H25 | 8.0 | --- |
| | | TA9415H15 | 10.7 | --- |
| | 22-32 | TA8407H40 | 6.2 | --- |
| | | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 6.2 | --- |
| | 33-49 | TA7315H40 | 6.2 | --- |
| | | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| 25 (cont) | 50 | TA6307H40 | 6.2 | --- |
| | | TA6307H25 | 6.2 | --- |
| | | TA6307H15 | 6.2 | --- |
| | 51-69 | TA6307H25 | 6.2 | --- |
| | | TA6307H15 | 6.2 | --- |
| | 70-80 | TA5215H25 | 5.3 | --- |
| | | TA5215H15 | 6.1 | --- |
| | 81-89 | TA5215H15 | 6.0 | --- |
| | | TA5215H09 | 9.1 | --- |
| | 90-93 | TA5215H15 | 5.7 | --- |
| | | TA5215H09 | 8.9 | --- |
| | | TA6307H05 | 15.1 | --- |
| | 94-120 | TA5215H15 | 5.6 | --- |
| | | TA5215H09 | 8.8 | --- |
| | | TA5215H05 | 13.6 | --- |
| | 121-144 | TA5215H09 | 8.3 | --- |
| | | TA5215H05 | 11.8 | --- |
| | 145-200 | TA4207H09 | 8.9 | --- |
| | | TA5215H05 | 11.2 | --- |
| | 201-242 | TA5215H05 | 9.9 | --- |
| | 243-400 | TA4207H05 | 9.7 | --- |
| 30 | 4-6 | TDT1530 † | 15.0 | --- |
| | 7-10 | TDT1425 † | 15.0 | --- |
| | 11-13 | TA12608H40 | 17.2 | --- |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 13.9 | --- |
| | 14-18 | TA10507H40 | 8.5 | --- |
| | | TA10507H25 | 8.5 | --- |
| | | TA10507H15 | 10.8 | --- |
| | 19-26 | TA9415H40 | 8.0 | --- |
| | | TA9415H25 | 8.0 | --- |
| | | TA9415H15 | 10.8 | --- |
| | 27-39 | TA8407H40 | 6.2 | --- |
| | | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 6.2 | --- |
| | 40-50 | TA7315H40 | 6.2 | --- |
| | | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| | 51-60 | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| | 61-80 | TA6307H25 | 6.2 | --- |
| | | TA6307H15 | 6.2 | --- |
| | 81-88 | TA6307H15 | 6.3 | --- |
| | | TA6307H09 | 9.9 | --- |
| | 89 | TA5215H15 | 5.7 | --- |
| | | TA6307H09 | 9.9 | --- |
| | 90-93 | TA5215H15 | 5.7 | --- |
| | | TA6307H09 | 10.1 | --- |
| | | TA6307H05 | 15.1 | --- |
| | 94-120 | TA5215H15 | 5.6 | --- |
| | | TA5215H09 | 8.8 | --- |
| | | TA6307H05 | 15.1 | --- |
| | 121-131 | TA5215H09 | 8.3 | --- |
| | | TA6307H05 | 14.5 | --- |
| | 132-196 | TA5215H09 | 7.9 | --- |
| | | TA5215H05 | 11.4 | --- |

★ See Page G1-132 for lubrication for 15 RPM and slower

† See Pages G2-68 and G2-69 for information on TDT1425 and TDT1530 Reducer

# TORQUE-ARM II Shaft Mount Speed Reducers

## Class III Selections ★ (SF = 2.0)

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 30 (cont) | 197-200 | TA4207H09 | 7.8 | --- |
| | | TA5215H05 | 10.0 | --- |
| | 201-344 | TA5215H05 | 9.9 | --- |
| | 345-400 | TA4207H05 | 8.2 | --- |
| 40 | 5-9 | TDT1530 † | 15.0 | --- |
| | 10-13 | TDT1425 † | 15.0 | --- |
| | 14 | TA12608H40 | 17.1 | --- |
| | | TDT1425 † | 15.0 | --- |
| | 15-17 | TA12608H40 | 17.1 | --- |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 14.3 | --- |
| | 18-25 | TA10507H40 | 8.5 | --- |
| | | TA10507H25 | 8.5 | --- |
| | | TA10507H15 | 10.8 | --- |
| | 26-36 | TA9415H40 | 8.0 | --- |
| | | TA9415H25 | 8.0 | --- |
| | | TA9415H15 | 10.8 | --- |
| | 37-50 | TA8407H40 | 6.2 | --- |
| | | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 6.2 | --- |
| | 51-53 | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 6.3 | --- |
| | 54-80 | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| | 81-84 | TA7315H15 | 6.2 | --- |
| | | TA7315H09 | 8.0 | --- |
| | 85-89 | TA6307H15 | 6.3 | --- |
| | | TA6307H09 | 9.9 | --- |
| | 90-112 | TA6307H15 | 6.6 | --- |
| | | TA6307H09 | 10.6 | --- |
| | | TA7315H05 | 14.8 | --- |
| | 113-120 | TA6307H15 | 6.7 | --- |
| | | TA6307H09 | 10.8 | --- |
| | | TA6307H05 | 14.7 | --- |
| | 121-160 | TA6307H09 | 10.9 | --- |
| | | TA6307H05 | 14.5 | --- |
| | 161-200 | TA5215H09 | 6.8 | --- |
| | | TA6307H05 | 14.1 | --- |
| | 201-246 | TA6307H05 | 13.8 | --- |
| | 247-400 | TA5215H05 | 9.0 | --- |
| 50 | 6-11 | TDT1530 † | 15.0 | --- |
| | 12-17 | TDT1425 † | 15.0 | --- |
| | 18-22 | TA12608H40 | 17.1 | --- |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 14.6 | --- |
| | 23-31 | TA10507H40 | 8.5 | --- |
| | | TA10507H25 | 8.5 | --- |
| | | TA10507H15 | 10.7 | --- |
| | 32-37 | TA9415H40 | 8.0 | --- |
| | | TA9415H25 | 8.0 | --- |
| | | TA9415H15 | 10.8 | --- |
| | 38-46 | TA9415H40 | 8.0 | Fan |
| | | TA9415H25 | 8.0 | --- |
| | | TA9415H15 | 10.8 | --- |

* See Page G1-132 for lubrication for 15 RPM and slower

† See Pages G2-68 and G2-69 for information on TDT1425 and TDT1530 Reducer

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 50 (cont) | 47-50 | TA8407H40 | 6.2 | Fan |
| | | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 6.2 | --- |
| | 51-68 | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 7.0 | --- |
| | 69-80 | TA7315H25 | 6.2 | --- |
| | | TA7315H15 | 6.2 | --- |
| | 81-110 | TA7315H15 | 6.2 | --- |
| | | TA7315H09 | 8.5 | --- |
| | 111 | TA6307H15 | 6.6 | --- |
| | | TA6307H09 | 10.5 | --- |
| | 112-120 | TA6307H15 | 6.7 | --- |
| | | TA6307H09 | 10.8 | --- |
| | | TA7315H05 | 13.2 | --- |
| | 121-157 | TA6307H09 | 10.9 | --- |
| | | TA7315H05 | 12.8 | --- |
| | 158-200 | TA6307H09 | 10.9 | --- |
| | | TA6307H05 | 14.2 | --- |
| | 201-400 | TA6307H05 | 13.8 | --- |
| 60 | 7-14 | TDT1530 † | 15.0 | --- |
| | 15-20 | TDT1425 † | 15.0 | --- |
| | 21 | TA12608H40 | 17.1 | --- |
| | | TDT1425 † | 15.0 | --- |
| | 22-27 | TA12608H40 | 17.1 | --- |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 14.8 | --- |
| | 28 | TA10507H40 | 8.5 | --- |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 14.9 | --- |
| | 29-38 | TA10507H40 | 8.5 | --- |
| | | TA10507H25 | 8.5 | --- |
| | | TA10507H15 | 10.7 | --- |
| | 39-45 | TA9415H40 | 8.0 | Fan |
| | | TA9415H25 | 8.0 | --- |
| | | TA9415H15 | 10.8 | --- |
| | 46-50 | TA9415H40 | 8.0 | Fan |
| | | TA9415H25 | 8.0 | --- |
| | | TA9415H15 | 10.8 | --- |
| | 51-56 | TA9415H25 | 8.0 | --- |
| | | TA9415H15 | 10.8 | --- |
| | 57-71 | TA8407H25 | 6.2 | --- |
| | | TA8407H15 | 7.1 | --- |
| | 72-80 | TA8407H25 | 6.2 | Fan |
| | | TA8407H15 | 7.5 | --- |
| | 81-83 | TA8407H15 | 7.7 | --- |
| | 84-85 | TA7315H15 | 6.2 | --- |
| | 86-120 | TA7315H15 | 6.2 | --- |
| | | TA7315H09 | 8.5 | --- |
| | 121-141 | TA7315H09 | 8.6 | --- |
| | 142-150 | TA6307H09 | 10.9 | --- |
| | 151-195 | TA6307H09 | 10.9 | --- |
| | | TA7315H05 | 12.1 | --- |
| | 196-200 | TA6307H09 | 10.1 | Fan |
| | | TA7315H05 | 11.7 | --- |
| | 201-208 | TA7315H05 | 11.7 | --- |
| | 209-400 | TA6307H05 | 13.5 | --- |

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 75 | 9-17 | TDT1530 † | 15.0 | --- |
| | 18-26 | TDT1425 † | 15.0 | --- |
| | 27-34 | TA12608H40 | 17.1 | --- |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 15.1 | --- |
| | 35-36 | TA10507H40 | 8.5 | --- |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 15.2 | --- |
| | 37-49 | TA10507H40 | 8.5 | --- |
| | | TA10507H25 | 8.5 | --- |
| | | TA10507H15 | 11.3 | --- |
| | 50 | TA9415H40 | 8.0 | Fan |
| | | TA9415H25 | 8.0 | Fan |
| | | TA9415H15 | 10.8 | --- |
| | 51-72 | TA9415H25 | 8.0 | Fan |
| | | TA9415H15 | 10.8 | --- |
| | 73-80 | TA8407H25 | 6.2 | Fan |
| | | TA8407H15 | 7.5 | --- |
| | 81-112 | TA8407H15 | 8.6 | --- |
| | 113 | TA7315H15 | 6.2 | --- |
| | 114-120 | TA7315H15 | 6.2 | --- |
| | | TA7315H09 | 8.5 | --- |
| | 121-156 | TA7315H09 | 8.6 | --- |
| | 157- 200 | TA7315H09 | 8.5 | Fan |
| | 213-306 | TA7315H05 | 11.5 | --- |
| | 307-400 | TA6307H05 | 11.7 | --- |
| 100 | 12-23 | TDT1530 † | 15.0 | --- |
| | 24-35 | TDT1425 † | 15.0 | --- |
| | 36-47 | TA12608H40 | 17.1 | --- |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 15.6 | --- |
| | 48-50 | TA10507H40 | 8.5 | Fan |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 15.7 | --- |
| | 51 | TA12608H25 | 9.6 | --- |
| | | TA12608H15 | 15.7 | --- |
| | 52-56 | TA10507H25 | 8.5 | --- |
| | | TA10507H15 | 11.8 | --- |
| | 57-67 | TA10507H25 | 8.8 | Fan |
| | | TA10507H15 | 12.4 | --- |
| | 68 | TA9415H25 | 8.0 | Fan |
| | | TA10507H15 | 12.5 | --- |
| | 69-80 | TA9415H25 | 8.0 | Fan |
| | | TA9415H15 | 10.7 | Fan |
| | 81-100 | TA9415H15 | 10.5 | Fan |
| | 101-120 | TA8407H15 | 8.7 | Fan |
| | 172-200 | TA7315H09 | 8.4 | Fan |
| | 331-400 | TA7315H05 | 10.8 | --- |
| 125 | 16-30 | TDT1530 † | 15.0 | --- |
| | 31-43 | TDT1425 † | 15.0 | --- |
| | 44-50 | TA12608H40 | 17.1 | Fan |
| | | TA12608H25 | 9.5 | --- |
| | | TA12608H15 | 15.7 | --- |
| | 51-58 | TA12608H25 | 9.6 | --- |
| | | TA12608H15 | 15.9 | --- |
| | 59-67 | TA12608H25 | 10.4 | Fan |
| | | TA12608H15 | 16.1 | --- |

# SELECTION

## TORQUE-ARM II Shaft Mount Speed Reducers

### Class III Selections * (SF = 2.0)

| Motor HP | Output RPM | Reducer Selection | Min. Sheave Dia. P.D. | Cooling Method |
|---|---|---|---|---|
| 125 (cont) | 68-80 | TA10507H25 | 9.4 | Fan |
| | | TA10507H15 | 13.4 | Fan |
| | 81-90 | TA10507H15 | 13.6 | Fan |
| | 91-120 | TA9415H15 | 10.3 | Fan |
| 150 | 19-36 | TDT1530 † | 15.0 | --- |
| | 37-41 | TDT1425 † | 15.0 | --- |
| | 42-52 | TDT1425 † | 15.0 | Fan |
| | 53-80 | TA12608H25 | 10.7 | Fan |
| | | TA12608H15 | 16.1 | Fan |
| | 81-83 | TA12608H15 | 15.6 | Fan |
| | 84-115 | TA10507H15 | 13.6 | Fan |
| | 116-120 | TA9415H15 | 10.2 | Fan |
| 200 | 27-50 | TDT1530 † | 15.0 | --- |
| | 51-70 | TDT1425 † | 15.0 | P&C |
| | 71-80 | TA12608H25 | 10.7 | P&C |
| | | TA12608H15 | 16.1 | Fan |
| | 81-98 | TA12608H15 | 15.6 | Fan |
| | 99-120 | TA12608H15 | 15.1 | P&C |
| 250 | 34-57 | TDT1530 † | 15.0 | --- |
| | 66-75 | TDT1425 † | 15.0 | P&C |
| | 97-120 | TA12608H15 | 15.1 | P&C |
| 300 | 41-57 | TDT1530 † | 15.0 | --- |
| 350 | 50-57 | TDT1530 † | 15.0 | --- |

* See Page G1-132 for lubrication for 15 RPM and slower

† See page G2-68 and G2-69 for information on TDT1425 and TDT1530 Reducers

P&C (Pump & Coolers) - Use the DODGE Speed Reducer auxiliary cooling package, part number 014148

# TORQUE-ARM II Shaft Mount Speed Reducers

## SELECTION GUIDE: TA II TORQUE-ARM SHAFT MOUNT REDUCERS AND SCREW CONVEYOR DRIVES

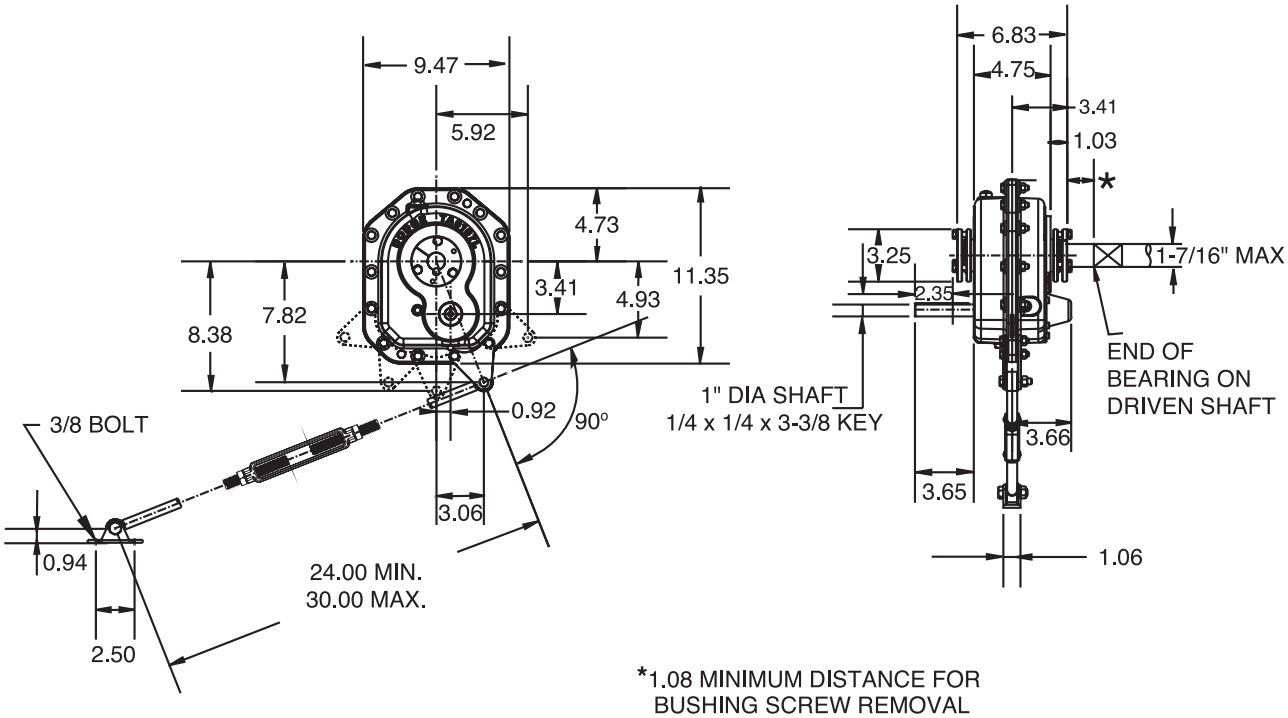
This is a reference sheet for quick selection and specification on DODGE TA II Shaft Mount Reducers. Use it to identify information needed to make an accurate selection with a step-by-step selection format for choosing a reducer, accessories and belt drive.

| | | | | |
|---|---|---|---|---|
| Name | | Company Name | | |
| Phone Number | | Fax No. | e-mail Address: | |
| **Application Data:** | | | | |
| **Driven Equipment** | | | | |
| Type | | RPM | Shaft Size | |
| Hours of service/day | | | Class of Service | |
| Type of Load: | | Uniform | Moderate | Shock |
| **Screw Conveyor Applications:** | | | | |
| Screw Diameter | | | Drive shaft diameter | |
| **Motor** | HP | RPM | Frame Size | Shaft Size |
| Type of reducer mounting: | | Horizontal | Vertical - Input up | |
| Vertical - Input down | | Incline (degree of) | Flange Mounting | |
| Unusual ambient temperature: | | | | |
| Other important application characteristics (reversing duty, start/stop cycles | | | | |
| | | | | |
| **Reducer Drive Selection:** | | | | |
| **Step 1 -** Determine class of service | | | | |
| **Step 2** - From Class of Service Table, select reducer type, size and ratio that meets Application HP and Driven RPM requirements | | | | |
| Twin Taper Bushed | | Screw Conveyor | | |
| **Step 3 -** Select reducer accessories required for application: | | | | |
| Twin Taper Bushing Kit: | | Standard Shaft | Short Shaft | |
| Rod Assembly | | Backstop | Cooling Fan | |
| Motor Mount | | Belt Guard | Adapter & Hardware Kit | |
| Adjustable Packing Kit | | Drive Shaft | Stainless Drive Shaft | |
| Other | | | | |
| | | | | |
| **Belt Drive Specification:** | | | | |
| Service Factor | Belt Type | Center Distance | Sheave Ratio | |
| Driver: Shaft Diameter | Sheave | Bushing | Belt Size & Qty | |
| Driven: Shaft Diameter | Sheave | Bushing | Belt Size & Qty | |

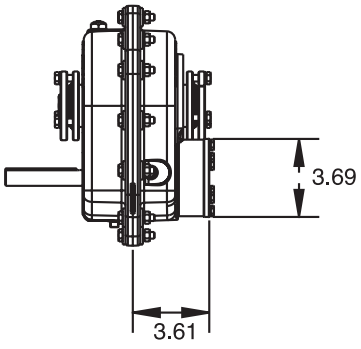
# SELECTION/DIMENSIONS

## TORQUE-ARM II Shaft Mount Speed Reducers

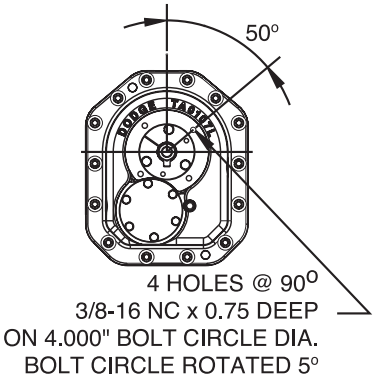
**Taper Bushed Reducers - Ta0107l, Single And Double Reductions**




*1.08 MINIMUM DISTANCE FOR BUSHING SCREW REMOVAL




**REDUCER WITH BACKSTOP**




**FLANGE MOUNTING DIMENSIONS**

# TORQUE-ARM II Shaft Mount Speed Reducers

## Taper Bushed Reducers - TA0107L, Single And Double Reductions

### TA0107L Taper Bushed Reducers [1] ●

| Reducer Size | Part Number | AGMA Code | Actual Ratio | Weight lbs. |
|---|---|---|---|---|
| TA0107L05 | **900004** | 107S05 | 5.20 | 39.6 |
| TA0107L09 | **900003** | 107D09 | 9.00 | 41.2 |
| TA0107L15 | **900002** | 107D15 | 14.93 | 41.1 |
| TA0107L25 | **900001** | 107D25 | 25.09 | 41.0 |
| TA0107L31 | **900000** | 107D31 | 30.94 | 41.2 |

(1) Reducers are supplied from stock ready for vertical mounting and for flange mounting.
Rod assembly is not included with reducer.
Order as a separate part number.

● TA0107L Reducer = Light duty, best value

\+ Rod assembly mounting locations are limited to positions shown in drawing.

### TA0107L Accessories

| Description | Part Number | Weight lbs. |
|---|---|---|
| TA0107RA Rod Assembly [1] + | **900109** | 4.5 |
| TA1107/0107L BS Backstop Assembly [2] | **901102** | 3.9 |
| TA0107MM Motor Mount Assembly (56-215T) [3] | **900090** | 35.4 |
| TA0107BG Belt Guard - Pos. B (56-215T) | **900096** | 40.6 |
| TA0107BG Belt Guard - Pos. C (56-215T) [4] | **900097** | 42.2 |
| TA0107BG Belt Guard - Pos. D (56-215T) | **900099** | 39.0 |
| TA0-TA3 Vertical Breather Kit | **900112** | 2.0 |
| TA0107L V-Ring Kit | **900249** | 0.1 |
| Filter Breather Plug | **430048** | 0.2 |
| TA0107L Lube Kit | **LUBEKITTA0107** | 4.6 |

(2) See page G1-128 for input shaft speed necessary for backstop sprag lift-off.

(3) Motor Mount will fit NEMA and IEC frame motors; however hardware are inch dimensions.

(4) Use Position-C belt guard for TA II reducer in screw conveyor drive applications.

### TA0107L Tapered Bushing Kits [5] [6]

| Bushing Size Standard Shaft Bushing Kit | Part Number [7] | Weight lbs. | Shaft Keyseat Required [9] [10] | Bushing Size Short Shaft Bushing Kit [8] | Part Number | Weight lbs. | Shaft Keyseat Required [9] [10] |
|---|---|---|---|---|---|---|---|
| TA0107TB x 1-7/16 ▲ | **900020** | 1.5 | 3/8 x 3/16 x 6.83 | --- | **---** | --- | --- |
| TA0107TB x 1-3/8 | **900021** | 1.6 | 5/16 x 5/32 x 6.83 | --- | **---** | --- | --- |
| TA0107TB x 1-5/16 | **900022** | 1.8 | 5/16 x 5/32 x 6.83 | --- | **---** | --- | --- |
| TA0107TB x 1-1/4 | **900023** | 1.9 | 1/4 x 1/8 x 6.83 | --- | **---** | --- | --- |
| TA0107TB x 1-3/16 | **900024** | 2.0 | 1/4 x 1/8 x 6.83 | TA0107TBS x 1-3/16 | **900027** | 2.1 | 1/4 x 1/8 x 4.35 |
| TA0107TB x 1-1/8 | **900025** | 2.1 | 1/4 x 1/8 x 6.83 | TA0107TBS x 1-1/8 | **900028** | 2.3 | 1/4 x 1/8 x 4.35 |
| TA0107TB x 1 | **900026** | 2.4 | 1/4 x 1/8 x 6.83 | TA0107TBS x 1 | **900029** | 2.6 | 1/4 x 1/8 x 4.35 |

▲ AGMA maximum bore size

(5) Bushing kit required to mount TA II reducer to driven shaft

(6) Bushing kit is not required to mount TA II reducer on SCS Drive Shaft in a screw conveyor application

(7) Standard Shaft Bushing Kit includes two standard bushings with back-up plates and snap rings; hardware, and key

(8) Short Shaft Bushing Kit includes one standard bushing, one long bushing with insertable wedge; two back-up plates with snap rings; hardware and key. This is an optional bushing for after market, short shaft mounting.

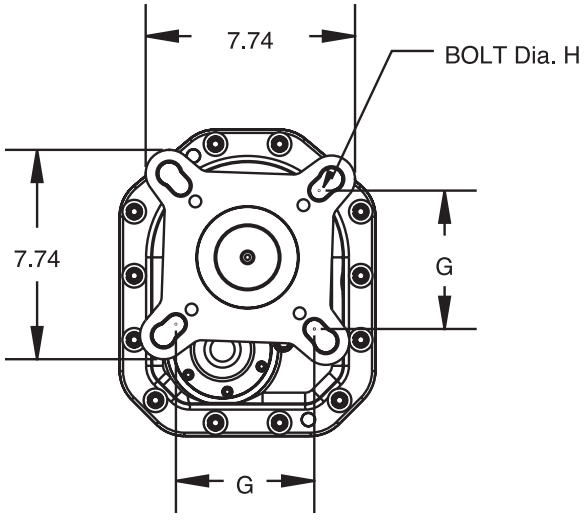
(9) Minimum keyseat and shaft length required to mount reducer with bushing kit

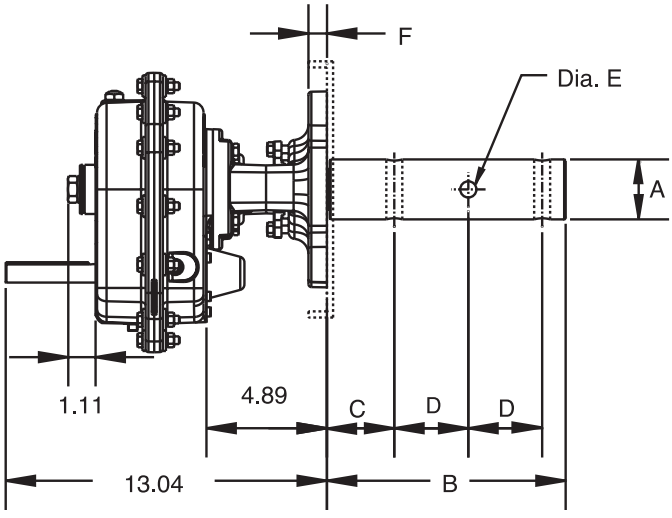
(10) Always check the driven shaft and key for strength

# SELECTION/DIMENSIONS

## TORQUE-ARM II Shaft Mount Speed Reducers

**Screw Conveyor Drive - TA0107L, Single And Double Reductions**



# TORQUE-ARM II Shaft Mount Speed Reducers

## Screw Conveyor Drive - TA0107L, Single And Double Reductions

### TA0107L Screw Conveyor Drive Dimensions

| Screw Dia | Drive Shaft Dia A | Dimensions | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | B | C | D | Hole Dia E | F | G | Bolt Dia H |
| 6, 9 | 1-1/2 | 9.00 | 2.13 | 3.00 | 17/32 | 0.75 | 4.00 | 1/2-13 |
| 9, 12 | 2 | 9.00 | 2.13 | 3.00 | 21/32 | 0.75 | 5.13 | 5/8 |
| 12, 14 | 2-7/16 | 9.69 | 2.75 | 3.00 | 21/32 | 0.75 | 5.63 | 5/8 |
| 12, 14, 16, 18, 20 | 3 | 9.88 | 2.88 | 3.00 | 25/32 | 0.75 | 6.00 | 3/4 |

### TA0107L Accessories for Screw Conveyor Drives (1) (4) (5)

| Description | Part Number | Weight lbs. |
|---|---|---|
| TA0107SCA Adapter & Hardware Kit (2) | **900070** | 14.7 |
| TA0107SCP Adjustable Packing Kit (3) | **900071** | 0.9 |
| TA0107SCS x 1-1/2 Drive Shaft | **900072** | 8.8 |
| TA0107SCS x 2 Drive Shaft | **900073** | 12.0 |
| TA0107SCS x 2-7/16 Drive Shaft | **900074** | 16.5 |
| TA0107SCS x 3 Drive Shaft | **900075** | 22.8 |
| TA0107SCS x 1-1/2 Stainless Steel Drive Shaft | **900080** | 8.8 |
| TA0107SCS x 2 Stainless Steel Drive Shaft | **900081** | 12.0 |
| TA0107SCS x 2-7/16 Stainless Steel Drive Shaft | **900082** | 16.5 |
| TA0107SCS x 3 Stainless Steel Drive Shaft | **900083** | 22.8 |

(1) See page G1-35 for Belt Guard for Screw Conveyor Drive applications

(2) SCA Adapter & Hardware Kit includes adapter, mounting wedge, keeper plate, key, seals and hardware

(3) SCP Adjustable Packing Kit consists of flange, mounting hardware and braided packing seals

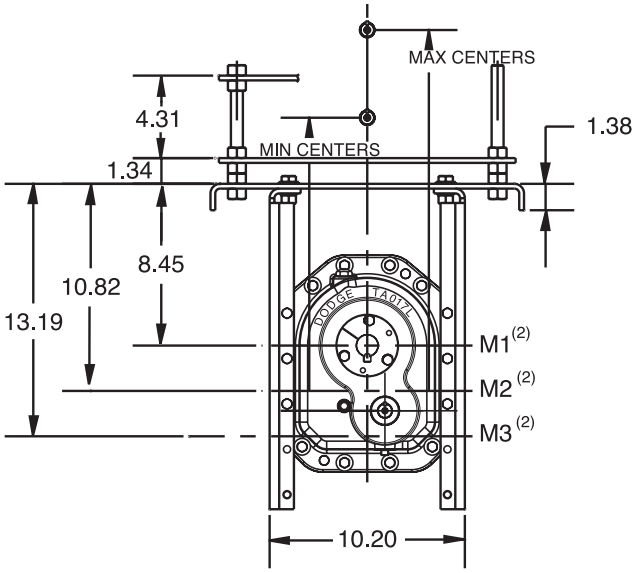
(4) SCS Drive Shaft is a shaft only. Hardware is stocked with the adapter & hardware kit

(5) A complete TA II Screw Conveyor Drive includes a TA II Reducer, SCA Adapter & Hardware Kit and SCS Drive Shaft. The SCP Adjustable Packing Kit is an optional accessory.

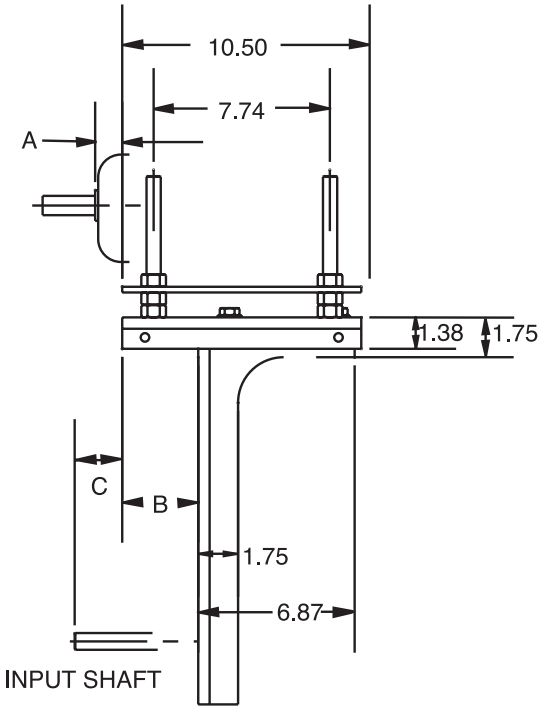
# SELECTION/DIMENSIONS

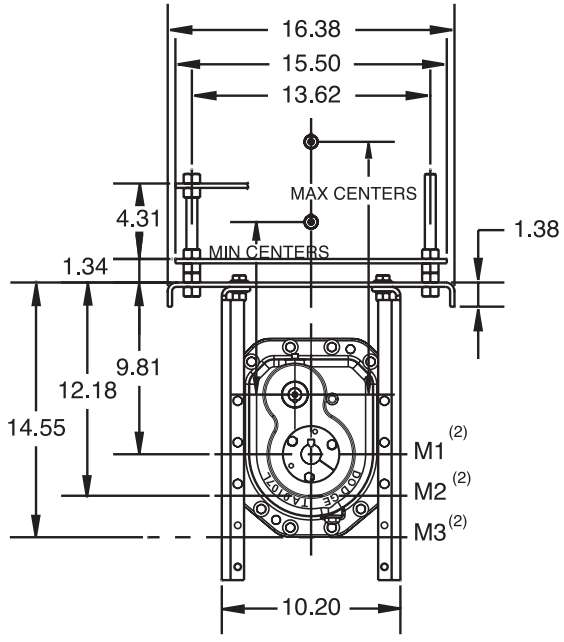
## TORQUE-ARM II Shaft Mount Speed Reducers

### Motor Mount Dimensions - TA0107L, Position B & D




POSITION B




POSITION D

# TORQUE-ARM II Shaft Mount Speed Reducers

## Motor Mount Dimensions - TA0107L, Position B & D (1)

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 56 | | | 143T & 145T | | |
| | | | | | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max |
| Position B | -0.09 | 3.33 | 2.10 | 5.52 | M1 | 0.78 | 17.2 | 21.0 | 1.22 | 17.2 | 21.0 |
| | | | | | M2 | | 19.6 | 23.4 | | 19.6 | 23.4 |
| | | | | | M3 | | 22.0 | 25.8 | | 22.0 | 25.8 |
| Position D | -0.09 | 3.33 | 2.10 | 5.52 | M1 | 0.78 | 11.8 | 15.6 | 1.22 | 11.8 | 15.6 |
| | | | | | M2 | | 14.1 | 17.9 | | 14.1 | 17.9 |
| | | | | | M3 | | 16.5 | 20.3 | | 16.5 | 20.3 |

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 182T & 184T | | | 213T & 215T | | |
| | | | | | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max |
| Position B | -0.09 | 3.33 | 2.10 | 5.52 | M1 | 1.37 | 18.2 | 22.0 | 1.55 | 19.0 | 22.8 |
| | | | | | M2 | | 20.6 | 24.4 | | 21.3 | 25.1 |
| | | | | | M3 | | 23.0 | 26.8 | | 23.7 | 27.5 |
| Position D | -0.09 | 3.33 | 2.10 | 5.52 | M1 | 1.37 | 12.8 | 16.6 | 1.55 | 13.5 | 17.3 |
| | | | | | M2 | | 15.1 | 18.9 | | 15.9 | 19.7 |
| | | | | | M3 | | 17.5 | 21.3 | | 18.3 | 22.1 |

**Note:**

Minimum centers contains 0.5" to allow for belt assembly

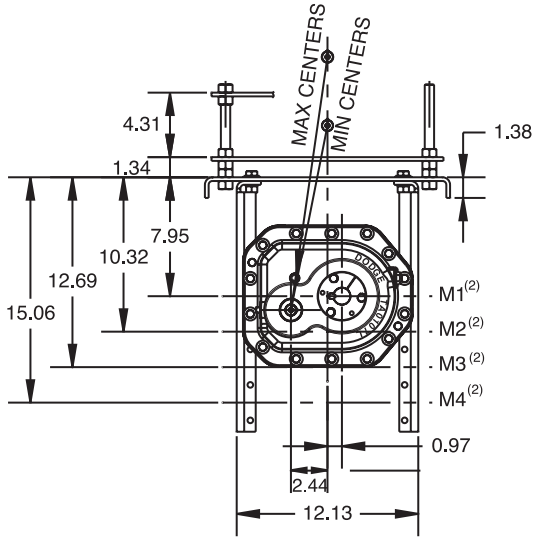
(1) Motor mount will fit NEMA and IEC frame motors; hardware are inch dimensions

(2) M1, M2, M3 go through output shaft centerline

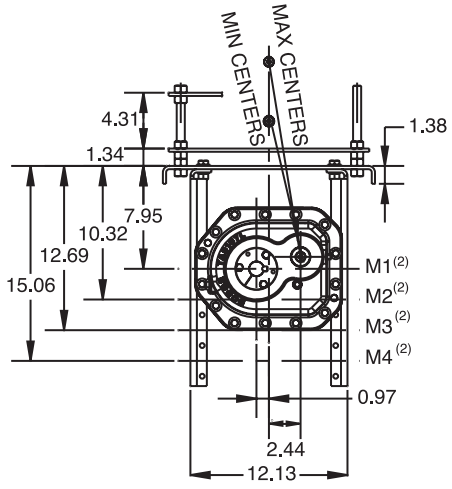
# SELECTION/DIMENSIONS

## TORQUE-ARM II Shaft Mount Speed Reducers

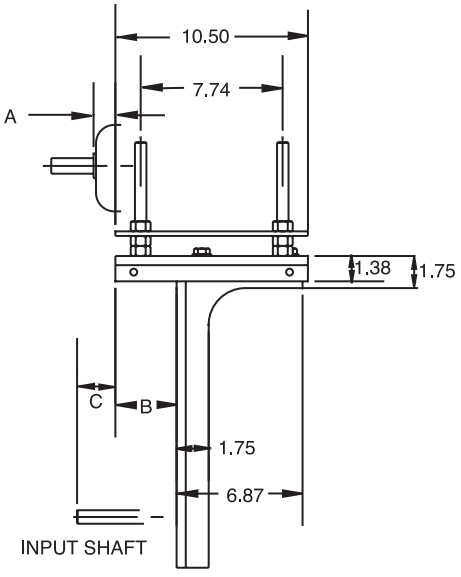
### Motor Mount Dimensions - TA0107L, Position A & C




POSITION A




POSITION C



# TORQUE-ARM II Shaft Mount Speed Reducers

## Motor Mount Dimensions - TA0107L, Position A & C (1) (3)

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 56 | | | 143T & 145T | | |
| | | | | | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max |
| Position A | -0.09 | 3.33 | 3.05 | 6.47 | M1 | 0.78 | 14.4 | 18.2 | 1.22 | 14.4 | 18.2 |
| | | | | | M2 | | 16.8 | 20.5 | | 16.8 | 20.5 |
| | | | | | M3 | | 19.1 | 22.9 | | 19.1 | 22.9 |
| | | | | | M4 | | 21.5 | 25.2 | | 21.5 | 25.2 |
| Position C | -0.09 | 3.33 | 3.05 | 6.47 | M1 | 0.78 | 12.6 | 16.4 | 1.22 | 12.6 | 16.4 |
| | | | | | M2 | | 14.9 | 18.7 | | 14.9 | 18.7 |
| | | | | | M3 | | 17.3 | 21.1 | | 17.3 | 21.1 |
| | | | | | M4 | | 19.6 | 23.4 | | 19.6 | 23.4 |

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 182T & 184T | | | 213T & 215T | | |
| | | | | | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max |
| Position A | -0.09 | 3.33 | 3.05 | 6.47 | M1 | 1.37 | 15.4 | 19.2 | 1.55 | 16.2 | 19.9 |
| | | | | | M2 | | 17.8 | 21.5 | | 18.5 | 22.3 |
| | | | | | M3 | | 20.1 | 23.9 | | 20.8 | 24.6 |
| | | | | | M4 | | 22.5 | 26.2 | | 23.2 | 27.0 |
| Position C | -0.09 | 3.33 | 3.05 | 6.47 | M1 | 1.37 | 13.6 | 17.4 | 1.55 | 14.3 | 18.1 |
| | | | | | M2 | | 15.9 | 19.7 | | 16.7 | 20.4 |
| | | | | | M3 | | 18.3 | 22.1 | | 19.0 | 22.8 |
| | | | | | M4 | | 20.6 | 24.4 | | 21.4 | 25.2 |

**Note:**

Minimum centers contain 0.5" to allow for belt assembly

(1) Motor mount will fit NEMA and IEC frame motors; hardware are inch dimensions

(2) M1, M2, M3, M4 go through output shaft centerline

(3) See Table A, below, for minimum "M" mounting position required for specific screw diameter and reducer size

### Table A - Screw Conveyor Motor Mount Minimum "M" Mounting Positions (1)

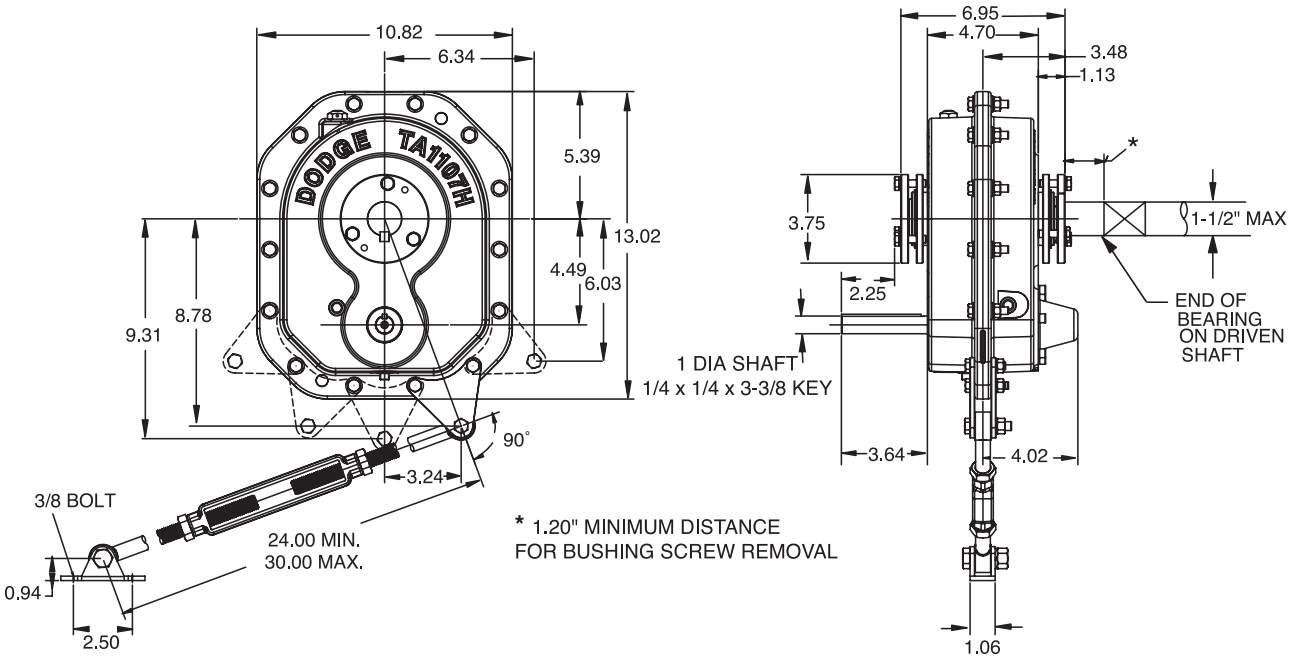
| Nominal Screw Dia | Trough Height Dim | Minimum Mounting Position | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | TA0107L | TA1107H | TA2115H | TA3203H | TA4207H | TA5215H | TA6307H | TA7315H |
| 6 | 7.00 | M2 | M3 | M2 | M2 | M2 | M1 | M1 | M1 |
| 9 | 9.00 | M3 | M4 | M3 | M3 | M2 | M2 | M2 | M1 |
| 12 | 10.00 | M4 | M4 | M3 | M3 | M2 | M2 | M2 | M1 |
| 14 | 11.00 | M4 | M4 | M4 | M3 | M3 | M2 | M2 | M2 |
| 16 | 11.50 | M4 | *** | M4 | M4 | M3 | M2 | M2 | M2 |
| 18 | 12.13 | *** | *** | M4 | M4 | M3 | M3 | M2 | M2 |
| 20 | 13.50 | *** | *** | M4 | M4 | M3 | M3 | M3 | M2 |
| 24 | 16.50 | *** | *** | *** | *** | M4 | M3 | M3 | M3 |

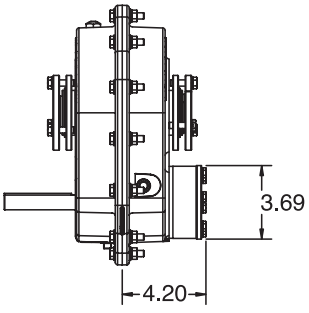
(1) For U Or Flared Trough Ends Per CEMA 300-014

# SELECTION/DIMENSIONS

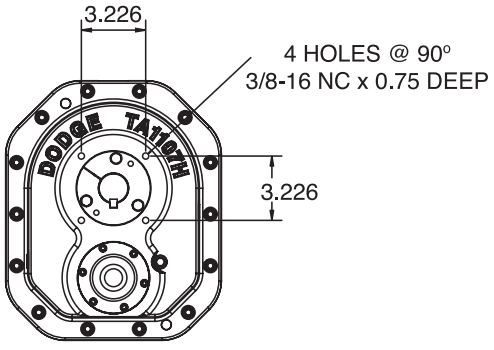
## TORQUE-ARM II Shaft Mount Speed Reducers

### Tapered Bushed Reducers - TA1107H, Single And Double Reduction




REDUCER WITH BACKSTOP




FLANGE MOUNTING DIMENSIONS

# TORQUE-ARM II Shaft Mount Speed Reducers

## Tapered Bushed Reducers - TA1107H, Single And Double Reduction

### TA1107H Taper Bushed Reducers (1) ● ■

| Reducer Size | Part Number | AGMA Code | Actual Ratio | Weight lbs. |
|---|---|---|---|---|
| TA1107H05 | **901004** | 107S05 | 5.00 | 55.4 |
| TA1107H09 | **901003** | 107D09 | 8.99 | 56.8 |
| TA1107H15 | **901002** | 107D15 | 14.91 | 56.7 |
| TA1107H25 | **901001** | 107D25 | 25.06 | 56.7 |
| TA1107H31 | **901000** | 107D31 | 30.91 | 56.8 |

(1) Reducers are supplied from stock ready for vertical mounting and for flange mounting. Rod assembly is not included with reducer. Order as a separate part number.

● TA1107H Reducer - Heavy duty, extended value

■ See page G1-122 for Maximum Bore Straight Bore TA II Reducers

\+ Rod Assembly mounting locations are limited to positions show in drawing.

### TA1107H Accessories

| Description | Part Number | Weight lbs. |
|---|---|---|
| TA1107RA Rod Assembly (1) + | **901109** | 4.5 |
| TA1107H/0107L BS Backstop Assembly (2) | **901102** | 3.9 |
| TA1107MM Motor Mount Assembly (56-254T) (3) | **901090** | 39.5 |
| TA1107BG Belt Guard - Pos. B (56-254T) | **901096** | 40.6 |
| TA1107BG Belt Guard - Pos. C (56-254T) (4) | **901097** | 43.1 |
| TA1107BG Belt Guard - Pos D (56-254T) | **901099** | 43.0 |
| TA0-TA3 - Vertical Breather Kit | **900112** | 2.0 |
| TA1107H - V-Ring Kit | **901249** | 0.1 |
| Filter Breather Plug | **430048** | 0.2 |
| TA1107H Lube Kit | **LUBEKITTA1107** | 4.6 |

(2) See page G1-128 for input shaft speed necessary for backstop sprag lift-off

(3) Motor Mount will fit NEMA and IEC frame motors; however hardware are inch dimensions

(4) Use Position-C belt guard for TA II reducer in screw conveyor drive applications

### TA1107H Tapered Bushing Kits (5) (6)

| Bushing Size Standard Shaft Bushing Kit | Part Number (7) | Weight lbs. | Shaft Keyseat Required (9) (10) | Bushing Size Short Shaft Bushing Kit (8) | Part Number | Weight lbs. | Shaft Keyseat Required (9) (10) |
|---|---|---|---|---|---|---|---|
| TA1107TB x 1-1/2 | **901020** | 3.3 | 3/8 x 3/16 x 6.95 | --- | **---** | --- | --- |
| TA1107TB x 1-7/16 ▲ | **901021** | 3.6 | 3/8 x 3/16 x 6.95 | TA1107TBS x 1-7/16 | **901030** | 3.7 | 3/8 x 3/16 x 4.43 |
| TA1107TB x 1-3/8 | **901022** | 3.5 | 5/16 x 5/32 x 6.95 | TA1107TBS x 1-3/8 | **901031** | 3.8 | 5/16 x 5/32 x 4.43 |
| TA1107TB x 1-5/16 | **901023** | 3.8 | 5/16 x 5/32 x 6.95 | TA1107TBS x 1-5/16 | **901032** | 4 | 5/16 x 5/32 x 4.43 |
| TA1107TB x 1-1/4 | **901024** | 3.7 | 1/4 x 1/8 x 6.95 | TA1107TBS x 1-1/4 | **901033** | 4.1 | 1/4 x 1/8 x 4.43 |
| TA1107TB x 1-3/16 | **901025** | 3.8 | 1/4 x 1/8 x 6.95 | TA1107TBS x 1-3/16 | **901034** | 4.2 | 1/4 x 1/8 x 4.43 |
| TA1107TB x 1-1/8 | **901026** | 4.0 | 1/4 x 1/8 x 6.95 | TA1107TBS x 1-1/8 | **901035** | 4.4 | 1/4 x 1/8 x 4.43 |
| TA1107TB x 1-1/16 | **901027** | 4.0 | 1/4 x 1/8 x 6.95 | TA1107TBS x 1-1/16 | **901036** | 4.5 | 1/4 x 1/8 x 4.43 |
| TA1107TB x 1 | **901028** | 4.2 | 1/4 x 1/8 x 6.95 | TA1107TBS x 1 | **901037** | 4.7 | 1/4 x 1/8 x 4.43 |

▲ AGMA maximum bore size

(5) Bushing kit required to mount TA II reducer to driven shaft

(6) Bushing kit is not required to mount TA II reducer on SCS Drive Shaft in a screw conveyor application

(7) Standard Shaft Bushing Kit includes two standard bushings with back-up plates and snap rings; hardware, and key.

