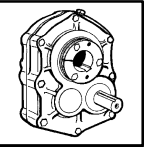


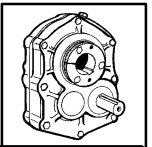
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FEATURES/BENEFITS

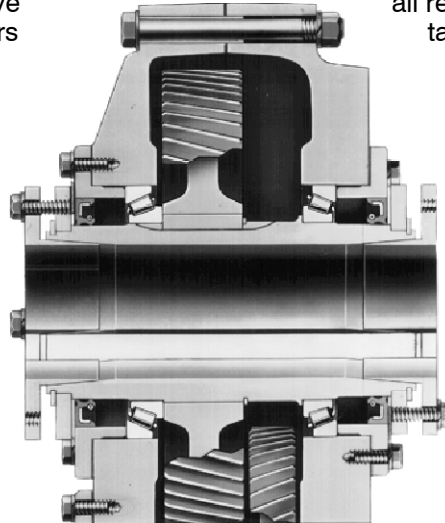


TORQUE-ARM Shaft Mount Speed Reducers

DODGE TORQUE-ARM TWIN TAPERED BUSHINGS MAKE DODGE TORQUE-ARM THE LEADER

DODGE Twin Tapered Bushings have provided customers over fifteen years of reliable and proven service. This exclusive feature revolutionized the shaft mount reducer concept and insured that TORQUE-ARM Speed Reducers would not seize to the customer's driven shaft. Another first from DODGE, the supplier of industry preferred quality speed reducers.

TORQUE-ARM Speed Reducers provide positive, easy-on, easy-off mounting for



all reducer sizes from fractional to 700 HP. A tapered bore in both sides of the reducer's output hub snugs up against a matching taper on the outer surface of the bushing . . . Twin Tapered.

Bushing mounting screws pass through the bushing flange into a mounting collar on the hub. As the screws are tightened, the bushing moves inward, gripping the driven machine's input shaft tightly and evenly around its circumference.

Balanced design adds up to quality and long life.

You can now realize significant cost savings with the new TXT TORQUE-ARM Speed Reducer. And here's how:

- TXT reducers now have increased horsepower ratings which may allow you to use a smaller TORQUE-ARM reducer, while receiving the same torque at the output shaft.
- The reducer mounts directly on the driven shaft, eliminating the need for a coupling or chain drive, sliding motor base, and support structure. There's no alignment problem.
- **TXT reducers incorporate standard DODGE features**
 - Ratios up to 210:1.
 - Capacities fractional to 700 HP
 - Output speeds through 400 rpm.
 - Trouble-free maintenance.
 - Up-front installation savings.
 - Quality proven design.
 - Easier, more accurate drive alignment.

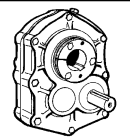
- **Rugged, cast-iron housing.**
Cast, corrosion-resistant gray and ductile iron housings are precision machined for positive gear alignment. Rugged housing construction provides strong, rigid support for bearings and gearing. Additionally, internal rib design helps channel oil to all bearings for superior lubrication.
- **Efficient helical gear tooth design** produces an efficiency rating of 98.5% per gear set. Gear teeth feature a softer core to resist shock loads, combined with a case carburized surface for maximum wear resistance. Precision crown shaving produces an elliptoid tooth shape, so that teeth mesh at the stronger center area eliminating end loading. The result: uniform load distribution with no tooth-end wear.

- **Double-lip seals.**
Metallic double-lip seals keep lubricating oil in, lock dirt and contaminants out. The cavity between the inner and outer lips is filled with grease at assembly to prelubricate the seal. A garter spring exerts a constant, gentle pressure at every point around the circumference of the shaft to insure a positive seal. All seals ride on precision ground surfaces for maximum life.
- **Dependable performance.**
All DODGE TORQUE-ARM speed reducers are 100% factory noise and leak tested to assure long life and trouble-free service.
- **DODGE has a TORQUE-ARM reducer for every application.**

And all this adds up to more savings for you! The TXT reducer—the best package available to meet tough industrial requirements.

It's easy to see why DODGE TORQUE-ARM is America's #1 Shaft Mounted Speed Reducer.