(8) Short Shaft Bushing Kit includes one standard bushing, one long bushing with insertable wedge; two back-up plates with snap rings; hardware and key. This is an optional bushing for after market, short shaft mounting.

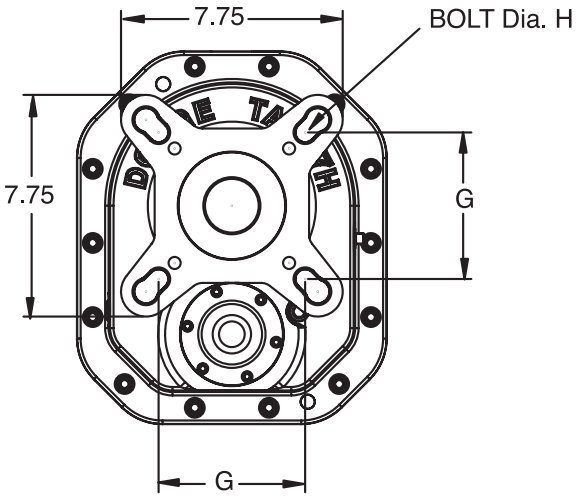
(9) Minimum keyseat and shaft length required to mount reducer with bushing kit

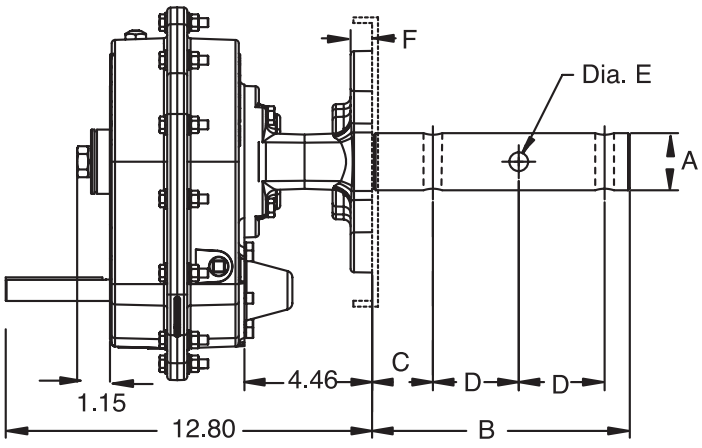
(10) Always check the driven shaft and key for strength

# SELECTION/DIMENSIONS

## TORQUE-ARM II Shaft Mount Speed Reducers

**Screw Conveyor Drive - Ta1107h, Single And Double Reduction**



# TORQUE-ARM II Shaft Mount Speed Reducers

## Screw Conveyor Drive - TA1107H, Single And Double Reduction

### TA1107H Screw Conveyor Drive Dimensions

| Screw Dia | Drive Shaft Dia A | Dimensions | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | B | C | D | Hole Dia E | F | G | Bolt Dia H |
| 6, 9 | 1-1/2 | 9.00 | 2.13 | 3.00 | 17/32 | 0.75 | 4.00 | 1/2-13 |
| 9, 12 | 2 | 9.00 | 2.13 | 3.00 | 21/32 | 0.75 | 5.13 | 5/8 |
| 12, 14 | 2-7/16 | 9.69 | 2.75 | 3.00 | 21/32 | 0.75 | 5.63 | 5/8 |
| 12, 14, 16, 18, 20 | 3 | 9.88 | 2.88 | 3.00 | 25/32 | 0.75 | 6.00 | 3/4 |

### TA1107H Accessories for Screw Conveyor Drives (1) (4) (5)

| Description | Part Number | Weight lbs. |
|---|---|---|
| TA1107SCA Adapter & Hardware Kit (2) | **901070** | 15.2 |
| TA1107SCP Adjustable Packing Kit (3) | **901071** | 0.8 |
| TA1107SCS x 1-1/2 Drive Shaft | **901072** | 10.3 |
| TA1107SCS x 2 Drive Shaft | **901073** | 13.5 |
| TA1107SCS x 2-7/16 Drive Shaft | **901074** | 18.1 |
| TA1107SCS x 3 Drive Shaft | **901075** | 24.4 |
| TA1107SCS x 1-1/2 Stainless Steel Drive Shaft | **901080** | 10.3 |
| TA1107SCS x 2 Stainless Steel Drive Shaft | **901081** | 13.5 |
| TA1107SCS x 2-7/16 Stainless Steel Drive Shaft | **901082** | 18.1 |
| TA1107SCS x 3 Stainless Steel Drive Shaft | **901083** | 24.4 |

(1) See page G1-43 for Belt Guard for Screw Conveyor Drive applications

(2) SCA Adapter & Hardware Kit includes adapter, mounting wedge, keeper plate, key, seals and hardware

(3) SCP Adjustable Packing Kit consists of flange, mounting hardware and braided packing seals

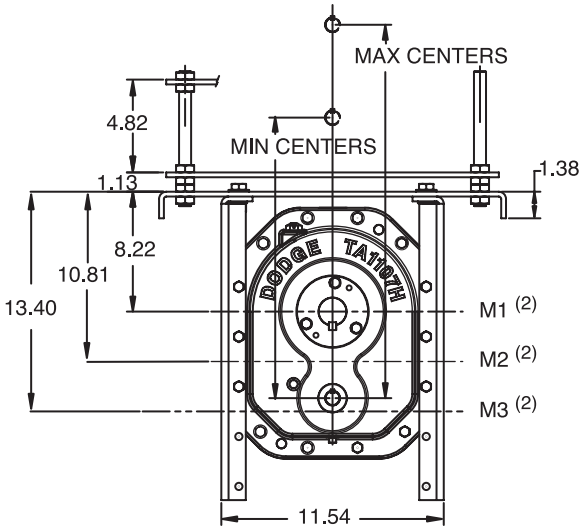
(4) SCS Drive Shaft is a shaft only. Hardware is stocked with the adapter & hardware kit

(5) A complete TA II Screw Conveyor Drive includes a TA II Reducer, SCA Adapter & Hardware Kit and SCS Drive Shaft. The SCP Adjustable Packing Kit is an optional accessory.

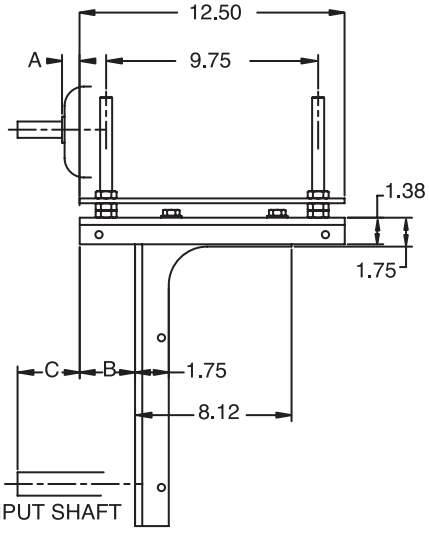
# SELECTION/DIMENSIONS

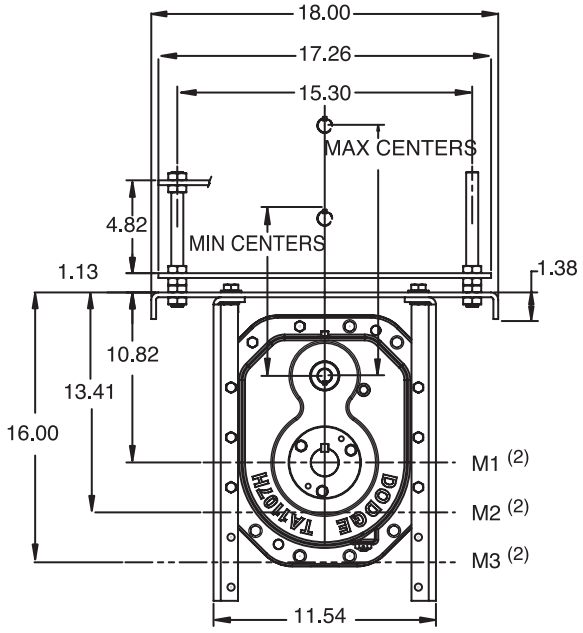
## TORQUE-ARM II Shaft Mount Speed Reducers

### Motor Mount Dimensions - TA1107H, Position B & D




POSITION B




POSITION D

# TORQUE-ARM II Shaft Mount Speed Reducers

## Motor Mount Dimensions - TA1107H, Position B & D (1)

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 56 | | | 143T & 145T | | |
| | | | | | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max |
| Position B | -0.09 | 3.33 | 2.06 | 5.48 | M1 | 0.78 | 17.7 | 22.0 | 1.22 | 17.7 | 22.0 |
| | | | | | M2 | | 20.3 | 24.6 | | 20.3 | 24.6 |
| | | | | | M3 | | 22.9 | 27.2 | | 22.9 | 27.2 |
| Position D | -0.09 | 3.33 | 2.06 | 5.48 | M1 | 0.78 | 11.3 | 15.7 | 1.22 | 11.3 | 15.7 |
| | | | | | M2 | | 13.9 | 18.2 | | 13.9 | 18.2 |
| | | | | | M3 | | 16.5 | 20.8 | | 16.5 | 20.8 |

| Mounting | Motor Mount Height (2) | Motor Frame | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 182T & 184T | | | 213T & 215T | | | 254T | | |
| | | A | Centers | | A | Centers | | A | Centers | |
| | | | Min | Max | | Min | Max | | Min | Max |
| Position B | M1 | 1.37 | 18.7 | 23.0 | 1.55 | 19.5 | 23.8 | 1.56 | 20.5 | 24.8 |
| | M2 | | 21.3 | 25.6 | | 22.1 | 26.4 | | 23.1 | 27.4 |
| | M3 | | 23.9 | 28.2 | | 24.6 | 29.0 | | 25.6 | 30.0 |
| Position D | M1 | 1.37 | 12.3 | 16.7 | 1.55 | 13.1 | 17.4 | 1.56 | 14.1 | 18.4 |
| | M2 | | 14.9 | 19.2 | | 15.7 | 20.0 | | 16.7 | 21.0 |
| | M3 | | 17.5 | 21.8 | | 18.3 | 22.6 | | 19.3 | 23.6 |

**Note:**

Minimum centers contains 0.5” to allow for belt assembly

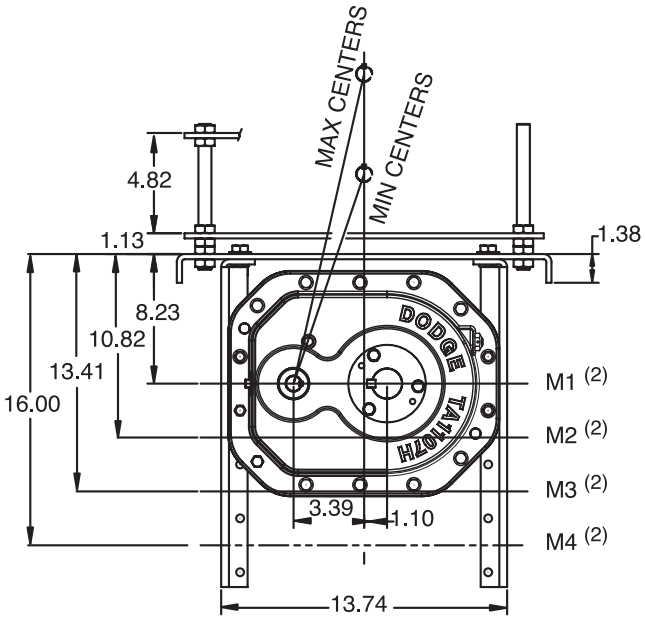
(1) Motor mount will fit NEMA and IEC frame motors; hardware are inch dimensions

(2) M1, M2, M3 go through output shaft centerline

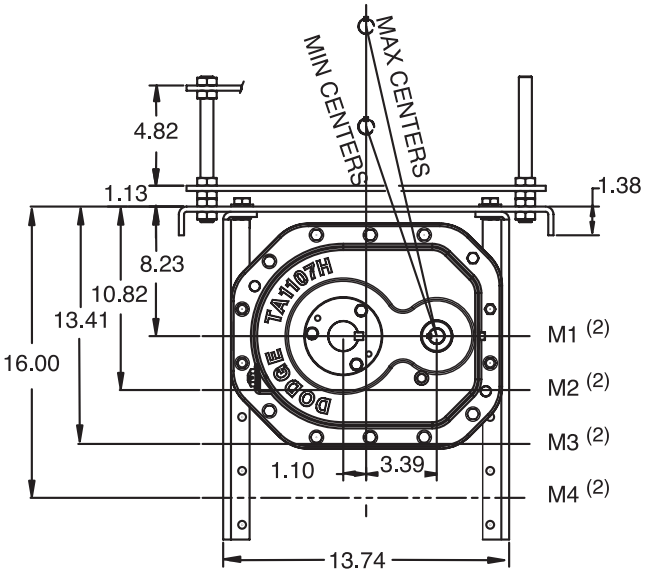
# SELECTION/DIMENSIONS

## TORQUE-ARM II Shaft Mount Speed Reducers

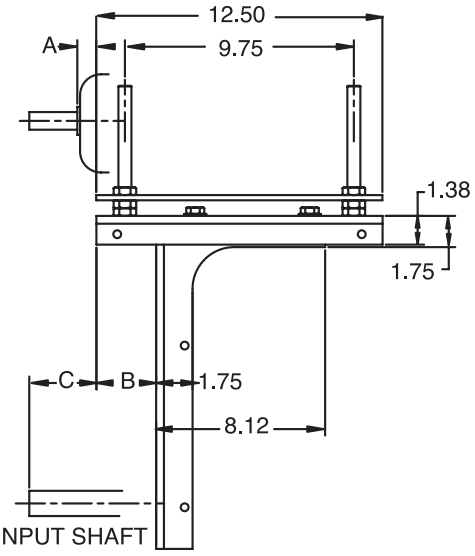
### Motor Mount Dimensions - TA1107H, Position A & C




POSITION A




POSITION C



# TORQUE-ARM II Shaft Mount Speed Reducers

## Motor Mount Dimensions - TA1107H, Position A & C (1) (3)

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 56 | | | 143T & 145T | | |
| | | | | | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max |
| Position A | -0.09 | 3.33 | 3.01 | 6.43 | M1 | 0.78 | 13.8 | 17.9 | 1.22 | 13.8 | 17.9 |
| | | | | | M2 | | 16.2 | 20.5 | | 16.2 | 20.5 |
| | | | | | M3 | | 18.8 | 23.0 | | 18.8 | 23.0 |
| | | | | | M4 | | 21.3 | 25.6 | | 21.3 | 25.6 |
| Position C | -0.09 | 3.33 | 3.01 | 6.43 | M1 | 0.78 | 13.8 | 17.9 | 1.22 | 13.8 | 17.9 |
| | | | | | M2 | | 16.2 | 20.5 | | 16.2 | 20.5 |
| | | | | | M3 | | 18.8 | 23.0 | | 18.8 | 23.0 |
| | | | | | M4 | | 21.3 | 25.6 | | 21.3 | 25.6 |

| Mounting | Motor Mount Height (2) | Motor Frame | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 182T & 184T | | | 213T & 215T | | | 254T | | |
| | | A | Centers | | A | Centers | | A | Centers | |
| | | | Min | Max | | Min | Max | | Min | Max |
| Position A | M1 | 1.37 | 14.7 | 18.9 | 1.55 | 15.4 | 19.6 | 1.56 | 16.4 | 20.6 |
| | M2 | | 17.2 | 21.4 | | 17.9 | 22.2 | | 18.9 | 23.2 |
| | M3 | | 19.7 | 24.0 | | 20.5 | 24.7 | | 21.5 | 25.7 |
| | M4 | | 22.3 | 26.6 | | 23.0 | 27.3 | | 24.0 | 28.3 |
| Position C | M1 | 1.37 | 14.7 | 18.9 | 1.55 | 15.4 | 19.6 | 1.56 | 16.4 | 20.6 |
| | M2 | | 17.2 | 21.4 | | 17.9 | 22.2 | | 18.9 | 23.2 |
| | M3 | | 19.7 | 24.0 | | 20.5 | 24.7 | | 21.5 | 25.7 |
| | M4 | | 22.3 | 26.6 | | 23.0 | 27.3 | | 24.0 | 28.3 |

**Note:**

Minimum centers contains 0.5” to allow for belt assembly

(1) Motor mount will fit NEMA and IEC frame motors; hardware are inch dimensions

(2) M1, M2, M3, M4 go through output shaft centerline

(3) See Table A, below, for minimum “M” mounting position required for specific screw diameter and reducer size

### Table A - Screw Conveyor Motor Mount Minimum “M” Mounting Positions (1)

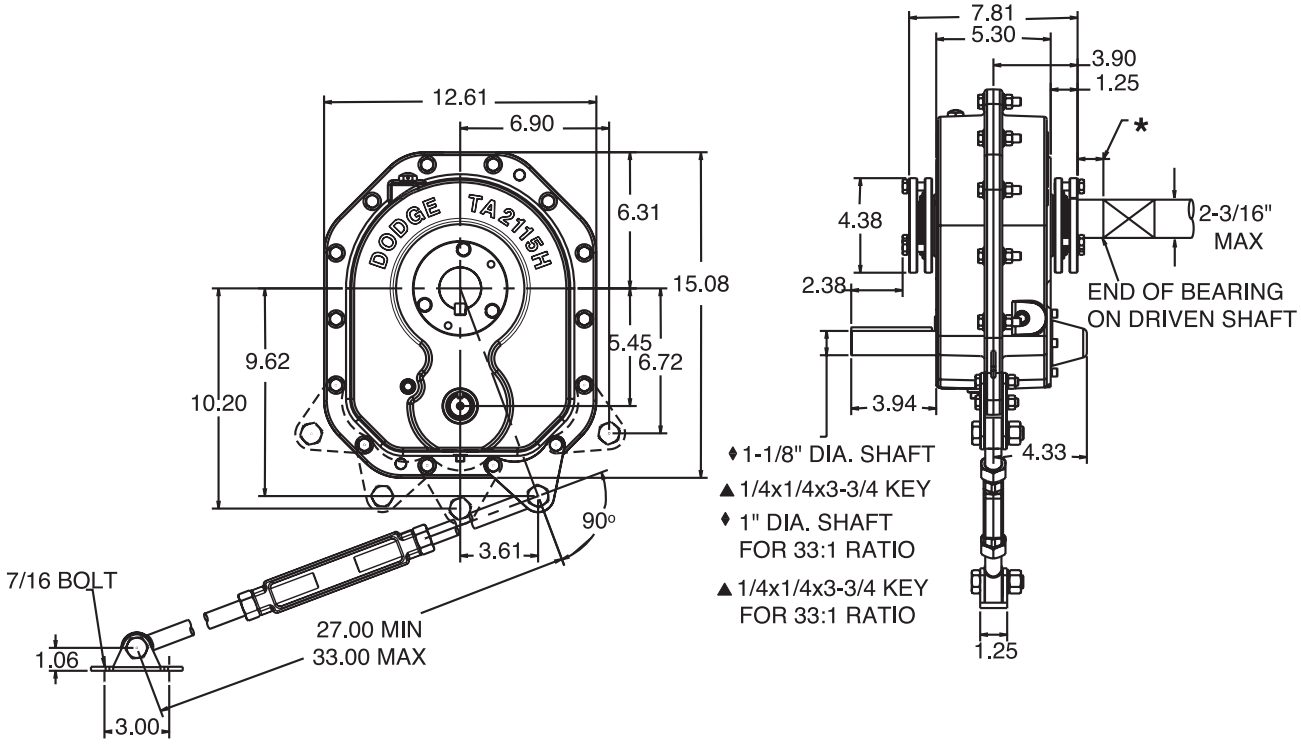
| Nominal Screw Dia | Trough Height Dim | Minimum Mounting Position | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | TA0107L | TA1107H | TA2115H | TA3203H | TA4207H | TA5215H | TA6307H | TA7315H |
| 6 | 7.00 | M2 | M3 | M2 | M2 | M2 | M1 | M1 | M1 |
| 9 | 9.00 | M3 | M4 | M3 | M3 | M2 | M2 | M2 | M1 |
| 12 | 10.00 | M4 | M4 | M3 | M3 | M2 | M2 | M2 | M1 |
| 14 | 11.00 | M4 | M4 | M4 | M3 | M3 | M2 | M2 | M2 |
| 16 | 11.50 | M4 | *** | M4 | M4 | M3 | M2 | M2 | M2 |
| 18 | 12.13 | *** | *** | M4 | M4 | M3 | M3 | M2 | M2 |
| 20 | 13.50 | *** | *** | M4 | M4 | M3 | M3 | M3 | M2 |
| 24 | 16.50 | *** | *** | *** | *** | M4 | M3 | M3 | M3 |

(1) For U Or Flared Trough Ends Per CEMA 300-014

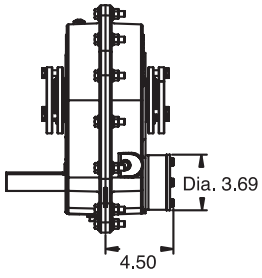
# SELECTION/DIMENSIONS

## TORQUE-ARM II Shaft Mount Speed Reducers

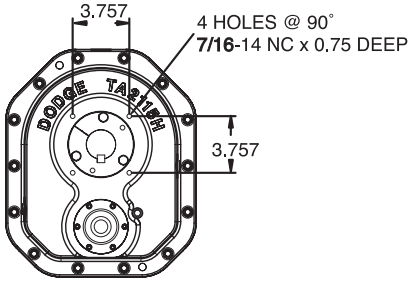
**Taper Bushed Reducer - TA2115H, Single And Double Reduction**




* 1.20" MINIMUM DISTANCE FOR BUSHING SCREW REMOVAL




REDUCER WITH BACKSTOP




FLANGE MOUNTING DIMENSIONS

# TORQUE-ARM II Shaft Mount Speed Reducers

## Taper Bushed Reducer - TA2115H, Single And Double Reduction

### TA2115H Taper Bushed Reducers (1)

| Reducer Size | Part Number | AGMA Code | Actual Ratio | Weight lbs. |
|---|---|---|---|---|
| TA2115H05 | **902004** | 115S05 | 5.20 | 84.2 |
| TA2115H09 | **902003** | 115D09 | 9.10 | 86.5 |
| TA2115H15 | **902002** | 115D15 | 15.62 | 86.3 |
| TA2115H25 | **902001** | 115D25 | 25.07 | 86.1 |
| TA2115H33 | **902000** | 115D33 | 33.33 | 85.7 |

(1) Reducers are supplied from stock ready for vertical mounting and for flange mounting. Rod assembly is not included with reducer. Order as a separate part number.

\+ Rod Assembly mounting locations are limited to positions shown in drawing

### TA2115H Accessories

| Description | Part Number | Weight lbs. |
|---|---|---|
| TA2115RA Rod Assembly (1) + | **902109** | 6.9 |
| TA2115BS Backstop Assembly (2) | **902102** | 3.9 |
| TA2115MM Motor Mount Assembly (56-256T) (3) | **902090** | 52.6 |
| TA2115BG Belt Guard - Pos. B (56-256T) | **902096** | 47.7 |
| TA2115BG Belt Guard - Pos. C (56-256T) (4) | **902097** | 52.1 |
| TA2115BG Belt Guard - Pos. D (56-256T) | **902099** | 51.0 |
| TA0-TA3 Vertical Breather Kit | **900112** | 2.0 |
| TA2115H V-Ring Kit | **902249** | 0.2 |
| Filter Breather Plug | **430048** | 0.2 |
| TA2115H Lube Kit | **LUBEKITTA2115** | 8.1 |

(2) See page G1-128 for input shaft speed necessary for backstop sprag lift-off

(3) Motor Mount will fit NEMA and IEC frame motors; however hardware are inch dimensions

(4) Use Position-C belt guard for TA II reducer in screw conveyor drive applications

### TA2115H Tapered Bushing Kits (5) (6)

| Bushing Size Standard Shaft Bushing Kit | Part Number (7) | Weight lbs. | Shaft Keyseat Required (9) (10) | Bushing Size Short Shaft Bushing Kit (8) | Part Number | Weight lbs. | Shaft Keyseat Required (9) (10) |
|---|---|---|---|---|---|---|---|
| TA2115TB x 2-3/16 | **902020** | 4.7 | 1/2 x 1/4 x 7.80 | --- | **---** | --- | --- |
| TA2115TB x 2 | **902022** | 5.2 | 1/2 x 1/4 x 7.80 | --- | **---** | --- | --- |
| TA2115TB x 1-15/16 ▲ | **902023** | 5.4 | 1/2 x 1/4 x 7.80 | TA2115TBS x 1-15/16 | **902030** | 5.6 | 1/2 x 1/4 x 4.80 |
| TA2115TB x 1-7/8 | **902024** | 5.6 | 1/2 x 1/4 x 7.80 | TA2115TBS x 1-7/8 | **902031** | 5.9 | 1/2 x 1/4 x 4.80 |
| TA2115TB x 1-3/4 | **902025** | 5.8 | 3/8 x 3/16 x 7.80 | TA2115TBS x 1-3/4 | **902032** | 6 | 3/8 x 3/16 x 4.80 |
| TA2115TB x 1-11/16 | **902026** | 6.1 | 3/8 x 3/16 x 7.80 | TA2115TBS x 1-11/16 | **902033** | 6.6 | 3/8 x 3/16 x 4.80 |
| TA2115TB x 1-5/8 | **902027** | 6.0 | 3/8 x 3/16 x 7.80 | TA2115TBS x 1-5/8 | **902034** | 6.8 | 3/8 x 3/16 x 4.80 |
| TA2115TB x 1-1/2 | **902028** | 6.4 | 3/8 x 3/16 x 7.80 | TA2115TBS x 1-1/2 | **902035** | 7.3 | 3/8 x 3/16 x 4.80 |
| TA2115TB x 1-7/16 | **902029** | 6.4 | 3/8 x 3/16 x 7.80 | TA2115TBS x 1-7/16 | **902036** | 7.4 | 3/8 x 3/16 x 4.80 |
| TA2115TB x 1-3/8 | **902060** | 6.5 | 5/16 x 5/32 x 7.80 | TA2115TBS x 1-3/8 | **902037** | 7.6 | 5/16 x 5/32 x 4.80 |
| TA2115TB x 1-5/16 | **902061** | 6.7 | 5/16 x 5/32 x 7.80 | TA2115TBS x 1-5/16 | **902038** | 7.8 | 5/16 x 5/32 x 4.80 |

▲ AGMA maximum bore size

(5) Bushing kit required to mount TA II reducer to driven shaft

(6) Bushing kit is not required to mount TA II reducer on SCS Drive Shaft in a screw conveyor application

(7) Standard Shaft Bushing Kit includes two standard bushings with back-up plates and snap rings; hardware, and key

(8) Short Shaft Bushing Kit includes one standard bushing, one long bushing with insertable wedge; two back-up plates with snap rings; hardware and key. This is an optional bushing for after market, short shaft mounting.

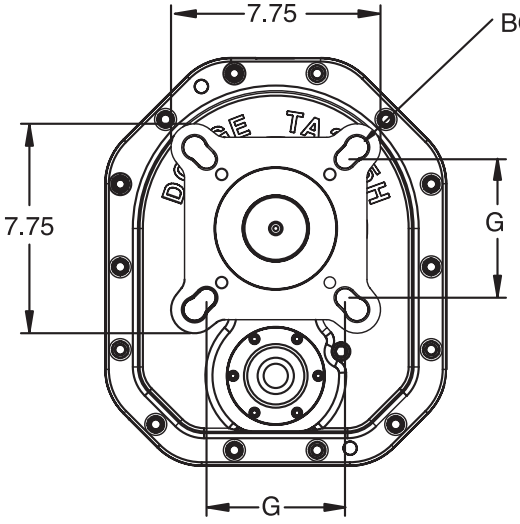
(9) Minimum keyseat and shaft length required to mount reducer with bushing kit

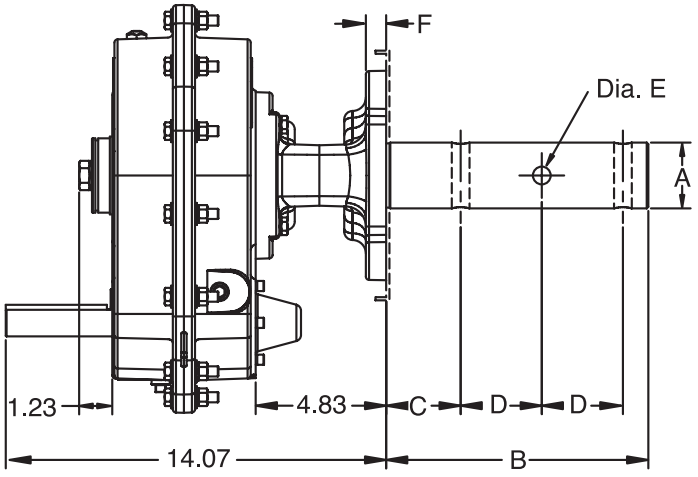
(10) Always check the driven shaft and key for strength

# SELECTION/DIMENSIONS

## TORQUE-ARM II Shaft Mount Speed Reducers

**Screw Conveyor Drive - TA2115H, Single And Double Reduction**



# TORQUE-ARM II Shaft Mount Speed Reducers

## Screw Conveyor Drive - TA2115H, Single And Double Reduction

### TA2115H Screw Conveyor Drive Dimensions

| Screw Dia | Drive Shaft Dia A | Dimensions | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | B | C | D | Hole Dia E | F | G | Bolt Dia H |
| 6, 9 | 1-1/2 | 9.00 | 2.13 | 3.00 | 17/32 | 0.75 | 4.00 | 1/2-13 |
| 9, 12 | 2 | 9.00 | 2.13 | 3.00 | 21/32 | 0.75 | 5.13 | 5/8 |
| 12, 14 | 2-7/16 | 9.69 | 2.75 | 3.00 | 21/32 | 0.75 | 5.63 | 5/8 |
| 12, 14, 16, 18, 20 | 3 | 9.88 | 2.88 | 3.00 | 25/32 | 0.75 | 6.00 | 3/4 |

### TA2115H Accessories for Screw Conveyor Drives (1) (4) (5)

| Description | Part Number | Weight lbs. |
|---|---|---|
| TA2115SCA Adapter & Hardware Kit (2) | **902070** | 19.2 |
| TA2115SCP Adjustable Packing Kit (3) | **902071** | 1.2 |
| TA2115SCS x 1-1/2 Drive Shaft | **902072** | 15.4 |
| TA2115SCS x 2 Drive Shaft | **902073** | 18.6 |
| TA2115SCS x 2-7/16 Drive Shaft | **902074** | 23.3 |
| TA2115SCS x 3 Drive Shaft | **902075** | 29.5 |
| TA2115SCS x 1-1/2 Stainless Steel Drive Shaft | **902080** | 15.4 |
| TA2115SCS x 2 Stainless Steel Drive Shaft | **902081** | 18.6 |
| TA2115SCS x 2-7/16 Stainless Steel Drive Shaft | **902082** | 23.3 |
| TA2115SCS x 3 Stainless Steel Drive Shaft | **902083** | 29.5 |

(1) See page G1-51 for Belt Guard for Screw Conveyor Drive applications

(2) SCA Adapter & Hardware Kit includes adapter, mounting wedge, keeper plate, key, seals and hardware

(3) SCP Adjustable Packing Kit consists of flange, mounting hardware and braided packing seals

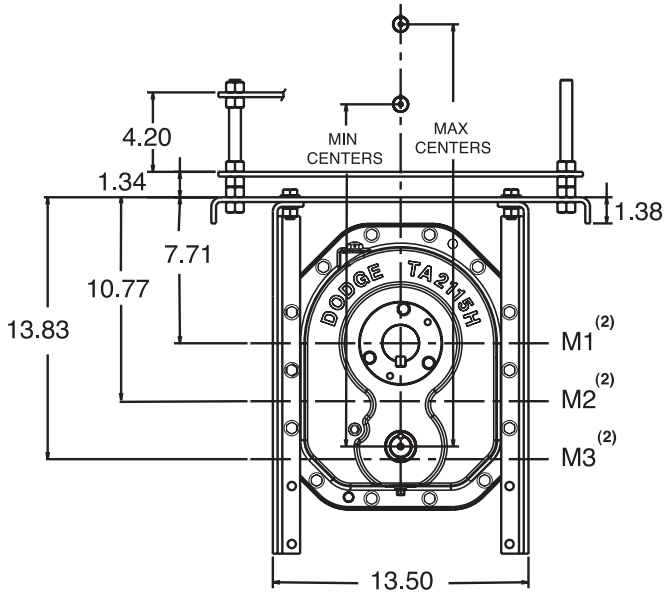
(4) SCS Drive Shaft is a shaft only. Hardware is stocked with the adapter & hardware kit

(5) A complete TA II Screw Conveyor Drive includes a TA II Reducer, SCA Adapter & Hardware Kit and SCS Drive Shaft. The SCP Adjustable Packing Kit is an optional accessory.

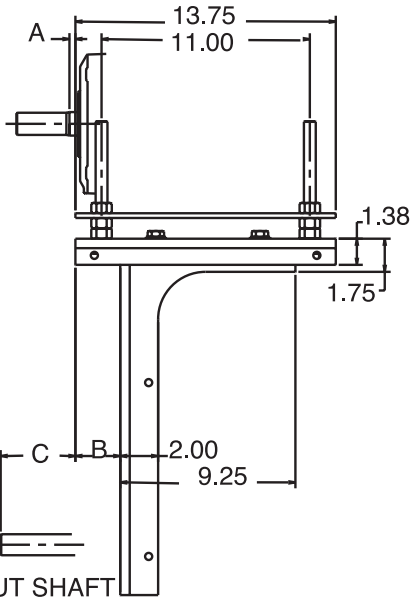
# SELECTION/DIMENSIONS

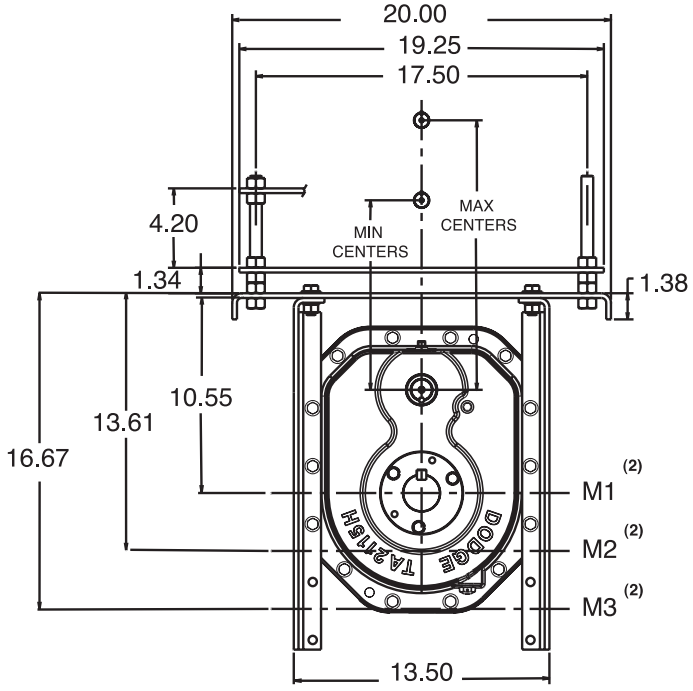
## TORQUE-ARM II Shaft Mount Speed Reducers

### Motor Mount Dimensions - TA2115H, Position B & D




POSITION B




POSITION D

# TORQUE-ARM II Shaft Mount Speed Reducers

## Motor Mount Dimensions - TA2115H, Position B & D (1)

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 56 | | | 143T & 145T | | |
| | | | | | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max |
| Position B | 0.19 | 3.61 | 2.32 | 5.74 | M1 | 0.78 | 18.5 | 22.2 | 1.22 | 18.5 | 22.2 |
| | | | | | M2 | | 21.6 | 25.3 | | 21.6 | 25.3 |
| | | | | | M3 | | 24.6 | 28.3 | | 24.6 | 28.3 |
| Position D | 0.19 | 3.61 | 2.32 | 5.74 | M1 | 0.78 | 10.4 | 14.1 | 1.22 | 10.4 | 14.1 |
| | | | | | M2 | | 13.5 | 17.2 | | 13.5 | 17.2 |
| | | | | | M3 | | 16.6 | 20.3 | | 16.6 | 20.3 |

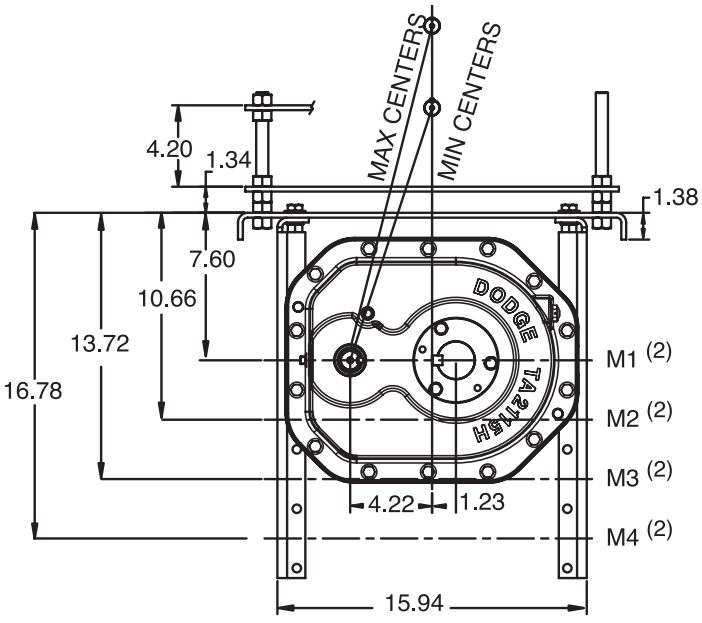
| Mounting | Motor Mount Height (2) | Motor Frame | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 182T & 184T | | | 213T & 215T | | | 254T & 256T | | |
| | | A | Centers | | A | Centers | | A | Centers | |
| | | | Min | Max | | Min | Max | | Min | Max |
| Position B | M1 | 1.37 | 19.5 | 23.2 | 1.55 | 20.3 | 24.0 | 1.56 | 21.3 | 25.0 |
| | M2 | | 22.6 | 26.3 | | 23.3 | 27.0 | | 24.3 | 28.0 |
| | M3 | | 25.6 | 29.3 | | 26.4 | 30.1 | | 27.4 | 31.1 |
| Position D | M1 | 1.37 | 11.4 | 15.1 | 1.55 | 12.2 | 15.9 | 1.56 | 13.2 | 16.9 |
| | M2 | | 14.5 | 18.2 | | 15.3 | 19.0 | | 16.3 | 20.0 |
| | M3 | | 17.6 | 21.3 | | 18.3 | 22.0 | | 19.3 | 23.0 |

**Note:**
Minimum centers contain 0.5” to allow for belt assembly
(1) Motor mount will fit NEMA and IEC frame motors; hardware are inch dimensions
(2) M1, M2, M3 go through output shaft centerline

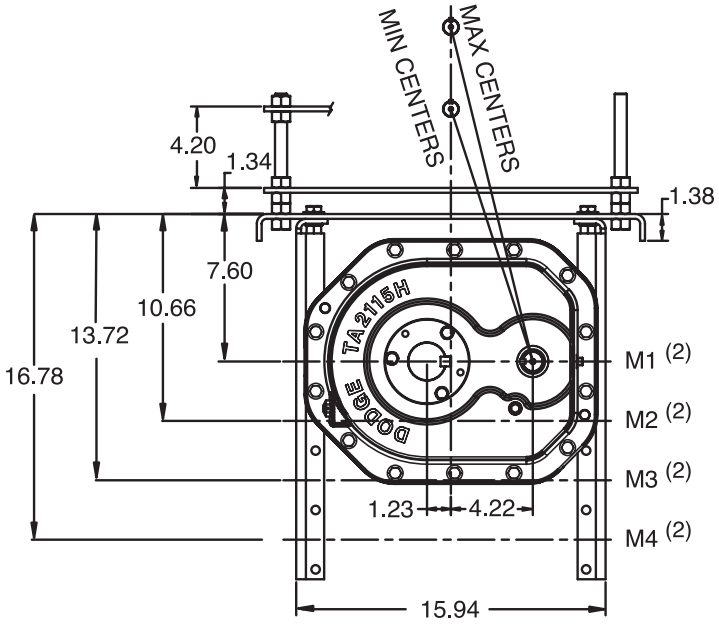
# SELECTION/DIMENSIONS

## TORQUE-ARM II Shaft Mount Speed Reducers

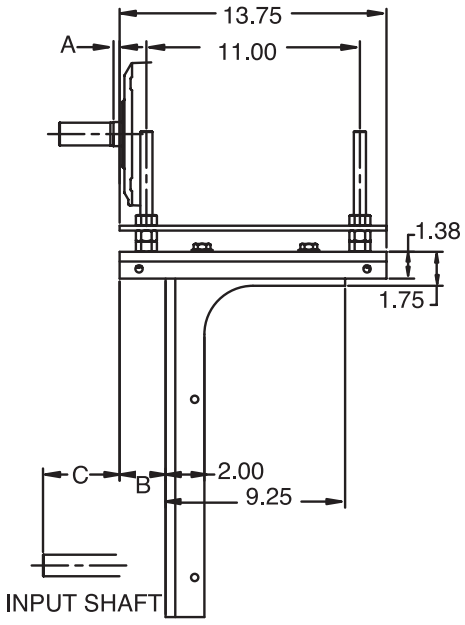
### Motor Mount Dimensions - TA2115H, Position A & C




POSITION A




POSITION C



# TORQUE-ARM II Shaft Mount Speed Reducers

## Motor Mount Dimensions - TA2115H, Position A & C (1) (3)

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 56 | | | 143T & 145T | | |
| | | | | | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max |
| Position A | 0.19 | 3.61 | 3.39 | 6.81 | M1 | 0.78 | 13.6 | 17.2 | 1.22 | 13.6 | 17.2 |
| | | | | | M2 | | 16.6 | 20.1 | | 16.6 | 20.1 |
| | | | | | M3 | | 19.5 | 23.1 | | 19.5 | 23.1 |
| | | | | | M4 | | 22.5 | 26.2 | | 22.5 | 26.2 |
| Position C | 0.19 | 3.61 | 3.39 | 6.81 | M1 | 0.78 | 13.6 | 17.2 | 1.22 | 13.6 | 17.2 |
| | | | | | M2 | | 16.6 | 20.1 | | 16.6 | 20.1 |
| | | | | | M3 | | 19.5 | 23.1 | | 19.5 | 23.1 |
| | | | | | M4 | | 22.5 | 26.2 | | 22.5 | 26.2 |

| Mounting | Motor Mount Height (2) | Motor Frame | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 182T & 184T | | | 213T & 215T | | | 254T & 256T | | |
| | | A | Centers | | A | Centers | | A | Centers | |
| | | | Min | Max | | Min | Max | | Min | Max |
| Position A | M1 | 1.37 | 14.6 | 18.1 | 1.55 | 15.3 | 18.9 | 1.56 | 16.3 | 19.8 |
| | M2 | | 17.5 | 21.1 | | 18.3 | 21.9 | | 19.2 | 22.8 |
| | M3 | | 20.5 | 24.1 | | 21.2 | 24.9 | | 22.2 | 25.9 |
| | M4 | | 23.5 | 27.1 | | 24.2 | 27.9 | | 25.2 | 28.9 |
| Position C | M1 | 1.37 | 14.6 | 18.1 | 1.55 | 15.3 | 18.9 | 1.56 | 16.3 | 19.8 |
| | M2 | | 17.5 | 21.1 | | 18.3 | 21.9 | | 19.2 | 22.8 |
| | M3 | | 20.5 | 24.1 | | 21.2 | 24.9 | | 22.2 | 25.9 |
| | M4 | | 23.5 | 27.1 | | 24.2 | 27.9 | | 25.2 | 28.9 |

**Note:**
Minimum centers contain 0.5” to allow for belt assembly
(1) Motor mount will fit NEMA and IEC frame motors; hardware are inch dimensions
(2) M1, M2, M3, M4 go through output shaft centerline
(3) See Table A, below, for minimum “M” mounting position required for specific screw diameter and reducer size

### Table A - Screw Conveyor Motor Mount Minimum “M” Mounting Positions (1)

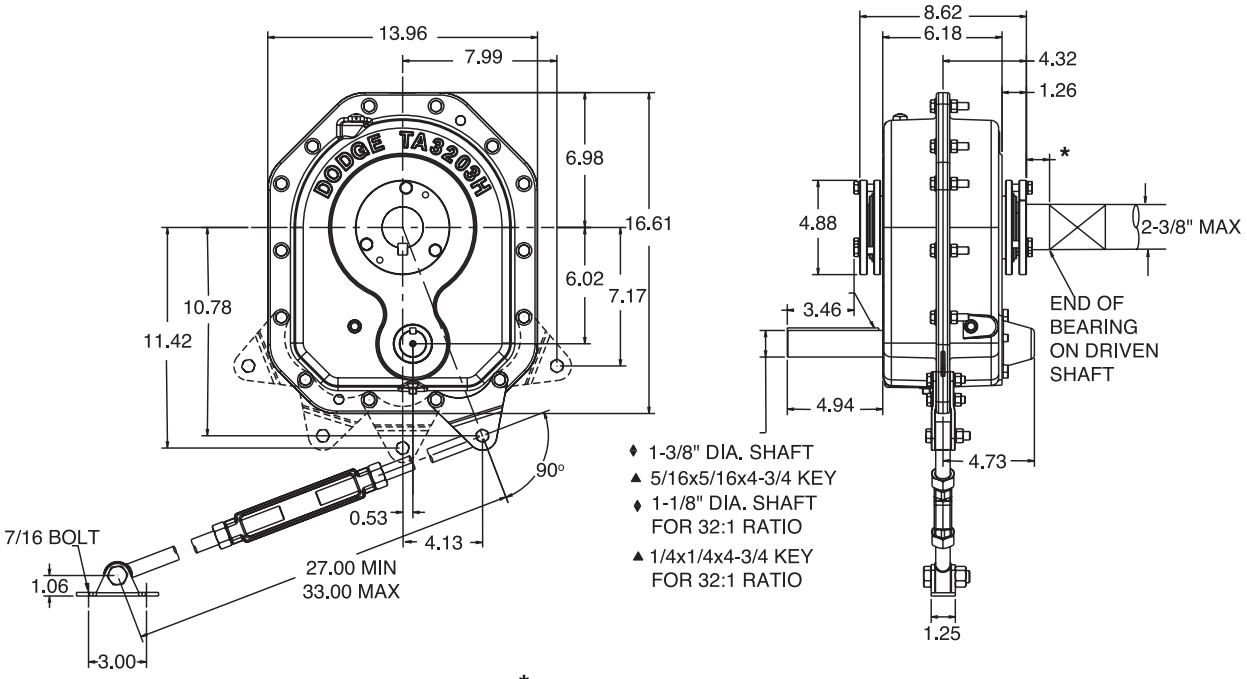
| Nominal Screw Dia | Trough Height Dim | Minimum Mounting Position | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | TA0107L | TA1107H | TA2115H | TA3203H | TA4207H | TA5215H | TA6307H | TA7315H |
| 6 | 7.00 | M2 | M3 | M2 | M2 | M2 | M1 | M1 | M1 |
| 9 | 9.00 | M3 | M4 | M3 | M3 | M2 | M2 | M2 | M1 |
| 12 | 10.00 | M4 | M4 | M3 | M3 | M2 | M2 | M2 | M1 |
| 14 | 11.00 | M4 | M4 | M4 | M3 | M3 | M2 | M2 | M2 |
| 16 | 11.50 | M4 | *** | M4 | M4 | M3 | M2 | M2 | M2 |
| 18 | 12.13 | *** | *** | M4 | M4 | M3 | M3 | M2 | M2 |
| 20 | 13.50 | *** | *** | M4 | M4 | M3 | M3 | M3 | M2 |
| 24 | 16.50 | *** | *** | *** | *** | M4 | M3 | M3 | M3 |

(1) For U Or Flared Trough Ends Per CEMA 300-014

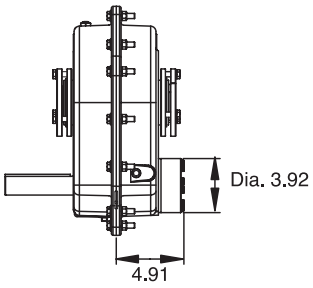
# SELECTION/DIMENSIONS

## TORQUE-ARM II Shaft Mount Speed Reducers

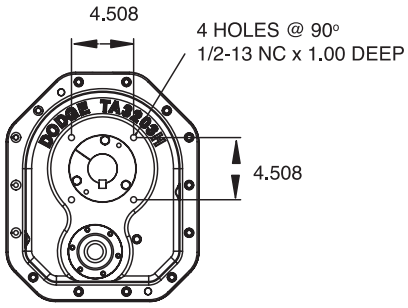
### Taper Bushed Reducer - TA3203H, Single And Double Reduction




*1.20 MINIMUM DISTANCE FOR BUSHING SCREW REMOVAL




REDUCER WITH BACKSTOP




FLANGE MOUNTING DIMENSIONS

# TORQUE-ARM II Shaft Mount Speed Reducers

## Taper Bushed Reducer - TA3203H, Single And Double Reduction

### TA3203H Taper Bushed Reducers (1) ■

| Reducer Size | Part Number | AGMA Code | Actual Ratio | Weight lbs. |
|---|---|---|---|---|
| TA3203H05 | **903004** | 203S05 | 4.91 | 107.9 |
| TA3203H09 | **903003** | 203D09 | 9.23 | 112.0 |
| TA3203H15 | **903002** | 203D15 | 15.07 | 111.8 |
| TA3203H25 | **903001** | 203D25 | 24.95 | 111.4 |
| TA3203H32 | **903000** | 203D32 | 32.45 | 110.3 |

(1) Reducers are supplied from stock ready for vertical mounting and for flange mounting. Rod assembly is not included with reducer. Order as a separate part number.

■ See page G1-122 for Maximum Bore Straight Bore TA II Reducers

\+ Rod Assembly mounting locations are limited to positions shown in drawing.

### TA3203H Accessories

| Description | Part Number | Weight Lbs |
|---|---|---|
| TA3203RA Rod Assembly (1) + | **903109** | 6.9 |
| TA3203BS Backstop Assembly (2) | **903102** | 4.7 |
| TA3203MM Motor Mount Assembly (143-286T) (3) | **903090** | 86.7 |
| TA3203BG Belt Guard - Pos. B (143-286T) | **903096** | 65.5 |
| TA3203BG Belt Guard - Pos. C (143-286T) (4) | **903097** | 67.9 |
| TA3203BG Belt Guard - Pos. D (143-286T) | **903099** | 67.0 |
| TA0-TA3 Vertical Breather Kit | **900112** | 2.0 |
| TA3203H V-Ring Kit | **903249** | 0.2 |
| Filter Breather Plug | **430048** | 0.2 |
| TA3203H Lube Kit | **LUBEKITTA3203** | 10.4 |

(2) See page G1-128 for input shaft speed necessary for backstop sprag lift-off

(3) Motor Mount will fit NEMA and IEC frame motors; however hardware are inch dimensions

(4) Use Position-C belt guard for TA II reducer in screw conveyor drive applications

### TA3203H Tapered Bushing Kits (5) (6)

| Bushing Size Standard Shaft Bushing Kit | Part Number (7) | Weight lbs. | Shaft Keyseat Required (9) (10) | Bushing Size Short Driven Shaft Bushing Kit (8) | Part Number | Weight lbs. | Shaft Keyseat Required (9) (10) |
|---|---|---|---|---|---|---|---|
| TA3203TB x 2-3/8 | **903020** | 6.1 | 5/8 x 5/16 x 8.55 | --- | **---** | --- | --- |
| TA3203TB x 2-1/4 | **903021** | 6.2 | 1/2 x 1/4 x 8.55 | ... | **...** | ... | ... |
| TA3203TB x 2-3/16 ▲ | **903022** | 6.8 | 1/2 x 1/4 x 8.55 | TA3203TBS x 2-3/16 | **903030** | 7.0 | 1/2 x 1/4 x 5.46 |
| TA3203TB x 2-1/8 | **903023** | 7.0 | 1/2 x 1/4 x 8.55 | TA3203TBS x 2-1/8 | **903031** | 7.4 | 1/2 x 1/4 x 5.46 |
| TA3203TB x 2 | **903024** | 7.5 | 1/2 x 1/4 x 8.55 | TA3203TBS x 2 | **903032** | 8.0 | 1/2 x 1/4 x 5.46 |
| TA3203TB x 1-15/16 | **903025** | 7.8 | 1/2 x 1/4 x 8.55 | TA3203TBS x 1-15/16 | **903033** | 8.4 | 1/2 x 1/4 x 5.46 |
| TA3203TB x 1-7/8 | **903026** | 8.0 | 1/2 x 1/4 x 8.55 | TA3203TBS x 1-7/8 | **903034** | 8.7 | 1/2 x 1/4 x 5.46 |
| TA3203TB x 1-3/4 | **903027** | 8.0 | 3/8 x 3/16 x 8.55 | TA3203TBS x 1-3/4 | **903035** | 9.0 | 3/8 x 3/16 x 5.46 |
| TA3203TB x 1-11/16 | **903028** | 8.2 | 3/8 x 3/16 x 8.55 | TA3203TBS x 1-11/16 | **903036** | 9.3 | 3/8 x 3/16 x 5.46 |
| TA3203TB x 1-5/8 | **903029** | 8.4 | 3/8 x 3/16 x 8.55 | TA3023TBS x 1-5/8 | **903037** | 9.6 | 3/8 x 3/16 x 5.46 |
| TA3203TB x 1-1/2 | **903060** | 8.8 | 3/8 x 3/16 x 8.55 | TA3203TBS x 1-1/2 | **903038** | 9.9 | 3/8 x 3/16 x 5.46 |
| TA3203TB x 1-7/16 | **903061** | 8.8 | 3/8 x 3/16 x 8.55 | TA3203TBS x 1-7/16 | **903039** | 10.0 | 3/8 x 3/16 x 5.46 |

▲ AGMA maximum bore size

(5) Bushing kit required to mount TA II reducer to driven shaft

(6) Bushing kit is not required to mount TA II reducer on SCS Drive Shaft in a screw conveyor application

(7) Standard Shaft Bushing Kit includes two standard bushings with back-up plates and snap rings; hardware, and key

(8) Short Shaft Bushing Kit includes one standard bushing, one long bushing with insertable wedge; two back-up plates with snap rings; hardware and key. This is an optional bushing for after market, short shaft mounting.

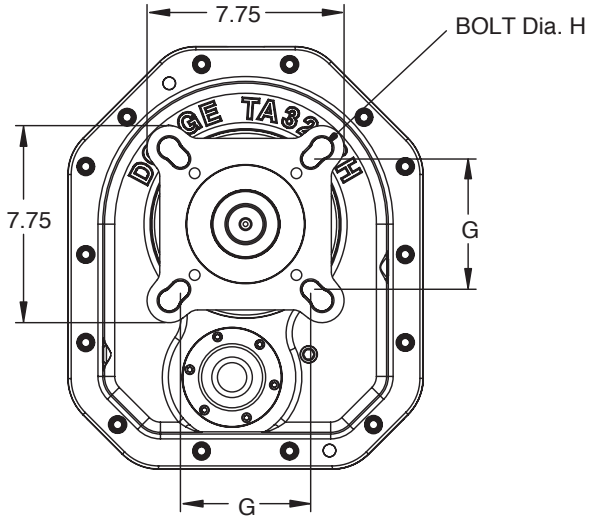
(9) Minimum keyseat and shaft length required to mount reducer with bushing kit

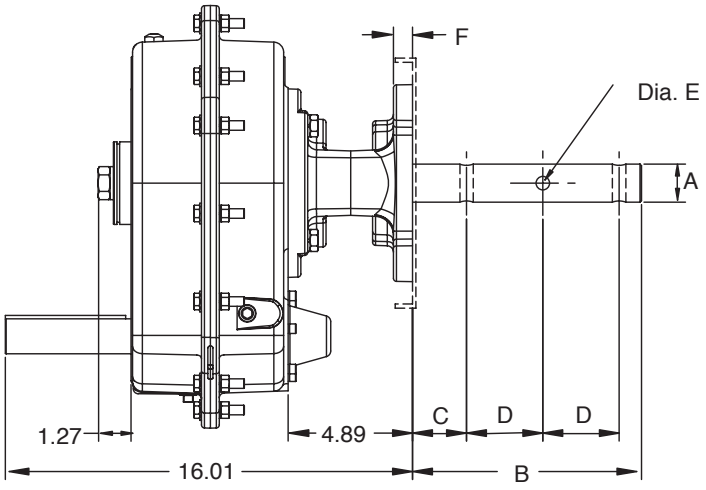
(10) Always check the driven shaft and key for strength

# SELECTION/DIMENSIONS

## TORQUE-ARM II Shaft Mount Speed Reducers

**Screw Conveyor Drive - TA3203H, Single And Double Reduction**



# TORQUE-ARM II Shaft Mount Speed Reducers

## Screw Conveyor Drive - TA3203H, Single And Double Reduction

### TA3203H Screw Conveyor Drive Dimensions

| Screw Dia | Drive Shaft Dia A | Dimensions | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | B | C | D | Hole Dia E | F | G | Bolt Dia H |
| 6, 9 | 1-1/2 | 9.00 | 2.13 | 3.00 | 17/32 | 0.75 | 4.00 | 1/2-13 |
| 9, 12 | 2 | 9.00 | 2.13 | 3.00 | 21/32 | 0.75 | 5.13 | 5/8 |
| 12, 14 | 2-7/16 | 9.69 | 2.75 | 3.00 | 21/32 | 0.75 | 5.63 | 5/8 |
| 12, 14, 16, 18, 20 | 3 | 9.88 | 2.88 | 3.00 | 25/32 | 0.75 | 6.00 | 3/4 |
| 18, 20, 24 | 3-7/16 | 13.13 | 3.88 | 4.00 | 29/32 | .75 | 6.75 | 3/4 |

### TA3203H Accessories for Screw Conveyor Drives (1) (4) (5)

| Description | Part Number | Weight lbs. |
|---|---|---|
| TA3203SCA Adapter & Hardware Kit (2) | **903070** | 22.0 |
| TA3203SCP Adjustable Packing Kit (3) | **903071** | 1.4 |
| TA3203SCS x 1-1/2 Drive Shaft | **903072** | 19.3 |
| TA3203SCS x 2 Drive Shaft | **903073** | 22.6 |
| TA3203SCS x 2-7/16 Drive Shaft | **903074** | 27.2 |
| TA3203SCS x 3 Drive Shaft | **903075** | 33.6 |
| TA3203SCS x 3-7/16 Drive Shaft | **903076** | 44.8 |
| TA3203SCS x 1-1/2 Stainless Steel Drive Shaft | **903080** | 19.3 |
| TA3203SCS x 2 Stainless Steel Drive Shaft | **903081** | 22.6 |
| TA3203SCS x 2-7/16 Stainless Steel Drive Shaft | **903082** | 27.2 |
| TA3203SCS x 3 Stainless Steel Drive Shaft | **903083** | 33.6 |
| TA3203SCS x 3-7/16 Stainless Steel Drive Shaft | **903084** | 44.8 |

(1) See page G1-59 for Belt Guard for Screw Conveyor Drive applications

(2) SCA Adapter & Hardware Kit includes adapter, mounting wedge, keeper plate, key, seals and hardware

(3) SCP Adjustable Packing Kit consists of flange, mounting hardware and braided packing seals

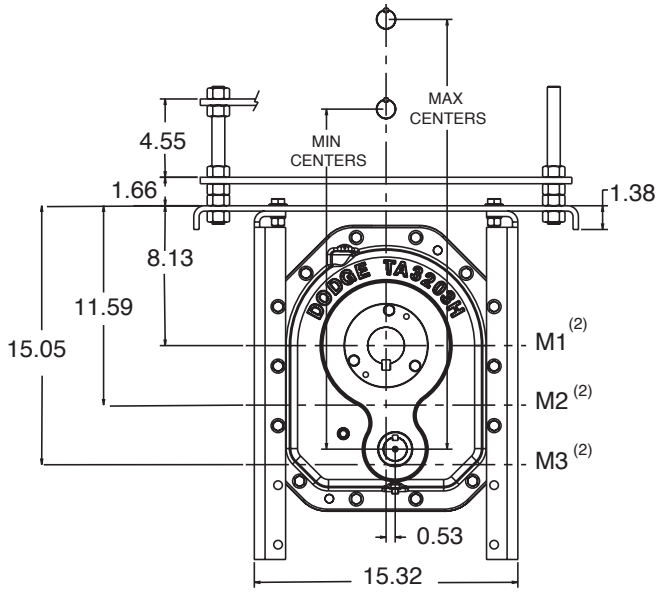
(4) SCS Drive Shaft is a shaft only. Hardware is stocked with the adapter & hardware kit

(5) A complete TA II Screw Conveyor Drive includes a TA II Reducer, SCA Adapter & Hardware Kit and SCS Drive Shaft. The SCP Adjustable Packing Kit is an optional accessory.

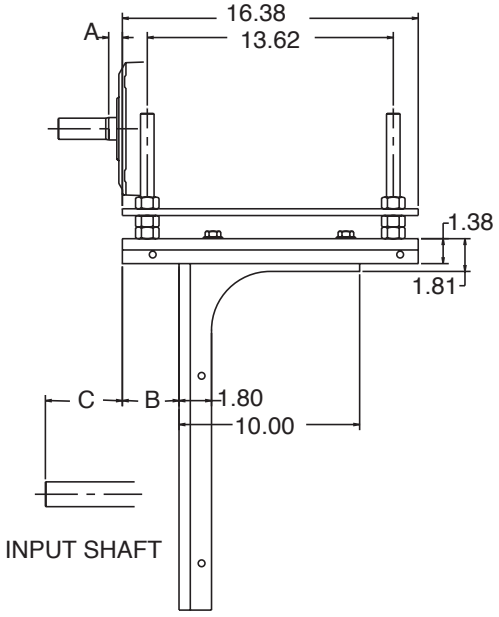
# SELECTION/DIMENSIONS

## TORQUE-ARM II Shaft Mount Speed Reducers

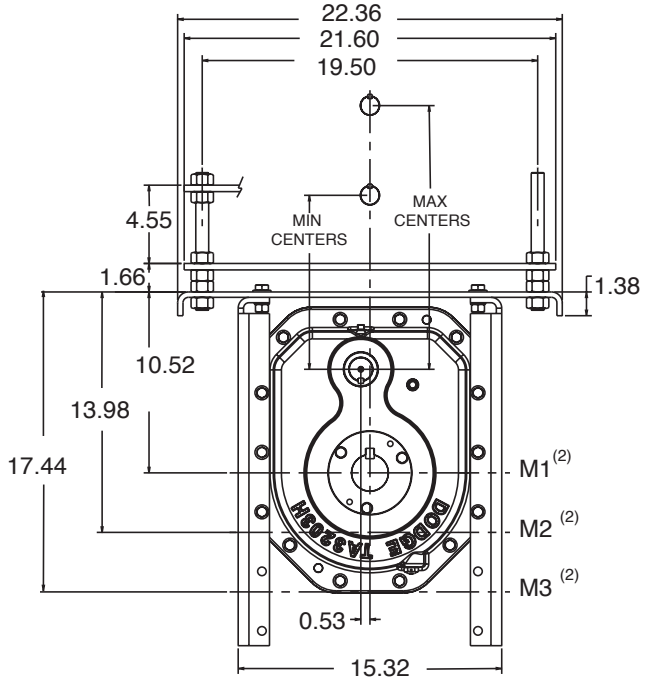
### Motor Mount Dimensions - TA3203H, Position B & D




POSITION B




INPUT SHAFT




POSITION D

# TORQUE-ARM II Shaft Mount Speed Reducers

## Motor Mount Dimensions - TA3203H, Position B & D (1)

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 143T & 145T | | | 182T & 184T | | |
| | | | | | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max |
| Position B | 0.04 | 5.34 | 2.06 | 7.36 | M1 | 1.22 | 19.8 | 23.9 | 1.37 | 20.8 | 24.9 |
| | | | | | M2 | | 23.3 | 27.3 | | 24.3 | 28.3 |
| | | | | | M3 | | 26.7 | 30.8 | | 27.7 | 31.8 |
| Position D | 0.04 | 5.34 | 2.06 | 7.36 | M1 | 1.22 | 10.2 | 14.2 | 1.37 | 11.2 | 15.2 |
| | | | | | M2 | | 13.6 | 17.7 | | 14.6 | 18.7 |
| | | | | | M3 | | 17.1 | 21.1 | | 18.1 | 22.1 |

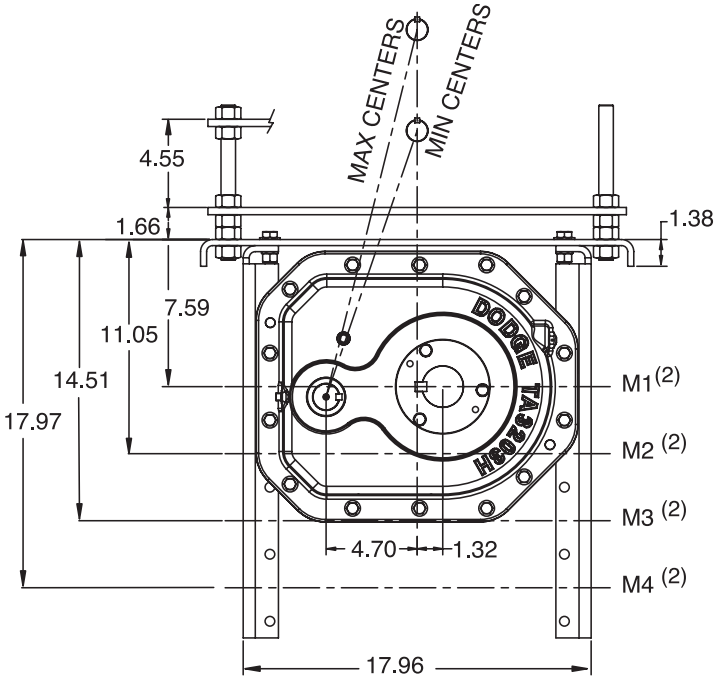
| Mounting | Motor Mount Height (2) | Motor Frame | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 213T & 215T | | | 254T & 256T | | | 284T & 286T | | |
| | | A | Centers | | A | Centers | | A | Centers | |
| | | | Min | Max | | Min | Max | | Min | Max |
| Position B | M1 | 1.55 | 21.6 | 25.6 | 1.56 | 22.6 | 26.6 | 1.16 | 23.3 | 27.4 |
| | M2 | | 25.0 | 29.1 | | 26.0 | 30.1 | | 26.8 | 30.8 |
| | M3 | | 28.5 | 32.5 | | 29.5 | 33.5 | | 30.2 | 34.3 |
| Position D | M1 | 1.55 | 11.9 | 16.0 | 1.56 | 12.9 | 17.0 | 1.16 | 13.7 | 17.7 |
| | M2 | | 15.4 | 19.4 | | 16.4 | 20.4 | | 17.1 | 21.2 |
| | M3 | | 18.8 | 22.9 | | 19.8 | 23.9 | | 20.6 | 24.6 |

**Note:**
Minimum centers contain 0.5” to allow for belt assembly
(1) Motor mount will fit NEMA and IEC frame motors; hardware are inch dimensions
(2) M1, M2, M3 go through output shaft centerline

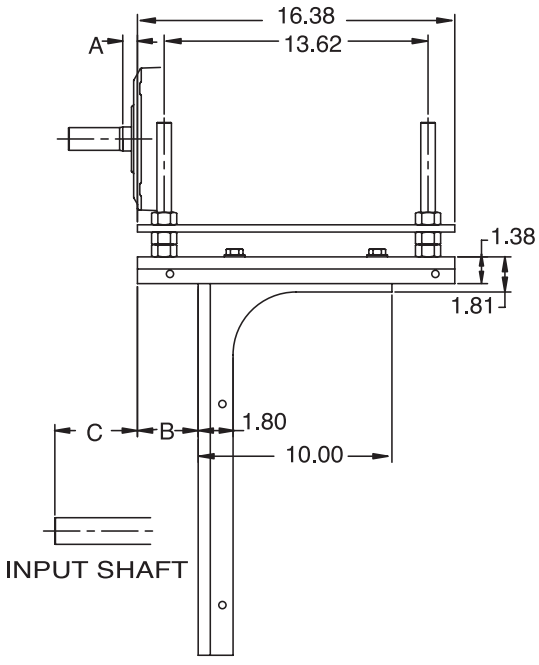
# SELECTION/DIMENSIONS

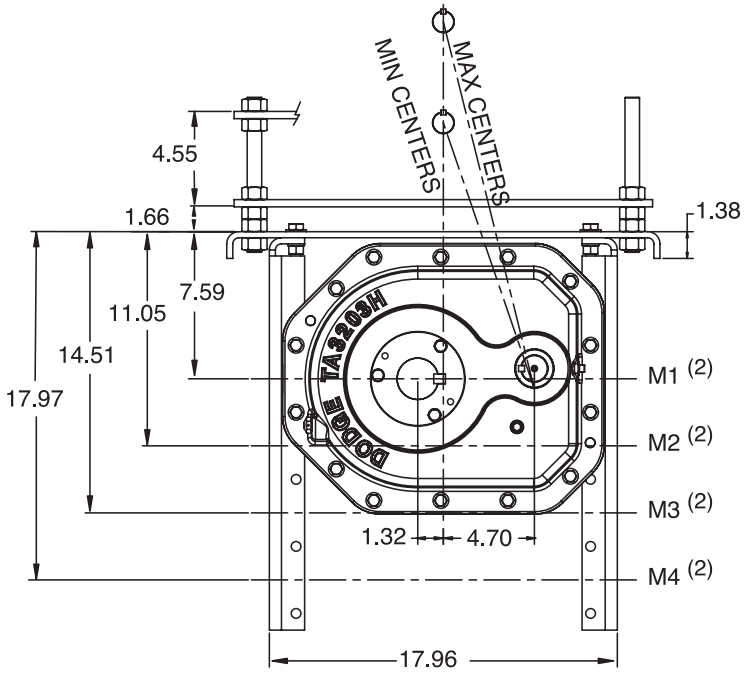
## TORQUE-ARM II Shaft Mount Speed Reducers

### Motor Mount Dimensions - TA3203H, Position A & C




POSITION A




POSITION C

# TORQUE-ARM II Shaft Mount Speed Reducers

## Motor Mount Dimensions - TA3203H, Position A & C (1) (3)

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 143T & 145T | | | 182T & 184T | | |
| | | | | | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max |
| Position A | 0.04 | 5.34 | 3.07 | 8.37 | M1 | 1.22 | 14.6 | 18.4 | 1.37 | 15.5 | 19.4 |
| | | | | | M2 | | 17.9 | 21.8 | | 18.9 | 22.8 |
| | | | | | M3 | | 21.2 | 25.2 | | 22.2 | 26.2 |
| | | | | | M4 | | 24.6 | 28.6 | | 25.6 | 29.6 |
| Position C | 0.04 | 5.34 | 3.07 | 8.37 | M1 | 1.22 | 13.6 | 17.4 | 1.37 | 14.5 | 18.4 |
| | | | | | M2 | | 16.9 | 20.8 | | 17.8 | 21.7 |
| | | | | | M3 | | 20.2 | 24.2 | | 21.2 | 25.1 |
| | | | | | M4 | | 23.6 | 27.6 | | 24.6 | 28.5 |

| Mounting | Motor Mount Height (2) | Motor Frame | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 213T & 215T | | | 254T & 256T | | | 284T & 286T | | |
| | | A | Centers | | A | Centers | | A | Centers | |
| | | | Min | Max | | Min | Max | | Min | Max |
| Position A | M1 | 1.55 | 16.2 | 20.1 | 1.56 | 17.2 | 21.1 | 1.16 | 17.9 | 21.8 |
| | M2 | | 19.6 | 23.5 | | 20.5 | 24.5 | | 21.3 | 25.2 |
| | M3 | | 22.9 | 26.9 | | 23.9 | 27.9 | | 24.7 | 28.6 |
| | M4 | | 26.3 | 30.3 | | 27.3 | 31.3 | | 28.1 | 32.1 |
| Position C | M1 | 1.55 | 15.2 | 19.1 | 1.56 | 16.2 | 20.1 | 1.16 | 16.9 | 20.8 |
| | M2 | | 18.6 | 22.5 | | 19.5 | 23.5 | | 20.2 | 24.2 |
| | M3 | | 21.9 | 25.9 | | 22.9 | 26.9 | | 23.6 | 27.6 |
| | M4 | | 25.3 | 29.3 | | 26.3 | 30.3 | | 27.0 | 31.0 |

**Note:**

Minimum centers contain 0.5” to allow for belt assembly

(1) Motor mount will fit NEMA and IEC frame motors; hardware are inch dimensions

(2) M1, M2, M3, M4 go through output shaft centerline

(3) See Table A, below, for minimum “M” mounting position required for specific screw diameter and reducer size

### Table A - Screw Conveyor Motor Mount Minimum “M” Mounting Positions (1)

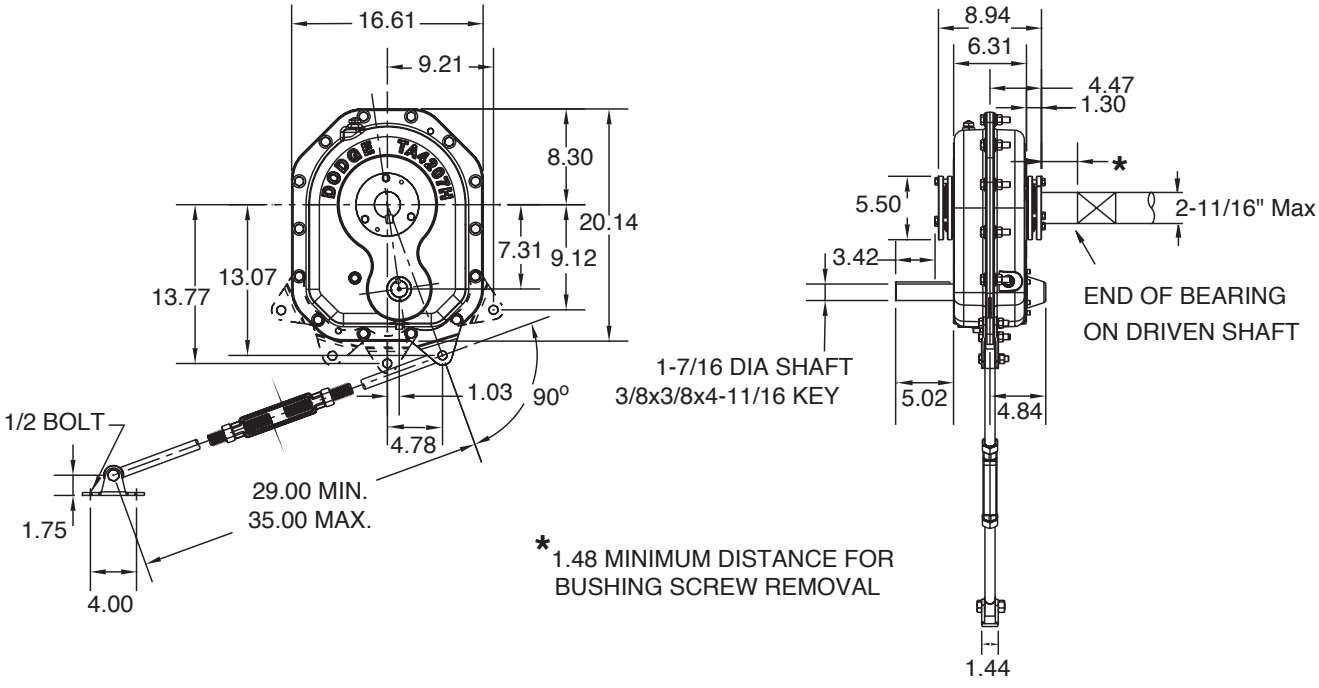
| Nominal Screw Dia | Trough Height Dim | Minimum Mounting Position | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | TA0107L | TA1107H | TA2115H | TA3203H | TA4207H | TA5215H | TA6307H | TA7315H |
| 6 | 7.00 | M2 | M3 | M2 | M2 | M2 | M1 | M1 | M1 |
| 9 | 9.00 | M3 | M4 | M3 | M3 | M2 | M2 | M2 | M1 |
| 12 | 10.00 | M4 | M4 | M3 | M3 | M2 | M2 | M2 | M1 |
| 14 | 11.00 | M4 | M4 | M4 | M3 | M3 | M2 | M2 | M2 |
| 16 | 11.50 | M4 | *** | M4 | M4 | M3 | M2 | M2 | M2 |
| 18 | 12.13 | *** | *** | M4 | M4 | M3 | M3 | M2 | M2 |
| 20 | 13.50 | *** | *** | M4 | M4 | M3 | M3 | M3 | M2 |
| 24 | 16.50 | *** | *** | *** | *** | M4 | M3 | M3 | M3 |

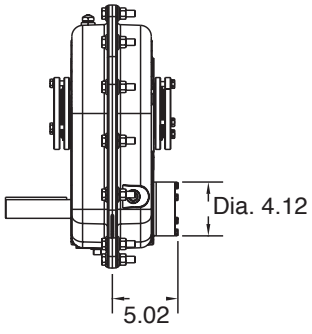
(1) For U Or Flared Trough Ends Per CEMA 300-014

# SELECTION/DIMENSIONS

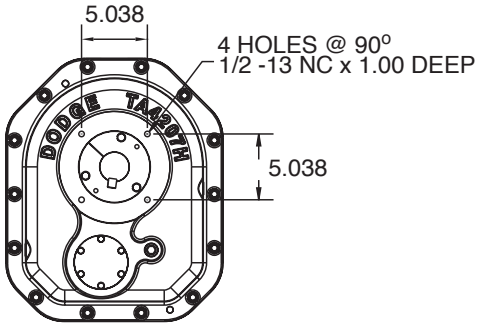
## TORQUE-ARM II Shaft Mount Speed Reducers

**Taper Bushed Reducers - TA4207H, Single And Double Reduction**




**REDUCER WITH BACKSTOP**




**FLANGE MOUNTING DIMENSIONS**

# TORQUE-ARM II Shaft Mount Speed Reducers

## Taper Bushed Reducers - TA4207H, Single And Double Reduction

### TA4207H Taper Bushed Reducers (1) ■

| Reducer Size | Part Number | AGMA Code | Actual Ratio | Weight lbs. |
|---|---|---|---|---|
| TA4207H05 | **904004** | 207S05 | 5.00 | 178.5 |
| TA4207H09 | **904003** | 207D09 | 9.23 | 187.1 |
| TA4207H15 | **904002** | 207D15 | 15.00 | 186.7 |
| TA4207H25 | **904001** | 207D25 | 25.13 | 186.0 |
| TA4207H40 | **904000** | 207D40 | 39.11 | 185.4 |

(1) Reducers are supplied from stock ready for vertical mounting and for flange mounting. Rod assembly is not included with reducer. Order as a separate part number.

■ See page G1-122 for Maximum Bore Straight Bore TA II Reducers

\+ Rod Assembly mounting locations are limited to positions shown in drawing

### TA4207H Accessories

| Description | Part Number | Weight lbs. |
|---|---|---|
| TA4207RA Rod Assembly (1) + | **904109** | 10.6 |
| TA4207BS Backstop Assembly (2) | **904102** | 5.2 |
| TA4207BS 40:1 Backstop Assembly (2) | **904103** | 5.2 |
| TA4207MM Motor Mount Assembly (143-326T) (3) | **904090** | 114.3 |
| TA4207BG Belt Guard - Pos. B (143-326T) | **904096** | 79.6 |
| TA4207BG Belt Guard - Pos. C (143-326T) (4) | **904097** | 82.7 |
| TA4207BG Belt Guard - Pos. D (143-326T) | **904099** | 80.6 |
| TA4207CF Cooling Fan Assembly ● | **904106** | 2.0 |
| TA4-TA12 Vertical Breather Kit | **904112** | 3.0 |
| TA4207H V-Ring Kit | **904249** | 0.3 |
| Filter Breather Assy | **430049** | 0.2 |
| TA4207H Lube Kit | **LUBEKITTA4207** | 16.2 |

(2) See page G1-128 for input shaft speed necessary for backstop sprag lift-off

(3) Motor Mount will fit NEMA and IEC frame motors; however hardware are inch dimensions

(4) Use Position-C belt guard for TA II reducer in screw conveyor drive applications

● See page G1-120 for cooling fan dimensions

### TA4207H Tapered Bushing Kits (5) (6)

| Bushing Size Standard Shaft Bushing Kit | Part Number (7) | Weight lbs. | Shaft Keyseat Required (9) (10) | Bushing Size Short Shaft Bushing Kit (8) | Part Number | Weight lbs. | Shaft Keyseat Required (9) (10) |
|---|---|---|---|---|---|---|---|
| TA4207TB x 2-11/16 | **904020** | 9.4 | 5/8 x 5/16 x 8.93 | --- | **---** | --- | --- |
| TA4207TB x 2-1/2 | **904021** | 10.6 | 5/8 x 5/16 x 8.93 | --- | **---** | --- | --- |
| TA4207TB x 2-7/16 ▲ | **904022** | 10.8 | 5/8 x 5/16 x 8.93 | TA4207TBS x 2-7/16 | **904032** | 11.3 | 5/8 x 5/16 x 5.65 |
| TA4207TB x 2-3/8 | **904023** | 11.3 | 5/8 x 5/16 x 8.93 | TA4207TBS x 2-3/8 | **904033** | 11.8 | 5/8 x 5/16 x 5.65 |
| TA4207TB x 2-1/4 | **904024** | 11.5 | 1/2 x 1/4 x 8.93 | TA4207TBS x 2-1/4 | **904034** | 12.4 | 1/2 x 1/4 x 5.65 |
| TA4207TB x 2-3/16 | **904025** | 11.8 | 1/2 x 1/4 x 8.93 | TA4207TBS x 2-3/16 | **904035** | 10.8 | 1/2 x 1/4 x 5.65 |
| TA4207TB x 2-1/8 | **904026** | 12.2 | 1/2 x 1/4 x 8.93 | TA4207TBS x 2-1/8 | **904036** | 13.3 | 1/2 x 1/4 x 5.65 |
| TA4207TB x 2 | **904027** | 12.6 | 1/2 x 1/4 x 8.93 | TA4207TBS x 2 | **904037** | 13.9 | 1/2 x 1/4 x 5.65 |
| TA4207TB x 1-15/16 | **904028** | 13.0 | 1/2 x 1/4 x 8.93 | TA4207TBS x 1-15/16 | **904038** | 14.3 | 1/2 x 1/4 x 5.65 |
| TA4207TB x 1-7/8 | **904029** | 13.2 | 1/2 x 1/4 x 8.93 | TA4207TBS x 1-7/8 | **904039** | 14.6 | 1/2 x 1/4 x 5.65 |
| TA4207TB x 1-3/4 | **904030** | 13.3 | 3/8 x 3/16 x 8.93 | TA4207TBS x 1-3/4 | **904040** | 15.0 | 3/8 x 3/16 x 5.65 |
| TA4207TB x 1-11/16 | **904031** | 13.5 | 3/8 x 3/16 x 8.93 | TA4207TBS x 1-11/16 | **904041** | 15.3 | 3/8 x 3/16 x 5.65 |

▲ AGMA maximum bore size

(5) Bushing kit required to mount TA II reducer to driven shaft

(6) Bushing kit is not required to mount TA II reducer on SCS Drive Shaft in a screw conveyor application

(7) Standard Shaft Bushing Kit includes two standard bushings with back-up plates and snap rings; hardware, and key

(8) Short Shaft Bushing Kit includes one standard bushing, one long bushing with insertable wedge; two back-up plates with snap rings; hardware and key. This is an optional bushing for after market, short shaft mounting.

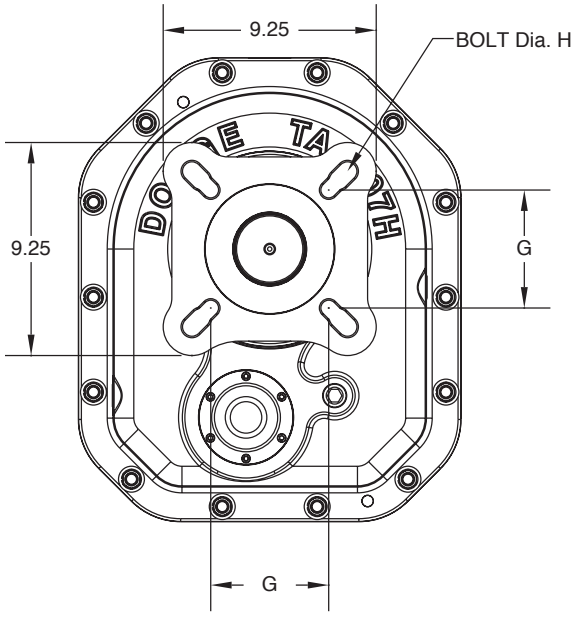
(9) Minimum keyseat and shaft length required to mount reducer with bushing kit

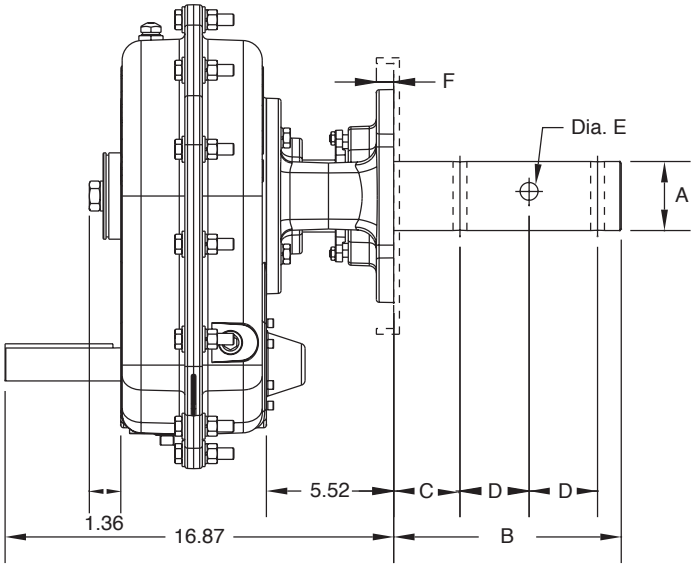
(10) Always check the driven shaft and key for strength

# SELECTION/DIMENSIONS

## TORQUE-ARM II Shaft Mount Speed Reducers

**Screw Conveyor Drive - TA4207H, Single And Double Reduction**



# TORQUE-ARM II Shaft Mount Speed Reducers

## Screw Conveyor Drive - TA4207H, Single And Double Reduction

### TA4207H Screw Conveyor Drive Dimensions

| Screw Dia | Drive Shaft Dia A | Dimensions | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | B | C | D | Hole Dia E | F | G | Bolt Dia H |
| 9, 12 | 2 | 9.00 | 2.13 | 3.00 | 21/32 | 0.75 | 5.13 | 5/8 |
| 12, 14 | 2-7/16 | 9.69 | 2.75 | 3.00 | 21/32 | 0.75 | 5.63 | 5/8 |
| 12, 14, 16, 18, 20 | 3 | 9.88 | 2.88 | 3.00 | 25/32 | 0.75 | 6.00 | 3/4 |
| 18, 20, 24 | 3-7/16 | 13.13 | 3.88 | 4.00 | 29/32 | 0.75 | 6.75 | 3/4 |

### TA4207H Accessories for Screw Conveyor Drives (1) (4) (5)

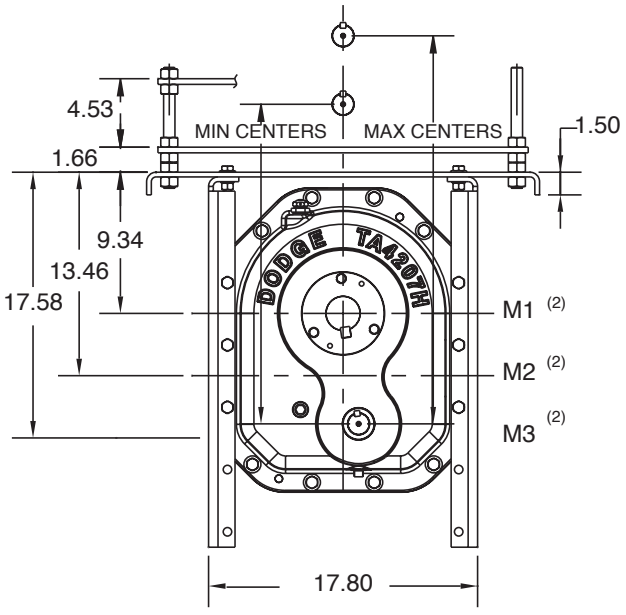
| Description | Part Number | Weight lbs. |
|---|---|---|
| TA4207SCA Adapter & Hardware Kit (2) | **904070** | 33.6 |
| TA4207SCP Adjustable Packing Kit (3) | **904071** | 2.1 |
| TA4207SCS x 2 Drive Shaft | **904073** | 29.8 |
| TA4207SCS x 2-7/16 Drive Shaft | **904074** | 34.5 |
| TA4207SCS x 3 Drive Shaft | **904075** | 40.9 |
| TA4207SCS x 3-7/16 Drive Shaft | **904076** | 54.7 |
| TA4207SCS x 2 Stainless Steel Drive Shaft | **904081** | 29.8 |
| TA4207SCS x 2-7/16 Stainless Steel Drive Shaft | **904082** | 34.5 |
| TA4207SCS x 3 Stainless Steel Drive Shaft | **904083** | 40.9 |
| TA4207SCS x 3-7/16 Stainless Steel Drive Shaft | **904084** | 54.7 |

(1) See page G1-67 for Belt Guard for Screw Conveyor Drive applications
(2) SCA Adapter & Hardware Kit includes adapter, mounting wedge, keeper plate, key, seals and hardware
(3) SCP Adjustable Packing Kit consists of flange, mounting hardware and braided packing seals
(4) SCS Drive Shaft is a shaft only. Hardware is stocked with the adapter & hardware kit
(5) A complete TA II Screw Conveyor Drive includes a TA II Reducer, SCA Adapter & Hardware Kit and SCS Drive Shaft. The SCP Adjustable Packing Kit is an optional accessory.

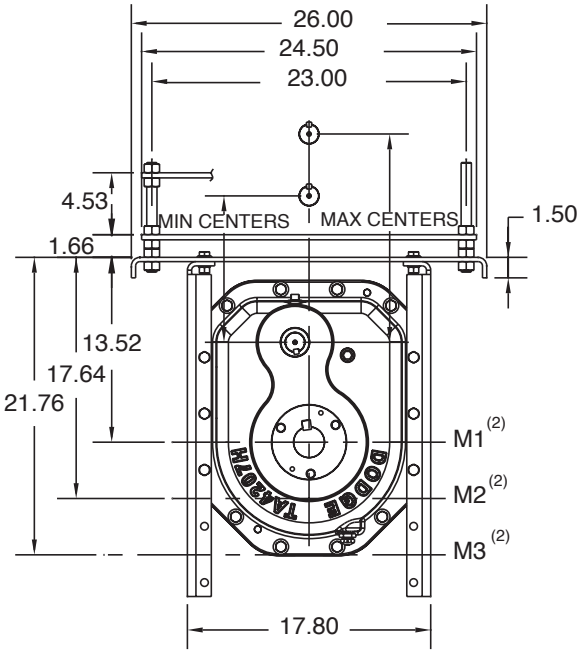
# SELECTION/DIMENSIONS

## TORQUE-ARM II Shaft Mount Speed Reducers

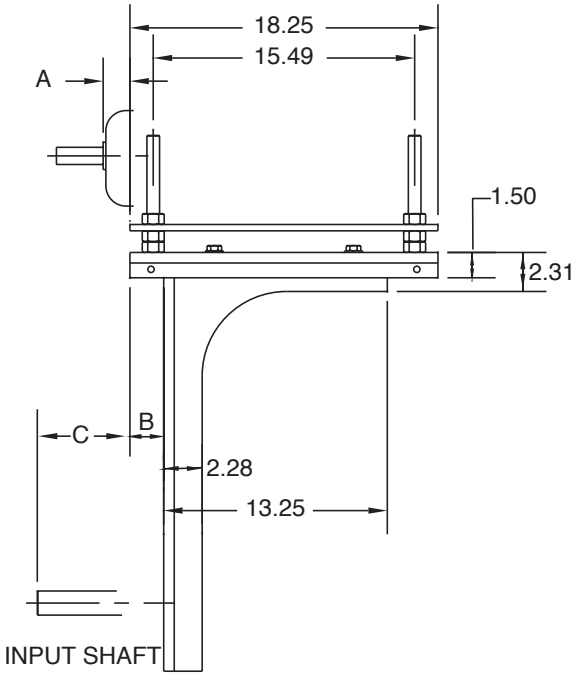
### Motor Mount Dimensions - TA4207H, Position B & D




POSITION B




POSITION D



# TORQUE-ARM II Shaft Mount Speed Reducers

## Motor Mount Dimensions - TA4207H, Position B & D (1)

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 143T & 145T | | | 182T & 184T | | | 213T & 215T | | |
| | | | | | | A | Centers | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max | | Min | Max |
| Position B | -0.21 | 4.21 | 3.28 | 7.70 | M1 | 1.22 | 22.6 | 26.7 | 1.37 | 23.6 | 27.7 | 1.55 | 24.4 | 28.4 |
| | | | | | M2 | | 26.8 | 30.8 | | 27.8 | 31.8 | | 28.5 | 32.5 |
| | | | | | M3 | | 30.9 | 34.9 | | 31.9 | 35.9 | | 32.6 | 36.7 |
| Position D | -0.21 | 4.21 | 3.28 | 7.70 | M1 | 1.22 | 12.2 | 16.2 | 1.37 | 13.2 | 17.2 | 1.55 | 14.0 | 18.0 |
| | | | | | M2 | | 16.3 | 20.4 | | 17.3 | 21.4 | | 18.1 | 22.1 |
| | | | | | M3 | | 20.4 | 24.5 | | 21.4 | 25.5 | | 22.2 | 26.2 |

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 254T & 256T | | | 284T & 286T | | | 324T & 326T | | |
| | | | | | | A | Centers | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max | | Min | Max |
| Position B | -0.21 | 4.21 | 3.28 | 7.70 | M1 | 1.56 | 25.4 | 29.4 | 1.16 | 26.1 | 30.2 | 0.38 | 27.1 | 31.2 |
| | | | | | M2 | | 29.5 | 33.5 | | 30.3 | 34.3 | | 31.3 | 35.3 |
| | | | | | M3 | | 33.6 | 37.7 | | 34.4 | 38.4 | | 35.4 | 39.4 |
| Position D | -0.21 | 4.21 | 3.28 | 7.70 | M1 | 1.56 | 15.0 | 19.0 | 1.16 | 15.7 | 19.7 | 0.38 | 16.7 | 20.7 |
| | | | | | M2 | | 19.1 | 23.1 | | 19.8 | 23.9 | | 20.8 | 24.9 |
| | | | | | M3 | | 23.2 | 27.2 | | 23.9 | 28.0 | | 24.9 | 29.0 |

**Notes:**

Minimum centers contains 0.5” to allow for belt assembly

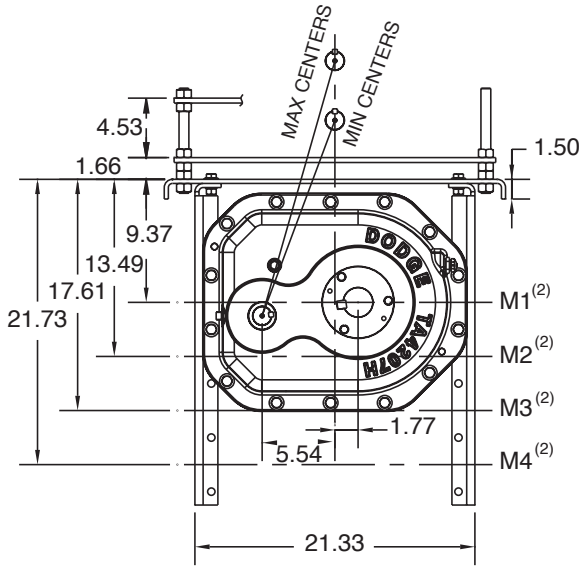
(1) Motor mount will fit NEMA and IEC frame motors; hardware are inch dimensions

(2) M1, M2, M3 go through output shaft centerline

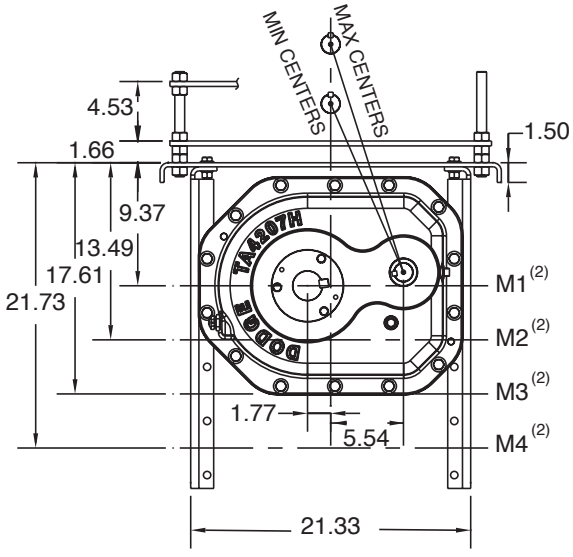
# SELECTION/DIMENSIONS

## TORQUE-ARM II Shaft Mount Speed Reducers

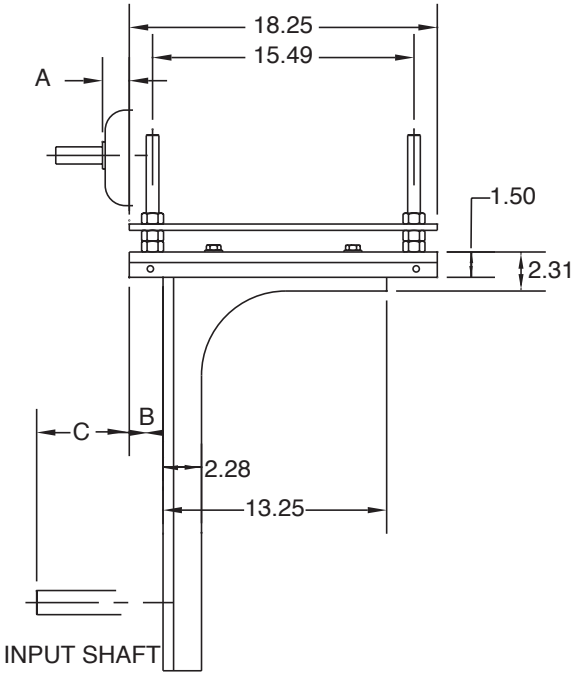
### Motor Mount Dimensions - TA4207H, Position A & C