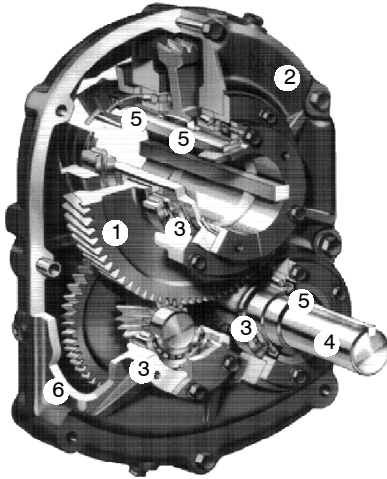
FEATURES/BENEFITS



TORQUE-ARM Shaft Mount Speed Reducers

DODGE TORQUE-ARM

THE COMPLETE SHAFT MOUNT SPEED REDUCER SYSTEM



DODGE TORQUE-ARM IS AMERICA'S LEADING SHAFT-MOUNT REDUCER BECAUSE:

- Experience—over 1,500,000 sold.
- Delivery—nearly 5,000 reducers and 20,000 accessories in stock.
- Quality—warranties of less than 1/2% of sales.
- Customer Preferred—over 35 years of proven experience.
- Twin Tapered Bushings—reliable installation and removal.
- Performance Capability—applications through 700 HP.
- Product Configurations—TORQUE-ARM, Screw Conveyor and HYDROIL.
- Accessory Package—motor mount, backstop, bushings and auxiliary seals.

PRECISION HIGH QUALITY GEARING

- Computer Designed Helical Gears
- 98.5% Efficiency Per Gear Stage
- Case Carburized for Long Life
- Strong Alloy Materials for High Load Capacity
- Crown Shaved Gear Tooth Profile for Even Load Distribution
- Smooth Quiet Operation with Several Teeth in Mesh
- Designed in Conformance with AGMA

1.

MAXIMUM CAPACITY HOUSING DESIGN

- Rugged Cast Iron and Ductile Iron
- Rigid Bearing Support and Positive Gear Alignment
- High Corrosion Resistance
- Excellent Vibration Dampening & Shock Resistance Features
- 100% Magnaflux Inspection of All Castings

2.

RELIABLE ANTI-FRICTION BEARINGS

- Anti-friction Bearing Manufacturers Association Bearing Ratings
- Combination Ball & Tapered Roller Designs
- Straddle Mounted Gears for Optimum Support
- High Thrust Capacity Screw Conveyor Drive Bearings

3.

STRONG SHAFTS FOR SUPPORT

- Precision-Machined & Hardened for Maximum Load
- High Alloy Steel for Maximum Torsional Loads
- Generous Size Shaft Keys for Shock Loading
- Press or Heat-Shrunk Design for Total Reliability

4.

PROVEN SEALS KEEP OIL IN AND CONTAMINANTS OUT

- Double Lip Spring-Loaded Construction
- Metal Reinforcement for Strength
- Broad Operating Range of -20°F to 225°F
- 100% Factory-Tested Before Shipment
- Smooth Ground Shaft Surfaces for Maximum Life
- Seal Kits Available for All Reducer Sizes

5.

EFFICIENT SPLASH LUBRICATION SYSTEM

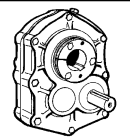
- Generous Oil Sump for Lubricating All Gears & Bearings
- Standard Gear Petroleum Lubricants Are Suitable
- Multiple Oil Plugs for Total Mounting Flexibility
- Three-Part Air Breather with Reliable Oil Baffle
- Magnetic Drain Plug for Protection

6.

DODGE has been the leader as a shaft mounted reducer manufacturer for over 40 years. Since our start in 1949, we have developed thousands of satisfied customers. The TORQUE-ARM success is due to initial design and rating conservatism and a rigid quality control program. We have recently tabulated the quantity of reducers sold. This has resulted in the kind of quality and dependability that's proven by one of the lowest percentage replacement rates in the industry—and that's with more than **one million** units sold.