POSITION A




POSITION C



# TORQUE-ARM II Shaft Mount Speed Reducers

## Motor Mount Dimensions - TA4207H, Position A & C (1) (3)

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 143T & 145T | | | 182T & 184T | | | 213T & 215T | | |
| | | | | | | A | Centers | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max | | Min | Max |
| Position A | -0.21 | 4.21 | 4.35 | 8.77 | M1 | 1.22 | 17.3 | 21.1 | 1.37 | 18.3 | 22.1 | 1.55 | 19.0 | 22.8 |
| | | | | | M2 | | 21.2 | 25.1 | | 22.2 | 26.1 | | 22.9 | 26.8 |
| | | | | | M3 | | 25.2 | 29.2 | | 26.2 | 30.2 | | 26.9 | 30.9 |
| | | | | | M4 | | 29.3 | 33.2 | | 30.2 | 34.2 | | 31.0 | 34.9 |
| Position C | -0.21 | 4.21 | 4.35 | 8.77 | M1 | 1.22 | 15.4 | 19.2 | 1.37 | 16.3 | 20.1 | 1.55 | 17.0 | 20.8 |
| | | | | | M2 | | 19.3 | 23.1 | | 20.2 | 24.1 | | 20.9 | 24.8 |
| | | | | | M3 | | 23.2 | 27.2 | | 24.2 | 28.1 | | 24.9 | 28.9 |
| | | | | | M4 | | 27.3 | 31.2 | | 28.2 | 32.2 | | 29.0 | 32.9 |

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 254T & 256T | | | 284T & 286T | | | 324T & 326T | | |
| | | | | | | A | Centers | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max | | Min | Max |
| Position A | -0.21 | 4.21 | 4.35 | 8.77 | M1 | 1.56 | 19.9 | 23.8 | 1.16 | 20.6 | 24.5 | 0.38 | 21.6 | 25.5 |
| | | | | | M2 | | 23.9 | 27.8 | | 24.6 | 28.6 | | 25.6 | 29.5 |
| | | | | | M3 | | 27.9 | 31.9 | | 28.7 | 32.6 | | 29.6 | 33.6 |
| | | | | | M4 | | 32.0 | 35.9 | | 32.7 | 36.7 | | 33.7 | 37.7 |
| Position C | -0.21 | 4.21 | 4.35 | 8.77 | M1 | 1.56 | 18.0 | 21.8 | 1.16 | 18.7 | 22.5 | 0.38 | 19.6 | 23.5 |
| | | | | | M2 | | 21.9 | 25.8 | | 22.6 | 26.5 | | 23.6 | 27.5 |
| | | | | | M3 | | 25.9 | 29.9 | | 26.6 | 30.6 | | 27.6 | 31.6 |
| | | | | | M4 | | 29.9 | 33.9 | | 30.7 | 34.6 | | 31.7 | 35.6 |

**Notes:**

Minimum centers contains 0.5” to allow for belt assembly

(1) Motor mount will fit NEMA and IEC frame motors; hardware are inch dimensions

(2) M1, M2, M3, M4 go through output shaft centerline

(3) See Table A, below, for minimum “M” mounting position required for specific screw diameter and reducer size

### Table A - Screw Conveyor Motor Mount Minimum “M” Mounting Positions (1)

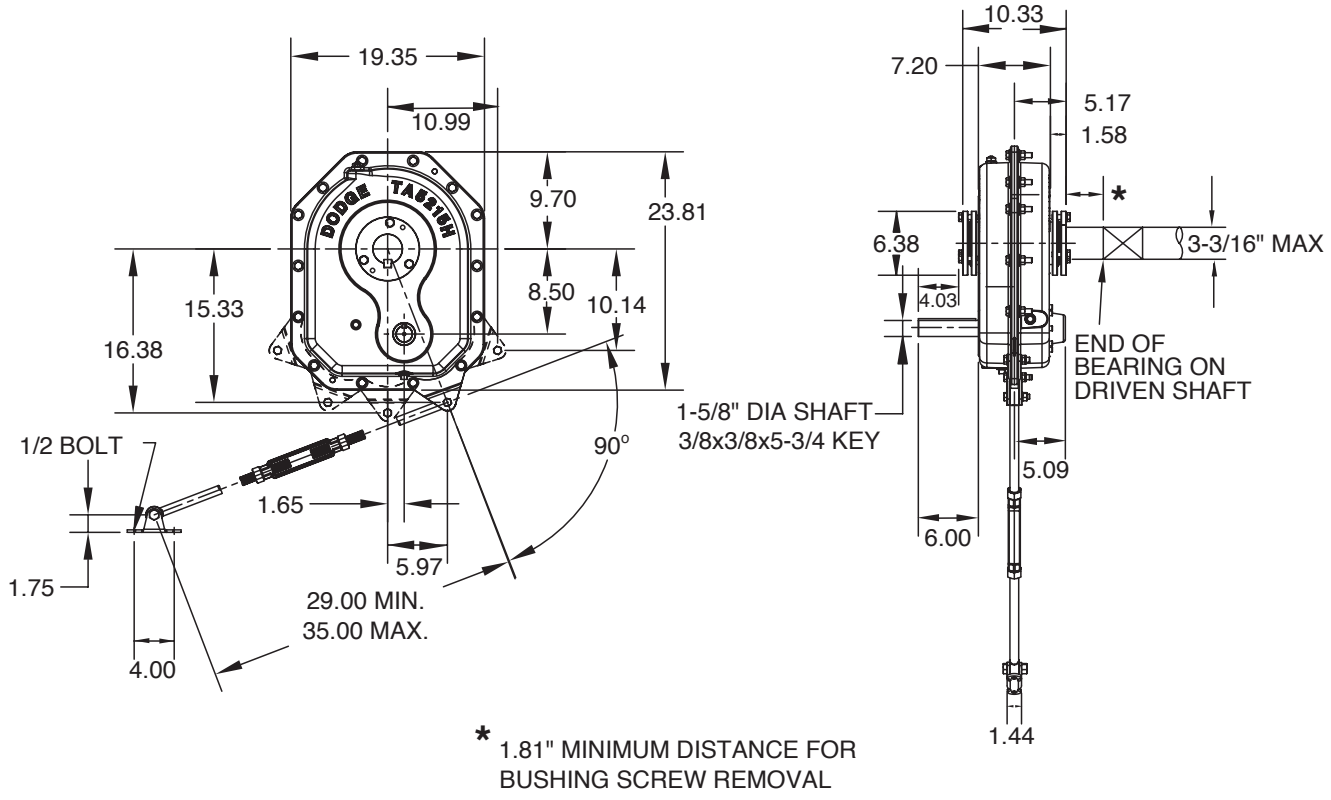
| Nominal Screw Dia | Trough Height Dim | Minimum Mounting Position | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | TA0107L | TA1107H | TA2115H | TA3203H | TA4207H | TA5215H | TA6307H | TA7315H |
| 6 | 7.00 | M2 | M3 | M2 | M2 | M2 | M1 | M1 | M1 |
| 9 | 9.00 | M3 | M4 | M3 | M3 | M2 | M2 | M2 | M1 |
| 12 | 10.00 | M4 | M4 | M3 | M3 | M2 | M2 | M2 | M1 |
| 14 | 11.00 | M4 | M4 | M4 | M3 | M3 | M2 | M2 | M2 |
| 16 | 11.50 | M4 | *** | M4 | M4 | M3 | M2 | M2 | M2 |
| 18 | 12.13 | *** | *** | M4 | M4 | M3 | M3 | M2 | M2 |
| 20 | 13.50 | *** | *** | M4 | M4 | M3 | M3 | M3 | M2 |
| 24 | 16.50 | *** | *** | *** | *** | M4 | M3 | M3 | M3 |

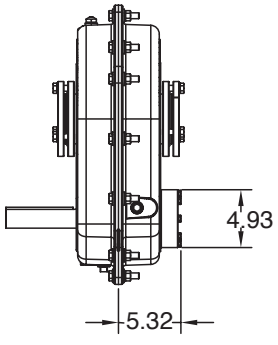
(1) For U Or Flared Trough Ends Per CEMA 300-014

# SELECTION/DIMENSIONS

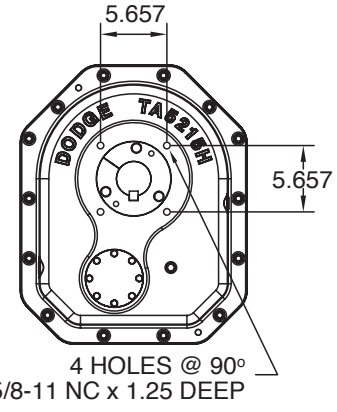
## TORQUE-ARM II Shaft Mount Speed Reducers

**Taper Bushed Reducers - TA5215H, Single And Double Reduction**




**REDUCER WITH BACKSTOP**




**FLANGE MOUNTING DIMENSIONS**

DODGE®

# TORQUE-ARM II Shaft Mount Speed Reducers

## Taper Bushed Reducers - TA5215H, Single And Double Reduction

### TA5215H Taper Bushed Reducers (1) ■

| Reducer Size | Part Number | AGMA Code | Actual Ratio | Weight lbs. |
|---|---|---|---|---|
| TA5215H05 | **905004** | 215S05 | 5.11 | 259.8 |
| TA5215H09 | **905003** | 215D09 | 9.18 | 274.4 |
| TA5215H15 | **905002** | 215D15 | 14.92 | 273.9 |
| TA5215H25 | **905001** | 215D25 | 25.00 | 272.9 |
| TA5215H40 | **905000** | 215D40 | 38.91 | 272.1 |

(1) Reducers are supplied from stock ready for vertical mounting and for flange mounting. Rod assembly is not included with reducer. Order as a separate part number.

■ See page G1-122 for Maximum Bore Straight Bore TA II Reducers

\+ Rod Assembly mounting locations are limited to positions shown in drawing.

### TA5215H Accessories

| Description | Part Number | Weight lbs. |
|---|---|---|
| TA5215RA Rod Assembly (1) + | **905109** | 11.0 |
| TA5215BS Backstop Assembly (2) | **905102** | 8.3 |
| TA521BS 40:1 Backstop Assembly (2) | **905103** | 8.3 |
| TA5215MM Motor Mount Assembly (182-365T) (3) | **905090** | 124.8 |
| TA5215BG Belt Guard - Pos. B (182-365T) | **905096** | 101.5 |
| TA5215BG Belt Guard - Pos. C (182-365T) (4) | **905097** | 105.5 |
| TA5215BG Belt Guard - Pos. D (182-365T) | **905099** | 105.0 |
| TA5215CF Cooling Fan Assembly ● | **905106** | 3.0 |
| TA4-TA12 Vertical Breather Kit | **904112** | 3.0 |
| TA5215H V-Ring Kit | **905249** | 0.3 |
| Filter Breather Kit | **430049** | 0.2 |
| TA5215H Lube Kit | **LUBEKITTA5215** | 28.9 |

(2) See page G1-128 for input shaft speed necessary for backstop sprag lift-off.

(3) Motor Mount will fit NEMA and IEC frame motors; however hardware are inch dimensions.

(4) Use Position C belt guard for TA II reducer in screw conveyor drive applications.

● See page G1-120 for cooling fan dimensions

### TA5215H Tapered Bushing Kits (5) (6)

| Bushing Size Standard Shaft Bushing Kit | Part Number (7) | Weight lbs. | Shaft Keyseat Required (9) (10) | Bushing Size Short Shaft Bushing Kit (8) | Part Number | Weight lbs. | Shaft Keyseat Required (9) (10) |
|---|---|---|---|---|---|---|---|
| TA5215TB x 3-3/16 | **905020** | 13.7 | 3/4 x 3/8 x 10.34 | --- | **---** | --- | --- |
| TA5215TB x 3 | **905021** | 15.1 | 3/4 x 3/8 x 10.34 | --- | **---** | --- | --- |
| TA5215TB x 2-15/16 ▲ | **905022** | 15.6 | 3/4 x 3/8 x 10.34 | TA5215TBS x 2-15/16 | **905033** | 16.2 | 3/4 x 3/8 x 6.36 |
| TA5215TB x 2-7/8 | **905023** | 16.1 | 3/4 x 3/8 x 10.34 | TA5215TBS x 2-7/8 | **905034** | 16.9 | 3/4 x 3/8 x 6.36 |
| TA5215TB x 2-11/16 | **905024** | 16.7 | 5/8 x 5/16 x 10.34 | TA5215TBS x 2-11/16 | **905035** | 18.1 | 5/8 x 5/16 x 6.36 |
| TA5215TB x 2-1/2 | **905025** | 17.9 | 5/8 x 5/16 x 10.34 | TA5215TBS x 2-1/2 | **905036** | 19.7 | 5/8 x 5/16 x 6.36 |
| TA5215TB x 2-7/16 | **905026** | 18.1 | 5/8 x 5/16 x 10.34 | TA5215TBS x 2-7/16 | **905037** | 20.1 | 5/8 x 5/16 x 6.36 |
| TA5215TB x 2-3/8 | **905027** | 18.3 | 5/8 x 5/16 x 10.34 | TA5215TBS x 2-3/8 | **905038** | 20.5 | 5/8 x 5/16 x 6.36 |
| TA5215TB x 2-1/4 | **905028** | 18.9 | 1/2 x 1/4 x 10.34 | TA5215TBS x 2-1/4 | **905039** | 21.4 | 1/2 x 1/4 x 6.36 |
| TA5215TB x 2-3/16 | **905029** | 19.1 | 1/2 x 1/4 x 10.34 | TA5215TBS x 2-3/16 | **905040** | 21.8 | 1/2 x 1/4 x 6.36 |
| TA5215TB x 2-1/8 | **905030** | 19.3 | 1/2 x 1/4 x 10.34 | TA5215TBS x 2-1/8 | **905041** | 22.2 | 1/2 x 1/4 x 6.36 |
| TA5215TB x 2 | **905031** | 19.9 | 1/2 x 1/4 x 10.34 | TA5215TBS x 2 | **905042** | 23.0 | 1/2 x 1/4 x 6.36 |
| TA5215TB x 1-15/16 | **905032** | 20.1 | 1/2 x 1/4 x 10.34 | TA5215TBS x 1-15/16 | **905043** | 23.4 | 1/2 x 1/4 x 6.36 |

▲ AGMA maximum bore size

(5) Bushing kit required to mount TA II reducer to driven shaft

(6) Bushing kit is not required to mount TA II reducer on SCS Drive Shaft in a screw conveyor application

(7) Standard Shaft Bushing Kit includes two standard bushings with back-up plates and snap rings; hardware, and key

(8) Short Shaft Bushing Kit includes one standard bushing, one long bushing with insertable wedge; two back-up plates with snap rings; hardware and key. This is an optional bushing for after market, short shaft mounting.

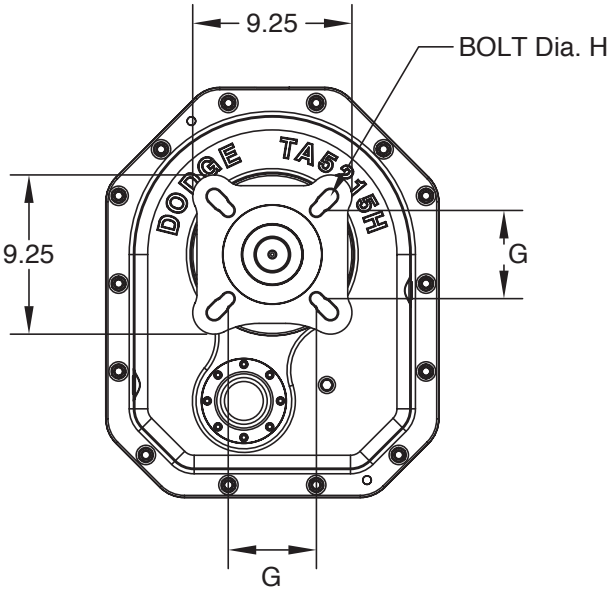
(9) Minimum keyseat and shaft length required to mount reducer with bushing kit

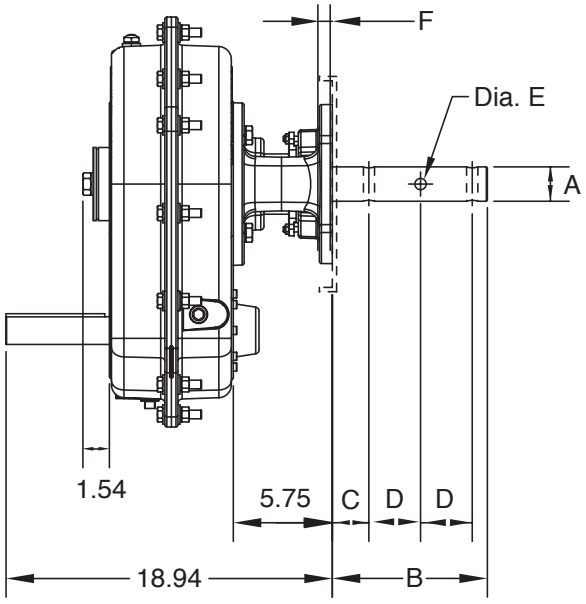
(10) Always check the driven shaft and key for strength

# SELECTION/DIMENSIONS

## TORQUE-ARM II Shaft Mount Speed Reducers

**Screw Conveyor Drive - TA5215H, Single And Double Reduction**



# TORQUE-ARM II Shaft Mount Speed Reducers

## Screw Conveyor Drive - TA5215H, Single And Double Reduction

### TA5215H Screw Conveyor Drive Dimensions

| Screw Dia | Drive Shaft Dia A | Dimensions | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | B | C | D | Hole Dia E | F | G | Bolt Dia H |
| 9, 12 | 2 | 9.00 | 2.13 | 3.00 | 21/32 | 0.75 | 5.13 | 5/8 |
| 12, 14 | 2-7/16 | 9.69 | 2.75 | 3.00 | 21/32 | 0.75 | 5.63 | 5/8 |
| 12, 14, 16, 18, 20 | 3 | 9.88 | 2.88 | 3.00 | 25/32 | 0.75 | 6.00 | 3/4 |
| 18, 20, 24 | 3-7/16 | 13.13 | 3.88 | 4.00 | 29/32 | 0.75 | 6.75 | 3/4 |

### TA5215H Accessories for Screw Conveyor Drives (1) (4) (5)

| Description | Part Number | Weight lbs. |
|---|---|---|
| TA5215SCA Adapter & Hardware Kit (2) | **905070** | 38.4 |
| TA5215SCP Adjustable Packing Kit (3) | **905071** | 2.1 |
| TA5215SCS x 2 Drive Shaft | **905073** | 39.0 |
| TA5215SCS x 2-7/16 Drive Shaft | **905074** | 43.6 |
| TA5215SCS x 3 Drive Shaft | **905075** | 50.0 |
| TA5215SCS x 3-7/16Drive Shaft | **905076** | 63.9 |
| TA5215SCS x 2 Stainless Steel Drive Shaft | **905081** | 39.0 |
| TA5215SCS x 2-7/16 Stainless Steel Drive Shaft | **905082** | 43.6 |
| TA5215SCS x 3 Stainless Steel Drive Shaft | **905083** | 50.0 |
| TA5215SCS x 3 -7/16 Stainless Steel Drive Shaft | **905084** | 63.9 |

(1) See page G1-75 for Belt Guard for Screw Conveyor Drive applications

(2) SCA Adapter & Hardware Kit includes adapter, mounting wedge, keeper plate, key, seals and hardware

(3) SCP Adjustable Packing Kit consists of flange, mounting hardware and braided packing seals

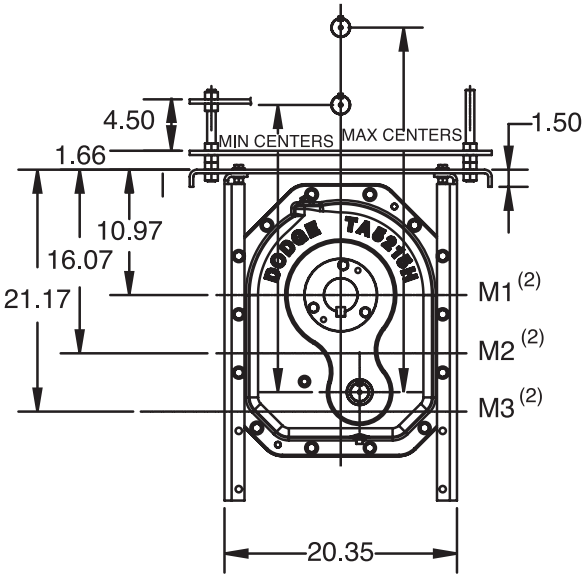
(4) SCS Drive Shaft is a shaft only. Hardware is stocked with the adapter & hardware kit

(5) A complete TA II Screw Conveyor Drive includes a TA II Reducer, SCA Adapter & Hardware Kit and SCS Drive Shaft. The SCP Adjustable Packing Kit is an optional accessory.

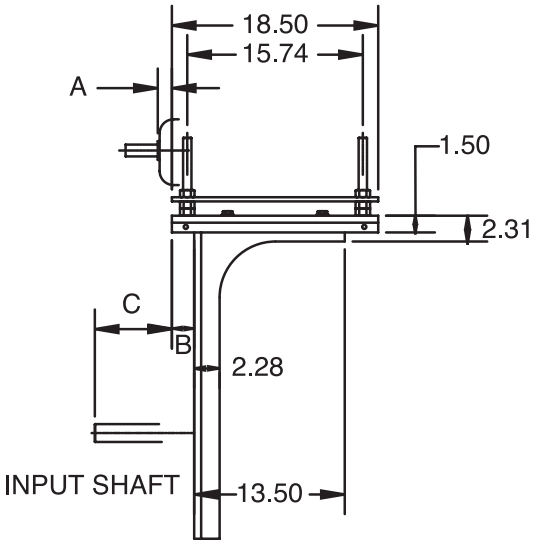
# SELECTION/DIMENSIONS

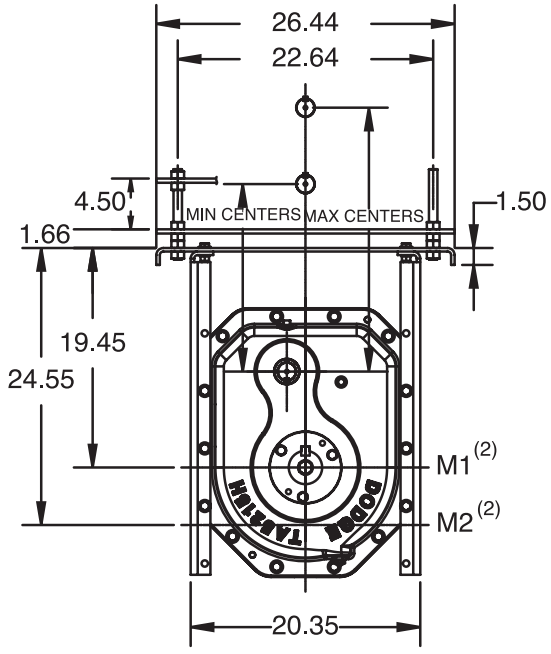
## TORQUE-ARM II Shaft Mount Speed Reducers

### Motor Mount Dimensions - TA5215H, Position B & D




POSITION B




POSITION D

# TORQUE-ARM II Shaft Mount Speed Reducers

## Motor Mount Dimensions - TA5215H, Position B & D (1)

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 182T & 184T | | | 213T & 215T | | | 254T & 256T | | |
| | | | | | | A | Centers | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max | | Min | Max |
| Position B | -0.21 | 4.21 | 4.70 | 9.12 | M1 | 1.37 | 26.2 | 30.3 | 1.55 | 26.9 | 31.1 | 1.56 | 27.9 | 32.1 |
| | | | | | M2 | | 31.2 | 35.3 | | 31.9 | 36.1 | | 32.9 | 37.1 |
| | | | | | M3 | | 36.2 | 40.3 | | 36.9 | 41.1 | | 37.9 | 42.1 |
| Position D | -0.21 | 4.21 | 4.70 | 9.12 | M1 | 1.37 | 17.7 | 21.8 | 1.55 | 18.4 | 22.6 | 1.56 | 19.4 | 23.6 |
| | | | | | M2 | | 22.7 | 26.8 | | 23.4 | 27.6 | | 24.4 | 28.6 |

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 284T & 286T | | | 324T & 326T | | | 364T & 365T | | |
| | | | | | | A | Centers | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max | | Min | Max |
| Position B | -0.21 | 4.21 | 4.70 | 9.12 | M1 | 1.16 | 28.7 | 32.8 | 0.38 | 29.7 | 33.8 | 1.01 | 30.7 | 34.8 |
| | | | | | M2 | | 33.7 | 37.8 | | 34.7 | 38.8 | | 35.7 | 39.8 |
| | | | | | M3 | | 38.7 | 42.8 | | 39.7 | 43.8 | | 40.7 | 44.8 |
| Position D | -0.21 | 4.21 | 4.70 | 9.12 | M1 | 1.16 | 20.2 | 24.3 | 0.38 | 21.2 | 25.3 | 1.01 | 22.2 | 26.3 |
| | | | | | M2 | | 25.2 | 29.3 | | 26.2 | 30.3 | | 27.2 | 31.3 |

**Notes:**

Minimum centers contains 0.5” to allow for belt assembly

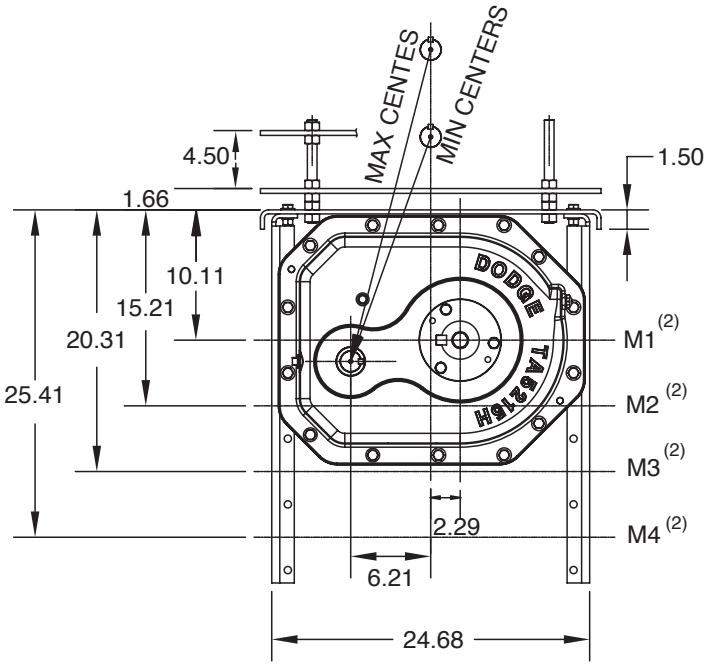
(1) Motor mount will fit NEMA and IEC frame motors; hardware are inch dimensions

(2) M1, M2, M3 go through output shaft centerline

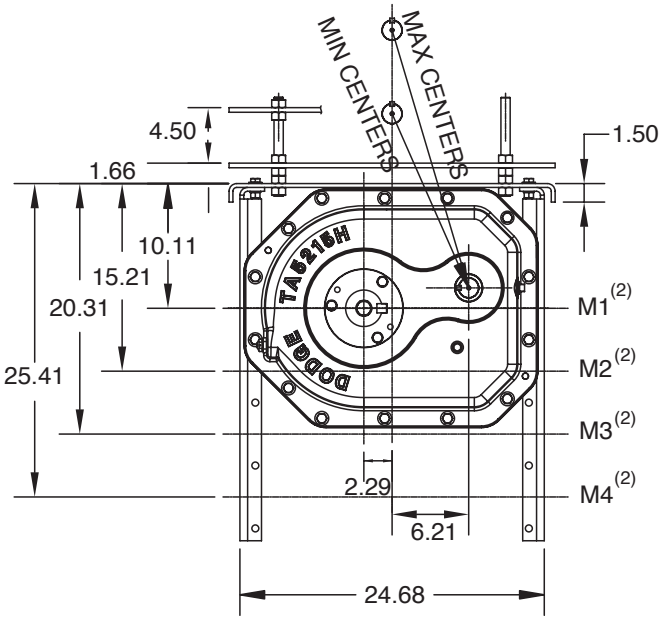
# SELECTION/DIMENSIONS

## TORQUE-ARM II Shaft Mount Speed Reducers

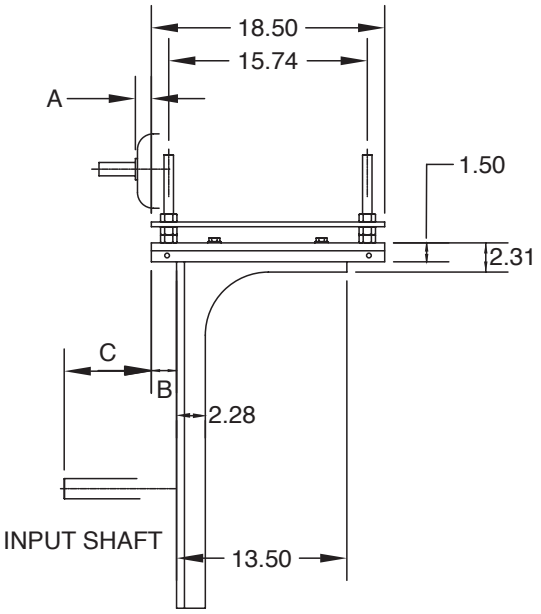
### Motor Mount Dimensions - TA5215H, Position A & C




POSITION A




POSITION C



# TORQUE-ARM II Shaft Mount Speed Reducers

## Motor Mount Dimensions - TA5215H, Position A & C (1) (3)

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 182T & 184T | | | 213T & 215T | | | 254T & 256T | | |
| | | | | | | A | Centers | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max | | Min | Max |
| Position A | -0.21 | 4.21 | 5.77 | 10.19 | M1 | 1.37 | 19.5 | 23.4 | 1.55 | 20.2 | 24.1 | 1.56 | 21.1 | 25.1 |
| | | | | | M2 | | 24.2 | 28.3 | | 25.0 | 29.0 | | 25.9 | 30.0 |
| | | | | | M3 | | 29.1 | 33.2 | | 29.8 | 33.9 | | 30.8 | 34.9 |
| | | | | | M4 | | 34.0 | 38.1 | | 34.7 | 38.8 | | 35.7 | 39.8 |
| Position C | -0.21 | 4.21 | 5.77 | 10.19 | M1 | 1.37 | 16.4 | 20.3 | 1.55 | 17.1 | 21.0 | 1.56 | 18.0 | 21.9 |
| | | | | | M2 | | 21.1 | 25.1 | | 21.8 | 25.8 | | 22.8 | 26.8 |
| | | | | | M3 | | 25.9 | 29.9 | | 26.6 | 30.7 | | 27.6 | 31.6 |
| | | | | | M4 | | 30.8 | 34.8 | | 31.5 | 35.6 | | 32.5 | 36.6 |

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 284T & 286T | | | 324T & 326T | | | 364T & 365T | | |
| | | | | | | A | Centers | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max | | Min | Max |
| Position A | -0.21 | 4.21 | 5.77 | 10.19 | M1 | 1.16 | 21.8 | 25.8 | 0.38 | 22.8 | 26.8 | 1.01 | 23.8 | 27.8 |
| | | | | | M2 | | 26.7 | 30.7 | | 27.6 | 31.7 | | 28.6 | 32.7 |
| | | | | | M3 | | 31.5 | 35.6 | | 32.5 | 36.6 | | 33.5 | 37.6 |
| | | | | | M4 | | 36.5 | 40.6 | | 37.4 | 41.5 | | 38.4 | 42.5 |
| Position C | -0.21 | 4.21 | 5.77 | 10.19 | M1 | 1.16 | 18.7 | 22.6 | 0.38 | 19.7 | 23.6 | 1.01 | 20.6 | 24.6 |
| | | | | | M2 | | 23.5 | 27.5 | | 24.4 | 28.5 | | 25.4 | 29.4 |
| | | | | | M3 | | 28.3 | 32.4 | | 29.3 | 33.4 | | 30.3 | 34.3 |
| | | | | | M4 | | 33.2 | 37.3 | | 34.2 | 38.3 | | 35.2 | 39.3 |

**Notes:**

Minimum centers contains 0.5” to allow for belt assembly

(1) Motor mount will fit NEMA and IEC frame motors; hardware are inch dimensions

(2) M1, M2, M3, M4 go through output shaft centerline

(3) See Table A, below, for minimum “M” mounting position required for specific screw diameter and reducer size

### Table A - Screw Conveyor Motor Mount Minimum “M” Mounting Positions (1)

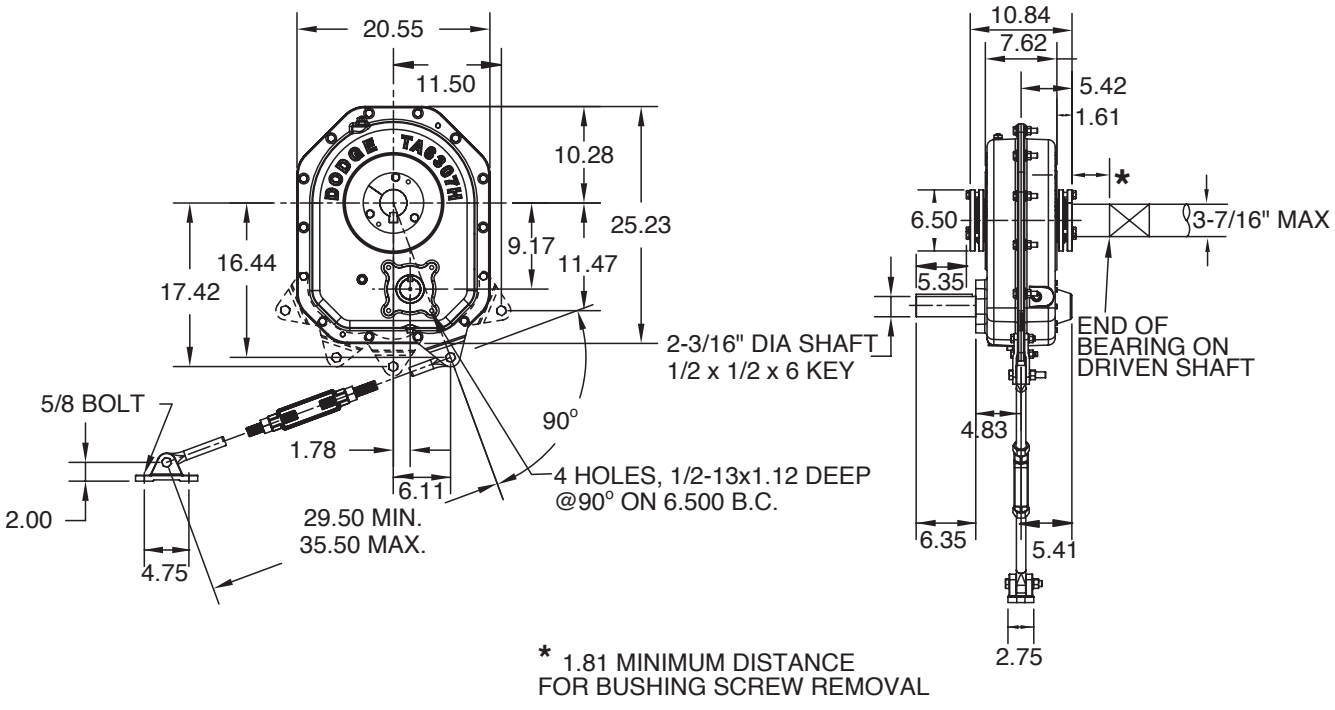
| Nominal Screw Dia | Trough Height Dim | Minimum Mounting Position | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | TA0107L | TA1107H | TA2115H | TA3203H | TA4207H | TA5215H | TA6307H | TA7315H |
| 6 | 7.00 | M2 | M3 | M2 | M2 | M2 | M1 | M1 | M1 |
| 9 | 9.00 | M3 | M4 | M3 | M3 | M2 | M2 | M2 | M1 |
| 12 | 10.00 | M4 | M4 | M3 | M3 | M2 | M2 | M2 | M1 |
| 14 | 11.00 | M4 | M4 | M4 | M3 | M3 | M2 | M2 | M2 |
| 16 | 11.50 | M4 | *** | M4 | M4 | M3 | M2 | M2 | M2 |
| 18 | 12.13 | *** | *** | M4 | M4 | M3 | M3 | M2 | M2 |
| 20 | 13.50 | *** | *** | M4 | M4 | M3 | M3 | M3 | M2 |
| 24 | 16.50 | *** | *** | *** | *** | M4 | M3 | M3 | M3 |

(1) For U Or Flared Trough Ends Per CEMA 300-014

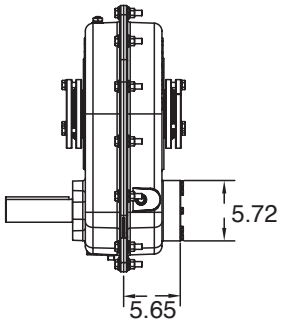
# SELECTION/DIMENSIONS

## TORQUE-ARM II Shaft Mount Speed Reducers

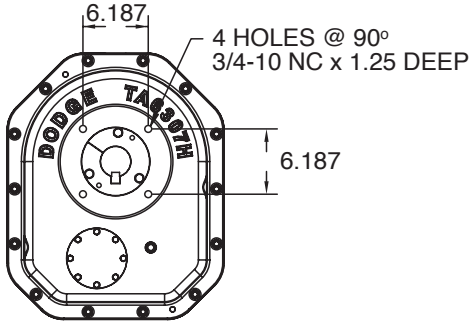
**Taper Bushed Reducers - TA6307H, Single And Double Reduction**




* 1.81 MINIMUM DISTANCE
FOR BUSHING SCREW REMOVAL




**REDUCER WITH BACKSTOP**




**FLANGE MOUNTING DIMENSIONS**

# TORQUE-ARM II Shaft Mount Speed Reducers

## Taper Bushed Reducers - TA6307H, Single And Double Reduction

### TA6307H Taper Bushed Reducers (1) ■

| Reducer Size | Part Number | AGMA Code | Actual Ratio | Weight lbs. |
|---|---|---|---|---|
| TA6307H05 | **906004** | 307S05 | 4.94 | 316.0 |
| TA6307H09 | **906003** | 307D09 | 9.22 | 334.0 |
| TA6307H15 | **906002** | 307D15 | 15.45 | 333.0 |
| TA6307H25 | **906001** | 307D25 | 24.87 | 331.0 |
| TA6307H40 | **906000** | 307D40 | 38.32 | 330.0 |

(1) Reducers are supplied from stock ready for vertical mounting and for flange mounting. Rod assembly is not included with reducer. Order as a separate part number.

■ See page G1-122 for Maximum Bore Straight Bore TA II Reducers

\+ Rod Assembly mounting locations are limited to positions shown in drawing.

### TA6307H Accessories

| Description | Part Number | Weight lbs. |
|---|---|---|
| TA6307RA Rod Assembly (1) + | **906109** | 19.9 |
| TA6307BS Backstop Assembly (2) | **906102** | 11.1 |
| TA6307BS 25:1 & 40:1 Backstop Assembly (2) | **906103** | 11.1 |
| TA6307MM Motor Mount Assembly (182-405T) (3) | **906090** | 156.7 |
| TA6307BG Belt Guard - Pos. B (182-405T) | **906096** | 121.2 |
| TA6307BG Belt Guard - Pos. C (182-405T) (4) | **906097** | 129.4 |
| TA6307BG Belt Guard - Pos. D (182-405T) | **906099** | 122.2 |
| TA6307CF Cooling Fan Assembly ● | **906106** | 10.0 |
| TA4-TA12 Vertical Breather Kit | **904112** | 3.0 |
| TA6307H V-Ring Kit | **906249** | 0.4 |
| Filter Breather Kit | **430049** | 0.2 |
| TA6307H Lube Kit | **LUBEKITTA6307** | 34.7 |

(2) See page G1-128 for input shaft speed necessary for backstop sprag lift-off

(3) Motor Mount will fit NEMA and IEC frame motors; however hardware are inch dimensions

(4) Use Position-C belt guard for TA II reducer in screw conveyor drive applications

● See page G1-120 for cooling fan dimensions

### TA6307H Tapered Bushing Kits (5) (6)

| Bushing Size Standard Shaft Bushing Kit | Part Number (7) | Weight lbs. | Shaft Keyseat Required (9) (10) | Bushing Size Short Shaft Bushing Kit (8) | Part Number | Weight lbs. | Shaft Keyseat Required (9) (10) |
|---|---|---|---|---|---|---|---|
| TA6307TB x 3-7/16 ▲ | **906020** | 16.7 | 7/8 x 7/16 x 10.82 | TA6307TBS x 3-7/16 | **906031** | 16.5 | 7/8 x 7/16 x 6.72 |
| TA6307TB x 3-3/16 | **906021** | 17.7 | 3/4 x 3/8 x 10.82 | TA6307TBS x 3-3/16 | **906032** | 19.0 | 3/4 x 3/8 x 6.72 |
| TA6307TB x 3 | **906022** | 19.1 | 3/4 x 3/8 x 10.82 | TA6307TBS x 3 | **906033** | 20.9 | 3/4 x 3/8 x 6.72 |
| TA6307TB x 2-15/16 | **906023** | 19.6 | 3/4 x 3/8 x 10.82 | TA6307TBS x 2-15/16 | **906034** | 21.6 | 3/4 x 3/8 x 6.72 |
| TA6307TB x 2-7/8 | **906024** | 20.1 | 3/4 x 3/8 x 10.82 | TA6307TBS x 2-7/8 | **906035** | 22.3 | 3/4 x 3/8 x 6.72 |
| TA6307TB x 2-11/16 | **906025** | 20.9 | 5/8 x 5/16 x 10.82 | TA6307TBS x 2-11/16 | **906036** | 23.7 | 5/8 x 5/16 x 6.72 |
| TA6307TB x 2-1/2 | **906026** | 22.1 | 5/8 x 5/16 x 10.82 | TA6307TBS x 2-1/2 | **906037** | 25.3 | 5/8 x 5/16 x 6.72 |
| TA6307TB x 2-7/16 | **906027** | 22.3 | 5/8 x 5/16 x 10.82 | TA6307TBS x 2-7/16 | **906038** | 25.8 | 5/8 x 5/16 x 6.72 |
| TA6307TB x 2-3/8 | **906028** | 22.7 | 5/8 x 5/16 x 10.82 | TA6307TBS x 2-3/8 | **906039** | 26.3 | 5/8 x 5/16 x 6.72 |
| TA6307TB x 2-1/4 | **906029** | 23.1 | 1/2 x 1/4 x 10.82 | TA6307TBS x 2-1/4 | **906040** | 26.7 | 1/2 x 1/4 x 6.72 |
| TA6307TB x 2-3/16 | **906030** | 23.3 | 1/2 x 1/4 x 10.82 | TA6307TBS x 2-3/16 | **906041** | 27.5 | 1/2 x 1/4 x 6.72 |

▲ AGMA maximum bore size

(5) Bushing kit required to mount TA II reducer to driven shaft

(6) Bushing kit is not required to mount TA II reducer on SCS Drive Shaft in a screw conveyor application

(7) Standard Shaft Bushing Kit includes two standard bushings with back-up plates and snap rings; hardware, and key

(8) Short Shaft Bushing Kit includes one standard bushing, one long bushing with insertable wedge; two back-up plates with snap rings; hardware and key. This is an optional bushing for after market, short shaft mounting.

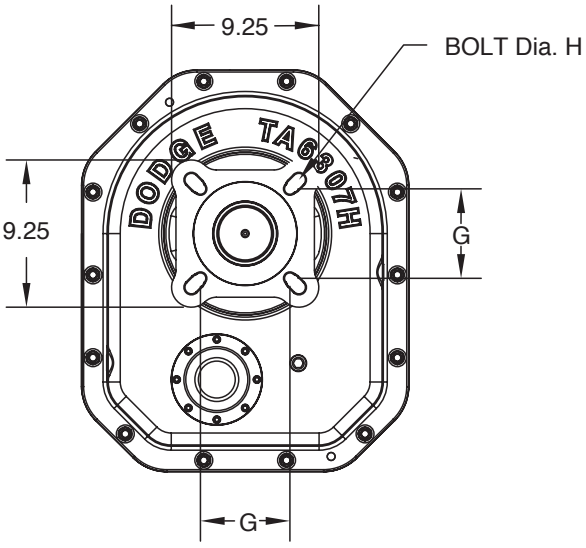
(9) Minimum keyseat and shaft length required to mount reducer with bushing kit

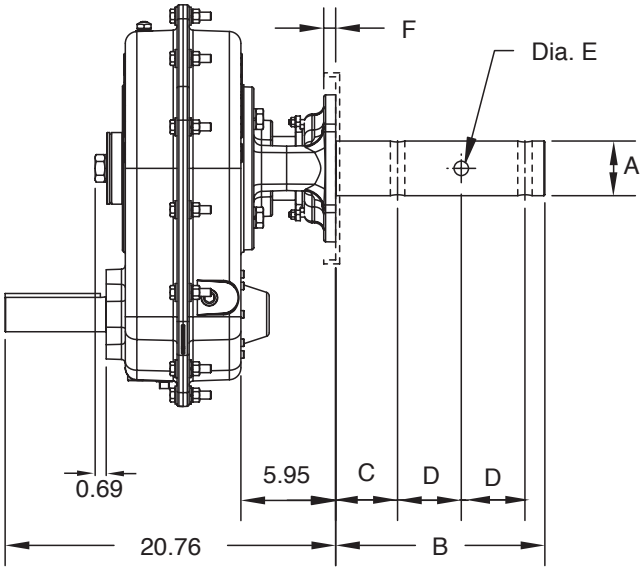
(10) Always check the driven shaft and key for strength

# SELECTION/DIMENSIONS

## TORQUE-ARM II Shaft Mount Speed Reducers

**Screw Conveyor Drive - TA6307H, Single And Double Reduction**



# TORQUE-ARM II Shaft Mount Speed Reducers

## Screw Conveyor Drive - TA6307H, Single And Double Reduction

### TA6307H Screw Conveyor Drive Dimensions

| Screw Dia | Drive Shaft Dia A | Dimensions | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | B | C | D | Hole Dia E | F | G | Bolt Dia H |
| 12, 14 | 2-7/16 | 9.69 | 2.75 | 3.00 | 21/32 | 0.75 | 5.63 | 5/8 |
| 12, 14, 16,18, 20 | 3 | 9.88 | 2.88 | 3.00 | 25/32 | 0.75 | 6.00 | 3/4 |
| 18, 20, 24 | 3-7/16 | 13.13 | 3.88 | 4.00 | 29/32 | 0.75 | 6.75 | 3/4 |

### TA6307H Accessories for Screw Conveyor Drives (1) (4) (5)

| Description | Part Number | Weight lbs. |
|---|---|---|
| TA6307SCA Adapter & Hardware Kit (2) | **906070** | 40.0 |
| TA6307SCP Adjustable Packing Kit (3) | **906071** | 2.4 |
| TA6307SCS x 2-7/16 Drive Shaft | **906074** | 54.6 |
| TA6307SCS x 3 Drive Shaft | **906075** | 61.0 |
| TA6307SCS x 3-7/16 Drive Shaft | **906076** | 74.9 |
| TA6307SCS x 2-7/16 Stainless Steel Drive Shaft | **906082** | 54.6 |
| TA6307SCS x 3 Stainless Steel Drive Shaft | **906083** | 61.0 |
| TA6307SCS x 3-7/16 Stainless Steel Drive Shaft | **906084** | 74.9 |

(1) See page G1-83 for Belt Guard for Screw Conveyor Drive applications

(2) SCA Adapter & Hardware Kit includes adapter, mounting wedge, keeper plate, key, seals and hardware

(3) SCP Adjustable Packing Kit consists of flange, mounting hardware and braided packing seals

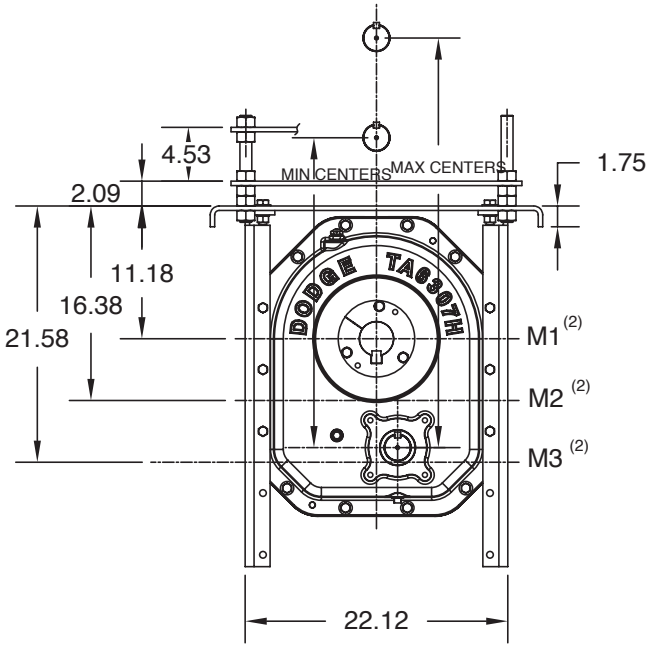
(4) SCS Drive Shaft is a shaft only. Hardware is stocked with the adapter & hardware kit

(5) A complete TA II Screw Conveyor Drive includes a TA II Reducer, SCA Adapter & Hardware Kit and SCS Drive Shaft. The SCP Adjustable Packing Kit is an optional accessory.