Design features built into every shaft mounted TORQUE-ARM reducer are presented in this bulletin. Remember, a speed reducer is a complete system of balanced, high quality components.

Our success as a manufacturer begins with our design features and extends to our rigid quality program which provides the highest quality and dependability that customers have grown to expect from DODGE. The TORQUE-ARM shaft mounted reducer line, consisting of many sizes and types and with capacities from fractional through 700 HP, is available from our factory warehouse stock, branch warehouse stocks, and authorized distributors located throughout the United States. No other manufacturer in the world can claim this type of coverage and back-up assistance for their products and customer.



FEATURES/BENEFITS

TORQUE-ARM Shaft Mount Speed Reducers

DODGE TORQUE-ARM ACCESSORIES

TAPERED BUSHING ASSEMBLIES

Securely mounts Taper Bushed Reducer to driven shaft



FEATURES

- Twin Bushings
- Full Length Shaft Key
- Flanged Bushing Mount
- Removal Screws
- Fully Split Bushings
- Ductile Iron
- No Setscrews
- Clamp Fit

BENEFITS

- Reliably supports both sides of reducer.
- Maximum torque & shock load capability.
- Fast & simple installation.
- Reliable demount of reducer.
- Eliminates fretting & seizing problems.
- Strong, shock resistant bushings.
- Eliminates driven shaft damage.
- Reduces wobble & fits undersized shafts.

STRAIGHT BORE BUSHING ASSEMBLIES

Accommodate less than maximum bore straight bore reducer applications



FEATURES

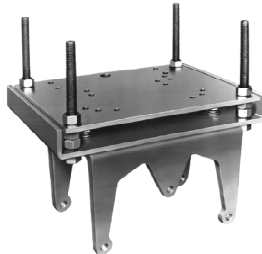
- Steel or Ductile Iron
- Two Bushings
- Mount in Reducer Bore
- Original Design

BENEFITS

- High load capacity.
- Locking setscrews on both sides of reducer.
- Suitable for shorter driven shafts.
- Equivalent to most competitive reducers.

MOTOR MOUNTS

Provide a compact and economical method of mounting electric motors on TORQUE-ARM Reducers



FEATURES

- All-Steel Construction
- Compactness
- Adjustable Top Plate
- Pre-Drilled
- Economical
- Flexible Mounting
- Interchangeability

BENEFITS

- Rigid motor support.
- Eliminates separate motor bases.
- Fast & easy belt tensioning.
- Accommodates standard NEMA Motors.
- Low cost & eliminates alignment problems.
- Pre-drilled for belt guard attachment.
- Also fits screw conveyor drives.

AUXILIARY SEAL KITS

Provide extra sealing on Taper Bushed Reducers



FEATURES

- Labyrinth Seals
- Economical
- Simple Installation
- Lubrication Fittings
- Air Breather

BENEFITS

- Protection from dust, dirt, & moisture.
- Low cost reducer protection.
- No drilling required on Sizes TXT 6 & larger.
- Can be grease purged for protection.
- Filtered air breather included.

BACKSTOPS

Prevents reverse of shaft direction



FEATURES

- Quick Installation
- Internally Mounted
- Oil Lubricated
- Long Life
- Keyed to Reducer
- Reversible

BENEFITS

- Fits input shaft of all TORQUE-ARM Reducers
- Sealed inside reducer for protection.
- No external relubrication required.
- Case hardened, shock resistant sprags.
- High load capacity.
- Suitable for either direction of rotation.

TORQUE-ARM BELT GUARDS

Enclose and Protect Belt Drive



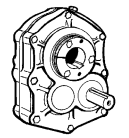
FEATURES

- Slotted metal panel construction
- Yellow Paint
- Mounting Hardware
- Assembles to Reducer and Motor Mount Holes
- Flexibility

CUSTOMER BENEFITS

- Light weight, ventilated
- Meets safety requirements
- Quick easy assembly
- No machining needed
- One size fits most common sheave diameters

FEATURES/BENEFITS



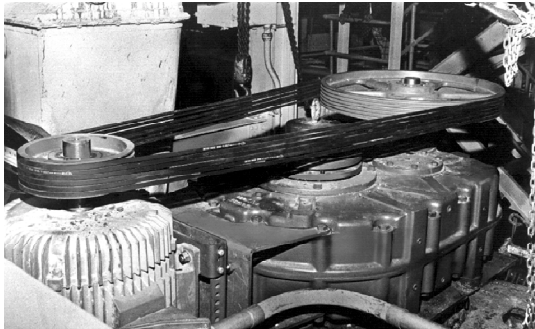
TORQUE-ARM Shaft Mount Speed Reducers

APPLICATION FLEXIBILITY

Typical DODGE TORQUE-ARM Reducer Installations

VERTICAL SHAFT APPLICATION

DODGE TORQUE-ARM TWIN TAPERED BUSHED VERTICAL SPEED REDUCER

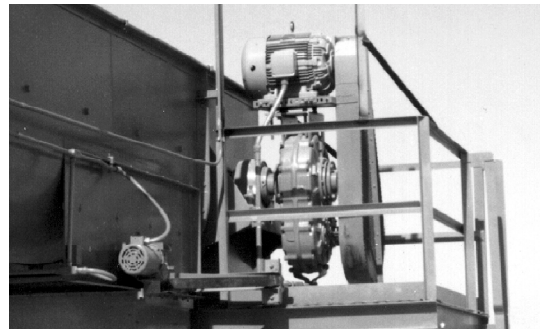


TDT **15** **30** **Vertical** **Tapered** **Reducer**
 Torque-Arm Case Normal Vertical Bushing
 Size Gear Ratio Mounted Style

Application: 200 HP, Class III Service on vertical shaft mixer application. This TDT 1530 Vertical Tapered Bushed Speed Reducer with shock absorbing DYNA-V Belt Drive package replaced an expensive, hard-to-replace, open gear drive system. TORQUE-ARM reducers can mount in many positions, such as vertical shaft applications simply by repositioning the breather and drain plug for lubrication purposes. Another standard feature of compact and highly efficient TORQUE-ARM reducers.

HORIZONTAL SHAFT APPLICATION

STANDARD DODGE TORQUE-ARM TWIN TAPER BUSHED SPEED REDUCER

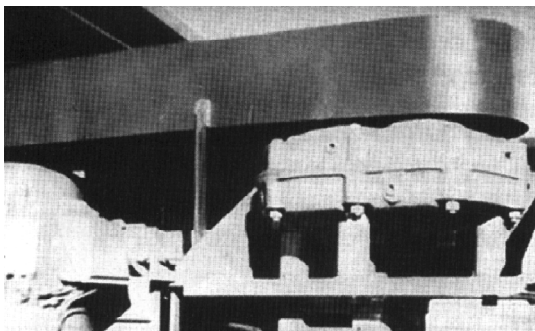


T **XT** **7** **25** **x 3-15/16"** **Tapered** **Bushed** **Reducer**
 Torque-Arm Extra Case Normal Bore Bushing
 Torque Size Gear Ratio Size Style

Application: 40 HP drive, Class II service, on main conveyor drive. Standard Tapered Bushed TXT 725 x 3-15/16" Speed Reducer package offers long life and dependability. Other user benefits on this horizontal shaft application include compactness, off-the-shelf components, flexible motor mount arrangement, and reliable easy-on, easy-off Tapered Bushings. The **lowest cost** installed system for moving bulk materials.

FLANGE MOUNTED APPLICATION

DODGE TORQUE-ARM FLANGE MOUNTED VERTICAL TWIN TAPER BUSHED SPEED REDUCER

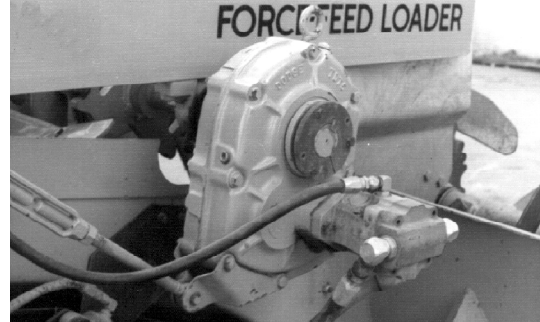


T **XT** **6** **25** **Vertical** **Tapered** **Bushed** **Reducer**
 Torque-Arm Extra Case Normal Vertical Bushing
 Torque Size Gear Ratio Mounted Style

Application: 15 HP, Class II Service, on Vertical Agitator Shaft in cement mixing system. This rugged reducer is rigidly mounted via the flange mounting pads which are standard on all TORQUE-ARM reducers. This no-charge, flange drilling option allows the reducer to support the agitator shaft and any thrust loads imposed. Flange mounted reducers do not require TORQUE-ARM rod assemblies.