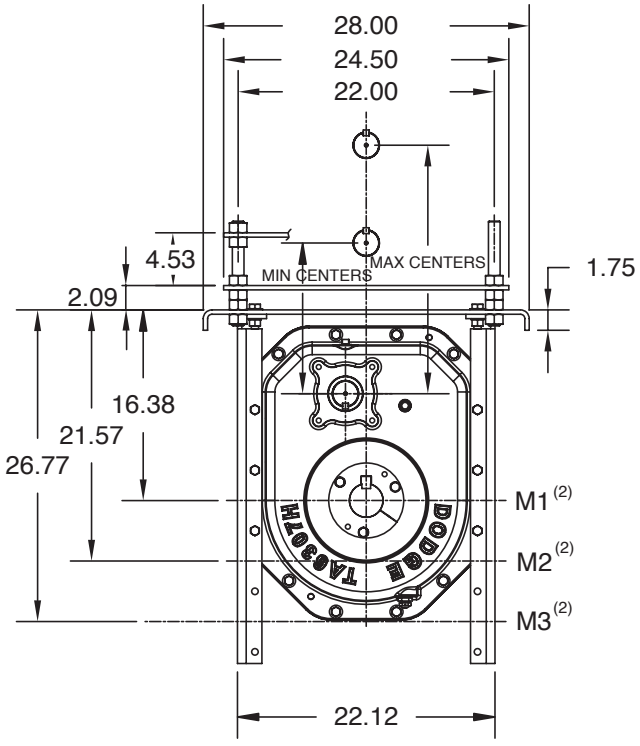
# SELECTION/DIMENSIONS

## TORQUE-ARM II Shaft Mount Speed Reducers

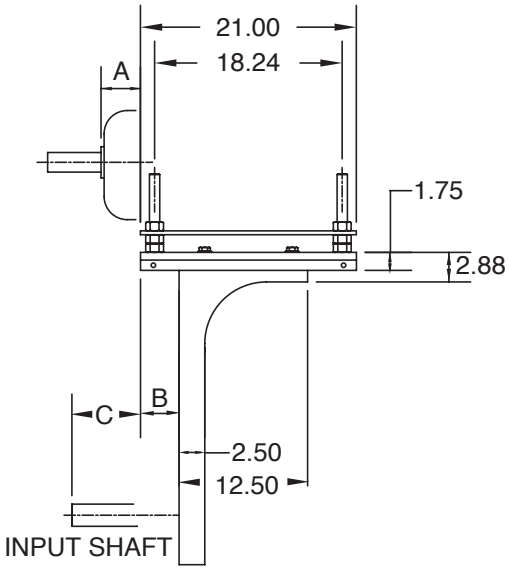
### Motor Mount Dimensions - TA6307H, Position B & D




POSITION B




POSITION D



# TORQUE-ARM II Shaft Mount Speed Reducers

## Motor Mount Dimensions - TA6307H, Position B & D (1)

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 182T & 184T | | | 213T & 215T | | | 254T & 256T | | | 284T & 286T | | |
| | | | | | | A | Centers | | A | Centers | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max | | Min | Max | | Min | Max |
| Position B | 1.59 | 5.91 | 4.51 | 8.83 | M1 | 1.37 | 27.5 | 31.5 | 1.55 | 28.2 | 32.3 | 1.56 | 29.2 | 33.3 | 1.16 | 30.0 | 34.0 |
| | | | | | M2 | | 32.7 | 36.7 | | 33.4 | 37.5 | | 34.4 | 38.5 | | 35.2 | 39.2 |
| | | | | | M3 | | 37.9 | 41.9 | | 38.6 | 42.7 | | 39.6 | 43.7 | | 40.4 | 44.4 |
| Position D | 1.59 | 5.91 | 4.51 | 8.83 | M1 | 1.37 | 14.4 | 18.4 | 1.55 | 15.2 | 19.2 | 1.56 | 16.1 | 20.2 | 1.16 | 16.9 | 20.9 |
| | | | | | M2 | | 19.6 | 23.6 | | 20.3 | 24.3 | | 21.3 | 25.3 | | 22.1 | 26.1 |
| | | | | | M3 | | 24.8 | 28.8 | | 25.5 | 29.5 | | 26.5 | 30.5 | | 27.3 | 31.3 |

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 324T & 326T | | | 364T & 365T | | | 404T & 405T | | |
| | | | | | | A | Centers | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max | | Min | Max |
| Position B | 1.59 | 5.91 | 4.51 | 8.83 | M1 | 0.38 | 31.0 | 35.0 | 1.01 | 32.0 | 36.0 | 0.75 | 33.0 | 37.0 |
| | | | | | M2 | | 36.2 | 40.2 | | 37.2 | 41.2 | | 38.2 | 42.2 |
| | | | | | M3 | | 41.4 | 45.4 | | 42.4 | 46.4 | | 43.4 | 47.4 |
| Position D | 1.59 | 5.91 | 4.51 | 8.83 | M1 | 0.38 | 17.9 | 21.9 | 1.01 | 18.9 | 22.9 | 0.75 | 19.9 | 23.9 |
| | | | | | M2 | | 23.1 | 27.1 | | 24.1 | 28.1 | | 25.1 | 29.1 |
| | | | | | M3 | | 28.3 | 32.3 | | 29.3 | 33.3 | | 30.2 | 34.3 |

**Notes:**

Minimum centers contains 0.5” to allow for belt assembly

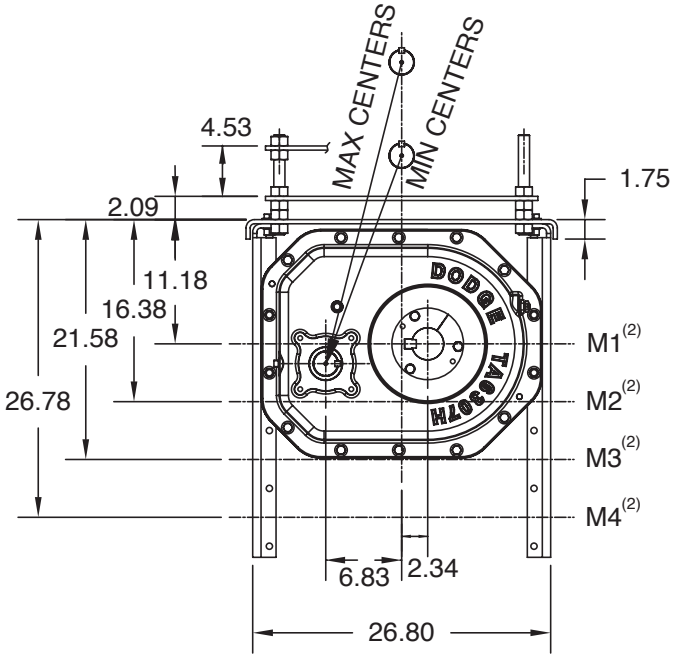
(1) Motor mount will fit NEMA and IEC frame motors; hardware are inch dimensions

(2) M1, M2, M3 go through output shaft centerline

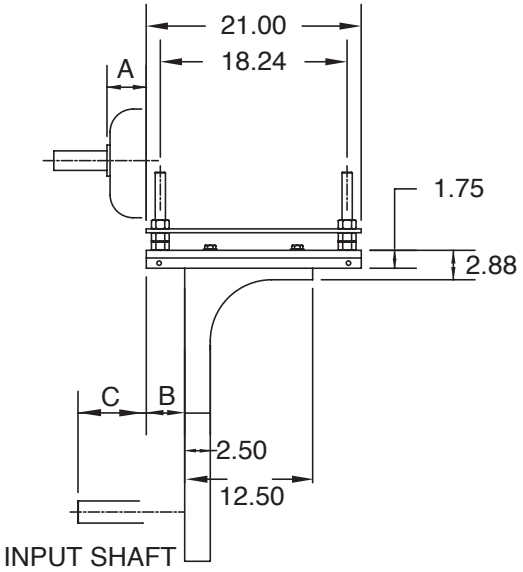
# SELECTION/DIMENSIONS

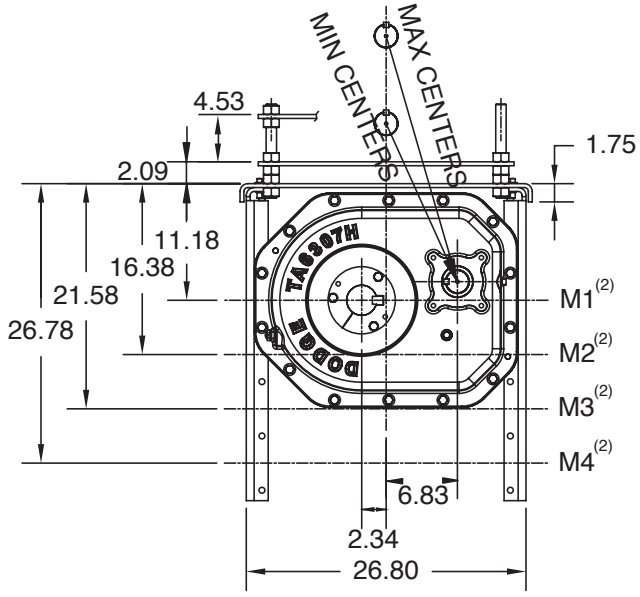
## TORQUE-ARM II Shaft Mount Speed Reducers

### Motor Mount Dimensions - TA6307H, Position A & C




POSITION A




POSITION C

# TORQUE-ARM II Shaft Mount Speed Reducers

## Motor Mount Dimensions - TA6307H, Position A & C (1) (3)

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 182T & 184T | | | 213T & 215T | | | 254T & 256T | | | 284T & 286T | | |
| | | | | | | A | Centers | | A | Centers | | A | Centers | | A | Centers | |
| | B Min | B Min | C Min | C Min | | | Min | Max | | Min | Max | | Min | Max | | Min | Max |
| Position A | 1.59 | 5.91 | 5.65 | 9.97 | M1 | 1.37 | 21.2 | 25.0 | 1.55 | 21.9 | 25.8 | 1.56 | 22.9 | 26.7 | 1.16 | 23.6 | 27.4 |
| | | | | | M2 | | 26.2 | 30.1 | | 26.9 | 30.8 | | 27.9 | 31.8 | | 28.6 | 32.5 |
| | | | | | M3 | | 31.2 | 35.1 | | 32.0 | 35.9 | | 32.9 | 36.9 | | 33.7 | 37.6 |
| | | | | | M4 | | 36.3 | 40.3 | | 37.0 | 41.0 | | 38.0 | 42.0 | | 38.8 | 42.7 |
| Position C | 1.59 | 5.91 | 5.65 | 9.97 | M1 | 1.37 | 17.9 | 21.6 | 1.55 | 18.6 | 22.3 | 1.56 | 19.5 | 23.3 | 1.16 | 20.2 | 24.0 |
| | | | | | M2 | | 22.8 | 26.6 | | 23.5 | 27.3 | | 24.4 | 28.3 | | 25.2 | 29.0 |
| | | | | | M3 | | 27.8 | 31.7 | | 28.5 | 32.4 | | 29.5 | 33.4 | | 30.2 | 34.1 |
| | | | | | M4 | | 32.8 | 36.8 | | 33.5 | 37.5 | | 34.5 | 38.5 | | 35.3 | 39.2 |

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 324T & 326T | | | 364T & 365T | | | 404T & 405T | | |
| | | | | | | A | Centers | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max | | Min | Max |
| Position A | 1.59 | 5.91 | 5.65 | 9.97 | M1 | 0.38 | 24.5 | 28.4 | 1.01 | 25.5 | 29.4 | 0.75 | 26.5 | 30.4 |
| | | | | | M2 | | 29.6 | 33.5 | | 30.5 | 34.5 | | 31.5 | 35.4 |
| | | | | | M3 | | 34.6 | 38.6 | | 35.6 | 39.6 | | 36.6 | 40.6 |
| | | | | | M4 | | 39.7 | 43.7 | | 40.7 | 44.7 | | 41.7 | 45.7 |
| Position C | 1.59 | 5.91 | 5.65 | 9.97 | M1 | 0.38 | 21.1 | 25.0 | 1.01 | 22.1 | 25.9 | 0.75 | 23.0 | 26.9 |
| | | | | | M2 | | 26.1 | 30.0 | | 27.1 | 31.0 | | 28.0 | 32.0 |
| | | | | | M3 | | 31.2 | 35.1 | | 32.1 | 36.1 | | 33.1 | 37.1 |
| | | | | | M4 | | 36.2 | 40.2 | | 37.2 | 41.2 | | 38.2 | 42.2 |

**Notes:**

Minimum centers contains 0.5” to allow for belt assembly

(1) Motor mount will fit NEMA and IEC frame motors; hardware are inch dimensions

(2) M1, M2, M3, M4 go through output shaft centerline

(3) See Table A, below, for minimum “M” mounting position required for specific screw diameter and reducer size

### Table A - Screw Conveyor Motor Mount Minimum “M” Mounting Positions (1)

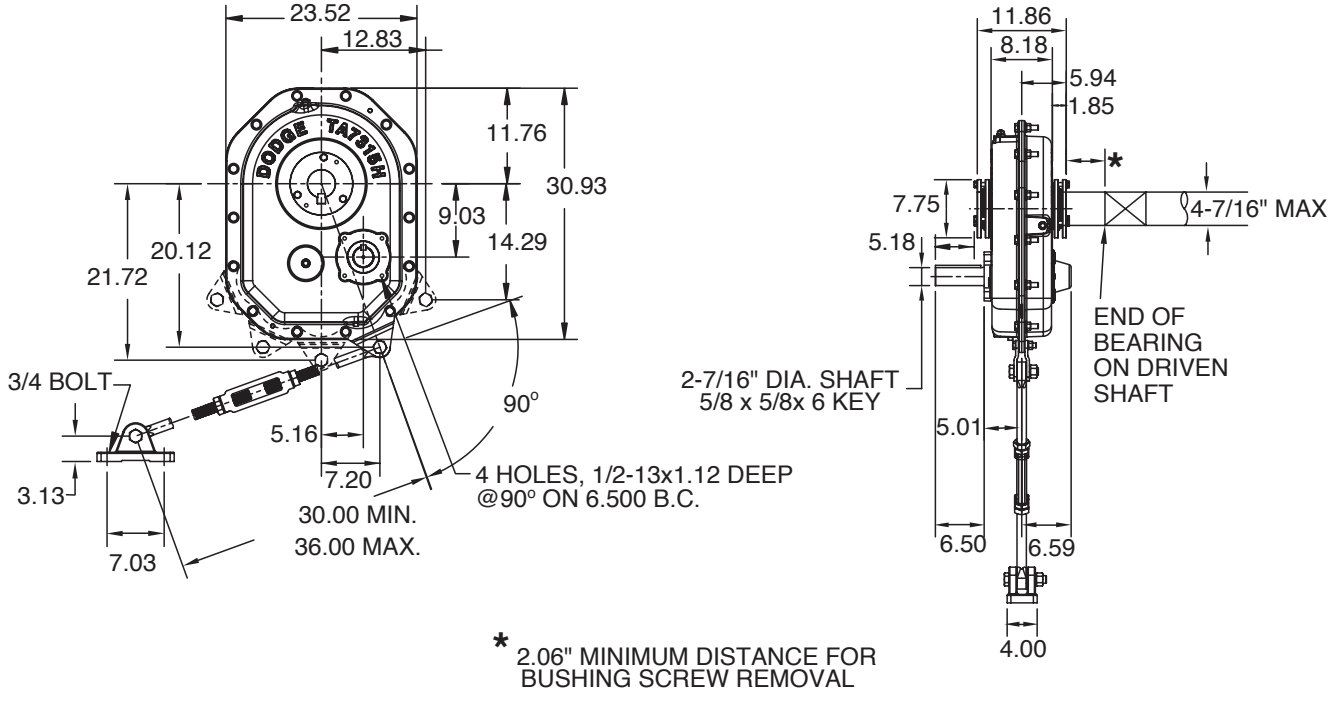
| Nominal Screw Dia | Trough Height Dim | Minimum Mounting Position | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | TA0107L | TA1107H | TA2115H | TA3203H | TA4207H | TA5215H | TA6307H | TA7315H |
| 6 | 7.00 | M2 | M3 | M2 | M2 | M2 | M1 | M1 | M1 |
| 9 | 9.00 | M3 | M4 | M3 | M3 | M2 | M2 | M2 | M1 |
| 12 | 10.00 | M4 | M4 | M3 | M3 | M2 | M2 | M2 | M1 |
| 14 | 11.00 | M4 | M4 | M4 | M3 | M3 | M2 | M2 | M2 |
| 16 | 11.50 | M4 | *** | M4 | M4 | M3 | M2 | M2 | M2 |
| 18 | 12.13 | *** | *** | M4 | M4 | M3 | M3 | M2 | M2 |
| 20 | 13.50 | *** | *** | M4 | M4 | M3 | M3 | M3 | M2 |
| 24 | 16.50 | *** | *** | *** | *** | M4 | M3 | M3 | M3 |

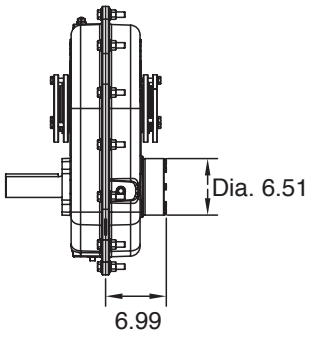
(1) For U Or Flared Trough Ends Per CEMA 300-014

# SELECTION/DIMENSIONS

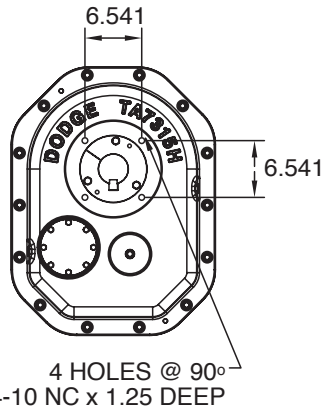
## TORQUE-ARM II Shaft Mount Speed Reducers

**Taper Bushed Reducers - TA7315H, Single And Double Reduction**




**REDUCER WITH BACKSTOP**




**FLANGE MOUNTING DIMENSIONS**

# TORQUE-ARM II Shaft Mount Speed Reducers

## Taper Bushed Reducers - TA7315H, Single And Double Reduction

### TA7315H Taper Bushed Reducers (1)

| Reducer Size | Part Number | AGMA Code | Actual Ratio | Weight lbs. |
|---|---|---|---|---|
| TA7315H05 | **907004** | 315S05 | 5.19 | 449.0 |
| TA7315H09 | **907003** | 315D09 | 9.72 | 494.0 |
| TA7315H15 | **907002** | 315D15 | 14.91 | 493.0 |
| TA7315H25 | **907001** | 315D25 | 24.84 | 494.0 |
| TA7315H40 | **907000** | 315D40 | 39.66 | 492.0 |

(1) Reducers are supplied from stock ready for vertical mounting and for flange mounting. Rod assembly is not included with reducer. Order as a separate part number.

\+ Rod Assembly mounting locations are limited to positions shown in drawing.

### TA7315H Accessories

| Description | Part Number | Weight lbs. |
|---|---|---|
| TA7315/8407RA Rod Assembly (1) + | **907109** | 43.2 |
| TA7315BS Backstop Assembly (2) | **907102** | 20.0 |
| TA7315/9415BS 40:1 Backstop Assembly (2) | **907103** | 21.0 |
| TA7315/8407MM Motor Mount Assembly (213-405T) (3) | **907090** | 183.3 |
| TA7315/8407BG Belt Guard - Pos. B (213-405T) | **907096** | 147.2 |
| TA7315/8407BG Belt Guard - Pos. C (213-405T) (4) | **907097** | 152.7 |
| TA7315/8407BG Belt Guard - Pos. D (213-405T) | **907099** | 148.2 |
| TA7315/8407CF Cooling Fan Assembly ● | **907106** | 10.0 |
| TA4-TA12 Vertical Breather Kit | **904112** | 3.0 |
| TA7315/8407H V-Ring Kit | **907249** | 0.4 |
| Filter Breather Kit | **430049** | 0.2 |
| TA7315H Lube Kit | **LUBEKITTA7315** | 53.2 |

(2) See page G1-128 for input shaft speed necessary for backstop sprag lift-off

(3) Motor Mount will fit NEMA and IEC frame motors; however hardware are inch dimensions

(4) Use Position-C belt guard for TA II reducer in screw conveyor drive applications

● See page G1-120 for cooling fan dimensions

### TA7315H Tapered Bushing Kits (5) (6)

| Bushing Size Standard Shaft Bushing Kit | Part Number (7) | Weight lbs. | Shaft Keyseat Required (10) | Bushing Size Short Shaft Bushing Kit (8) | Part Number | Weight lbs. | Shaft Keyseat Required (9) (10) |
|---|---|---|---|---|---|---|---|
| TA7315TB x 4-7/16 | **907019** | 20.5 | 1 x 1/2 x 11.87 | --- | --- | --- | --- |
| TA7315TB x 4-3/16 | **907021** | 23.5 | 1 x 1/2 x 11.87 | --- | --- | --- | --- |
| TA7315TB x 3-15/16 ▲ | **907022** | 26.3 | 1 x 1/2 x 11.87 | TA7315TBS x 3-15/16 | **907031** | 26.7 | 1 x 1/2 x 7.62 |
| TA7315TB x 3-7/16 | **907023** | 30.9 | 7/8 x 7/16 x 11.87 | TA7315TBS x 3-7/16 | **907032** | 34.2 | 7/8 x 7/16 x 7.62 |
| TA7315TB x 3-3/16 | **907024** | 32.6 | 3/4 x 3/8 x 11.87 | TA7315TBS x 3-3/16 | **907033** | 36.7 | 3/4 x 3/8 x 7.62 |
| TA7315TB x 3 | **907025** | 34.0 | 3/4 x 3/8 x 11.87 | TA7315TBS x 3 | **907034** | 38.8 | 3/4 x 3/8 x 7.62 |
| TA7315TB x 2-15/16 | **907026** | 34.6 | 3/4 x 3/8 x 11.87 | TA7315TBS x 2-15/16 | **907035** | 39.6 | 3/4 x 3/8 x 7.62 |
| TA7315TB x 2-7/8 | **907027** | 35.0 | 3/4 x 3/8 x 11.87 | TA7315TBS x 2-7/8 | **907036** | 40.2 | 3/4 x 3/8 x 7.62 |
| TA7315TB x 2-11/16 | **907028** | 35.8 | 5/8 x 5/16 x 11.87 | TA7315TBS x 2-11/16 | **907037** | 41.7 | 5/8 x 5/16 x 7.62 |
| TA7315TB x 2-1/2 | **907029** | 37.2 | 5/8 x 5/16 x 11.87 | TA7315TBS x 2-1/2 | **907038** | 43.6 | 5/8 x 5/16 x 7.62 |
| TA7315TB x 2-7/16 | **907030** | 37.4 | 5/8 x 5/16 x 11.87 | TA7315TBS x 2-7/16 | **907039** | 44.1 | 5/8 x 5/16 x 7.62 |

▲ AGMA maximum bore size

(5) Bushing kit required to mount TA II reducer to driven shaft

(6) Bushing Kit is not required to mount TA II reducer on SCS Drive Shaft in a screw conveyor application

(7) Standard Shaft Bushing Kit includes two standard bushings with backup plates and snap rings; hardware and one key

(8) Short Shaft Bushing Kit includes one standard bushing; one long bushing with mounting wedge; two backup plates with snap rings; hardware and one key. This is an optional bushing for after market, short shaft mounting

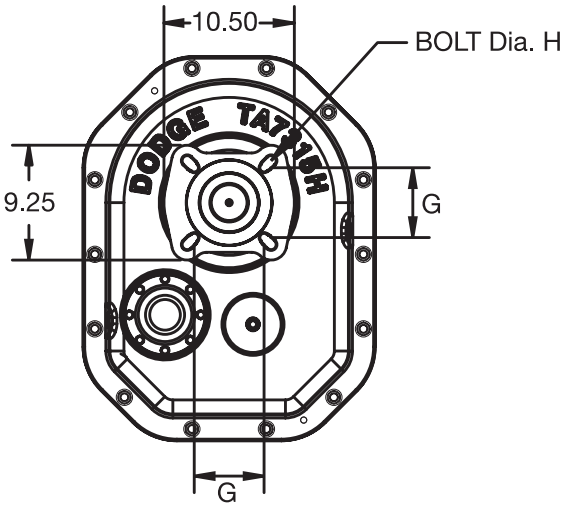
(9) Minimum keyseat and shaft length required to mount reducer with bushing kit

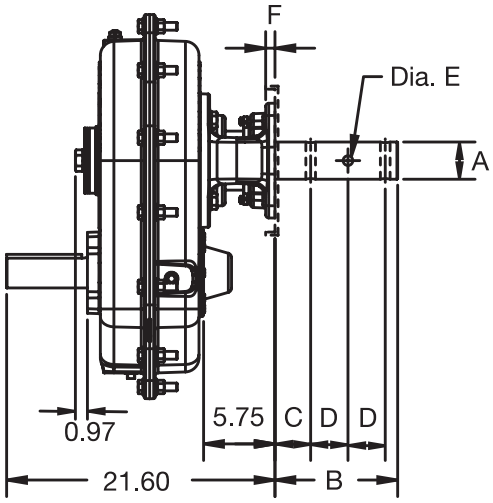
(10) Always check the driven shaft and key for strength

# SELECTION/DIMENSIONS

## TORQUE-ARM II Shaft Mount Speed Reducers

**Screw Conveyor Drive - TA7315H, Single And Double Reduction**



# TORQUE-ARM II Shaft Mount Speed Reducers

## Screw Conveyor Drive - TA7315H, Single And Double Reduction

### TA7315H Screw Conveyor Drive Dimensions

| Screw Dia | Drive Shaft Dia A | Dimensions | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | B | C | D | Hole Dia E | F | G | Bolt Dia H |
| 12, 14 | 2-7/16 | 9.69 | 2.75 | 3.00 | 21/32 | 0.75 | 5.63 | 5/8 |
| 12, 14, 16, 18, 20 | 3 | 9.88 | 2.88 | 3.00 | 25/32 | 0.75 | 6.00 | 3/4 |
| 18, 20, 24 | 3-7/16 | 13.13 | 3.88 | 4.00 | 29/32 | 0.75 | 6.75 | 3/4 |

### TA7315H Accessories for Screw Conveyor Drives (1) (4) (5)

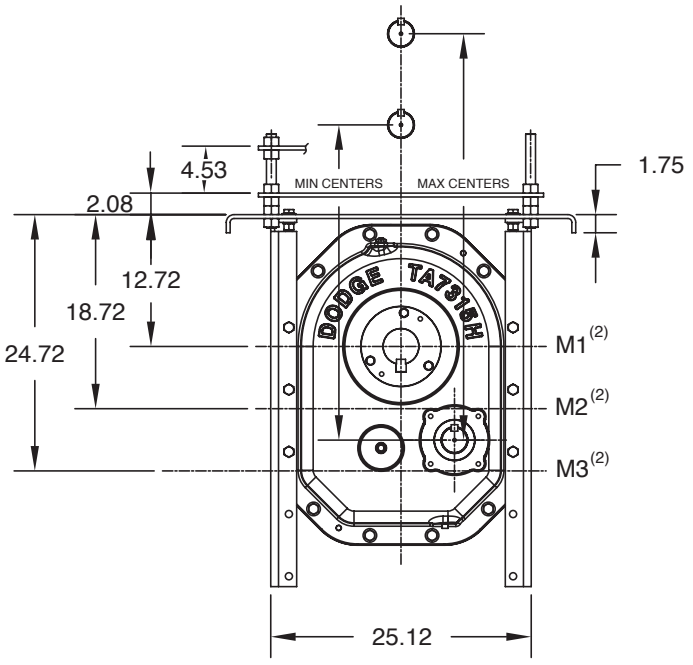
| Description | Part Number | Weight lbs. |
|---|---|---|
| TA7315SCA Adapter & Hardware Kit (2) | **907070** | 50.1 |
| TA7315SCP Adjustable Packing Kit (3) | **907071** | 2.5 |
| TA7315SCS x 2-7/16 Drive Shaft | **907074** | 77.0 |
| TA7315SCS x 3 Drive Shaft | **907075** | 83.4 |
| TA7315SCS x 3-7/16Drive Shaft | **907076** | 97.3 |
| TA7315SCS x 2-7/16 Stainless Steel Drive Shaft | **907082** | 77.0 |
| TA7315SCS x 3 Stainless Steel Drive Shaft | **907083** | 83.4 |
| TA7315SCS x 3-7/16 Stainless Steel Drive Shaft | **907084** | 97.3 |

(1) See page G1-91 for Belt Guard for Screw Conveyor Drive applications.
(2) SCA Adapter & Hardware Kit includes adapter, mounting wedge, keeper plate, key, seals and hardware.
(3) SCP Adjustable Packing Kit consists of flange, mounting hardware and braided packing seals.
(4) SCS Drive Shaft is a shaft only. Mounting hardware is stocked with the adapter & hardware kit.
(5) A complete TA II Screw Conveyor Drive includes a TA II Reducer, SCA Adapter & Hardware Kit, and SCS Drive Shaft. The SCP Adjustable Packing kit is an optional accessory

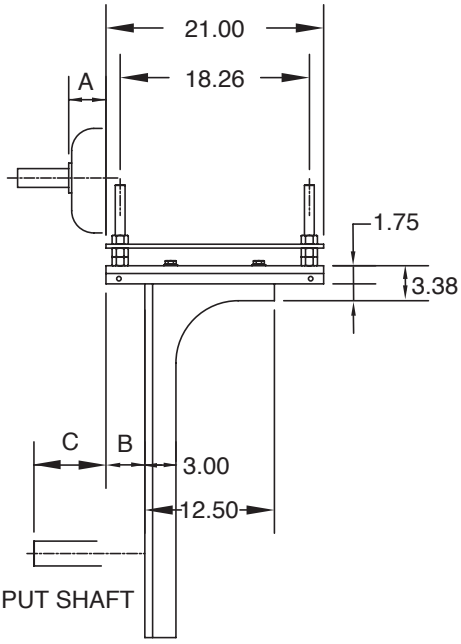
# SELECTION/DIMENSIONS

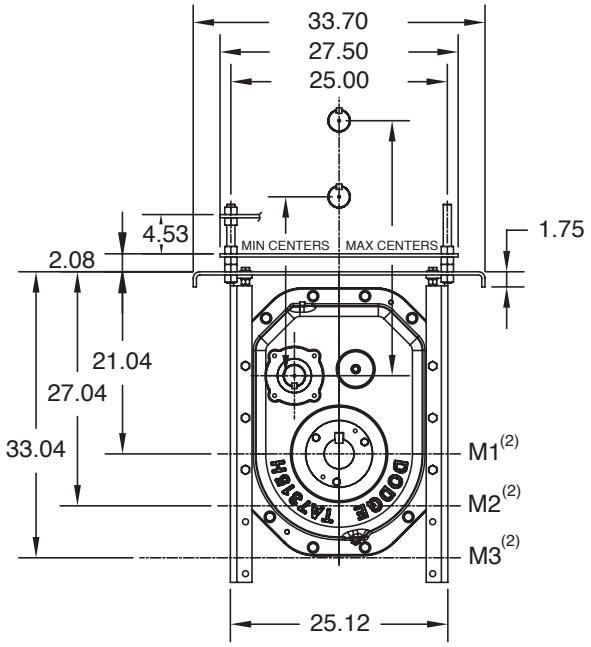
## TORQUE-ARM II Shaft Mount Speed Reducers

### Motor Mount Dimensions - TA7315H, Position B & D




POSITION B




POSITION D

# TORQUE-ARM II Shaft Mount Speed Reducers

## Motor Mount Dimensions - TA7315H, Position B & D (1)

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 213T & 215T | | | 254T & 256T | | | 284T & 286T | | |
| | | | | | | A | Centers | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max | | Min | Max |
| Position B | 1.59 | 5.91 | 4.78 | 9.10 | M1 | 1.55 | 30.0 | 34.0 | 1.56 | 31.0 | 35.0 | 1.16 | 31.8 | 35.7 |
| | | | | | M2 | | 36.0 | 40.0 | | 37.0 | 40.9 | | 37.7 | 41.7 |
| | | | | | M3 | | 41.9 | 45.9 | | 42.9 | 46.9 | | 43.6 | 47.6 |
| Position D | 1.59 | 5.91 | 4.78 | 9.10 | M1 | 1.55 | 20.5 | 24.4 | 1.56 | 21.5 | 25.4 | 1.16 | 22.2 | 26.1 |
| | | | | | M2 | | 26.4 | 30.3 | | 27.4 | 31.3 | | 28.1 | 32.0 |
| | | | | | M3 | | 32.3 | 36.3 | | 33.3 | 37.2 | | 34.0 | 38.0 |

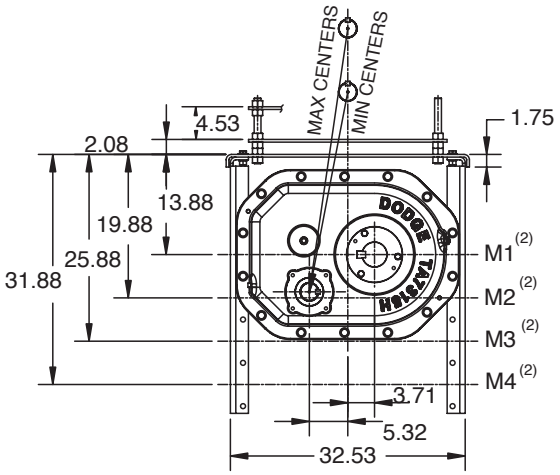
| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 324T & 326T | | | 364T & 365T | | | 404T & 405T | | |
| | | | | | | A | Centers | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max | | Min | Max |
| Position B | 1.59 | 5.91 | 4.78 | 9.10 | M1 | 0.38 | 32.8 | 36.7 | 1.01 | 33.7 | 37.7 | 0.75 | 34.7 | 38.7 |
| | | | | | M2 | | 38.7 | 42.7 | | 39.7 | 43.7 | | 40.7 | 44.7 |
| | | | | | M3 | | 44.6 | 48.6 | | 45.6 | 49.6 | | 46.6 | 50.6 |
| Position D | 1.59 | 5.91 | 4.78 | 9.10 | M1 | 0.38 | 23.2 | 27.1 | 1.01 | 24.2 | 28.1 | 0.75 | 25.1 | 29.1 |
| | | | | | M2 | | 29.1 | 33.0 | | 30.1 | 34.0 | | 31.0 | 35.0 |
| | | | | | M3 | | 35.0 | 39.0 | | 36.0 | 40.0 | | 37.0 | 41.0 |

**Notes:**
Minimum centers contains 0.5” to allow for belt assembly
(1) Motor mount will fit NEMA and IEC frame motors; hardware are inch dimensions
(2) M1, M2, M3 go through output shaft centerline

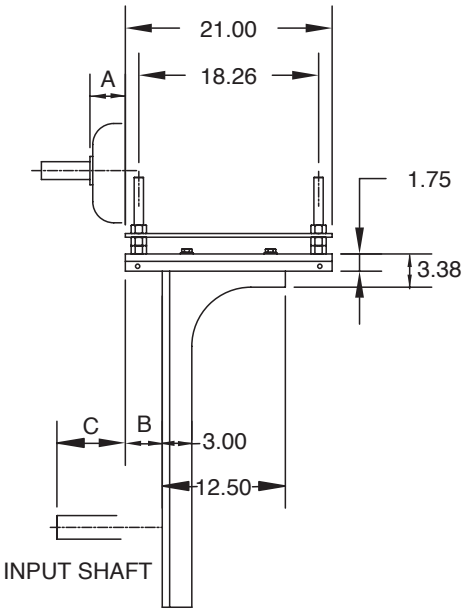
# SELECTION/DIMENSIONS

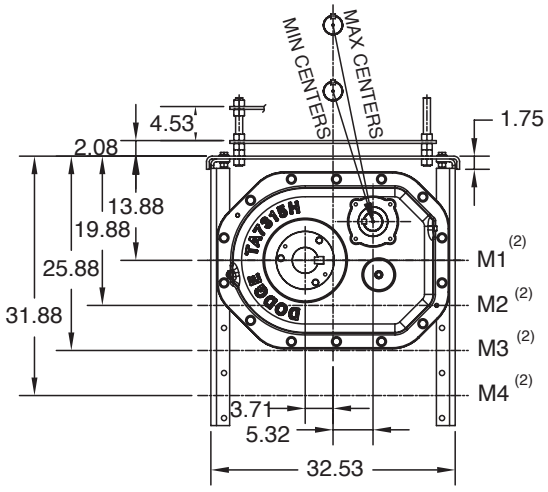
## TORQUE-ARM II Shaft Mount Speed Reducers

### Motor Mount Dimensions - TA7315H, Position A & C




POSITION A




POSITION C

# TORQUE-ARM II Shaft Mount Speed Reducers

## Motor Mount Dimensions - TA7315H, Position A & C (1) (3)

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 213T & 215T | | | 254T & 256T | | | 284T & 286T | | |
| | | | | | | A | Centers | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max | | Min | Max |
| Position A | 1.59 | 5.91 | 6.04 | 10.36 | M1 | 1.55 | 27.4 | 31.4 | 1.56 | 28.4 | 32.4 | 1.16 | 29.1 | 33.1 |
| | | | | | M2 | | 33.3 | 37.3 | | 34.3 | 38.3 | | 35.0 | 39.0 |
| | | | | | M3 | | 39.2 | 43.2 | | 40.2 | 44.2 | | 41.0 | 45.0 |
| | | | | | M4 | | 45.2 | 49.2 | | 46.2 | 50.2 | | 46.9 | 50.9 |
| Position C | 1.59 | 5.91 | 6.04 | 10.36 | M1 | 1.55 | 17.4 | 21.3 | 1.56 | 18.4 | 22.2 | 1.16 | 19.1 | 23.0 |
| | | | | | M2 | | 23.2 | 27.1 | | 24.2 | 28.1 | | 24.9 | 28.8 |
| | | | | | M3 | | 29.1 | 33.0 | | 30.0 | 34.0 | | 30.8 | 34.7 |
| | | | | | M4 | | 35.0 | 39.0 | | 36.0 | 39.9 | | 36.7 | 40.7 |

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 324T & 326T | | | 364T & 365T | | | 404T & 405T | | |
| | | | | | | A | Centers | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max | | Min | Max |
| Position A | 1.59 | 5.91 | 6.04 | 10.36 | M1 | 0.38 | 30.1 | 34.1 | 1.01 | 31.1 | 35.1 | 0.75 | 32.1 | 36.1 |
| | | | | | M2 | | 36.0 | 40.0 | | 37.0 | 41.0 | | 38.0 | 42.0 |
| | | | | | M3 | | 42.0 | 46.0 | | 43.0 | 47.0 | | 44.0 | 48.0 |
| | | | | | M4 | | 47.9 | 51.9 | | 48.9 | 52.9 | | 49.9 | 53.9 |
| Position C | 1.59 | 5.91 | 6.04 | 10.36 | M1 | 0.38 | 20.0 | 23.9 | 1.01 | 21.0 | 24.9 | 0.75 | 22.0 | 25.9 |
| | | | | | M2 | | 25.9 | 29.8 | | 26.9 | 30.8 | | 27.8 | 31.8 |
| | | | | | M3 | | 31.8 | 35.7 | | 32.8 | 36.7 | | 33.7 | 37.7 |
| | | | | | M4 | | 37.7 | 41.7 | | 38.7 | 42.7 | | 39.7 | 43.7 |

**Notes:**

Minimum centers contains 0.5" to allow for belt assembly

(1) Motor mount will fit NEMA and IEC frame motors; hardware are inch dimensions

(2) M1, M2, M3, M4 go through output shaft centerline

(3) See Table A, below, for minimum "M" mounting position required for specific screw diameter and reducer size

### Table A - Screw Conveyor Motor Mount Minimum "M" Mounting Positions (1)

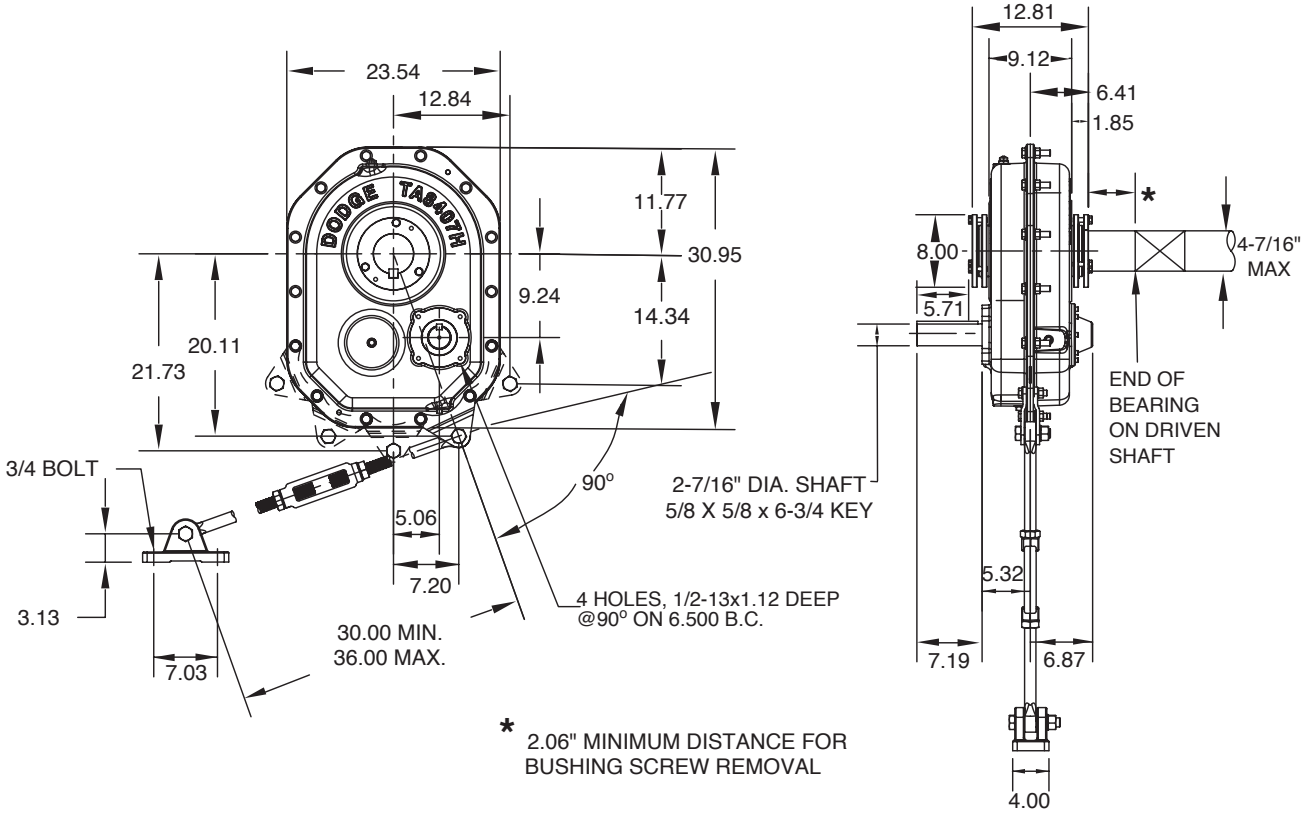
| Nominal Screw Dia | Trough Height Dim | Minimum Mounting Position | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | TA0107L | TA1107H | TA2115H | TA3203H | TA4207H | TA5215H | TA6307H | TA7315H |
| 6 | 7.00 | M2 | M3 | M2 | M2 | M2 | M1 | M1 | M1 |
| 9 | 9.00 | M3 | M4 | M3 | M3 | M2 | M2 | M2 | M1 |
| 12 | 10.00 | M4 | M4 | M3 | M3 | M2 | M2 | M2 | M1 |
| 14 | 11.00 | M4 | M4 | M4 | M3 | M3 | M2 | M2 | M2 |
| 16 | 11.50 | M4 | *** | M4 | M4 | M3 | M2 | M2 | M2 |
| 18 | 12.13 | *** | *** | M4 | M4 | M3 | M3 | M2 | M2 |
| 20 | 13.50 | *** | *** | M4 | M4 | M3 | M3 | M3 | M2 |
| 24 | 16.50 | *** | *** | *** | *** | M4 | M3 | M3 | M3 |

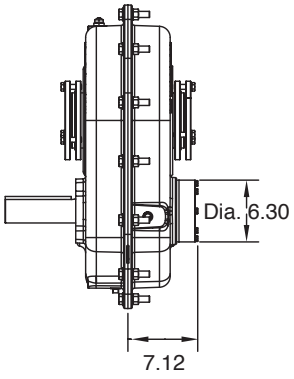
(1) For U Or Flared Trough Ends Per CEMA 300-014

# SELECTION/DIMENSIONS

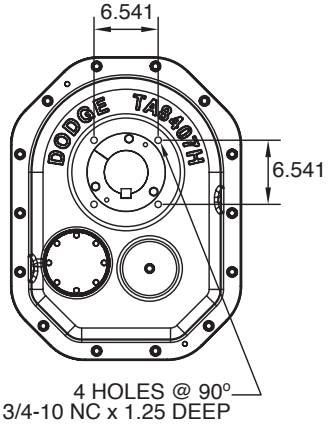
## TORQUE-ARM II Shaft Mount Speed Reducers

**Taper Bushed Reducers - TA8407H, Double Reduction**




**REDUCER WITH BACKSTOP**




**FLANGE MOUNTING DIMENSIONS**

# TORQUE-ARM II Shaft Mount Speed Reducers

## Taper Bushed Reducers - TA8407H, Double Reduction

### TA8407H Taper Bushed Reducers (1)

| Reducer Size | Part Number | AGMA Code | Actual Ratio | Weight lbs. |
|---|---|---|---|---|
| TA8407H15 | **908002** | 407D15 | 15.12 | 511.0 |
| TA8407H25 | **908001** | 407D25 | 24.97 | 511.0 |
| TA8407H40 | **908000** | 407D40 | 39.67 | 507.0 |

(1) Reducers are supplied from stock ready for vertical mounting and for flange mounting. Rod assembly is not included with reducer. Order as a separate part number.

\+ Rod Assembly mounting locations are limited to positions shown in drawing.

### TA8407H Accessories

| Description | Part Number | Weight lbs. |
|---|---|---|
| TA7315/8407RA Rod Assembly (1) + | **907109** | 43.2 |
| TA8407BS Backstop Assembly (2) | **908102** | 15.0 |
| TA8407BS 40:1 Backstop Assembly (2) | **908103** | 15.7 |
| TA7315/8407MM Motor Mount Assembly (213-405T) (3) | **907090** | 183.3 |
| TA7315/8407BG Belt Guard - Pos. B (213-405T) | **907096** | 147.2 |
| TA7315/8407BG Belt Guard - Pos. C (213-405T) | **907097** | 152.7 |
| TA7315/8407BG Belt Guard - Pos. D (213-405T) | **907099** | 148.2 |
| TA7315/8407CF Cooling Fan Assembly ● | **907106** | 10.0 |
| TA8407SCA Adapter & Hardware Kit ◆ | **908070** | 55.0 |
| TA4-TA12 Vertical Breather Kit | **904112** | 3.0 |
| TA7315/8407H V-Ring Kit | **907249** | 0.4 |
| Filter Breather Kit | **430049** | 0.2 |
| TA8407H Lube Kit | **LUBEKITTA8407** | 53.2 |

(2) See page G1-128 for input shaft speed necessary for backstop sprag lift-off

(3) Motor Mount will fit NEMA and IEC frame motors; however hardware are inch dimensions

● See page G1-120 for cooling fan dimensions

◆ SCA Adapter & Hardware Kit is available for TA8407H reducers as a non-stock product. Consult DODGE about SCS Drive Shafts.

### TA8407H Tapered Bushing Kits (4) (5)

| Bushing Size Standard Shaft Bushing Kit | Part Number (6) | Weight lbs. | Shaft Keyseat Required (8) (9) | Bushing Size Short Shaft Bushing Kit (7) | Part Number | Weight lbs. | Shaft Keyseat Required (8) (9) |
|---|---|---|---|---|---|---|---|
| TA8407TB x 4-7/16 ▲ | **908020** | 26.0 | 1 x 1/2 x 12.82 | TA8407TBS x 4-7/16 | **908027** | 26.9 | 1 x 1/2 x 8.10 |
| TA8407TB x 4-3/16 | **908021** | 29.0 | 1 x 1/2 x 12.82 | TA8407TBS x 4-3/16 | **908028** | 31.3 | 1 x 1/2 x 8.10 |
| TA8407TB x 3-15/16 | **908022** | 32.1 | 1 x 1/2 x 12.82 | TA8407TBS x 3-15/16 | **908029** | 35.6 | 1 x 1/2 x 8.10 |
| TA8407TB x 3-7/16 | **908023** | 36.7 | 7/8 x 7/16 x 12.82 | TA8407TBS x 3-7/16 | **908030** | 42.4 | 7/8 x 7/16 x 8.10 |
| TA8407TB x 3-3/16 | **908024** | 38.4 | 3/4 x 3/8 x 12.82 | TA8407TBS x 3-3/16 | **908031** | 45.3 | 3/4 x 3/8 x 8.10 |
| TA8407TB x 3 | **908025** | 39.8 | 3/4 x 3/8 x 12.82 | TA8407TBS x 3 | **908032** | 47.5 | 3/4 x 3/8 x 8.10 |
| TA8407TB x 2-15/16 | **908026** | 40.4 | 3/4 x 3/8 x 12.82 | TA8407TBS x 2-15/16 | **908033** | 48.3 | 3/4 x 3/8 x 8.10 |

▲ AGMA maximum bore size

(4) Bushing kit required to mount TA II reducer to driven shaft

(5) Bushing kit is not required to mount TA II reducer on SCS Drive Shaft in a screw conveyor application

(6) Standard Shaft Bushing Kit includes two standard bushings with back-up plates and snap rings; hardware, and key

(7) Short Shaft Bushing Kit includes one standard bushing, one long bushing with insertable wedge; two back-up plates with snap rings; hardware and key. This is an optional bushing for after market, short shaft mounting.