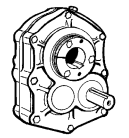
HYDRAULIC REDUCER APPLICATION

DODGE HYDROIL TORQUE-ARM TWIN TAPER BUSHED SPEED REDUCER



H **XT** **5** **25** **Tapered** **Bushed** **Reducer** **B 30** **Vane** **Motor**
 Hydroil Extra Case Normal Bushing Hydraulic
 Torque Size Gear Ratio Style Motor Size

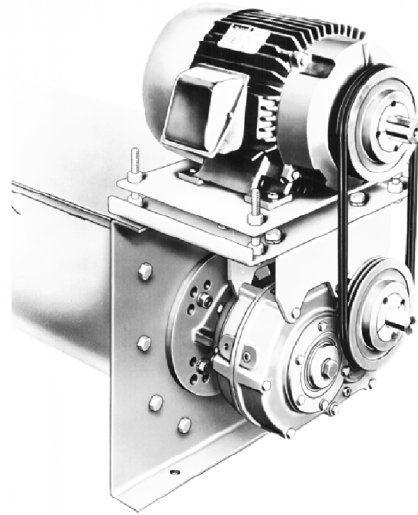
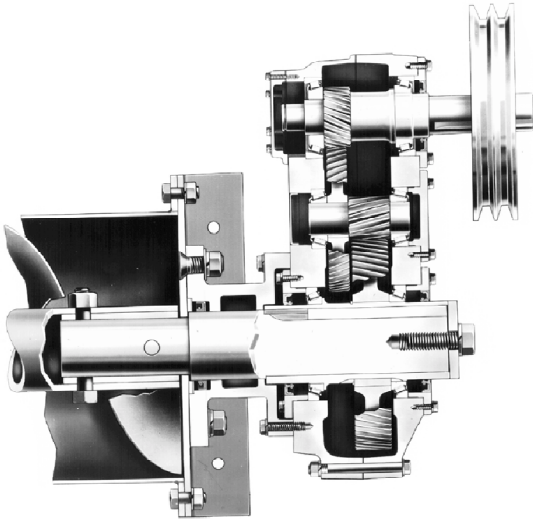
Application: Variable speed DODGE HYDROIL speed reducer with hydraulic power is another example of TORQUE-ARM reducer flexibility. This version powers a rugged, mobile brand of road construction equipment. Simply regulating the pressure and volume of fluid to the motor provides variable speed, variable torque, and even direction of rotation change.



FEATURES/BENEFITS

TORQUE-ARM Shaft Mount Speed Reducers

DODGE SCREW CONVEYOR DRIVES INDUSTRY WIDE APPLICATION



Note: Guards have been removed for photographic purposes.

DODGE quality designed with the Screw Conveyor Industry in mind.

The dependable DODGE Screw Conveyor Drives provide a rugged, competitively priced, application-engineered drive for standard CEMA screw conveyors. And the screw conveyor drive incorporates the proven reliability you have come to expect from the DODGE TORQUE-ARM™ reducer line.

Tapered roller bearings within the drive eliminate the need for an external thrust bearing. The bearings take thrust from the screw conveyor and make external thrust bearings unnecessary.

DODGE Screw Conveyor Drives are available in 5:1, 9:1, 15:1 and 25:1 ratios and the durable drives include:

- A compact design reducer with increased torque ratings.
- The CEMA standard drive shaft.
- A standard trough end mounting adapter with CEMA four-bolt mounting.
- Standard adapter for use with choice of lip, braided or waste pack seals.
- Optional adjustable packing gland adapter.

The Dodge complete, rugged, highly developed, screw conveyor drive mounts on the trough end of your screw conveyor. Tapered roller bearings in the reducer take the thrust from the screw conveyor. This eliminates the external thrust bearing commonly required. The drives may be mounted in any position on horizontal, inclined, or vertical shafts by relocating breather and drain plugs. For complete drive between trough and motor, specify the screw conveyor drive and the following accessories: trough end plate and motor mount.

Where V-belt drives or electric motors cannot be used, DODGE offers a screw conveyor drive powered by a hydraulic motor.

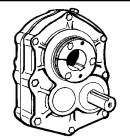
Typical Industry Applications

**Food
Grain
Aggregates
Chemicals
Minerals
Coal**

**Agriculture
Soaps
Lumber
Stone
Clay
Glass**

... and many more

FEATURES/BENEFITS



TORQUE-ARM Shaft Mount Speed Reducers

DODGE SCREW CONVEYOR DRIVES

Three alternative seals in CEMA Standard Adapter



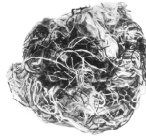
Double Lip Seals.

They're pre-lubricated for protection from dust and dirt during installation and are excellent for conveying semi-solids. Metallic parts are partially coated with synthetic rubber for added protection from corrosion.



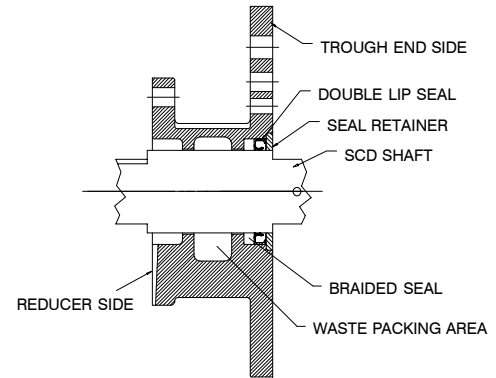
Braided Felt Seal.

For unusually dusty environments like granaries or fertilizer plants, the braided felt seal offers special protection.

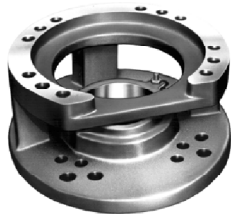


Waste Packing.

This can be inserted in a special cavity in the adapter for added protection while operating under abrasive conditions.



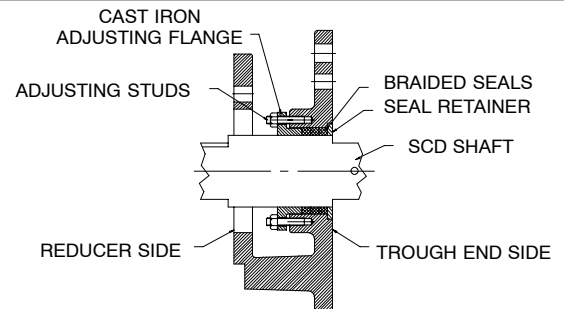
STANDARD SCD ADAPTER



CEMA Adjustable Packing Gland Adapter

The adjustable packing gland adapter can be repacked without removing the adapter from the trough end. This packing gland adapter is mainly used in applications where there is a very abrasive environment, such as cement dust.

The packing gland allows for easy removal and installation of the braided felt seals. As the seals wear, the adjusting studs can be retightened with an open-ended wrench causing the cast iron adjusting flange to compress the seals tighter around the drive shaft and end plate.

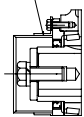


ADJUSTABLE PACKING GLAND ADAPTER

Auxiliary Seal Kit

AUXILIARY OUTPUT COVER

OUTPUT



INPUT

GREASE CAVITY



AUXILIARY INPUT COVER

Auxiliary Seal Kits for DODGE Screw Conveyor Drives are available for SCXT Sizes 1-7 Speed Reducers. Each kit contains an input shaft auxiliary seal with cover, output shaft end cap and a filter air breather.

Belt Guard

A slotted metal panel style belt guard with mounting straps for SCXT Reducers will fit standard M series motor mounts. The belt guards are designed to fit most common sheave diameters. They mount easily with no machining required.