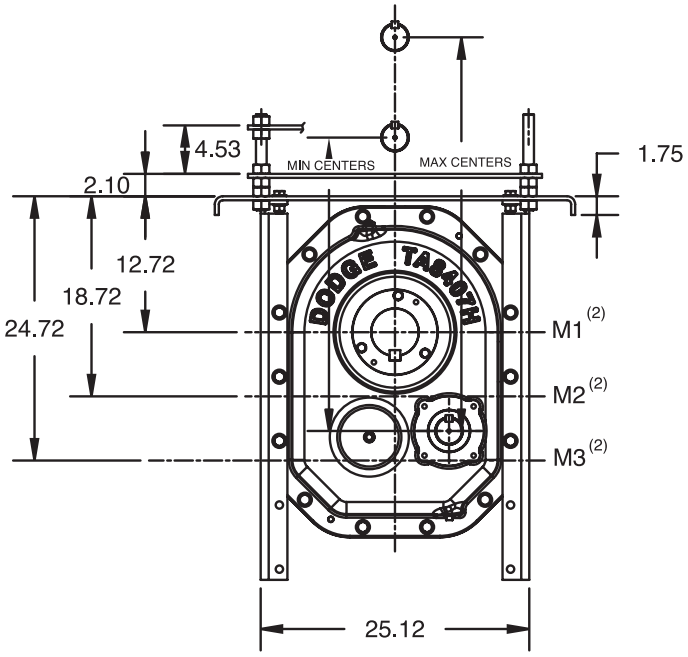
(8) Minimum keyseat and shaft length required to mount reducer with bushing kit

(9) Always check the driven shaft and key for strength

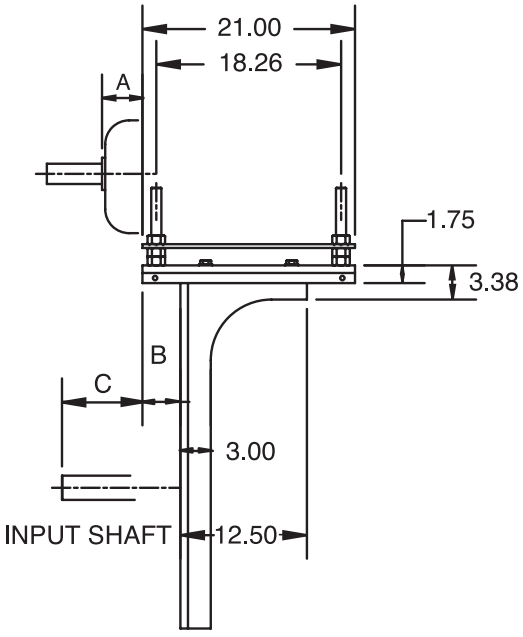
# SELECTION/DIMENSIONS

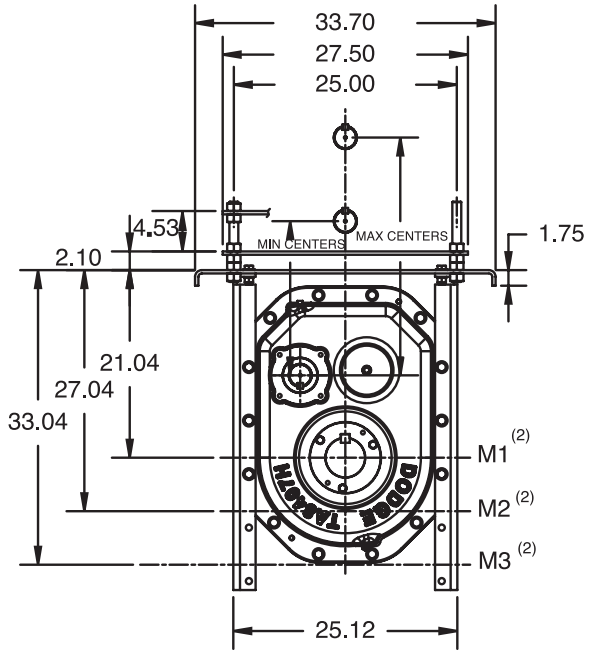
## TORQUE-ARM II Shaft Mount Speed Reducers

### Motor Mount Dimensions - TA8407H, Position B & D




POSITION B




POSITION D

# TORQUE-ARM II Shaft Mount Speed Reducers

## Motor Mount Dimensions - TA8407H, Position B & D (1)

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 213T & 215T | | | 254T & 256T | | | 284T & 286T | | |
| | | | | | | A | Centers | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max | | Min | Max |
| Position B | 1.59 | 5.91 | 5.78 | 10.10 | M1 | 1.55 | 30.2 | 34.2 | 1.56 | 31.2 | 35.2 | 1.16 | 32.0 | 35.9 |
| | | | | | M2 | | 36.2 | 40.1 | | 37.1 | 41.1 | | 37.9 | 41.9 |
| | | | | | M3 | | 42.1 | 46.1 | | 43.1 | 47.1 | | 43.8 | 47.8 |
| Position D | 1.59 | 5.91 | 5.78 | 10.10 | M1 | 1.55 | 20.3 | 24.2 | 1.56 | 21.3 | 25.2 | 1.16 | 22.0 | 25.9 |
| | | | | | M2 | | 26.1 | 30.1 | | 27.1 | 31.1 | | 27.9 | 31.8 |
| | | | | | M3 | | 32.1 | 36.0 | | 33.0 | 37.0 | | 33.8 | 37.8 |

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 324T & 326T | | | 364T & 365T | | | 404T & 405T | | |
| | | | | | | A | Centers | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max | | Min | Max |
| Position B | 1.59 | 5.91 | 5.78 | 10.10 | M1 | 0.38 | 32.9 | 36.9 | 1.01 | 33.9 | 37.9 | 0.75 | 34.9 | 38.9 |
| | | | | | M2 | | 38.9 | 42.9 | | 39.9 | 43.9 | | 40.9 | 44.9 |
| | | | | | M3 | | 44.8 | 48.8 | | 45.8 | 49.8 | | 46.8 | 50.8 |
| Position D | 1.59 | 5.91 | 5.78 | 10.10 | M1 | 0.38 | 23.0 | 26.9 | 1.01 | 23.9 | 27.9 | 0.75 | 24.9 | 28.9 |
| | | | | | M2 | | 28.8 | 32.8 | | 29.8 | 33.8 | | 30.8 | 34.8 |
| | | | | | M3 | | 34.8 | 38.8 | | 35.8 | 39.7 | | 36.7 | 40.7 |

**Note:**

Minimum centers contains 0.5” to allow for belt assembly

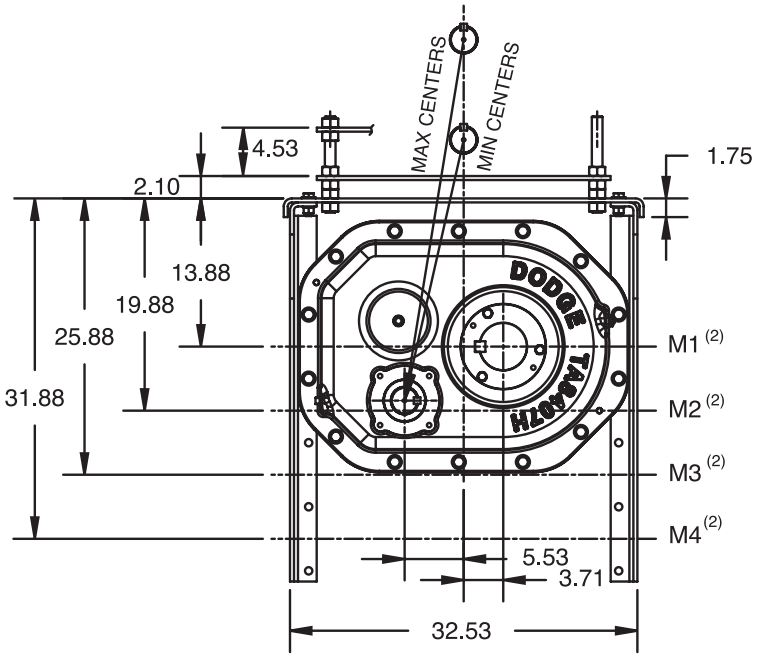
(1) Motor mount will fit NEMA and IEC frame motors; hardware are inch dimensions

(2) M1, M2, M3 go through output shaft centerline

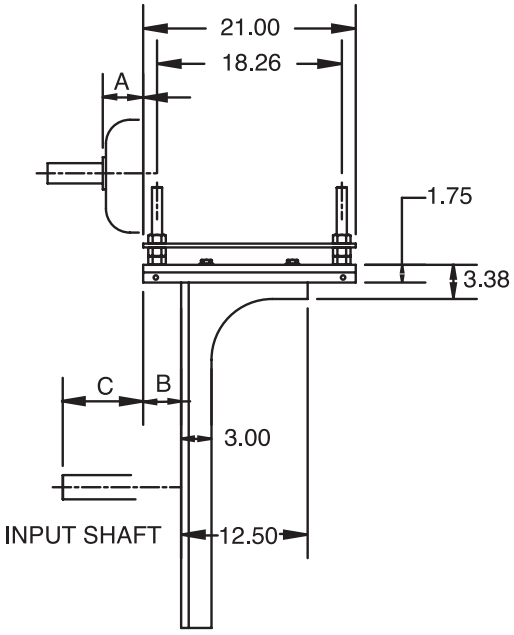
# SELECTION/DIMENSIONS

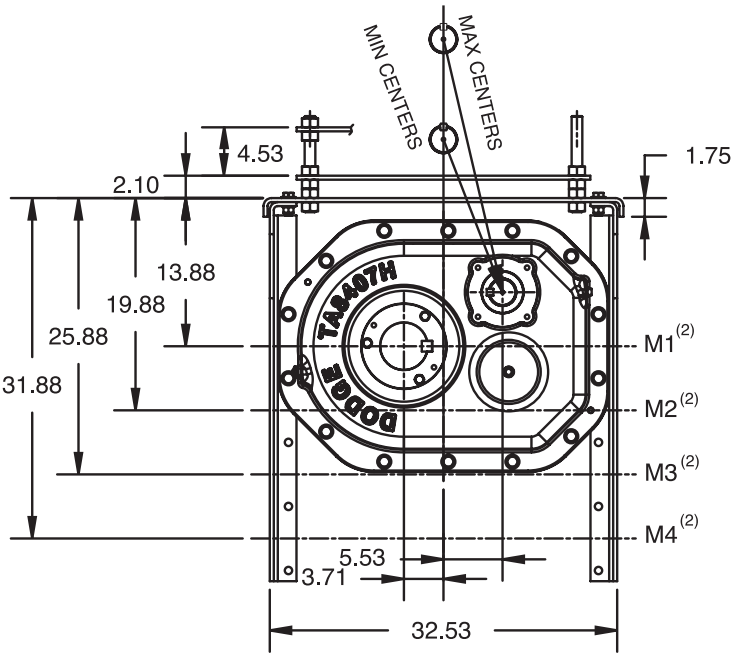
## TORQUE-ARM II Shaft Mount Speed Reducers

### Motor Mount Dimensions - TA8407H, Position A & C




POSITION A




POSITION C

# TORQUE-ARM II Shaft Mount Speed Reducers

## Motor Mount Dimensions - TA8407H, Position A & C (1)

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 213T & 215T | | | 254T & 256T | | | 284T & 286T | | |
| | | | | | | A | Centers | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max | | Min | Max |
| Position A | 1.59 | 5.91 | 7.04 | 11.36 | M1 | 1.55 | 27.4 | 31.3 | 1.56 | 28.3 | 32.3 | 1.16 | 29.1 | 33.0 |
| | | | | | M2 | | 33.2 | 37.2 | | 34.2 | 38.2 | | 35.0 | 39.0 |
| | | | | | M3 | | 39.2 | 43.2 | | 40.2 | 44.2 | | 40.9 | 44.9 |
| | | | | | M4 | | 45.1 | 49.1 | | 46.1 | 50.1 | | 46.9 | 50.9 |
| Position C | 1.59 | 5.91 | 7.04 | 11.36 | M1 | 1.55 | 17.6 | 21.4 | 1.56 | 18.5 | 22.4 | 1.16 | 19.2 | 23.1 |
| | | | | | M2 | | 23.3 | 27.3 | | 24.3 | 28.2 | | 25.0 | 29.0 |
| | | | | | M3 | | 29.2 | 33.2 | | 30.2 | 34.1 | | 30.9 | 34.9 |
| | | | | | M4 | | 35.1 | 39.1 | | 36.1 | 40.1 | | 36.8 | 40.8 |

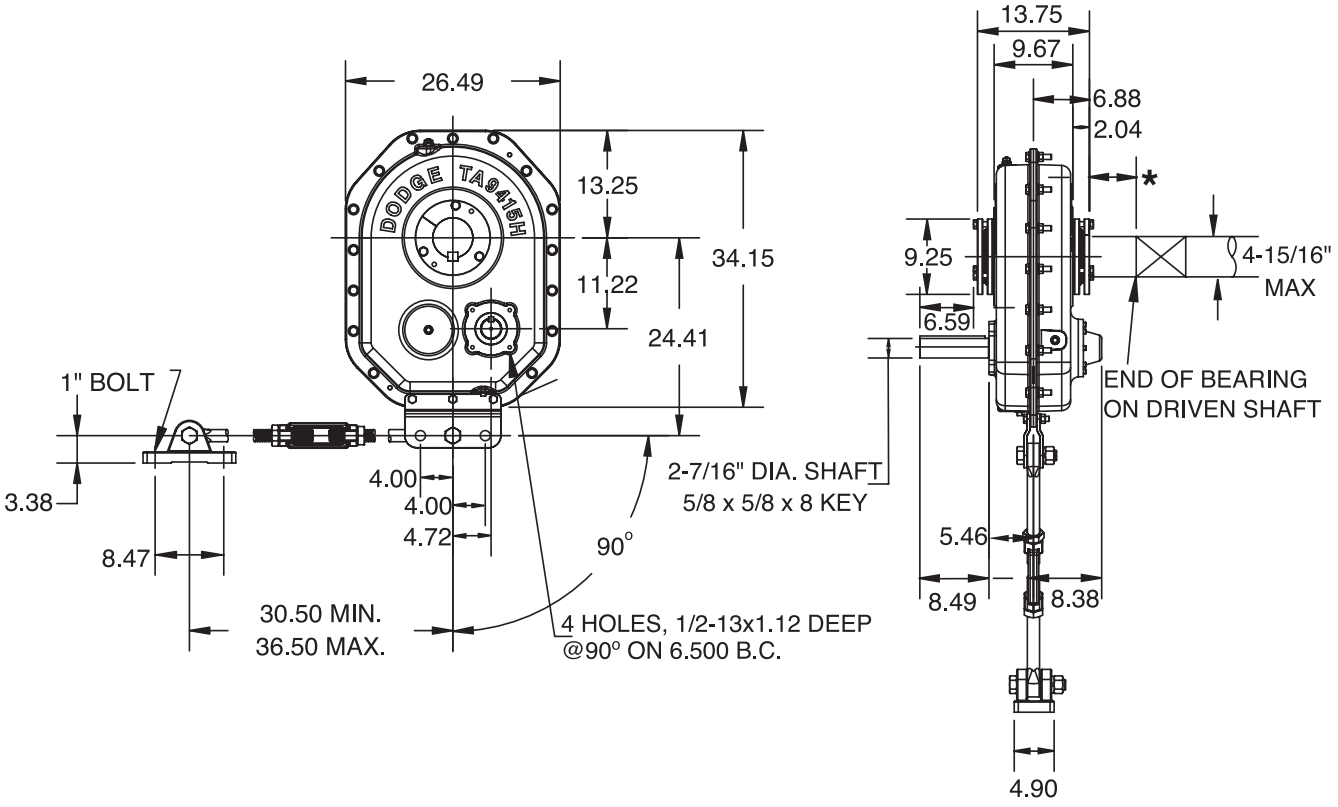
| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 324T & 326T | | | 364T & 365T | | | 404T & 405T | | |
| | | | | | | A | Centers | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max | | Min | Max |
| Position A | 1.59 | 5.91 | 7.04 | 11.36 | M1 | 0.38 | 30.1 | 34.0 | 1.01 | 31.0 | 35.0 | 0.75 | 32.0 | 36.0 |
| | | | | | M2 | | 36.0 | 39.9 | | 37.0 | 40.9 | | 37.9 | 41.9 |
| | | | | | M3 | | 41.9 | 45.9 | | 42.9 | 46.9 | | 43.9 | 47.9 |
| | | | | | M4 | | 47.9 | 51.9 | | 48.8 | 52.8 | | 49.8 | 53.8 |
| Position C | 1.59 | 5.91 | 7.04 | 11.36 | M1 | 0.38 | 20.2 | 24.1 | 1.01 | 21.2 | 25.1 | 0.75 | 22.1 | 26.0 |
| | | | | | M2 | | 26.0 | 30.0 | | 27.0 | 30.9 | | 28.0 | 31.9 |
| | | | | | M3 | | 31.9 | 35.9 | | 32.9 | 36.9 | | 33.9 | 37.8 |
| | | | | | M4 | | 37.8 | 41.8 | | 38.8 | 42.8 | | 39.8 | 43.8 |

**Note:**
Minimum centers contains 0.5” to allow for belt assembly
(1) Motor mount will fit NEMA and IEC frame motors; hardware are inch dimensions
(2) M1, M2, M3 go through output shaft centerline

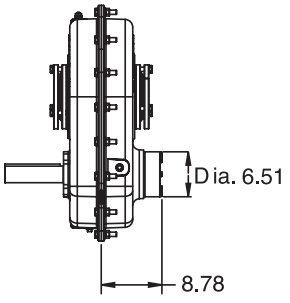
# SELECTION/DIMENSIONS

## TORQUE-ARM II Shaft Mount Speed Reducers

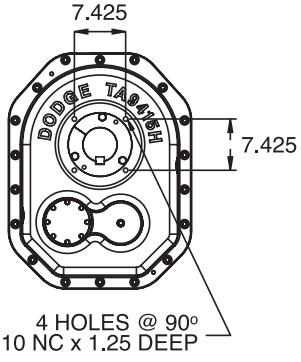
**Taper Bushed Reducers - TA9415H, Double Reduction**




* 2.39" MINIMUM DISTANCE FOR BUSHING SCREW REMOVAL




**REDUCER WITH BACKSTOP**




**FLANGE MOUNTING DIMENSIONS**

# TORQUE-ARM II Shaft Mount Speed Reducers

## Taper Bushed Reducers - TA9415H, Double Reduction

### TA9415H Taper Bushed Reducers (1)

| Reducer Size | Part Number | AGMA Code | Actual Ratio | Weight lbs. |
|---|---|---|---|---|
| TA9415H15 | **909002** | 415D15 | 15.10 | 735.0 |
| TA9415H25 | **909001** | 415D25 | 25.44 | 735.0 |
| TA9415H40 | **909000** | 415D40 | 39.41 | 732.0 |

(1) Reducers are supplied from stock ready for vertical mounting and for flange mounting. Rod assembly is not included with reducer. Order as a separate part number.

\+ Rod Assembly mounting locations are limited to positions shown in drawing.

### TA9415H Accessories

| Description | Part Number | Weight lbs. |
|---|---|---|
| TA9415RA Rod Assembly (1) + | **909109** | 76.8 |
| TA9415BS Backstop Assembly (2) | **909102** | 20.0 |
| TA7315/9415BS 40:1 Backstop Assembly (2) | **907103** | 21.0 |
| TA9415MM Motor Mount Assembly (254-445T) (3) | **909090** | 273.7 |
| TA9415BG Belt Guard - Pos. B (254-445T) | **909096** | 158.1 |
| TA9415BG Belt Guard - Pos. D (254-445T) | **909099** | 159.1 |
| TA9415CF Cooling Fan Assembly ● | **909106** | 12.4 |
| TA4-TA12 Vertical Breather Kit | **904112** | 3.0 |
| TA9415H V-Ring Kit | **909249** | 0.5 |
| Filter Breather Kit | **430049** | 0.2 |
| TA9415H Lube Kit | **LUBEKITTA9415** | 79.8 |

(2) See page G1-128 for input shaft speed necessary for backstop sprag lift-off

(3) Motor Mount will fit NEMA and IEC frame motors; however hardware are inch dimensions

● See page G1-120 for cooling fan dimensions

### TA9415H Tapered Bushing Kits (4)

| Bushing Size Standard Shaft Bushing Kit | Part Number (5) | Weight lbs. | Shaft Keyseat Required (7) (8) | Bushing Size Short Shaft Bushing Kit (6) | Part Number | Weight lbs. | Shaft Keyseat Required (7) (8) |
|---|---|---|---|---|---|---|---|
| TA9415TB x 4-15/16 ▲ | **909020** | 38.4 | 1-1/4 x 5/8 x 13.74 | TA9415TBS x 4-15/16 | **909025** | 40.2 | 1-1/4 x 5/8 x 8.56 |
| TA9415TB x 4-7/16 | **909021** | 43.4 | 1 x 1/2 x 13.74 | TA9415TBS x 4-7/16 | **909026** | 48.8 | 1 x 1/2 x 8.56 |
| TA9415TB x 4-3/16 | **909022** | 46.4 | 1 x 1/2 x 13.74 | TA9415TBS x 4-3/16 | **909027** | 53.4 | 1 x 1/2 x 8.56 |
| TA9415TB x 3-15/16 | **909023** | 49.2 | 1 x 1/2 x 13.74 | TA9415TBS x 3-15/16 | **909028** | 57.7 | 1 x 1/2 x 8.56 |
| TA9415TB x 3-7/16 | **909024** | 53.1 | 7/8 x 7/16 x 13.74 | TA9415TBS x 3-7/16 | **909029** | 64.4 | 7/8 x 7/16 x 8.56 |

▲ AGMA maximum bore size

(4) Bushing kit required to mount TA II reducer to driven shaft

(5) Standard Shaft Bushing Kit includes two standard bushings with back-up plates and snap rings; hardware, and key

(6) Short Shaft Bushing Kit includes one standard bushing, one long bushing with insertable wedge; two back-up plates with snap rings; hardware and key. This is an optional bushing for after market, short shaft mounting.

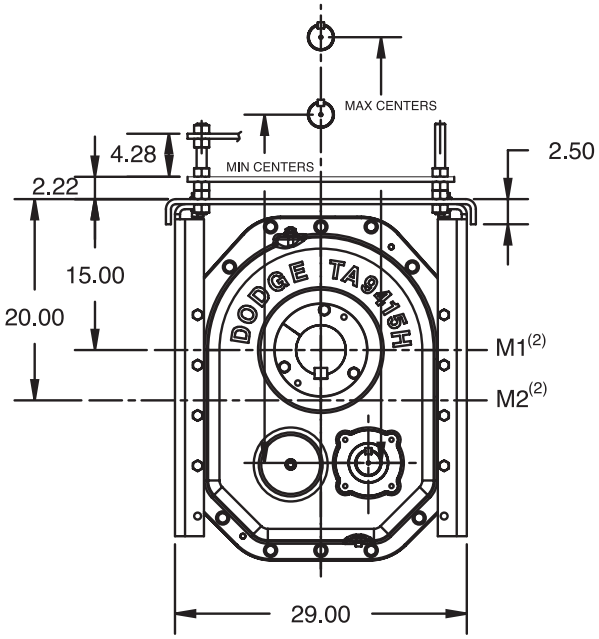
(7) Minimum keyseat and shaft length required to mount reducer with bushing kit

(8) Always check the driven shaft and key for strength

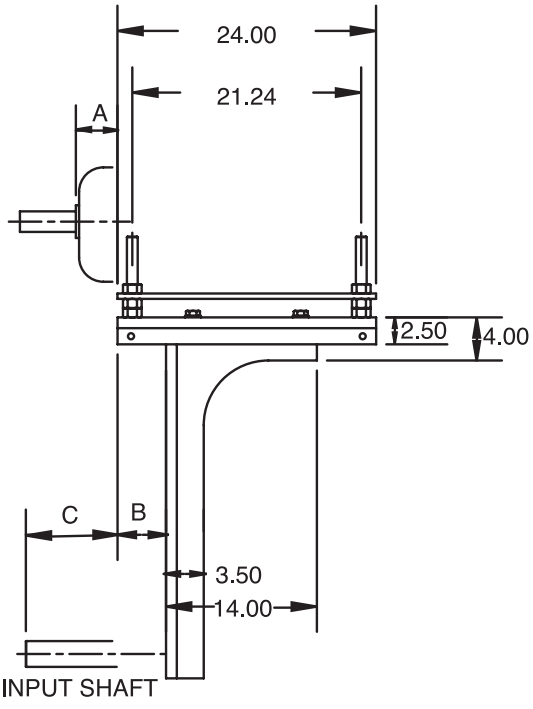
# SELECTION/DIMENSIONS

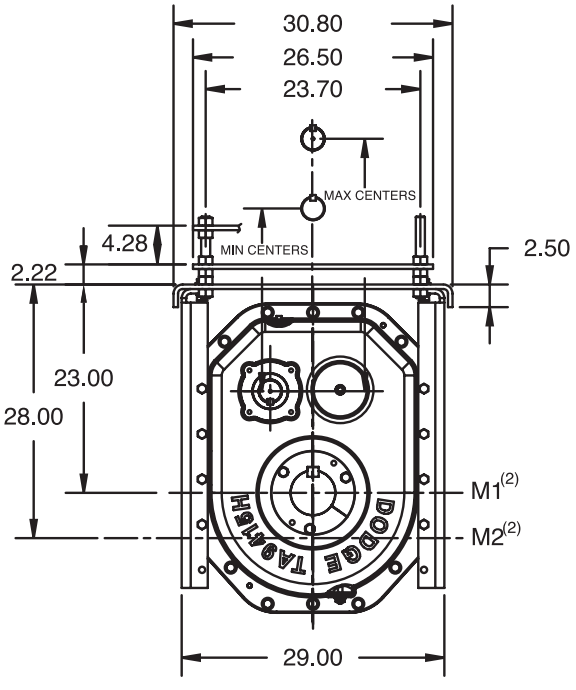
## TORQUE-ARM II Shaft Mount Speed Reducers

### Motor Mount Dimensions - TA9415H, Position B & D




POSITION B




POSITION D

# TORQUE-ARM II Shaft Mount Speed Reducers

## Motor Mount Dimensions - TA9415H, Position B & D (1)

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 254T & 256T | | | 284T & 286T | | | 324T & 326T | | |
| | | | | | | A | Centers | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max | | Min | Max |
| Position B | 2.18 | 6.82 | 6.26 | 10.90 | M1 | 1.56 | 35.5 | 39.2 | 1.16 | 36.2 | 40.0 | 0.38 | 37.2 | 41.0 |
| | | | | | M2 | | 40.5 | 44.2 | | 41.2 | 45.0 | | 42.2 | 46.0 |
| Position D | 2.18 | 6.82 | 6.26 | 10.90 | M1 | 1.56 | 21.3 | 25.0 | 1.16 | 22.0 | 25.7 | 0.38 | 23.0 | 26.7 |
| | | | | | M2 | | 26.2 | 29.9 | | 26.9 | 30.6 | | 27.9 | 31.6 |

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 364T & 365T | | | 404T & 405T | | | 444T & 445T | | |
| | | | | | | A | Centers | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max | | Min | Max |
| Position B | 2.18 | 6.82 | 6.26 | 10.90 | M1 | 1.01 | 38.2 | 42.0 | 0.75 | 39.2 | 43.0 | 1.62 | 40.2 | 44.0 |
| | | | | | M2 | | 43.2 | 47.0 | | 44.2 | 47.9 | | 45.2 | 48.9 |
| Position D | 2.18 | 6.82 | 6.26 | 10.90 | M1 | 1.01 | 24.0 | 27.7 | 0.75 | 25.0 | 28.7 | 1.62 | 25.9 | 29.7 |
| | | | | | M2 | | 28.9 | 32.6 | | 29.9 | 33.6 | | 30.9 | 34.6 |

**Note:**

Minimum centers contains 0.5” to allow for belt assembly

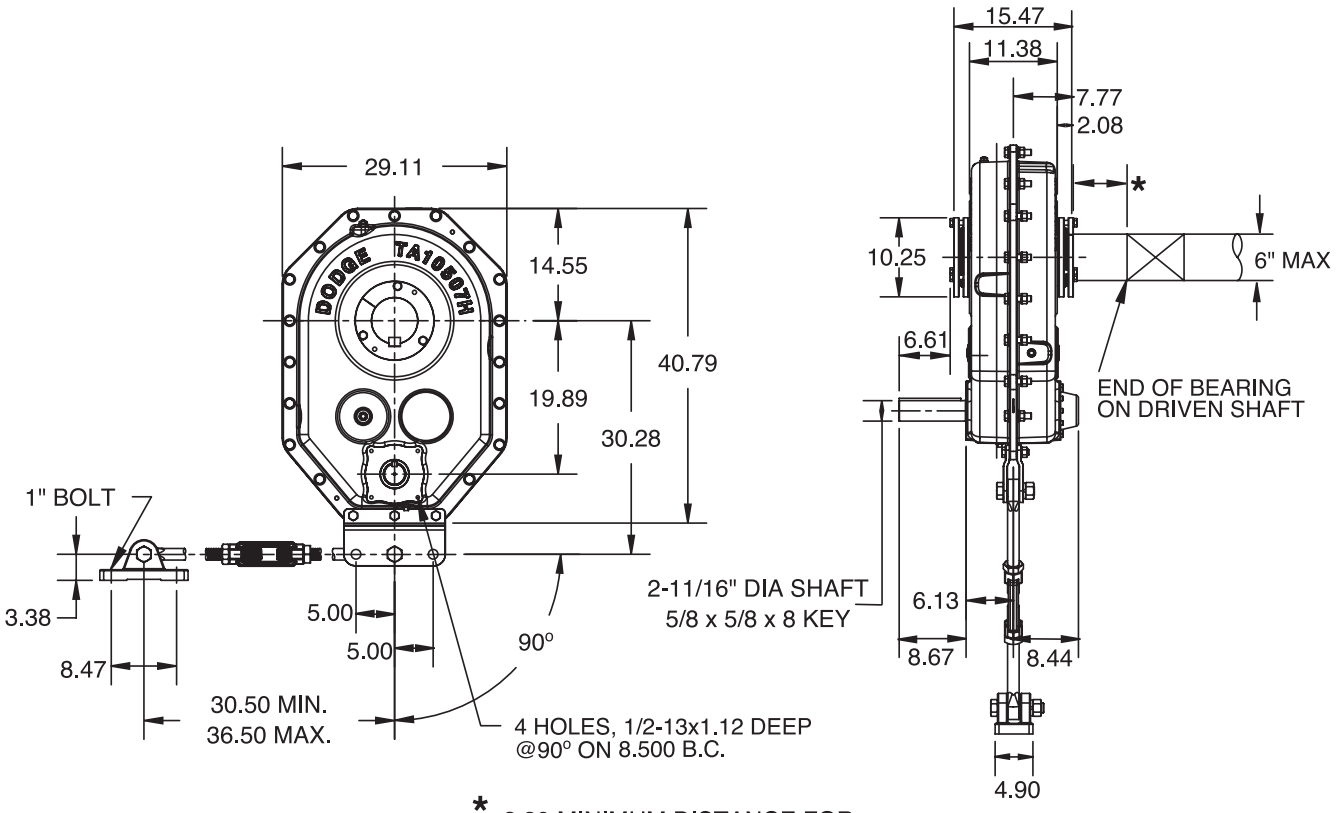
(1) Motor mount will fit NEMA and IEC frame motors; hardware are inch dimensions

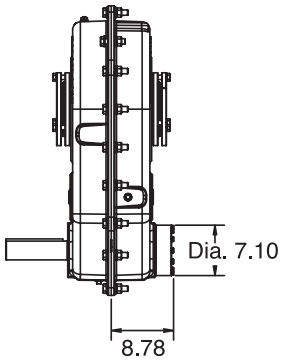
(2) M1, M2, M3 go through output shaft centerline

# SELECTION/DIMENSIONS

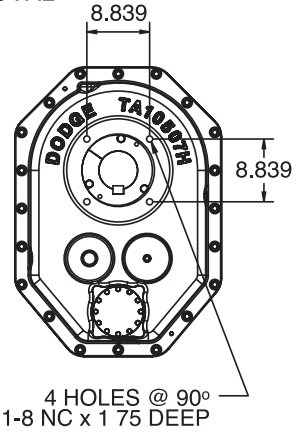
## TORQUE-ARM II Shaft Mount Speed Reducers

**Taper Bushed Reducers - TA10507H, Double Reduction**




REDUCER WITH BACKSTOP




FLANGE MOUNTING DIMENSIONS

# TORQUE-ARM II Shaft Mount Speed Reducers

## Taper Bushed Reducers - TA10507H, Double Reduction

### TA10507H Taper Bushed Reducers (1)

| Reducer Size | Part Number | AGMA Code | Actual Ratio | Weight lbs. |
|---|---|---|---|---|
| TA10507H15 | **910002** | 507D15 | 15.09 | 1022.0 |
| TA10507H25 | **910001** | 507D25 | 25.18 | 1022.0 |
| TA10507H40 | **910000** | 507D40 | 39.68 | 1018.0 |

(1) Reducers are supplied from stock ready for vertical mounting and for flange mounting. Rod assembly is not included with reducer. Order as a separate part number.

\+ Rod Assembly mounting locations are limited to positions shown in drawing.

### TA10507H Accessories

| Description | Part Number | Weight lbs. |
|---|---|---|
| TA10507RA Rod Assembly (1) + | **910109** | 87.0 |
| TA10507BS Backstop Assembly (2) | **910102** | 23.5 |
| TA10507BS 40:1 Backstop Assembly (2) | **910103** | 25.0 |
| TA10507MM Motor Mount Assembly (254-445T) (3) | **910090** | 286.7 |
| TA10507BG Belt Guard - Pos. B (254-445T) | **910096** | 158.1 |
| TA10507BG Belt Guard - Pos. D (254-445T) | **910099** | 175.0 |
| TA10507CF Cooling Fan Assembly ● | **910106** | 12.4 |
| TA4-TA12 Vertical Breather Kit | **904112** | 3.0 |
| TA10507H V-Ring Kit | **910249** | 0.8 |
| Filter Breather Kit | **430049** | 0.2 |
| TA10507H Lube Kit | **LUBEKITTA10507** | 121.5 |

(2) See page G1-128 for input shaft speed necessary for backstop sprag lift-off

(3) Motor Mount will fit NEMA and IEC frame motors; however hardware are inch dimensions

● See page G1-120 for cooling fan dimensions

### TA10507H Tapered Bushing Kits (4)

| Bushing Size Standard Shaft Bushing Kit | Part Number (5) | Weight lbs. | Shaft Keyseat Required (7) (8) | Bushing Size Short Shaft Bushing Kit (6) | Part Number | Weight lbs. | Shaft Keyseat Required (7) (8) |
|---|---|---|---|---|---|---|---|
| TA10507TB x 6 | **910020** | 40.8 | 1-1/2 x 3/4 x 15.46 | --- | --- | --- | --- |
| TA10507TB x 5-15/16 | **910021** | 43.2 | 1-1/2 x 3/4 x 15.46 | --- | --- | --- | --- |
| TA10507TB x 5-7/16 ▲ | **910022** | 50.0 | 1-1/4 x 5/8 x 15.46 | TA10507TBS x 5-7/16 | **910027** | 47.2 | 1-1/4 x 5/8 x 9.67 |
| TA10507TB x 4-15/16 | **910023** | 57.8 | 1-1/4 x 5/8 x 15.46 | TA10507TBS x 4-15/16 | **910028** | 66.9 | 1-1/4 x 5/8 x 9.67 |
| TA10507TB x 4-7/16 | **910024** | 52.8 | 1 x 1/2 x 15.46 | TA10507TBS x 4-7/16 | **910029** | 75.7 | 1 x 1/2 x 9.67 |
| TA10507TB x 4-3/16 | **910025** | 65.6 | 1 x 1/2 x 15.46 | TA10507TBS x 4-3/16 | **910030** | 80.5 | 1 x 1/2 x 9.67 |
| TA10507TB x 3-15/16 | **910026** | 68.4 | 1 x 1/2 x 15.46 | TA10507TBS x 3-15/16 | **910031** | 85.2 | 1 x 1/2 x 9.67 |

▲ AGMA maximum bore size

(4) Bushing kit required to mount TA II reducer to driven shaft

(5) Standard Shaft Bushing Kit includes two standard bushings with back-up plates and snap rings; hardware, and key

(6) Short Shaft Bushing Kit includes one standard bushing, one long bushing with insertable wedge; two back-up plates with snap rings; hardware and key. This is an optional bushing for after market, short shaft mounting.

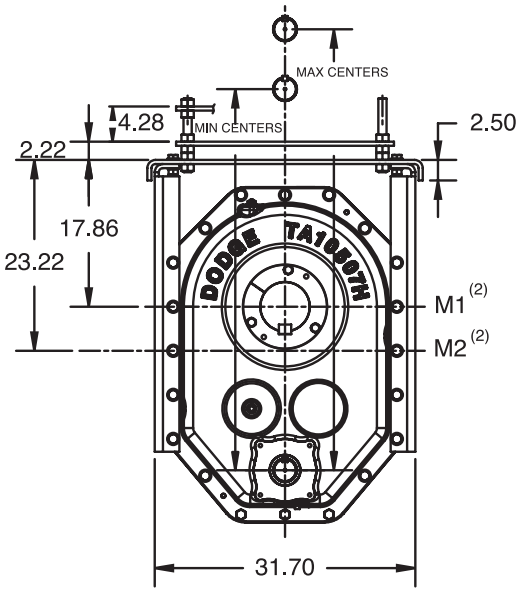
(7) Minimum keyseat and shaft length required to mount reducer with bushing kit

(8) Always check the driven shaft and key for strength

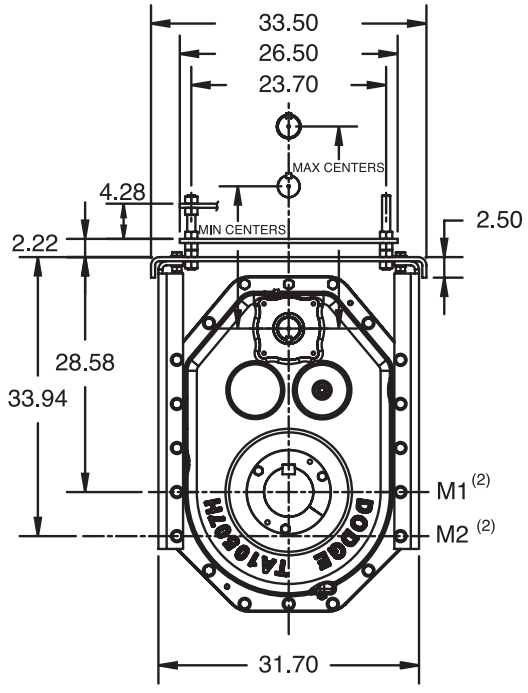
# SELECTION/DIMENSIONS

## TORQUE-ARM II Shaft Mount Speed Reducers

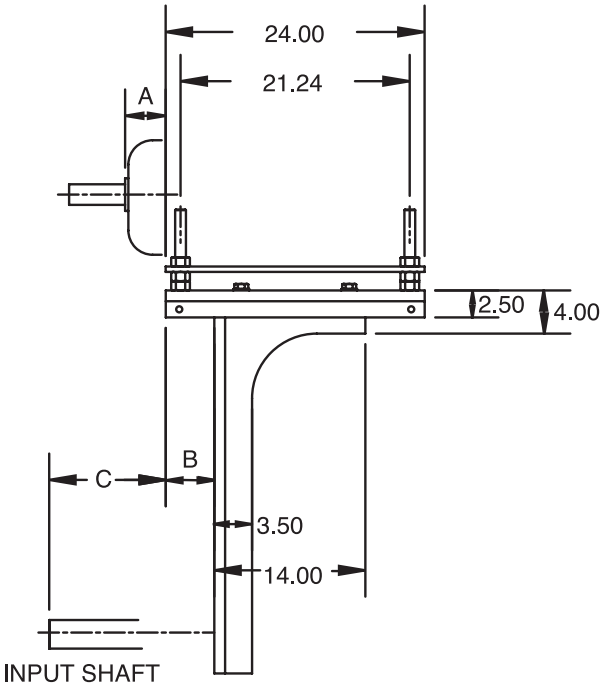
### Motor Mount Dimensions - TA10507H, Position B & D




POSITION B




POSITION D



# TORQUE-ARM II Shaft Mount Speed Reducers

## Motor Mount Dimensions - TA10507H, Position B & D (1)

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 254T & 256T | | | 284T & 286T | | | 324T & 326T | | |
| | | | | | | A | Centers | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max | | Min | Max |
| Position B | 2.18 | 6.82 | 6.98 | 11.62 | M1 | 1.56 | 46.7 | 50.5 | 1.16 | 47.5 | 51.2 | 0.38 | 48.5 | 52.2 |
| | | | | | M2 | | 52.1 | 55.9 | | 52.8 | 56.6 | | 53.8 | 57.6 |
| Position D | 2.18 | 6.82 | 6.98 | 11.62 | M1 | 1.56 | 17.7 | 21.4 | 1.16 | 18.4 | 22.2 | 0.38 | 19.4 | 23.2 |
| | | | | | M2 | | 23.0 | 26.8 | | 23.8 | 27.5 | | 24.8 | 28.5 |

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 364T & 365T | | | 404T & 405T | | | 444T & 445T | | |
| | | | | | | A | Centers | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max | | Min | Max |
| Position B | 2.18 | 6.82 | 6.98 | 11.62 | M1 | 1.01 | 49.5 | 53.2 | 0.75 | 50.5 | 54.2 | 1.62 | 51.5 | 55.2 |
| | | | | | M2 | | 54.8 | 58.6 | | 55.8 | 59.6 | | 56.8 | 60.6 |
| Position D | 2.18 | 6.82 | 6.98 | 11.62 | M1 | 1.01 | 20.4 | 24.2 | 0.75 | 21.4 | 25.2 | 1.62 | 22.4 | 26.2 |
| | | | | | M2 | | 25.8 | 29.5 | | 26.8 | 30.5 | | 27.8 | 31.5 |

**Note:**

Minimum centers contains 0.5” to allow for belt assembly

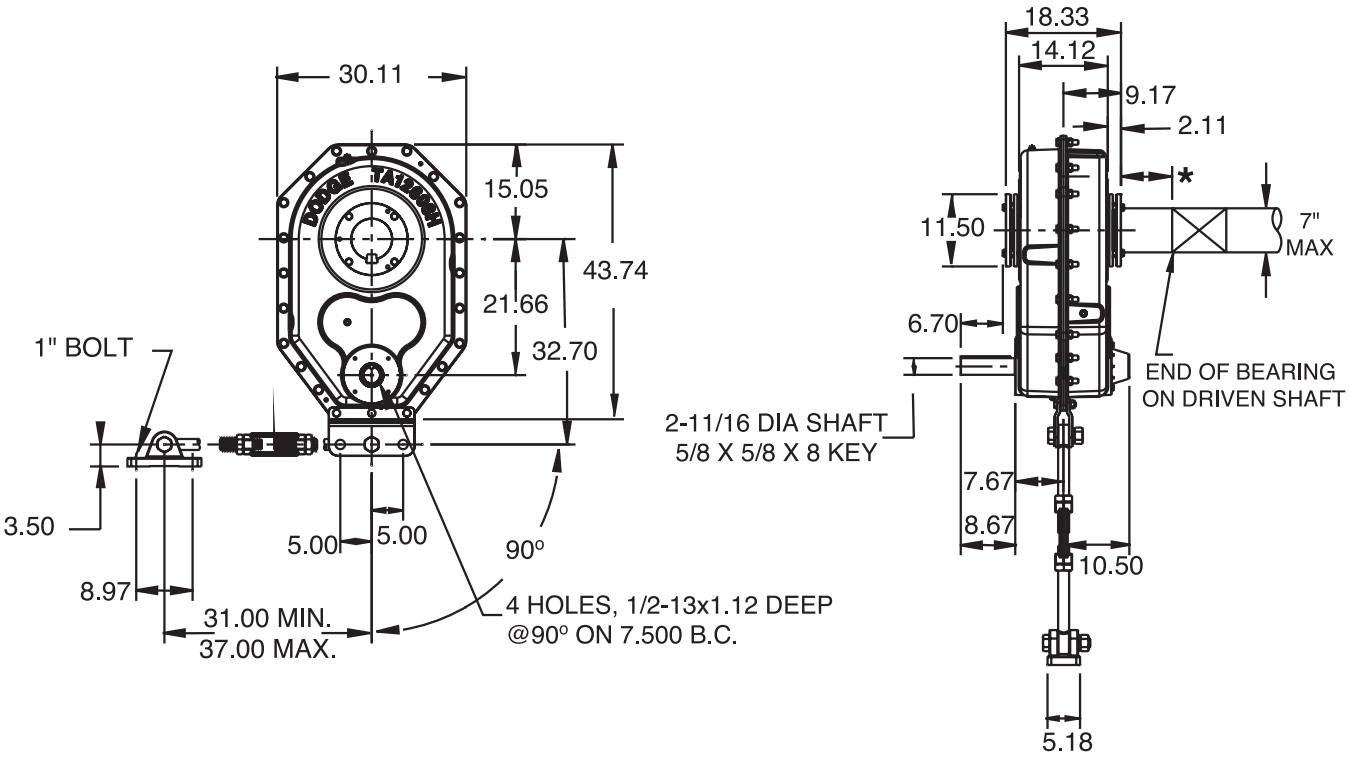
(1) Motor mount will fit NEMA and IEC frame motors; hardware are inch dimensions

(2) M1, M2, M3 go through output shaft centerline

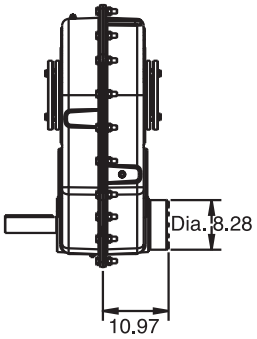
# SELECTION/DIMENSIONS

## TORQUE-ARM II Shaft Mount Speed Reducers

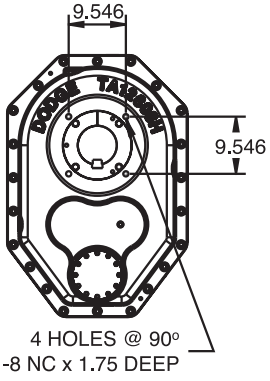
**Taper Bushed Reducers - TA12608H, Double Reduction**




* 2.39" MINIMUM DISTANCE
FOR BUSHING SCREW REMOVAL




REDUCER WITH BACKSTOP




FLANGE MOUNTING DIMENSIONS

# TORQUE-ARM II Shaft Mount Speed Reducers

## Taper Bushed Reducers - TA12608H, Double Reduction

### TA12608H Taper Bushed Reducers (1)

| Reducer Size | Part Number | AGMA Code | Actual Ratio | Weight lbs. |
|---|---|---|---|---|
| TA12608H15 | **912002** | 608D15 | 14.79 | 1392.0 |
| TA12608H25 | **912001** | 608D25 | 25.03 | 1395.0 |
| TA12608H40 | **912000** | 608D40 | 38.19 | 1393.0 |

(1) Reducers are supplied from stock ready for vertical mounting and for flange mounting. Rod assembly is not included with reducer. Order as a separate part number.

\+ Rod Assembly mounting locations are limited to positions shown in drawing.