Motor mounts need no drilling.

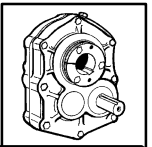
Rugged, all-steel DODGE motor mounts bolt directly to the screw conveyor drive reducer. They're available in fourteen sizes, which easily fit NEMA motor frames. Since the four adjusting bolts allow easy belt tensioning, it's less time-consuming and you save on installation costs immediately.



CEMA drive shafts offer easy installation and maintenance.

This means increased production, less down-time and substantial cost savings. You can save even more because of convenience and interchangeability. Different diameter drive shafts are interchangeable within each drive, and there's a wide range of diameters from 1-1/2 to 3-7/16 inches to choose from. Stainless steel and three-hole CEMA drive shafts are available on request.





FEATURES/BENEFITS

TORQUE-ARM Shaft Mount Speed Reducers

DODGE HYDROIL™ DRIVES

Hydraulically Powered TORQUE-ARM Speed Reducers with Infinitely Adjustable Speed and Torque

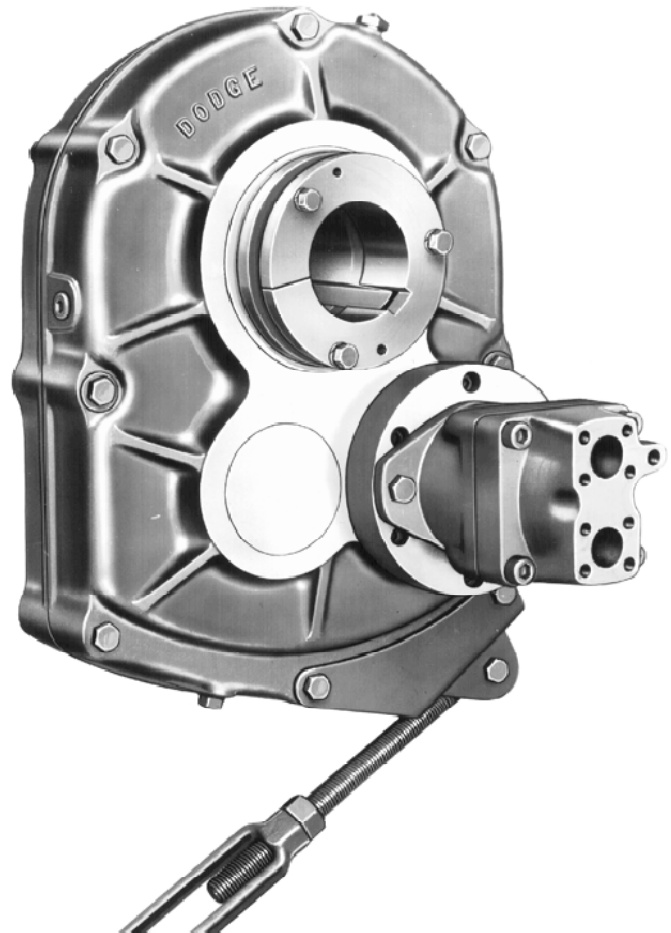
This is a modified version of the famous TORQUE-ARM speed reducer with the same quality features and ease of installation.

A Hydraulic motor powers the HYDROIL reducer, greatly expanding its scope of application and versatility. It has proven to be popular for locations remote from the prime mover where shafts or belt and chain drives are impractical or where electric motors are not available. Exceptional flexibility is provided in the control of the driven machine by simply regulating the pressure and volume of fluid fed to the HYDROIL motor.

Users can provide flexible control of the HYDROIL drive by selecting proper auxiliary equipment. Output speeds of the reducer are infinitely adjustable through the use of regulating valves in the hydraulic circuit. Both speed and torque can be adjusted to meet the requirements of the driven machine which can be inched or jogged. The direction of rotation is reversible.

Where V-belt drives or electric motors cannot be used, DODGE offers a screw conveyor drive powered by a hydraulic motor.