### TA12608H Accessories

| Description | Part Number | Weight lbs. |
|---|---|---|
| TA12608RA Rod Assembly (1) + | **912109** | 106.4 |
| TA12608BS Backstop Assembly (2) | **912102** | 40.0 |
| TA12608BS 40:1 Backstop Assembly (2) | **912103** | 41.1 |
| TA12608MM Motor Mount Assembly (254-445T) (3) | **912090** | 289.6 |
| TA12608BG Belt Guard - Pos. B (254-445T) | **912096** | 190.5 |
| TA12608BG Belt Guard - Pos. D (254-445T) | **912099** | 181.0 |
| TA12608CF Cooling Fan Assembly ● | **912106** | 13.7 |
| TA4-TA12 Vertical Breather Kit | **904112** | 3.0 |
| TA12608H V-Ring Kit | **912249** | .08 |
| Filter Breather Kit | **430049** | 0.2 |
| TA12608H Lube Kit | **LUBEKITTA12608** | 170.1 |

(2) See page G1-128 for input shaft speed necessary for backstop sprag lift-off

(3) Motor Mount will fit NEMA and IEC frame motors; however hardware are inch dimensions

● See page G1-120 for cooling fan dimensions

### TA12608H Tapered Bushing Kits (4)

| Bushing Size Standard Shaft Bushing Kit | Part Number (5) | Weight lbs. | Shaft Keyseat Required (7) (8) | Bushing Size Short Shaft Bushing Kit (6) | Part Number | Weight lbs. | Shaft Keyseat Required (7) (8) |
|---|---|---|---|---|---|---|---|
| TA12608TB x 7 | **912020** | 58.2 | 1-3/4 x 3/4 x 18.32 | --- | **---** | --- | --- |
| TA12608TB x 6-1/2 ▲ | **912021** | 67.8 | 1-1/2 x 3/4 x 18.32 | TA12608TBS x 6-1/2 | **912027** | 73.5 | 1-1/2 x 3/4 x 11.60 |
| TA12608TB x 6-7/16 | **912022** | 69.1 | 1-1/2 x 3/4 x 18.32 | TA12608TBS x 6-7/16 | **912028** | 75.7 | 1-1/2 x 3/4 x 11.60 |
| TA12608TB x 6 | **912023** | 78.1 | 1-1/2 x 3/4 x 18.32 | TA12608TBS x 6 | **912029** | 90.5 | 1-1/2 x 3/4 x 11.60 |
| TA12608TB x 5-15/16 | **912024** | 79.4 | 1-1/2 x 3/4 x 18.32 | TA12608TBS x 5-15/16 | **912030** | 92.6 | 1-1/2 x 3/4 x 11.60 |
| TA12608TB x 5-7/16 | **912025** | 86.7 | 1-1/4 x 5/8 x 18.32 | TA12608TBS x 5-7/16 | **912031** | 106.1 | 1-1/4 x 5/8 x 11.60 |
| TA12608TB x 4-15/16 | **912026** | 94.6 | 1-1/4 x 5/8 x 18.32 | TA12608TBS x 4-15/16 | **912032** | 119.3 | 1-1/4 x 5/8 x 11.60 |

▲ AGMA maximum bore size

(4) Bushing kit required to mount TA II reducer to driven shaft

(5) Standard Shaft Bushing Kit includes two standard bushings with back-up plates and snap rings; hardware, and key

(6) Short Shaft Bushing Kit includes one standard bushing, one long bushing with insertable wedge; two back-up plates with snap rings; hardware and key. This is an optional bushing for after market, short shaft mounting.

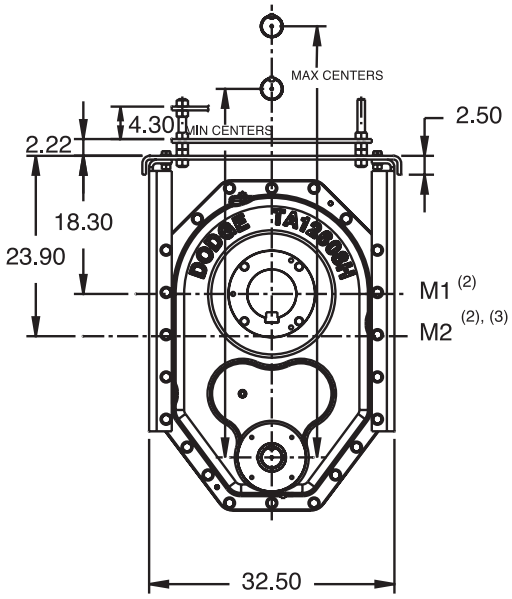
(7) Minimum keyseat and shaft length required to mount reducer with bushing kit

(8) Always check the driven shaft and key for strength

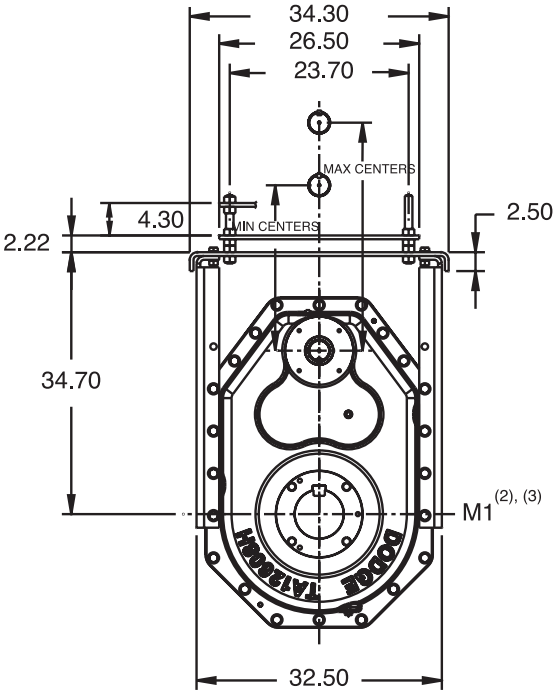
# SELECTION/DIMENSIONS

## TORQUE-ARM II Shaft Mount Speed Reducers

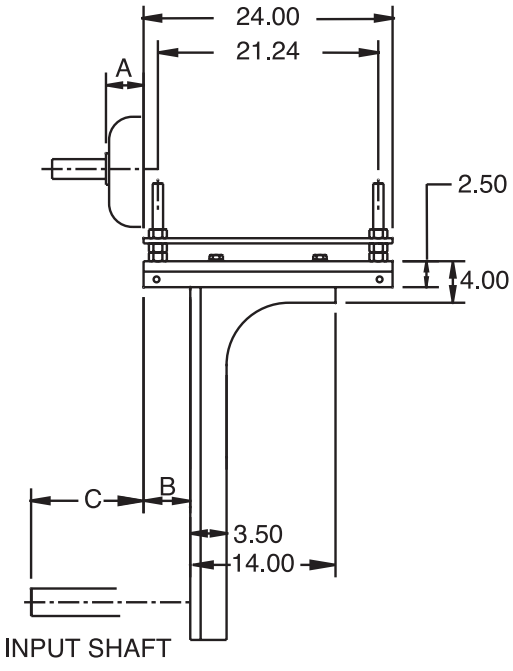
### Motor Mount Dimensions - TA12608H, Position B & D




POSITION B




POSITION D




INPUT SHAFT

# TORQUE-ARM II Shaft Mount Speed Reducers

## Motor Mount Dimensions - TA12608H, Position B & D (1)

| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 254T & 256T | | | 284T & 286T | | | 324T & 326T | | |
| | | | | | | A | Centers | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max | | Min | Max |
| Position B | 1.68 | 7.32 | 8.02 | 13.66 | M1 | 1.56 | 48.9 | 52.7 | 1.16 | 49.7 | 53.5 | 0.38 | 50.7 | 54.5 |
| | | | | | M2 | | 54.5 | 58.3 | | 55.3 | 59.1 | | 56.3 | 60.1 |
| Position D | 1.68 | 7.32 | 8.02 | 13.66 | M1 | 1.56 | 22.0 | 25.8 | 1.16 | 22.8 | 26.6 | 0.38 | 23.8 | 27.6 |

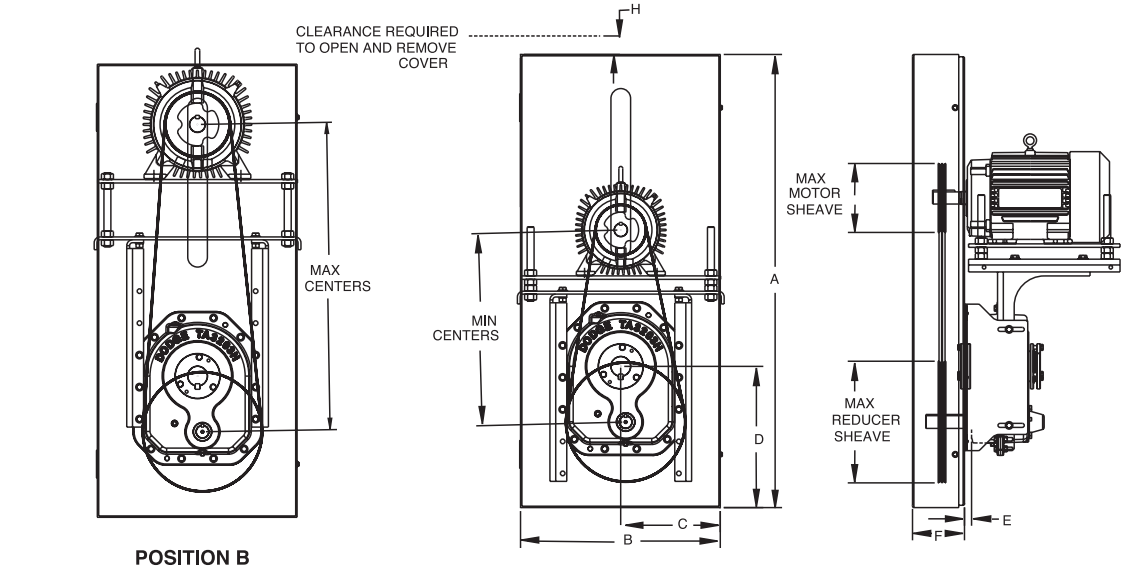
| Mounting | Lateral Adjustment | | | | Motor Mount Height (2) | Motor Frame | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 364T & 365T | | | 404T & 405T | | | 444T & 445T | | |
| | | | | | | A | Centers | | A | Centers | | A | Centers | |
| | B Min | B Max | C Min | C Max | | | Min | Max | | Min | Max | | Min | Max |
| Position B | 1.68 | 7.32 | 8.02 | 13.66 | M1 | 1.01 | 51.7 | 55.5 | 0.75 | 52.7 | 56.5 | 1.62 | 53.7 | 57.5 |
| | | | | | M2 | | 57.3 | 61.1 | | 58.3 | 62.1 | | 59.3 | 63.1 |
| Position D | 1.68 | 7.32 | 8.02 | 13.66 | M1 | 1.01 | 24.8 | 28.6 | 0.75 | 25.8 | 29.6 | 1.62 | 26.8 | 30.6 |

**Note:**
Minimum centers contains 0.5” to allow for belt assembly
(1) Motor mount will fit NEMA and IEC frame motors; hardware are inch dimensions
(2) M1, M2, M3 go through output shaft centerline

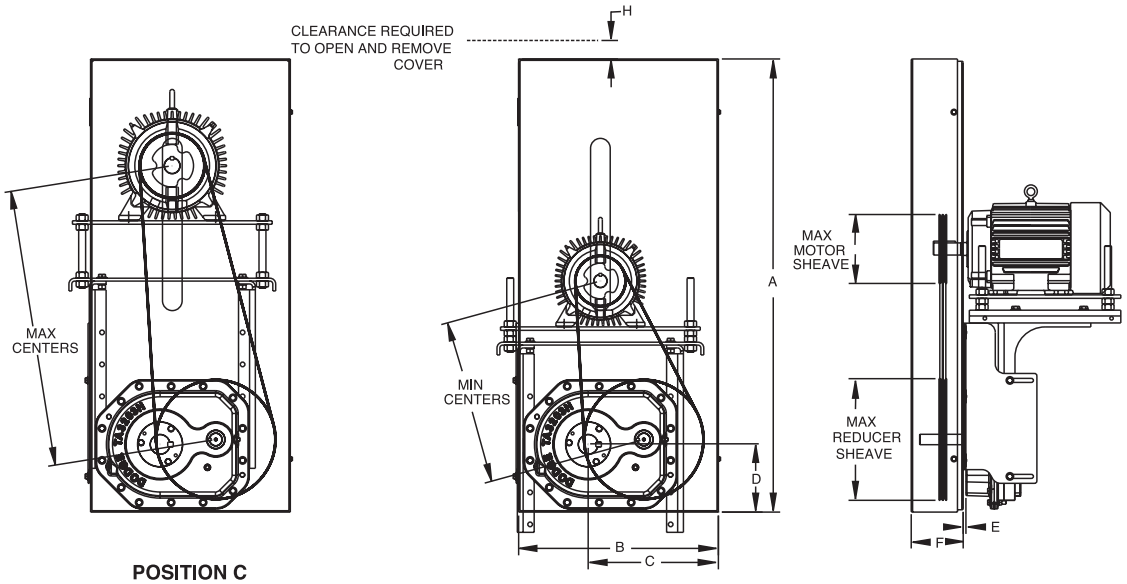
# SELECTION/DIMENSIONS

## TORQUE-ARM II Shaft Mount Speed Reducers

### Belt Guard Dimensions, TA0107L - TA5215H




POSITION B




POSITION C

# TORQUE-ARM II Shaft Mount Speed Reducers

## Belt Guard Dimensions, TA0107L - TA5215H

| Case Size | Mounting Position | Centers | | Max Sheave Dia. | | A | B | C |
|---|---|---|---|---|---|---|---|---|
| | | Min | Max | Motor | Reducer | | | |
| TA0107L | B | 16.7 | 26.9 | 11.0 | 12.4 | 41.50 | 16.00 | 8.00 |
| | C | 14.4 | 25.5 | 11.4 | 12.3 | 41.50 | 16.00 | 10.43 |
| TA1107H | B | 16.0 | 28.0 | 10.8 | 12.8 | 41.50 | 16.00 | 8.00 |
| | C | 16.0 | 26.3 | 9.4 | 9.4 | 41.50 | 16.00 | 11.55 |
| TA2115H | B | 17.8 | 31.1 | 8.6 | 12.8 | 43.50 | 19.25 | 9.62 |
| | C | 16.8 | 28.9 | 9.3 | 12.3 | 43.50 | 19.25 | 13.07 |
| TA3203H | B | 18.9 | 34.3 | 9.2 | 16.8 | 49.00 | 21.60 | 10.80 |
| | C | 15.0 | 31.0 | 15.8 | 14.0 | 49.00 | 21.60 | 14.12 |
| TA4207H | B | 21.8 | 38.3 | 10.3 | 16.9 | 53.50 | 24.60 | 12.30 |
| | C | 22.4 | 35.5 | 16.5 | 15.9 | 53.50 | 24.60 | 16.11 |
| TA5215H | B | 25.7 | 44.1 | 11.8 | 17.8 | 60.50 | 27.60 | 13.80 |
| | C | 25.6 | 39.6 | 18.6 | 16.9 | 60.50 | 27.60 | 17.85 |

| Case Size | Mounting Position | D | E | | F | H | J |
|---|---|---|---|---|---|---|---|
| | | | Min | Max | | | |
| TA0107L | B | 11.74 | 0.04 | 1.66 | 4.23 | 2.00 | 4.22 |
| | C | 7.33 | 0.04 | 1.66 | 4.23 | 2.00 | 4.22 |
| TA1107H | B | 11.74 | 0.00 | 1.57 | 4.23 | 2.00 | 4.22 |
| | C | 5.50 | 0.00 | 1.62 | 4.23 | 2.00 | 4.22 |
| TA2115H | B | 12.70 | 0.19 | 1.60 | 4.23 | 2.00 | 4.22 |
| | C | 7.00 | 0.19 | 1.56 | 4.23 | 2.00 | 4.22 |
| TA3203H | B | 15.27 | 0.04 | 2.54 | 5.62 | 2.00 | 5.59 |
| | C | 7.32 | 0.09 | 2.66 | 5.62 | 2.00 | 5.59 |
| TA4207H | B | 16.56 | 0.00 | 2.50 | 5.62 | 2.00 | 5.59 |
| | C | 8.32 | 0.13 | 2.70 | 5.62 | 2.00 | 5.59 |
| TA5215H | B | 18.25 | 0.00 | 2.44 | 6.37 | 2.00 | 6.09 |
| | C | 9.60 | 0.08 | 2.64 | 6.37 | 2.00 | 6.09 |

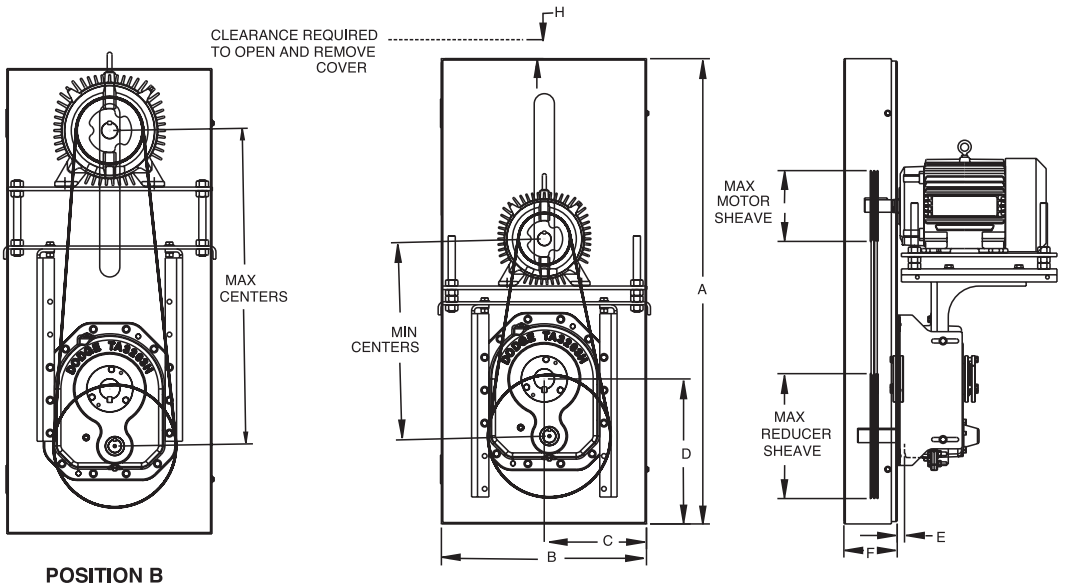
**Notes:**

1. Minimum centers allow 0.5” for belt assembly
2. Maximum sheave diameters allow 0.5” clearance for belt assembly
3. Range of center distances on belt guard may be less than the full range of center distances available on the motor mount
4. Belt guard cover is lift-off cover construction
5 Belt guard attaches to motor mount brackets
6. “E” maximum dimension allows clearance for cooling fan
7. Stock Position-B Belt Guards cannot be used with TA II Reducers mounted in ‘D’ position. Use a Position-D Belt Guard
8. Stock Position-C Belt Guards cannot be used with TA II Reducers mounted in ‘A’ position. A special belt guard is required. Consult DODGE for price and delivery.

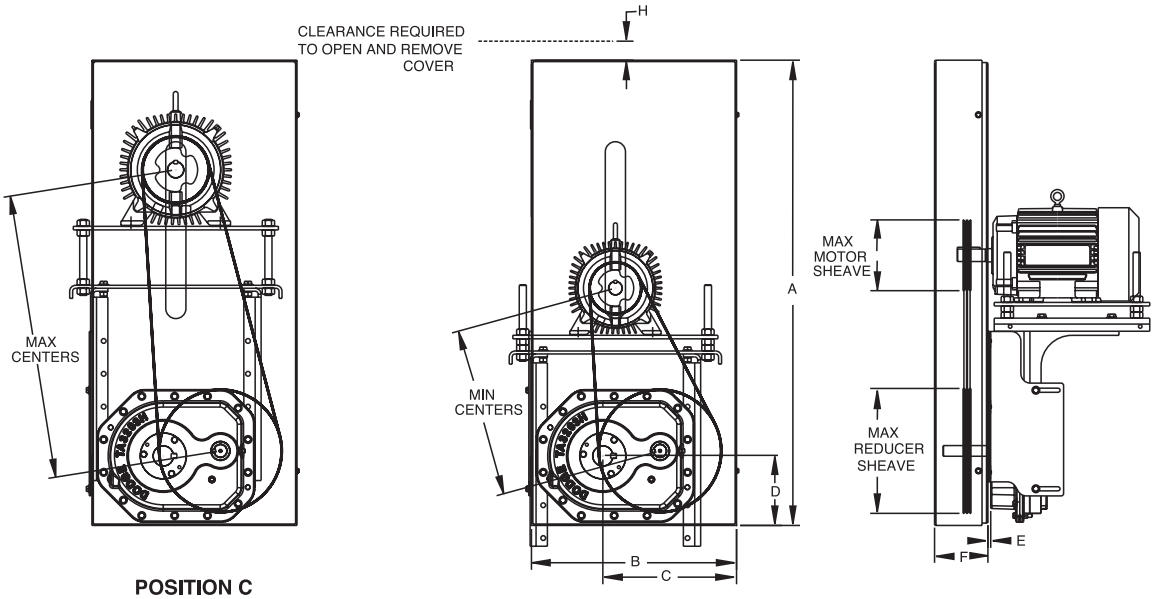
# SELECTION/DIMENSIONS

## TORQUE-ARM II Shaft Mount Speed Reducers

### Belt Guard Dimensions, TA6307H - TA12608H




POSITION B




POSITION C

# TORQUE-ARM II Shaft Mount Speed Reducers

## Belt Guard Dimensions, TA6307H - TA12608H

| Case Size | Mounting Position | Centers | | Max Sheave Dias. | | A | B | C |
|---|---|---|---|---|---|---|---|---|
| | | Min | Max | Motor | Reducer | | | |
| TA6307H | B | 26.6 | 46.5 | 12.8 | 19.9 | 64.50 | 29.10 | 14.15 |
| | C | 26.8 | 40.9 | 21.0 | 20.0 | 64.50 | 29.10 | 17.94 |
| TA7315H | B | 29.5 | 50.6 | 12.0 | 25.0 | 71.50 | 30.60 | 18.51 |
| | C | 28.6 | 43.6 | 22.0 | 25.0 | 71.50 | 30.60 | 22.39 |
| TA8407H | B | 29.7 | 50.8 | 12.0 | 25.2 | 71.50 | 30.60 | 13.45 |
| | C | 28.7 | 43.8 | 22.0 | 24.6 | 71.50 | 30.60 | 22.39 |
| TA9415H | B | 35.0 | 49.2 | 15.4 | 28.0 | 72.50 | 31.60 | 19.57 |
| TA10507H | B | 46.2 | 60.8 | 23.2 | 30.8 | 89.50 | 32.60 | 16.30 |
| TA12608H | B | 48.4 | 63.3 | 18.2 | 30.8 | 89.50 | 32.60 | 16.30 |

| Case Size | Mounting Position | D | E | | F | H | J |
|---|---|---|---|---|---|---|---|
| | | | Min | Max | | | |
| TA6307H | B | 19.92 | 0.00 | 3.56 | 6.87 | 2.00 | 6.59 |
| | C | 10.72 | 0.00 | 3.60 | 6.87 | 2.00 | 6.59 |
| TA7315H | B | 23.38 | 0.00 | 4.43 | 7.37 | 2.00 | 7.09 |
| | C | 10.25 | 0.00 | 3.17 | 7.37 | 2.00 | 7.09 |
| TA8407H | B | 23.38 | 0.00 | 4.12 | 7.37 | 2.00 | 7.09 |
| | C | 10.25 | 0.00 | 2.86 | 7.37 | 2.00 | 7.09 |
| TA9415H | B | 26.22 | 0.00 | 3.50 | 8.37 | 2.00 | 8.09 |
| TA10507H | B | 36.14 | 0.00 | 3.56 | 8.87 | 2.00 | 8.59 |
| TA12608H | B | 37.91 | 0.00 | 3.56 | 8.87 | 2.00 | 8.59 |

**Notes:**

1. Minimum centers allow 0.5” for belt assembly
2. Maximum sheave diameters allow 0.5” clearance for belt assembly
3. Range of center distances on belt guard may be less than the full range of center distances available on the motor mount
4. Belt guard cover is lift-off cover construction
5. Belt guard attaches to motor mount brackets
6. “E” maximum dimension allows clearance for cooling fan
7. Stock Position-B Belt Guards cannot be used with TA II Reducers mounted in ‘D’ position. Use a Position-D Belt Guard
8. Stock Position-C Belt Guards cannot be used with TA II Reducers mounted in ‘A’ position. A special belt guard is required. Consult DODGE for price and delivery.

# SELECTION/DIMENSIONS

## TORQUE-ARM II Shaft Mount Speed Reducers

### Cooling Fan Dimensions, TA4207H - TA12608H

When the thermal capacity of a TORQUE-ARM II reducer is exceeded, cooling fans provide an optional, inexpensive way of lowering the oil temperature, thus increasing the thermal horsepower capacity of the reducer. Selection tables indicate when a cooling fan is required.

The computer designed fan assembly, which fastens to the input shaft, is compact enough to allow installation of the V-drive originally designed for the reducer. The fan assemblies are designed to allow free circulation of air at the back of the housing as well as through the front of the unit. The fan blade offers a radial streamline airflow, which means smaller fans yet a more efficient movement of air. See Figure 1 and Table 1 for cooling fan installation dimensions.

For thermal capacities beyond the range of cooling fans, pump and cooler auxiliary cooling packages may be used.

**Note:** See page G1-127 for maximum input shaft speeds.

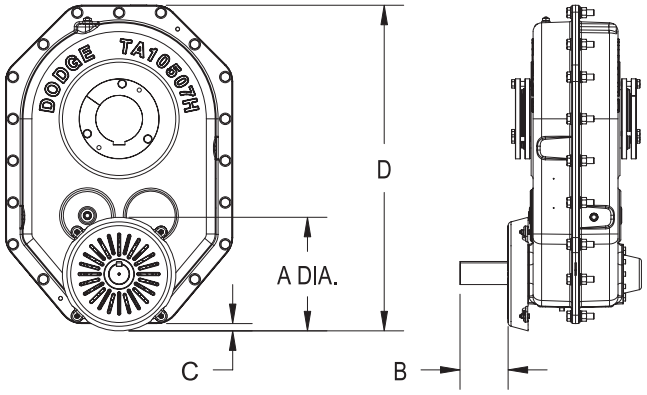



**Figure 1 - Cooling Fan Assembly**

**Table 1 - Cooling Fan Installation Dimensions ●**

| Reducer | A Dia. | B | C | D |
|---|---|---|---|---|
| TA4207H | 9.00 | 3.77 | --- | --- |
| TA5215H | 10.75 | 4.63 | --- | --- |
| TA6307H | 11.85 | 4.00 | 0.14 | 25.37 |
| TA7315H | 11.85 | 4.10 | --- | --- |
| TA8407H | 11.85 | 4.79 | --- | --- |
| TA9415H | 14.55 | 5.98 | --- | --- |
| TA10507H | 14.55 | 6.16 | 0.93 | 41.72 |
| TA12608H | 14.55 | 6.16 | 0.25 | 43.98 |

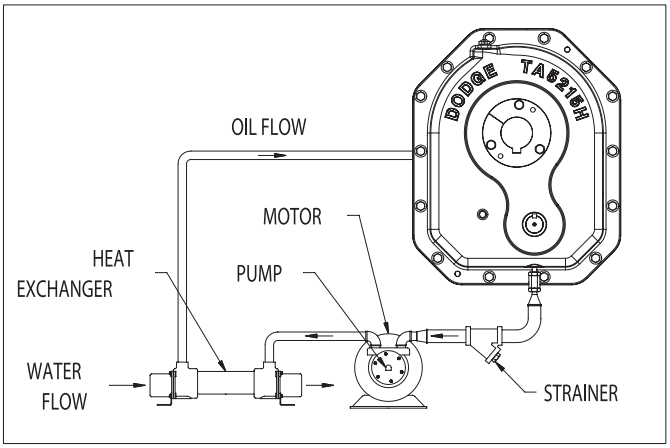
● See individual reducer pages for cooling fan part numbers

## Reducer Pump and Auxiliary Cooling Package

For thermal capacities beyond the range of cooling fans, an optional pump and cooler auxiliary cooling package is available to prevent overheating the reducer and allow the use of full mechanical HP rating by lowering the oil temperature to an acceptable level.

Specifications for the heat exchanger are as follows: 1/2 HP, 60 Hz, 3 PH. 230/460 Volt, TEFC, 56 Frame. Maximum coolant (water) flow is 3 G.P.M. based upon a maximum water temperature of 80 degrees F. Minimum oil temperature for operation is 60 degrees F.

**Figure 2 - Pump and Auxiliary Cooling Package, Part Number 014148**



# TORQUE-ARM II Shaft Mount Speed Reducers
## Harsh Duty Accessories

### XT Safety & Sealing And XT Hostile Environment

**Metal End Covers (1) (2)**

| Reducer Size | End Cover Part Numbers | | | Weight |
|---|---|---|---|---|
| | Closed | Weight | Split | |
| TA0107L | **900114** | 0.3 | **900115** | 0.3 |
| TA1107H | **901114** | 0.5 | **901115** | 0.4 |
| TA2115H | **902114** | 0.6 | **902115** | 0.5 |
| TA3203H | **903114** | 1.0 | **903115** | 0.6 |
| TA4207H | **904114** | 1.2 | **904115** | 1.0 |
| TA5215H | **905114** | 1.3 | **905115** | 1.3 |
| TA6307H | **906114** | 1.0 | **906115** | 1.5 |
| TA7315H | **907114** | 1.2 | **907115** | 1.5 |
| TA8407H | **908114** | 2.5 | **908115** | 2.5 |
| TA9415H | **909114** | 4.0 | **909115** | 1.7 |
| TA10507H | **910114** | 4.6 | **910115** | 3.9 |
| TA12608H | **912114** | 4.8 | **912115** | 4.1 |

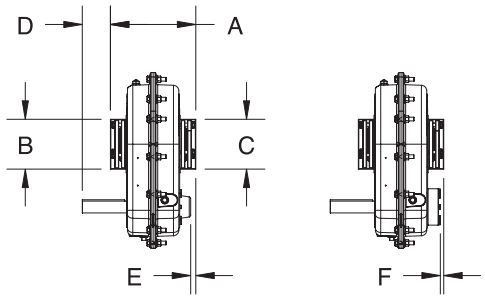
(1) End covers fit both the input side and back stop side of TA II reducer. See Drawing A and Table 3 for dimensions.

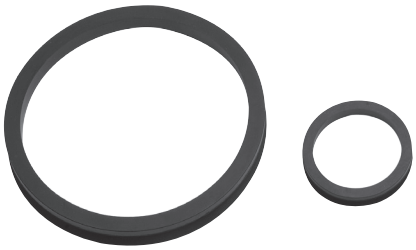
(2) If a TA II Belt Guard is used, an end cover for the input side of the reducer is not needed and will not fit.

Table 3

| Reducer Size | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| TA0107L | 7.77 | 3.63 | 3.63 | 2.14 | 0.22 | 0.05 |
| TA1107H | 7.95 | 4.13 | 4.13 | 2.02 | -0.05 | -0.22 |
| TA2115H | 8.80 | 4.75 | 4.75 | 2.19 | 0.07 | -0.10 |
| TA3203H | 9.68 | 5.25 | 5.25 | 3.19 | 0.08 | -0.10 |
| TA4207H | 9.95 | 5.88 | 5.88 | 3.21 | 0.14 | -0.04 |
| TA5215H | 11.57 | 6.75 | 6.75 | 3.81 | 0.70 | 0.46 |
| TA6307H | 12.12 | 6.88 | 6.88 | 5.12 | 0.66 | 0.41 |
| TA7315H | 13.18 | 8.13 | 8.13 | 4.92 | 0.00 | -0.41 |
| TA8407H | 14.12 | 8.38 | 8.38 | 5.45 | 0.19 | -0.06 |
| TA9415H | 15.17 | 9.63 | 9.63 | 6.37 | -0.79 | -1.20 |
| TA10507H | 16.88 | 10.63 | 10.63 | 6.36 | 0.00 | -0.34 |
| TA12608H | 19.75 | 11.88 | 11.88 | 6.47 | -0.63 | -1.09 |

**Drawing A - Metal End Cover**



### Optional V-Ring Flinger Seal Kit For Harsh Duty Environments (1)

| Reducer Size | Part Number | Weight |
|---|---|---|
| TA0107L | **900249** | 0.1 |
| TA1107H | **901249** | 0.1 |
| TA2115H | **902249** | 0.2 |
| TA3203H | **903249** | 0.2 |
| TA4207H | **904249** | 0.3 |
| TA5215H | **905249** | 0.3 |
| TA6307H | **906249** | 0.4 |
| TA7315H | **907249** | 0.4 |
| TA8407H | **907249** | 0.4 |
| TA9415H | **909249** | 0.5 |
| TA10507H | **910249** | 0.8 |
| TA12608H | **912249** | 0.8 |

(1) Consists of 1 input and 2 output V-ring seals which fit in seal OD of housing; provides additional sealing protection for keeping contaminants out of reducer.

**Metal End Covers**

# RELATED PRODUCTS

## TORQUE-ARM II Shaft Mount Speed Reducers
## Harsh Duty Accessories

### Enclosed Breather Chamber

| Reducer Size | Part Number |
|---|---|
| TA0-TA9 | **240050** |
| TA10-TA12 | **240051** |

### Filter Breather (1)

| Reducer Size | Part Number |
|---|---|
| TA0-TA3 | **430048** |
| TA4-TA12 | **430049** |

(1) 40 micron mesh opening in filter allows reducer to breathe, yet keep dust out, und xtreme conditions.

**Filter Breather**

**Oil Sump Heater**

### Oil Sump Immersion Heaters (2)

| Reducer Size | Part Number |
|---|---|
| TA0 - TA3 | **Not Available** |
| TA4 | **241103 (3)** |
| TA5-TA6 | **241103** |
| TA7-TA9 | **241105** |
| TA10 - TA12 | **Consult DODGE** |

(2) 120 volt single phase, AC cartridge heater, threads into tapped housing hole. Provides for approximately 70 degrees (F) temperature rise in one hour for cold climates. Simple time phased on/off construction without thermostat.

(3) Reducer has to be factory modified to allow installation of sump heater. Reducer mounting position will determine modification requirement. Consult DODGE.

# TORQUE-ARM II Shaft Mount Speed Reducers

**TDNC Coated Tapered Bushings (Thin Dense Nickel Chrome)**

- TDNC coated for maximum corrosion resistance with minimum premium cost adder
- TDNC bushings, backing plates and snap rings
- Corrosion resistant bolts and lock washers
- TA II has the highest average HP ratings per case size in its class
- Meets or exceeds AGMA standards
- 36 / 18 month warranty

# TORQUE-ARM II Shaft Mount Speed Reducers

## Maximum Bore Straight Bore TA II Reducers (1) (2) (3)

| Reducer Size | Max. Bore | TA II Reducer | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5:1 | | 9:1 | | 15:1 | | 25:1 | | 31:1 - 40:1 | |
| | | Part No. | Weight | Part No. | Weight | Part No. | Weight | Part No. | Weight | Part No. | Weight |
| TA1107H | 1-11/16" | **901149** | 56.6 | **901148** | 58.0 | **901147** | 57.9 | **901146** | 57.9 | **901145** | 58.0 |
| TA3203H | 2-7/16" | **903149** | 109.2 | **903148** | 113.3 | **903147** | 113.1 | **903146** | 112.8 | **903145** | 112.0 |
| TA4207H | 2-15/16" | **904149** | 182.0 | **904148** | 190.7 | **904147** | 190.3 | **904146** | 189.6 | **904145** | 189.0 |
| TA5215H | 3-7/16" | **905149** | 262.4 | **905148** | 277.0 | **905147** | 276.5 | **905146** | 275.5 | **905145** | 274.7 |
| TA6307H | 3-15/16" | **906149** | 316.0 | **906148** | 334.0 | **906147** | 333.0 | **906146** | 331.0 | **906145** | 330.0 |

(1) See individual reducer catalog pages for accessories for above reducers

(2) Non-stock, made-to-order reducers

(3) See Drawing B and Table 4 for catalog dimensions for Maximum Bore Straight Bore TA II Reducers

**Drawing B - Maximum Bore Straight Bore Reducers**

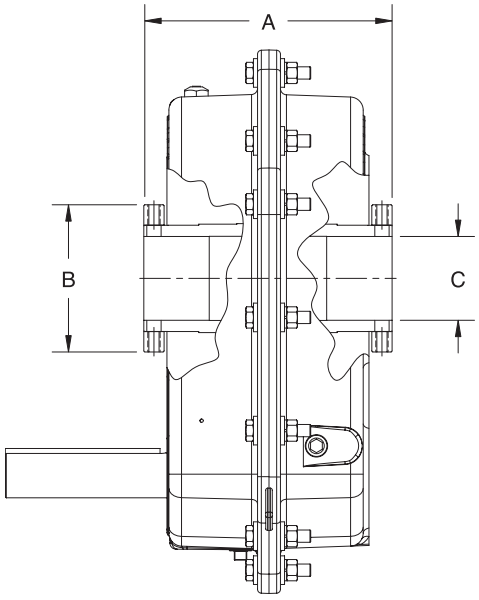



**Table 4 (4)**

| Reducer Size | A | B | C Bore | Shaft Keyseat Required (5) |
|---|---|---|---|---|
| TA1107H | 5.82 | 3.50 | 1-11/16" | 3/8 x 3/16 x 5.81 |
| TA3203H | 7.59 | 4.50 | 2-7/16" | 5/8 x 5/16 x 7.58 |
| TA4207H | 8.02 | 5.00 | 2-15/16" | 3/4 x 3/8 x 8.01 |
| TA5215H | 8.97 | 5.50 | 3-7/16" | 7/8 x 7/16 x 8.96 |
| TA6307H | 9.40 | 5.75 | 3-15/16" | 1 x 1/2 x 9.39 |

(4) Always check the driven shaft and key for strength

(5) Minimum keyset and shaft length required to mount reducer

# RELATED PRODUCTS

## TORQUE-ARM II Shaft Mount Speed Reducers

### Nominal Sheave Ratios Required For Dodge TORQUE-ARM II Reducers - 5:1, 9:1, 15:1

| Reducer Output RPM | 5:1 Nominal Reducer Ratio Motor Speed 1750 | 1450 | 1170 | Reducer Output RPM | 9:1 Nominal Reducer Ratio Motor Speed 1750 | 1450 | 1170 | Reducer Output RPM | 15:1 Nominal Reducer Ratio Motor Speed 1750 | 1450 | 1170 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **400** | **1.14** | **1.38** | **1.71** | 200 | **1.03** | **1.24** | **1.54** | 120 | **1.03** | **1.24** | **1.54** |
| 395 | **1.13** | **1.36** | **1.69** | 198 | **1.02** | **1.23** | **1.52** | 118 | **1.01** | **1.22** | **1.51** |
| 390 | **1.11** | **1.34** | **1.67** | 196 | **1.01** | **1.22** | **1.51** | 116 | 1.01 | **1.20** | **1.49** |
| 385 | **1.10** | **1.33** | **1.65** | 194 | 1.00 | **1.20** | **1.49** | 114 | 1.02 | **1.18** | **1.46** |
| 380 | **1.09** | **1.31** | **1.62** | 192 | 1.01 | **1.19** | **1.48** | 112 | 1.04 | **1.16** | **1.44** |
| 375 | **1.07** | **1.29** | **1.60** | 190 | 1.02 | **1.18** | **1.46** | 110 | 1.06 | **1.14** | **1.41** |
| 370 | **1.06** | **1.28** | **1.58** | 188 | 1.03 | **1.17** | **1.45** | 108 | 1.08 | **1.12** | **1.38** |
| 365 | **1.04** | **1.26** | **1.56** | 186 | 1.05 | **1.15** | **1.43** | 106 | 1.10 | **1.10** | **1.36** |
| 360 | **1.03** | **1.24** | **1.54** | 184 | 1.06 | **1.14** | **1.42** | 104 | 1.12 | **1.08** | **1.33** |
| 355 | **1.01** | **1.22** | **1.52** | 182 | 1.07 | **1.13** | **1.40** | 102 | 1.14 | **1.06** | **1.31** |
| 350 | 1.00 | **1.21** | **1.50** | 180 | 1.08 | **1.12** | **1.38** | 100 | 1.17 | **1.03** | **1.28** |
| 345 | 1.01 | **1.19** | **1.47** | 178 | 1.09 | **1.10** | **1.37** | 98 | 1.19 | **1.01** | **1.26** |
| 340 | 1.03 | **1.17** | **1.45** | 176 | 1.10 | **1.09** | **1.35** | 96 | 1.22 | 1.01 | **1.23** |
| 335 | 1.04 | **1.16** | **1.43** | 174 | 1.12 | **1.08** | **1.34** | 94 | 1.24 | 1.03 | **1.21** |
| 330 | 1.06 | **1.14** | **1.41** | 172 | 1.13 | **1.07** | **1.32** | 92 | 1.27 | 1.05 | **1.18** |
| 325 | 1.08 | **1.12** | **1.39** | 170 | 1.14 | **1.06** | **1.31** | 90 | 1.30 | 1.07 | **1.15** |
| 320 | 1.09 | **1.10** | **1.37** | 168 | 1.16 | **1.04** | **1.29** | 88 | 1.33 | 1.10 | **1.13** |
| 315 | 1.11 | **1.09** | **1.35** | 166 | 1.17 | **1.03** | **1.28** | 86 | 1.36 | 1.12 | **1.10** |
| 310 | 1.13 | **1.07** | **1.32** | 164 | 1.19 | **1.02** | **1.26** | 84 | 1.39 | 1.15 | **1.08** |
| 305 | 1.15 | **1.05** | **1.30** | 162 | 1.20 | **1.01** | **1.25** | 82 | 1.42 | 1.18 | **1.05** |
| 300 | 1.17 | **1.03** | **1.28** | 160 | 1.22 | 1.01 | **1.23** | 80 | 1.46 | 1.21 | **1.03** |
| 295 | 1.19 | **1.02** | **1.26** | 158 | 1.23 | 1.02 | **1.22** | 78 | 1.50 | 1.24 | 1.00 |
| 290 | 1.21 | 1.00 | **1.24** | 156 | 1.25 | 1.03 | **1.20** | 76 | 1.54 | 1.27 | 1.03 |
| 285 | 1.23 | 1.02 | **1.22** | 154 | 1.26 | 1.05 | **1.18** | 74 | 1.58 | 1.31 | 1.05 |
| 280 | 1.25 | 1.04 | **1.20** | 152 | 1.28 | 1.06 | **1.17** | 72 | 1.62 | 1.34 | 1.08 |
| 275 | 1.27 | 1.05 | **1.18** | 150 | 1.30 | 1.07 | **1.15** | 70 | 1.67 | 1.38 | 1.11 |
| 270 | 1.30 | 1.07 | **1.15** | 148 | 1.31 | 1.09 | **1.14** | 68 | 1.72 | 1.42 | 1.15 |
| 265 | 1.32 | 1.09 | **1.13** | 146 | 1.33 | 1.10 | **1.12** | 66 | 1.77 | 1.46 | 1.18 |
| 260 | 1.35 | 1.12 | **1.11** | 144 | 1.35 | 1.12 | **1.11** | 64 | 1.82 | 1.51 | 1.22 |
| 255 | 1.37 | 1.14 | **1.09** | 142 | 1.37 | 1.13 | **1.09** | 62 | 1.88 | 1.56 | 1.26 |
| 250 | 1.40 | 1.16 | **1.07** | 140 | 1.39 | 1.15 | **1.08** | 60 | 1.94 | 1.61 | 1.30 |
| 245 | 1.43 | 1.18 | **1.05** | 138 | 1.41 | 1.17 | **1.06** | 58 | 2.01 | 1.67 | 1.34 |
| 240 | 1.46 | 1.21 | **1.03** | 136 | 1.43 | 1.18 | **1.05** | 56 | 2.08 | 1.73 | 1.39 |
| 235 | 1.49 | 1.23 | 1.00 | 134 | 1.45 | 1.20 | **1.03** | 54 | 2.16 | 1.79 | 1.44 |
| 230 | 1.52 | 1.26 | 1.02 | 132 | 1.47 | 1.22 | **1.02** | 52 | 2.24 | 1.86 | 1.50 |
| 225 | 1.56 | 1.29 | 1.04 | 130 | 1.50 | 1.24 | 1.00 | 50 | 2.33 | 1.93 | 1.56 |
| 220 | 1.59 | 1.32 | 1.06 | 128 | 1.52 | 1.26 | 1.02 | 48 | 2.43 | 2.01 | 1.63 |
| 215 | 1.63 | 1.35 | 1.09 | 126 | 1.54 | 1.28 | 1.03 | 46 | 2.54 | 2.10 | 1.70 |
| 210 | 1.67 | 1.38 | 1.11 | 124 | 1.57 | 1.30 | 1.05 | 44 | 2.65 | 2.20 | 1.77 |
| 205 | 1.71 | 1.41 | 1.14 | 122 | 1.59 | 1.32 | 1.07 | 42 | 2.78 | 2.30 | 1.86 |
| 200 | 1.75 | 1.45 | 1.17 | 120 | 1.62 | 1.34 | 1.08 | 40 | 2.92 | 2.42 | 1.95 |
| 195 | 1.79 | 1.49 | 1.20 | 118 | 1.65 | 1.37 | 1.10 | 38 | 3.07 | 2.54 | 2.05 |
| 190 | 1.84 | 1.53 | 1.23 | 116 | 1.68 | 1.39 | 1.12 | 36 | 3.24 | 2.69 | 2.17 |
| 185 | 1.89 | 1.57 | 1.26 | 114 | 1.71 | 1.41 | 1.14 | 34 | 3.43 | 2.84 | 2.29 |
| 180 | 1.94 | 1.61 | 1.30 | 112 | 1.74 | 1.44 | 1.16 | 32 | 3.65 | 3.02 | 2.44 |
| 175 | 2.00 | 1.66 | 1.34 | 110 | 1.77 | 1.46 | 1.18 | 30 | 3.89 | 3.22 | 2.60 |
| 170 | 2.06 | 1.71 | 1.38 | 108 | 1.80 | 1.49 | 1.20 | 28 | 4.17 | 3.45 | 2.79 |
| 165 | 2.12 | 1.76 | 1.42 | 106 | 1.83 | 1.52 | 1.23 | 26 | 4.49 | 3.72 | 3.00 |
| 160 | 2.19 | 1.81 | 1.46 | 104 | 1.87 | 1.55 | 1.25 | 24 | 4.86 | 4.03 | 3.25 |
| 155 | 2.26 | 1.87 | 1.51 | 102 | 1.91 | 1.58 | 1.27 | 22 | 5.30 | 4.39 | 3.55 |
| 150 | 2.33 | 1.93 | 1.56 | 100 | 1.94 | 1.61 | 1.30 | 20 | 5.83 | 4.83 | 3.90 |
| 145 | 2.41 | 2.00 | 1.61 | | | | | 18 | 6.48 | 5.37 | 4.33 |
| 140 | 2.50 | 2.07 | 1.67 | | | | | 16 | 7.29 | 6.04 | 4.88 |
| 135 | 2.59 | 2.15 | 1.73 | | | | | 14 | 8.33 | 6.90 | 5.57 |
| 130 | 2.69 | 2.23 | 1.80 | | | | | 12 | 9.72 | 8.06 | 6.50 |
| 125 | 2.80 | 2.32 | 1.87 | | | | | 10 | 11.67 | 9.67 | 7.80 |
| 120 | 2.92 | 2.42 | 1.95 | | | | | | | | |
| 115 | 3.04 | 2.52 | 2.03 | | | | | | | | |
| 110 | 3.18 | 2.64 | 2.13 | | | | | | | | |
| 105 | 3.33 | 2.76 | 2.23 | | | | | | | | |
| 100 | 3.50 | 2.90 | 2.34 | | | | | | | | |

**Note: Speed increase ratios are shown in bold type**

DODGE®

# TORQUE-ARM II Shaft Mount Speed Reducers

## Nominal Sheave Ratios Required For Dodge TORQUE-ARM II Reducers - 25:1, 31-33:1, 40:1

| Reducer Output RPM | 25:1 Nominal Reducer Ratio | | | Reducer Output RPM | 31:1, 32:1 and 33:1 Nominal Reducer Ratios | | | Reducer Output RPM | 40:1 Nominal Reducer Ratio | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Motor Speed | | | | Motor Speed | | | | Motor Speed | | |
| | 1750 | 1450 | 1170 | | 1750 | 1450 | 1170 | | 1750 | 1450 | 1170 |
| 80 | **1.14** | **1.38** | **1.71** | 50 | 1.09 | **1.10** | **1.37** | 50 | **1.14** | **1.38** | **1.71** |
| 78 | **1.11** | **1.34** | **1.67** | 48 | 1.14 | **1.06** | **1.31** | 48 | **1.10** | **1.32** | **1.64** |
| 76 | **1.09** | **1.31** | **1.62** | 46 | 1.19 | **1.02** | **1.26** | 46 | **1.05** | **1.27** | **1.57** |
| 74 | **1.06** | **1.28** | **1.58** | 44 | 1.24 | 1.03 | **1.20** | 44 | **1.01** | **1.21** | **1.50** |
| 72 | **1.03** | **1.24** | **1.54** | 42 | 1.30 | 1.08 | **1.15** | 42 | 1.04 | **1.16** | **1.44** |
| 70 | 1.00 | **1.21** | **1.50** | 40 | 1.37 | 1.13 | **1.09** | 40 | 1.09 | **1.10** | **1.37** |
| 68 | 1.03 | **1.17** | **1.45** | 38 | 1.44 | 1.19 | **1.04** | 38 | 1.15 | **1.05** | **1.30** |
| 66 | 1.06 | **1.14** | **1.41** | 36 | 1.52 | 1.26 | 1.02 | 36 | 1.22 | 1.01 | **1.23** |
| 64 | 1.09 | **1.10** | **1.37** | 34 | 1.61 | 1.33 | 1.08 | 34 | 1.29 | 1.07 | **1.16** |
| 62 | 1.13 | **1.07** | **1.32** | 32 | 1.71 | 1.42 | 1.14 | 32 | 1.37 | 1.13 | **1.09** |
| 60 | 1.17 | **1.03** | **1.28** | 30 | 1.82 | 1.51 | 1.22 | 30 | 1.46 | 1.21 | **1.03** |
| 58 | 1.21 | 1.00 | **1.24** | 28 | 1.95 | 1.62 | 1.31 | 28 | 1.56 | 1.29 | 1.04 |
| 56 | 1.25 | 1.04 | **1.20** | 26 | 2.10 | 1.74 | 1.41 | 26 | 1.68 | 1.39 | 1.13 |
| 54 | 1.30 | 1.07 | **1.15** | 24 | 2.28 | 1.89 | 1.52 | 24 | 1.82 | 1.51 | 1.22 |
| 52 | 1.35 | 1.12 | **1.11** | 22 | 2.49 | 2.06 | 1.66 | 22 | 1.99 | 1.65 | 1.33 |
| 50 | 1.40 | 1.16 | **1.07** | 20 | 2.73 | 2.27 | 1.83 | 20 | 2.19 | 1.81 | 1.46 |
| 48 | 1.46 | 1.21 | **1.03** | 18 | 3.04 | 2.52 | 2.03 | 18 | 2.43 | 2.01 | 1.63 |
| 46 | 1.52 | 1.26 | 1.02 | 16 | 3.42 | 2.83 | 2.29 | 16 | 2.73 | 2.27 | 1.83 |
| 44 | 1.59 | 1.32 | 1.06 | 14 | 3.91 | 3.24 | 2.61 | 14 | 3.13 | 2.59 | 2.09 |
| 42 | 1.67 | 1.38 | 1.11 | 12 | 4.56 | 3.78 | 3.05 | 12 | 3.65 | 3.02 | 2.44 |
| 40 | 1.75 | 1.45 | 1.17 | 10 | 5.47 | 4.53 | 3.66 | 10 | 4.38 | 3.63 | 2.93 |
| 38 | 1.84 | 1.53 | 1.23 | 8 | 6.84 | 5.66 | 4.57 | 8 | 5.47 | 4.53 | 3.66 |
| 36 | 1.94 | 1.61 | 1.30 | 6 | 9.11 | 7.55 | 6.09 | 6 | 7.29 | 6.04 | 4.88 |
| 34 | 2.06 | 1.71 | 1.38 | | | | | | | | |
| 32 | 2.19 | 1.81 | 1.46 | | | | | | | | |
| 30 | 2.33 | 1.93 | 1.56 | | | | | | | | |
| 28 | 2.50 | 2.07 | 1.67 | | | | | | | | |
| 26 | 2.69 | 2.23 | 1.80 | | | | | | | | |
| 24 | 2.92 | 2.42 | 1.95 | | | | | | | | |
| 22 | 3.18 | 2.64 | 2.13 | | | | | | | | |
| 20 | 3.50 | 2.90 | 2.34 | | | | | | | | |
| 18 | 3.89 | 3.22 | 2.60 | | | | | | | | |
| 16 | 4.38 | 3.63 | 2.93 | | | | | | | | |
| 14 | 5.00 | 4.14 | 3.34 | | | | | | | | |
| 12 | 5.83 | 4.83 | 3.90 | | | | | | | | |
| 10 | 7.00 | 5.80 | 4.68 | | | | | | | | |
| 8 | 8.75 | 7.25 | 5.85 | | | | | | | | |
| 6 | 11.67 | 9.67 | 7.80 | | | | | | | | |

Note: Speed increase ratios are shown in bold type

# RELATED PRODUCTS

## TORQUE-ARM II Shaft Mount Speed Reducers

### Nominal Sheave Speed (RPM) At Input For Dodge Reducers - 1750 Motor

| Reducer Output RPM | 5:1 Nominal Reducer Ratio | Reducer Output RPM | 9:1 Nominal Reducer Ratio | Reducer Output RPM | 15:1 Nominal Reducer Ratio | Reducer Output RPM | 25:1 Nominal Reducer Ratio | Reducer Output RPM | 31:1, 32:1 and 33:1 Nominal Reducer Ratio | Reducer Output RPM | 40:1 Nominal Reducer Ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 400 | 2000 | 200 | 1800 | 120 | 1800 | 80 | 2000 | 50 | 1600 | 50 | 2000 |
| 395 | 1975 | 198 | 1782 | 118 | 1770 | 78 | 1950 | 48 | 1536 | 48 | 1920 |
| 390 | 1950 | 196 | 1764 | 116 | 1740 | 76 | 1900 | 46 | 1472 | 46 | 1840 |
| 385 | 1925 | 194 | 1746 | 114 | 1710 | 74 | 1850 | 44 | 1408 | 44 | 1760 |
| 380 | 1900 | 192 | 1728 | 112 | 1680 | 72 | 1800 | 42 | 1344 | 42 | 1680 |
| 375 | 1875 | 190 | 1710 | 110 | 1650 | 70 | 1750 | 40 | 1280 | 40 | 1600 |
| 370 | 1850 | 188 | 1692 | 108 | 1620 | 68 | 1700 | 38 | 1216 | 38 | 1520 |
| 365 | 1825 | 186 | 1674 | 106 | 1590 | 66 | 1650 | 36 | 1152 | 36 | 1440 |
| 360 | 1800 | 184 | 1656 | 104 | 1560 | 64 | 1600 | 34 | 1088 | 34 | 1360 |
| 355 | 1775 | 182 | 1638 | 102 | 1530 | 62 | 1550 | 32 | 1024 | 32 | 1280 |
| 350 | 1750 | 180 | 1620 | 100 | 1500 | 60 | 1500 | 30 | 960 | 30 | 1200 |
| 345 | 1725 | 178 | 1602 | 98 | 1470 | 58 | 1450 | 28 | 896 | 28 | 1120 |
| 340 | 1700 | 176 | 1584 | 96 | 1440 | 56 | 1400 | 26 | 832 | 26 | 1040 |
| 335 | 1675 | 174 | 1566 | 94 | 1410 | 54 | 1350 | 24 | 768 | 24 | 960 |
| 330 | 1650 | 172 | 1548 | 92 | 1380 | 52 | 1300 | 22 | 704 | 22 | 880 |
| 325 | 1625 | 170 | 1530 | 90 | 1350 | 50 | 1250 | 20 | 640 | 20 | 800 |
| 320 | 1600 | 168 | 1512 | 88 | 1320 | 48 | 1200 | 18 | 576 | 18 | 720 |
| 315 | 1575 | 166 | 1494 | 86 | 1290 | 46 | 1150 | 16 | 512 | 16 | 640 |
| 310 | 1550 | 164 | 1476 | 84 | 1260 | 44 | 1100 | 14 | 448 | 14 | 560 |
| 305 | 1525 | 162 | 1458 | 82 | 1230 | 42 | 1050 | 12 | 384 | 12 | 480 |
| 300 | 1500 | 160 | 1440 | 80 | 1200 | 40 | 1000 | 10 | 320 | 10 | 400 |
| 295 | 1475 | 158 | 1422 | 78 | 1170 | 38 | 950 | 8 | 256 | 8 | 320 |
| 290 | 1450 | 156 | 1404 | 76 | 1140 | 36 | 900 | 6 | 192 | 6 | 240 |
| 285 | 1425 | 154 | 1386 | 74 | 1110 | 34 | 850 | | | | |
| 280 | 1400 | 152 | 1368 | 72 | 1080 | 32 | 800 | | | | |
| 275 | 1375 | 150 | 1350 | 70 | 1050 | 30 | 750 | | | | |
| 270 | 1350 | 148 | 1332 | 68 | 1020 | 28 | 700 | | | | |
| 265 | 1325 | 146 | 1314 | 66 | 990 | 26 | 650 | | | | |
| 260 | 1300 | 144 | 1296 | 64 | 960 | 24 | 600 | | | | |
| 255 | 1275 | 142 | 1278 | 62 | 930 | 22 | 550 | | | | |
| 250 | 1250 | 140 | 1260 | 60 | 900 | 20 | 500 | | | | |
| 245 | 1225 | 138 | 1242 | 58 | 870 | 18 | 450 | | | | |
| 240 | 1200 | 136 | 1224 | 56 | 840 | 16 | 400 | | | | |
| 235 | 1175 | 134 | 1206 | 54 | 810 | 14 | 350 | | | | |
| 230 | 1150 | 132 | 1188 | 52 | 780 | 12 | 300 | | | | |
| 225 | 1125 | 130 | 1170 | 50 | 750 | 10 | 250 | | | | |
| 220 | 1100 | 128 | 1152 | 48 | 720 | 8 | 200 | | | | |
| 215 | 1075 | 126 | 1134 | 46 | 690 | 6 | 150 | | | | |
| 210 | 1050 | 124 | 1116 | 44 | 660 | | | | | | |
| 205 | 1025 | 122 | 1098 | 42 | 630 | | | | | | |
| 200 | 1000 | 120 | 1080 | 40 | 600 | | | | | | |
| 195 | 975 | 118 | 1062 | 38 | 570 | | | | | | |
| 190 | 950 | 116 | 1044 | 36 | 540 | | | | | | |
| 185 | 925 | 114 | 1026 | 34 | 510 | | | | | | |
| 180 | 900 | 112 | 1008 | 32 | 480 | | | | | | |
| 175 | 875 | 110 | 990 | 30 | 450 | | | | | | |
| 170 | 850 | 108 | 972 | 28 | 420 | | | | | | |
| 165 | 825 | 106 | 954 | 26 | 390 | | | | | | |
| 160 | 800 | 104 | 936 | 24 | 360 | | | | | | |
| 155 | 775 | 102 | 918 | 22 | 330 | | | | | | |
| 150 | 750 | 100 | 900 | 20 | 300 | | | | | | |
| 145 | 725 | | | 18 | 270 | | | | | | |
| 140 | 700 | | | 16 | 240 | | | | | | |
| 135 | 675 | | | 14 | 210 | | | | | | |
| 130 | 650 | | | 12 | 180 | | | | | | |
| 125 | 625 | | | 10 | 150 | | | | | | |
| 120 | 600 | | | | | | | | | | |
| 115 | 575 | | | | | | | | | | |
| 110 | 550 | | | | | | | | | | |
| 105 | 525 | | | | | | | | | | |
| 100 | 500 | | | | | | | | | | |

# TORQUE-ARM II Shaft Mount Speed Reducers

## Renewal Parts For TA II Reducers

### TORQUE-ARM II Bearing Kits (1)

| Size | Ratio | Kit P/N | Size | Ratio | Kit P/N |
|---|---|---|---|---|---|
| TA0107L | 5:1 | **900128** | TA6307H | 5:1 | **906128** |
| TA0107L | 9:1 - 40:1 | **900129** | TA6307H | 9:1 - 15:1 | **906129** |
| TA1107H | 5:1 | **901128** | TA6307H | 25:1 - 40:1 | **906130** |
| TA1107H | 9:1 - 15:1 | **901129** | TA7315H | 5:1 | **907128** |
| TA1107H | 25:1 - 40:1 | **901130** | TA7315H | 9:1 - 25:1 | **907129** |
| TA2115H | 5:1 | **902128** | TA7315H | 40:1 | **907130** |
| TA2115H | 9:1 - 25:1 | **902129** | TA8407H | 15:1 - 25:1 | **908129** |
| TA2115H | 40:1 | **902130** | TA8407H | 40:1 | **908130** |
| TA3203H | 5:1 | **903128** | TA9415H | 15:1 - 25:1 | **909129** |
| TA3203H | 9:1 - 25:1 | **903129** | TA9415H | 40:1 | **909130** |
| TA3203H | 40:1 | **903130** | TA10507H | 15:1 - 25:1 | **910129** |
| TA4207H | 5:1 | **904128** | TA10507H | 40:1 | **910130** |
| TA4207H | 9:1 - 25:1 | **904129** | TA12608H | 15:1 - 25:1 | **912129** |
| TA4207H | 40:1 | **904130** | TA12608H | 40:1 | **912130** |
| TA5215H | 5:1 | **905128** | | | |
| TA5215H | 9:1 - 15:1 | **905129** | | | |
| TA5215H | 25:1 | **905130** | | | |
| TA5215H | 40:1 | **905131** | | | |

(1) Kit contains complete set of bearings for reducer size and ratio indicated.

### TORQUE-ARM II Seal Kits (2)

| Size | Ratio | Kit P/N |
|---|---|---|
| TA0107L | All | **900126** |
| TA1107H | All | **901126** |
| TA2115H | 5:1 - 25:1 | **902126** |
| TA2115H | 40:1 | **902127** |
| TA3203H | 5:1-25:1 | **903126** |
| TA3203H | 40:1 | **903127** |
| TA4207H | All | **904126** |
| TA5215H | All | **905126** |
| TA6307H | All | **906126** |
| TA7315H | All | **907126** |
| TA8407H | All | **908126** |
| TA9415H | All | **909126** |
| TA10507 | All | **910126** |
| TA12608 | All | **912126** |

(2) Kit includes input & output seals, backstop cover gasket and RTV sealant for reducer size and ratio indicated

### TORQUE-ARM II Level 1 Rebuild Kits (3)

| Size | Ratio | Kit P/N | Size | Ratio | Kit P/N |
|---|---|---|---|---|---|
| TA0107L | 5:1 | **900135** | TA6307H | 5:1 | **906135** |
| TA0107L | 9:1 - 40:1 | **900136** | TA6307H | 9:1 - 15:1 | **906136** |
| TA1107H | 5:1 | **901135** | TA6307H | 25:1 - 40:1 | **906137** |
| TA1107H | 9:1 - 15:1 | **901136** | TA7315H | 5:1 | **907135** |
| TA1107H | 25:1 - 40:1 | **901137** | TA7315H | 9:1 - 25:1 | **907136** |
| TA2115H | 5:1 | **902135** | TA7315H | 40:1 | **907137** |
| TA2115H | 9:1 - 25:1 | **902136** | TA8407H | 15:1 - 25:1 | **908136** |
| TA2115H | 40:1 | **902137** | TA8407H | 40:1 | **908137** |
| TA3203H | 5:1 | **903135** | TA9415H | 15:1 - 25:1 | **909136** |
| TA3203H | 9:1 - 25:1 | **903136** | TA9415H | 40:1 | **909137** |
| TA3203H | 40:1 | **903137** | TA10507H | 15:1 - 25:1 | **910136** |
| TA4207H | 5:1 | **904135** | TA10507H | 40:1 | **910137** |
| TA4207H | 9:1 - 25:1 | **904136** | TA12608H | 15:1 - 25:1 | **912136** |
| TA4207H | 40:1 | **904137** | TA12608H | 40:1 | **912137** |
| TA5215H | 5:1 | **905135** | | | |
| TA5215H | 9:1 - 15:1 | **905136** | | | |
| TA5215H | 25:1 | **905137** | | | |
| TA5215H | 40:1 | **905138** | | | |

(3) Level 1 Rebuild Kit includes input & output seals, all bearings, shims and sealant for reducer size and ratio indicated. See Instruction Manual # MN1601 for gearing part numbers.

### TORQUE-ARM II Super Shim Kits (4)

| Size | Kit P/N |
|---|---|
| TA0107L | **900180** |
| TA1107H | **901180** |
| TA2115H | **902180** |
| TA3203H | **903180** |
| TA4207H | **904180** |
| TA5215H | **905180** |
| TA6307H | **906180** |
| TA7315H | **907180** |
| TA8407H | **908180** |
| TA9415H | **909180** |
| TA10507H | **910180** |
| TA12608H | **912180** |

(4) Kit contains complete set of shims for reducer size. TA II shims are not color coded.

# RENEWAL PARTS

## TORQUE-ARM II Shaft Mount Speed Reducers

### Renewal Parts For TA II Reducers

#### TORQUE-ARM II Lube Kits (5)

| Size | Kit P/N |
|---|---|
| TA0107L | **LUBEKITTA0107** |
| TA1107H | **LUBEKITTA1107** |
| TA2115H | **LUBEKITTA2115** |
| TA3203H | **LUBEKITTA3203** |
| TA4207H | **LUBEKITTA4207** |
| TA5215H | **LUBEKITTA5215** |
| TA6307H | **LUBEKITTA6307** |
| TA7315H | **LUBEKITTA7315** |
| TA8407H | **LUBEKITTA8407** |
| TA9415H | **LUBEKITTA9415** |
| TA10507H | **LUBEKITTA10507** |
| TA12608H | **LUBEKITTA12608** |

(5) Kit contains factory recommended mineral oil ISO220 in volumes sufficient for all recommended mounting positions.

#### TORQUE-ARM II Level 2 Rebuild Kits (6)

| Size | Ratio | Kit P/N |
|---|---|---|
| TA0107L | 5:1 | **9001355** |
| | 9:1 | **9001369** |
| | 15:1 | **90013615** |
| | 25:1 | **90013625** |
| | 40:1 | **90013640** |
| TA1107H | 5:1 | **9011355** |
| | 9:1 | **9011369** |
| | 15:1 | **90113615** |
| | 25:1 | **90113725** |
| | 40:1 | **90113740** |
| TA2115H | 5:1 | **9021355** |
| | 9:1 | **9021369** |
| | 15:1 | **90213615** |
| | 25:1 | **90213625** |
| | 40:1 | **90213740** |
| TA3203H | 5:1 | **9031355** |
| | 9:1 | **9031369** |
| | 15:1 | **90313615** |
| | 25:1 | **90313625** |
| | 40:1 | **90313740** |
| TA4207H | 5:1 | **9041355** |
| | 9:1 | **9041369** |
| | 15:1 | **90413615** |
| | 25:1 | **90413625** |
| | 40:1 | **90413740** |
| TA5215H | 5:1 | **9051355** |
| | 9:1 | **9051369** |
| | 15:1 | **90513615** |
| | 25:1 | **90513725** |
| | 40:1 | **90513840** |
| TA6307H | 5:1 | **9061355** |
| | 9:1 | **9061369** |
| | 15:1 | **90613615** |
| | 25:1 | **90613725** |
| | 40:1 | **90613740** |
| TA7315H | 5:1 | **9071355** |
| | 9:1 | **9071369** |
| | 15:1 | **90713615** |
| | 25:1 | **90713625** |
| | 40:1 | **90713740** |
| TA8407H | 15:1 | **90813615** |
| | 25:1 | **90813625** |
| | 40:1 | **90814740** |
| TA9415H | 15:1 | **90913615** |
| | 25:1 | **90913625** |
| | 40:1 | **90913740** |
| TA10507H | 15:1 | **91013615** |
| | 25:1 | **91013625** |
| | 40:1 | **91013740** |
| TA12608H | 15:1 | **91213615** |
| | 25:1 | **91213625** |
| | 40:1 | **91213740** |

(6) Level 2 Rebuild Kit includes all items in Level 1 Kit plus high speed input pinion and mating 1st stage gear. Provides maximum protection against downtime. Part number is Level 1 Kit part number + ratio.

# TORQUE-ARM II Shaft Mount Speed Reducers



### Table 1: NEMA Motor Information (1750 RPM)

| Horsepower | NEMA Motor Frame | Shaft Diameter |
|---|---|---|
| 1 | 143T | 7/8 |
| 1-1/2 | 145T | 7/8 |
| 2 | 145T | 7/8 |
| 3 | 182T | 1-1/8 |
| 5 | 184T | 1-1/8 |
| 7-1/2 | 213T | 1-3/8 |
| 10 | 215T | 1-3/8 |
| 15 | 254T | 1-5/8 |
| 20 | 256T | 1-5/8 |
| 25 | 284T | 1-7/8 |
| 30 | 286T | 1-7/8 |
| 40 | 324T | 2-1/8 |
| 50 | 326T | 2-1/8 |
| 60 | 364T | 2-3/8 |
| 75 | 365T | 2-3/8 |
| 100 | +405T | 2-7/8 |
| 125 | +444T | 3-3/8 |
| 150 | +445T | 3-3/8 |
| 200 | +447T | 3-3/8 |

+ Energy Efficient (TEFC-XE) Frame

### Table 2: TORQUE-ARM II Reducer Information

| TA II Reducer | Ratio | Input Shaft Diameter | Minimum Sheave Diameter |
|---|---|---|---|
| **TA0107L** | All | 1” | See Class I, II and III Selection Tables for minimum reducer sheave recommendations |
| **TA1107H** | All | 1” | |
| **TA2115H** | 5:1 - 25:1 | 1-1/8” | |
| | 33:1 | 1” | |
| **TA3203H** | 5:1 - 25:1 | 1-3/8” | |
| | 32:1 | 1-1/8” | |
| **TA4207H** | All | 1-7/16” | |
| **TA5215H** | All | 1-5/8” | |
| **TA6307H** | All | 2-3/16” | |
| **TA7315H** | All | 2-7/16” | |
| **TA8407H** | All | 2-7/16” | |
| **TA9415H** | All | 2-7/16” | |
| **TA10507H** | All | 2-11/16” | |
| **TA12608H** | All | 2-11/16” | |

### Table 3: TORQUE-ARM II Backstop Lift-off Speed (1)

| TA II Reducer | Minimum Input Shaft RPM |
|---|---|
| **TA0107L** | 875 |
| **TA1107H** | 875 |
| **TA2115H** | 875 |
| **TA3203H** | 825 |
| **TA4207H** | 780 |
| **TA5215H** | 720 |
| **TA6307H** | 610 |
| **TA7315H** | 490 |
| **TA8407H** | 610 |
| **TA9415H** | 490 |
| **TA10507H** | 480 |
| **TA12608H** | 450 |

(1) For best results, select reducer ratios which exceed input shaft speeds required for backstop sprag lift-off.

# TORQUE-ARM II Shaft Mount Speed Reducers

## Maximum Input Speed - RPM

| Case Size | Nominal Ratio | | | | |
|---|---|---|---|---|---|
| | 05 | 09 | 15 | 25 | 32/40 |
| TA0107L | 2080 | 1800 | 1791 | 2007 | 1750 |
| TA1107H | 2000 | 1798 | 1789 | 2005 | 1750 |
| TA2115H | 2080 | 1821 | 1874 | 2005 | 1750 |
| TA3203H | 1965 | 1847 | 1808 | 1996 | 1750 |
| TA4207H | 2000 | 1846 | 1800 | 2010 | 1955 |
| TA5215H | 2042 | 1837 | 1791 | 2000 | 1945 |
| TA6307H | 1978 | 1843 | 1854 | 1989 | 1916 |
| TA7315H | 2075 | 1943 | 1790 | 1987 | 1983 |
| TA8407H | N/A | N/A | 1814 | 1997 | 1983 |
| TA9415H | N/A | N/A | 1812 | 2035 | 1970 |
| TA10507H | N/A | N/A | 1811 | 2015 | 1984 |
| TA12608H | N/A | N/A | 1775 | 2002 | 1909 |

## Maximum Output Speed - RPM

| Case Size | Nominal Ratio | | | | |
|---|---|---|---|---|---|
| | 05 | 09 | 15 | 25 | 32/40 |
| TA0107L | 400 | 200 | 120 | 80 | 57 |
| TA1107H | 400 | 200 | 120 | 80 | 57 |
| TA2115H | 400 | 200 | 120 | 80 | 53 |
| TA3203H | 400 | 200 | 120 | 80 | 54 |
| TA4207H | 400 | 200 | 120 | 80 | 50 |
| TA5215H | 400 | 200 | 120 | 80 | 50 |
| TA6307H | 400 | 200 | 120 | 80 | 50 |
| TA7315H | 400 | 200 | 120 | 80 | 50 |
| TA8407H | N/A | N/A | 120 | 80 | 50 |
| TA9415H | N/A | N/A | 120 | 80 | 50 |
| TA10507H | N/A | N/A | 120 | 80 | 50 |
| TA12608H | N/A | N/A | 120 | 80 | 50 |

# TORQUE-ARM II Shaft Mount Speed Reducers

## Thrust Capacity for Screw Conveyor Drives (Pounds)

| Case Size | Output Speed (RPM) Single Reduction Reducers (05:1) | | | | | | |
|---|---|---|---|---|---|---|---|
| | 100 | 150 | 200 | 250 | 300 | 350 | 400 |
| TA0107L | 2568 | 2288 | 2092 | 2000 | 1922 | 1855 | 1798 |
| TA1107H | 3106 | 2835 | 2626 | 2505 | 2396 | 2309 | 2232 |
| TA2115H | 5373 | 4771 | 4417 | 4186 | 4015 | 3885 | 3785 |
| TA3203H | 6000 | 5834 | 5387 | 5053 | 4783 | 4561 | 4386 |
| TA4207H | 6000 | 6000 | 6000 | 6000 | 6000 | 5776 | 5570 |
| TA5215H | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 |
| TA6307H | 6000 | 5803 | 5374 | 5202 | 4977 | 4807 | 4737 |
| TA7315H | † | † | † | † | † | † | † |

## Thrust Capacity for Screw Conveyor Drives (Pounds)

| Case Size | Output Speed (RPM) Double Reduction Reducers (09:1 thru 40:1) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 10 | 25 | 50 | 75 | 100 | 125 | 150 | 175 | 200 |
| TA0107L | 5300 | 4028 | 3141 | 2730 | 2465 | 2281 | 2165 | 2071 | 1989 |
| TA1107H | 6000 | 4833 | 3705 | 3196 | 2865 | 2639 | 2568 | 2438 | 2315 |
| TA2115H | 6000 | 6000 | 6000 | 5323 | 4850 | 4550 | 4295 | 4086 | 3924 |
| TA3203H | 6000 | 6000 | 6000 | 6000 | 5761 | 5328 | 5020 | 4813 | 4636 |
| TA4207H | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 |
| TA5215H | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 |
| TA6307H | 6000 | 6000 | 6000 | 5885 | 5185 | 4706 | 4435 | 4303 | 4269 |
| TA7315H | † | † | † | † | † | † | † | † | † |

† Consult DODGE

# TORQUE-ARM II Shaft Mount Speed Reducers

## Lubrication Of TORQUE-ARM II Reducers

**CAUTION:** Unit is shipped without oil. Add proper amount of rust and oxidation inhibited (R & O) gear oil before operating. Follow instructions on reducer warning tags and in the instruction manual. Failure to observe these precautions could result in damage to, or destruction of, the equipment.

**WARNING:** To ensure that drive is not unexpectedly started, turn off and lock out or tag power source before proceeding. Remove all external loads from drive before removing or servicing drive or accessories. Failure to observe these precautions could result in bodily injury.

Lubrication is extremely important for satisfactory operation. The proper oil level as shown in Table 3 on page G1-134, showing oil level plug location, must be maintained at all times. Approximate oil quantities are shown in Table 4 on page G1-135. Frequent inspections with the unit not running and allowing sufficient time for the oil to cool and the entrapped air to settle out of the oil should be made by removing the level plug to see that the level is being maintained. If low, add the proper type and viscosity of lubricant through one of the upper openings until it comes out of the oil level hole. Replace the oil level plug securely. Refer to Tables 1 and 2 for viscosity recommendations.

After an initial operation of about two weeks, the oil should be changed. If desired, this oil may be filtered and reused. Very often, small metal particles will show up in the oil due to the wearing process. After the initial break in period, the lubricant should be drained, magnetic drain plug cleaned, gear case flushed and refilled every 2500 hours of operation under average industrial operating conditions.

**CAUTION:** Too much oil will cause overheating and too little will result in gear failure. Check oil level regularly.

More frequent oil changes are recommended when operating continuously or at high temperatures or under conditions of extreme dirt or dust. Use only recommended grades of lubricant listed on next page, or equivalent. Special attention should be given to checking of lubricants when any of the following conditions exist:

- High operating temperatures resulting from heavy intermittent loads causes the temperature of the gear case to rise rapidly and then cool
- Unusual ambient conditions, which may tend to cause condensation on the inside of the gearcase thereby contaminating the oil
- Operating temperatures that would cause oil to approach 200°F continually
- Subjection of reducer to unusual vapors or moist atmosphere
- Subjection of reducer to extremely dusty or dirty environment

Under these extreme operating conditions, the oil should be changed every 1 to 3 months depending on severity of conditions.

### Operating Temperatures

Heating is a natural characteristic of enclosed gearing, and a maximum gear case temperature approaching 200°F is not uncommon for some units operating in normal ambient temperatures (80°F). When operating at rated capacity, no damage will result from this temperature as this was taken into consideration in the design of the gear case and in the selection of the lubricants.

# TORQUE-ARM II Shaft Mount Speed Reducers

## Lubrication Of TORQUE-ARM II Reducers (Cont'd)

### Table 1 – Oil Recommendations

### ISO Grades For Ambient Temperatures of 50°F to 125°F

| Output RPM | Torque-Arm II Reducer Size | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TA0107L | TA1107H | TA2115H | TA3203H | TA4207H | TA5215H | TA6307H | TA7315H | TA8407H | TA9415H | TA10507H | TA12608H |
| 301 – 400 | 320 | 320 | 320 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 |
| 201 – 300 | 320 | 320 | 320 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 |
| 151 – 200 | 320 | 320 | 320 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 |
| 126 – 150 | 320 | 320 | 320 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 |
| 101 – 125 | 320 | 320 | 320 | 320 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 |
| 81 – 100 | 320 | 320 | 320 | 320 | 320 | 220 | 220 | 220 | 220 | 220 | 220 | 220 |
| 41 – 80 | 320 | 320 | 320 | 320 | 320 | 220 | 220 | 220 | 220 | 220 | 220 | 220 |
| 11 – 40 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 220 | 220 |
| 1 – 10 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 |

### Table 2 – Oil Recommendations

### ISO Grades For Ambient Temperatures of 15°F to 60°F

| Output RPM | Torque-Arm II Reducer Size | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TA0107L | TA1107H | TA2115H | TA3203H | TA4207H | TA5215H | TA6307H | TA7315H | TA8407H | TA9415H | TA10507H | TA12608H |
| 301 – 400 | 220 | 220 | 220 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 |
| 201 – 300 | 220 | 220 | 220 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 |
| 151 – 200 | 220 | 220 | 220 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 |
| 126 – 150 | 220 | 220 | 220 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 |
| 101 – 125 | 220 | 220 | 220 | 220 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 |
| 81 – 100 | 220 | 220 | 220 | 220 | 220 | 150 | 150 | 150 | 150 | 150 | 150 | 150 |
| 41 – 80 | 220 | 220 | 220 | 220 | 220 | 150 | 150 | 150 | 150 | 150 | 150 | 150 |
| 11 – 40 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 150 | 150 |
| 1 – 10 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 |

**NOTES:**

1. Assumes auxiliary cooling where recommended in the catalog.
2. Pour point of lubricant selected should be at least 10°F lower than expected minimum ambient starting temperature.
3. Extreme pressure (EP) lubricates are not necessary for average operating conditions. When properly selected for specific applications, TORQUE-ARM II backstops are suitable for use with EP lubricants.
4. Special lubricants may be required for food and drug industry applications where contact with the product being manufactured may occur.

   Consult a lubrication manufacturer's representative for his recommendations.
5. For reducers operating in ambient temperatures between -22°F (-30°C) and 20°F (–6.6°C) use a synthetic hydrocarbon lubricant, 100 ISO grade or AGMA 3 grade (for example, Mobil SHC627). Above 125°F (51°C), consult DODGE Gear Application Engineering (864) 284-5700 for lubrication recommendation.
6. Mobil SHC630 Series oil is recommended for high ambient temperatures.

# TORQUE-ARM II Shaft Mount Speed Reducers

## Lubrication Of TORQUE-ARM II Reducers (Cont'd)

**Lubricant Grade Equivalents***

| ISO | AGMA |
|---|---|
| 150 | 4 |
| 220 | 5 |
| 320 | 6 |

* See page G1-135 for complete lubricant interchange chart

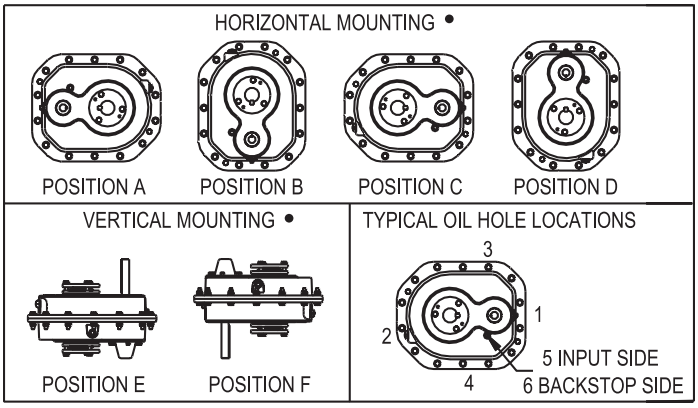
### INSTALLATION

Horizontal Installations - Install the magnetic drain plug in the hole closest to the bottom of the reducer. Throw away the tape that covers the filter/ventilation plug in shipment and install plug in topmost hole. Of the 2 remaining plugs on the sides of the reducer, the lowest one is the minimum oil level plug.

Vertical Installations - Install the filter/ventilation plug in the hole provided in the upper face of the reducer housing as installed. If space is restricted on the upper face, install the vent in the highest hole on the side of the reducer per Figure 1. Install a plug in the hole in the bottom face of the reducer. Do not use this hole for the magnetic drain plug. Of the remaining holes on the sides of the reducer, use the plug in the upper housing half for the minimum oil level plug.

**Mounting Position** - The running position of the reducer in the horizontal application is not limited to the four positions shown in Figure 1. However, if the running position is over 20° off of position "B" or "D" or 5° off of position "A" or "C", either way from the sketches, the oil level plug cannot be used to safely check the oil level, unless during the checking, the torque arm is disconnected and the reducer is swung to within 20° for position "A" and "C" or 5° for position "B" and D" of the positions shown in Figure 1. Because of the many possible positions, of the reducer, it may be necessary or desirable to make special adaptations using the lubrication filling holes furnished along with other standard pipe fittings, stand pipes and oil level gauges as required.

**Figure 1**




• Below 15 RPM output speed, oil level must be adjusted to reach the highest oil level plug. If reducer position is to vary from those shown in Figure 1, either more or less oil may be required. Consult DODGE.

# TORQUE-ARM II Shaft Mount Speed Reducers

## Lubrication Of TORQUE-ARM II Reducers (Cont'd)

### Table 3 - Vent and Plug Locations (See Figure 1, page G1-133)

| Mounting Position | Output Speed Above 15 RPM | | | | | | Output Speed 15 RPM and Below ● | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Vent and Plug Locations | | | | | | Vent and Plug Locations | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 1 | 2 | 3 | 4 | 5 | 6 |
| **Position A** | Level | Plug | Drain | Vent | Plug | Plug | Plug | Level | Drain | Vent | Plug | Plug |
| **Position B** | Drain | Vent | Level | Plug | Plug | Plug | Drain | Vent | Plug | Level | Plug | Plug |
| **Position C** | Plug | Level | Vent | Drain | Plug | Plug | Level | Plug | Vent | Drain | Plug | Plug |
| **Position D** | Vent | Drain | Level | Plug | Plug | Plug | Vent | Drain | Level | Plug | Plug | Plug |
| **Position E** | Level | * Plug | Plug | Drain | Vent | Plug | Level | * Plug | Plug | Drain | Vent | Plug |
| **Position F** | Plug | Drain | Level | * Plug | Plug | Vent | Plug | Drain | Level | * Plug | Plug | Vent |

* Where space constraints prevent installing the breather in vent locations 5 or 6, install vent in this location and order a vertical breather kit

● Below 15 RPM output speed, oil level must be adjusted to reach the highest oil level plug. If reducer position is to vary from those shown in Figure 1, either more or less oil may be required. Consult DODGE.

| RECOMMENDED LUBRICANTS FOR TORQUE-ARM II REDUCERS + | | | | |
|---|---|---|---|---|
| | Standard Oils | | EP Oils | |
| **EXXON** | | | | |
| 150 | Teresstic | 150 | Spartan EP | 150 |
| 220 | | 220 | | 220 |
| 320 | | 320 | | 320 |
| **CHEVRON** | | | | |
| 150 | Machine | 150 | Gear Compound | 150 |
| 220 | | 220 | EP | 220 |
| 320 | | 320 | | 320 |
| **UNICAL** | | | | |
| 150 | Turbine Oil | 150 | Extra Duty HL | 141 |
| 220 | | 220 | Gear Lube | 207 |
| 320 | | 320 | | 300 |
| **MOBIL SYNTHETIC** | | | | |
| 150 | SHC | 629 | SHC | 629 |
| 220 | SHC | 630 | SHC | 630 |
| 320 | SHC | 632 | SHC | 632 |
| **MOBIL** | | | | |
| 150 | Mobil DTE | BB | Mobil Gear | 629 |
| 220 | Extra Heavy | AA | | 630 |
| 320 | | | | 632 |
| **TEXACO** | | | | |
| 150 | Regal Oil R&O | 150 | Meropa | 150 |
| 220 | | 220 | | 220 |
| 320 | | 320 | | 320 |
| **SHELL** | | | | |
| 150 | Morlina Oil | 150 | Omala | 150 |
| 220 | | 220 | | 220 |
| 320 | | 320 | | 320 |

+ Partial list. Consult DODGE or a lubricant manufacturer for further options

# TORQUE-ARM II Shaft Mount Speed Reducers

## Lubrication Of TORQUE-ARM II Reducers (Cont'd)

### Table 4 - Oil Volumes

| Case Size | Ratios | Oil Volume in Quarts †■▲● | | | | | | Oil Volume in Liters †■▲● | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Horizontal | | | | Vertical | | Horizontal | | | | Vertical | |
| | | A | B | C | D | E (Up) | F (Down) | A | B | C | D | E (Up) | F (Down) |
| TA0107L | Single | 0.7 | 0.5 | 0.7 | 1.4 | 1.3 | 1.5 | 0.6 | 0.5 | 0.6 | 1.3 | 1.2 | 1.4 |
| | Doubles | 0.7 | 0.5 | 0.6 | 1.3 | 1.2 | 1.4 | 0.6 | 0.5 | 0.6 | 1.3 | 1.2 | 1.3 |
| TA1107H | Single | 1.3 | 0.7 | 0.7 | 1.7 | 1.5 | 1.9 | 1.3 | 0.7 | 0.6 | 1.6 | 1.4 | 1.8 |
| | Doubles | 1.3 | 0.7 | 0.6 | 1.7 | 1.5 | 1.9 | 1.3 | 0.7 | 0.6 | 1.6 | 1.4 | 1.8 |
| TA2115H | Single | 2.1 | 1.2 | 1.1 | 2.7 | 2.3 | 3.1 | 2.0 | 1.2 | 1.0 | 2.5 | 2.2 | 2.9 |
| | Doubles | 2.1 | 1.1 | 1.0 | 2.6 | 2.4 | 3.0 | 2.0 | 1.1 | 1.0 | 2.5 | 2.3 | 2.8 |
| TA3203H | Single | 2.8 | 1.6 | 1.8 | 4.1 | 3.3 | 4.4 | 2.7 | 1.6 | 1.7 | 3.9 | 3.1 | 4.2 |
| | Doubles | 2.8 | 1.5 | 1.7 | 4.0 | 3.4 | 4.2 | 2.7 | 1.4 | 1.6 | 3.8 | 3.3 | 4.0 |
| TA4207H | Single | 4.4 | 2.6 | 2.9 | 7.4 | 6.3 | 7.8 | 4.2 | 2.5 | 2.8 | 7.0 | 6.0 | 7.3 |
| | Doubles | 4.4 | 2.5 | 2.8 | 7.3 | 6.4 | 7.5 | 4.2 | 2.4 | 2.6 | 6.9 | 6.0 | 7.1 |
| TA5215H | Single | 7.4 | 4.9 | 5.8 | 13.2 | 11.6 | 13.1 | 7.0 | 4.7 | 5.5 | 12.5 | 11.0 | 12.4 |
| | Doubles | 7.4 | 4.7 | 5.5 | 12.9 | 11.4 | 12.6 | 7.0 | 4.4 | 5.2 | 12.2 | 10.8 | 11.9 |
| TA6307H | Single | 8.8 | 5.8 | 6.6 | 16.1 | 13.2 | 16.1 | 8.4 | 5.5 | 6.2 | 15.3 | 12.5 | 15.3 |
| | Doubles | 8.8 | 5.5 | 6.2 | 15.8 | 13.9 | 15.3 | 8.4 | 5.2 | 5.9 | 15.0 | 13.1 | 14.5 |
| TA7315H | Single | 8.4 | 11.8 | 13.9 | 22.5 | 22.1 | 25.1 | 8.0 | 11.1 | 13.2 | 21.3 | 20.9 | 23.7 |
| | Doubles | 8.4 | 10.8 | 13.2 | 22.0 | 22.4 | 23.1 | 8.0 | 10.3 | 12.5 | 20.9 | 21.2 | 21.8 |
| TA8407H | Doubles | 7.7 | 11.7 | 13.7 | 25.1 | 24.0 | 25.8 | 7.3 | 11.1 | 12.9 | 23.8 | 22.7 | 24.4 |
| TA9415H | Doubles | 17.0 | 16.8 | 18.1 | 33.2 | 33.2 | 38.6 | 16.1 | 15.9 | 17.1 | 31.4 | 31.4 | 36.5 |
| TA10507H | Doubles | 38.0 | 27.6 | 25.8 | 53.5 | 53.8 | 56.1 | 36.0 | 26.1 | 24.4 | 50.6 | 50.9 | 53.0 |
| TA12608H | Doubles | 53.0 | 41.5 | 37.1 | 70.7 | 72.2 | 80.4 | 50.2 | 39.3 | 35.1 | 66.9 | 68.3 | 76.1 |

■ Oil quantity is approximate. Service with lubricant until oil runs out of oil level hole

† Refer to Figure 1 for mounting positions

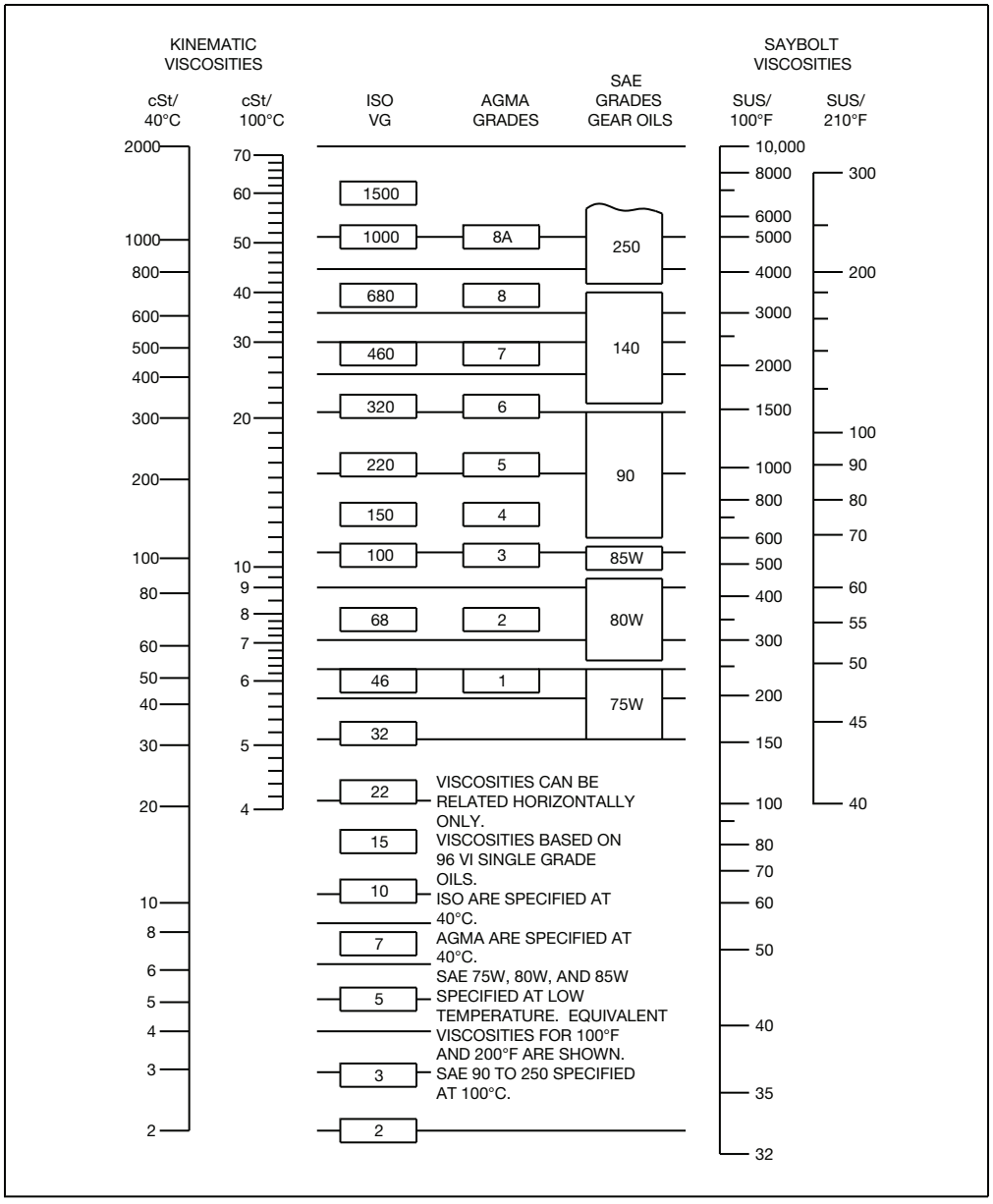
▲ US measure: 1 quart = 32 fluid ounces =.94646 liters

● Below 15 RPM output speed, oil level must be adjusted to reach the highest oil level plug. If reducer position is to vary from those shown in Figure 1, either more or less oil may be required. Consult DODGE.

# TORQUE-ARM II Shaft Mount Speed Reducers

**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 40C. 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 1005F is known can be determined by using the following conversion formula:

**SUS @ 100ºF ÷ 5 = cSt @ 40°C**

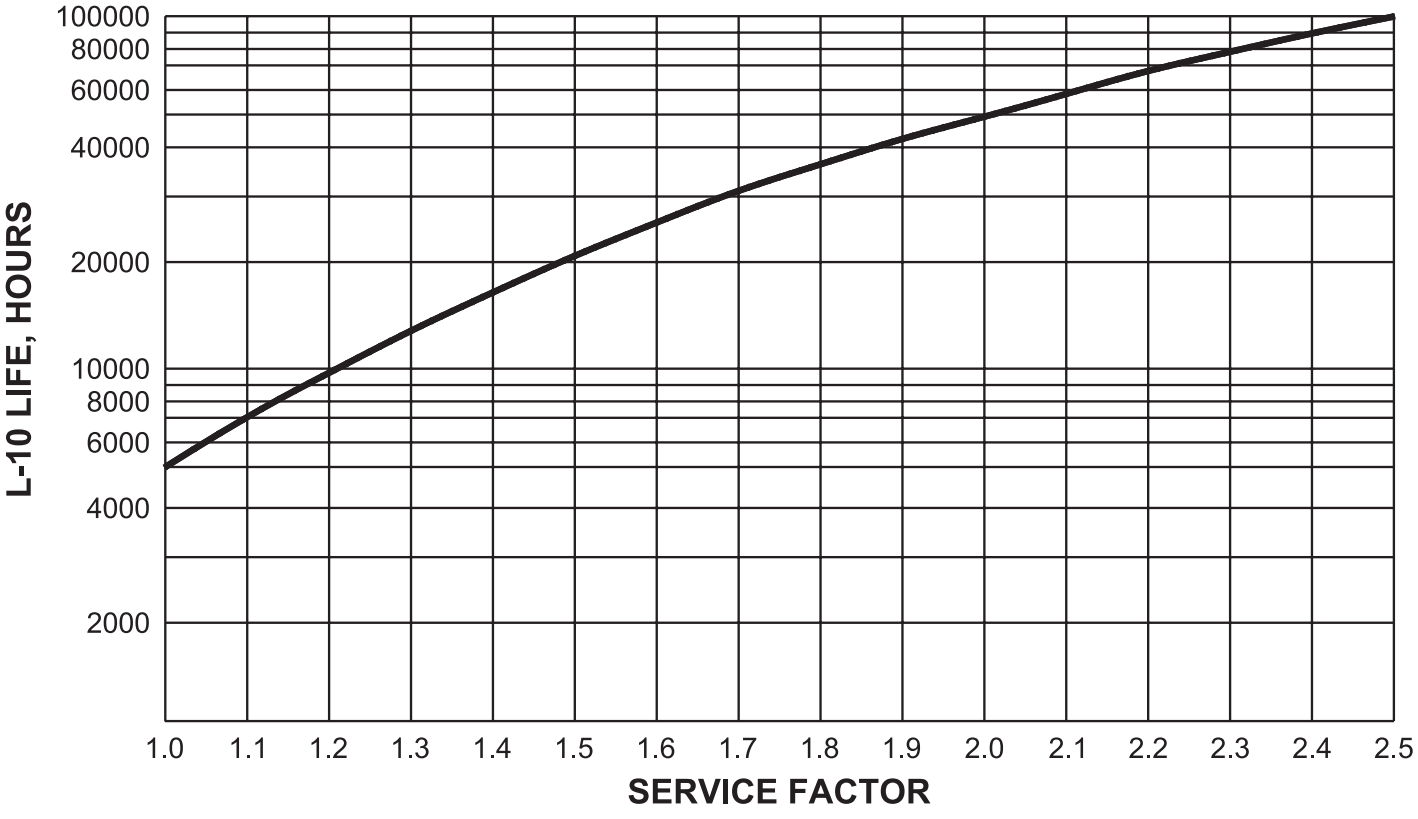
# TORQUE-ARM II Shaft Mount Speed Reducers

## Bearing L-10 Life As A Function Of Service Factor - AGMA Standard 6009-A00

DODGE TORQUE-ARM II Reducers are designed to provide a minimum L-10 bearing life of 5,000 hours for the most severe operating conditions. Since the probability of all maximum load conditions occurring in an application is remote, the actual L-10 life of an application is much greater.

Remember, the L-50 average life would be approximately 25,000 hours.

The graph illustrates how bearing life varies with different service factors. For example, a DODGE TORQUE-ARM II TA3203H Reducer with a 2.0 service factor has over 50,000 hours L-10 life.




**1.0 Service Factor = 5,000 hours L-10 bearing life, 25,000 L-50 hours**
**1.4 Service Factor = 15,300 hours L-10 bearing life, 76,500 L-50 hours**
**2.0 Service Factor = 50,300 hours L-10 bearing life, 251,500 L-50 hours**

**NOTE: Average bearing life (L-50) is typically 5 times L-10 bearing life**