HYDROIL Vane Motors—are a superior single stage vane type fluid motor. A series of internal ports admit oil to and carry it from the power element. Complete hydraulic balance of the assembly contributes to the mechanical efficiency and long life of these motors as well as to their unusually quiet operation. Other exclusive features assure a minimum of friction and efficient valving action regardless of operating speeds.



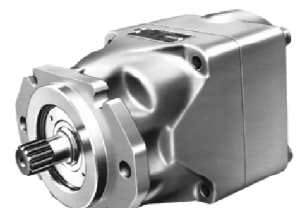
HYDROIL Vane Motors
A10 and A20



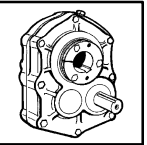
HYDROIL Vane Motor B30



HYDROIL Vane Motor B40



HYDROIL Vane Motor B50



TORQUE-ARM Shaft Mount Speed Reducers

General Specifications

TORQUE-ARM 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.

The reducer housing shall be constructed of two piece corrosion resistant, gray or ductile iron and be ribbed for added strength. All housings shall be doweled and precision machined to assure accurate alignment for all gear sets.

All gearing shall be of helical design, and crown shaved to provide an elliptoid tooth to eliminate tooth end bearing and assure meshing at the strongest tooth area. All gears shall be case carburized to insure a high surface durability with a resilient tooth core for greater impact resistance and longer service life. Gears shall be supported between

bearings to maintain proper alignment of gear meshes, to maximize load carrying capabilities, and to eliminate overhung loads imposed on bearings.

Reducer bearings shall be of the ball or tapered roller type, and provide a 25,000 hour average life.

All seals shall be of the double lip, spring loaded type, made of nitrile rubber.

Reducer gears and bearings shall be splash lubricated using a quality petroleum base oil, containing anti-foamants and rust inhibitors.

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

Screw Conveyor Drives:

The drive shall be either a belt driven or direct coupled enclosed, adaptor mounted unit with a single or double reduction ratio. The drive shall consist of a speed reducer, a cast iron 4 bolt mounting adaptor with a double lip and a braided felt seal, and a drive shaft machined from a high quality alloy steel. The drive shall conform to Conveyor Equipment Manufacturers Association (CEMA) standards.

The reducer housing shall be constructed of two piece corrosion resistant, gray iron. All housings shall be doweled and precision machined to assure accurate alignment of all gear sets.

All gearing shall be of helical design and crown shaved to provide an elliptoid tooth form to eliminate tooth end bearing and assure meshing at the strongest tooth area. All

gears shall be case carburized to insure a high surface durability, with a resilient tooth core for greater impact resistance and longer service life. Gears shall be supported between bearings to maintain proper alignment of gear meshes, to maximize load carrying capabilities, and to eliminate overhung loads imposed on bearings.

Reducer output bearings shall be of the tapered roller type, to absorb thrust loads from the screw conveyor. All bearings shall provide 25,000 hours average life.

All reducer seals shall be of the double lip, spring loaded type, made of nitrile rubber.

Reducer gears and bearings shall be splash lubricated using a quality petroleum base oil containing anti-foamants and rust inhibitors.

HYDROIL Drives:

The speed reducer shall be a hydraulically powered 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.

The reducer shall be powered using a HYDROIL single stage vane type fluid motor. The reducer shall be provided with a cast iron SAE mounting flange adaptor and splined input shaft to allow an integral fit with the splined hydraulic motor shaft.

The reducer housing shall be constructed of two piece corrosion resistant, gray iron and be ribbed for added strength. All housings shall be doweled and precision machined to assure accurate alignment for all gear sets.

All gearing shall be of helical design, and crown shaved to provide an elliptoid tooth form to eliminate tooth end bearing and assure meshing at the strongest tooth area.

All gears shall be case carburized to insure a high surface durability with a resilient tooth core for greater impact resistance and longer service life. Gears shall be supported between bearings to maintain proper alignment of gear meshes, to maximize load carrying capabilities, and to eliminate overhung loads imposed on bearings.

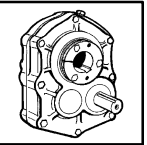
Reducer bearings shall be of the ball or tapered roller type and provide a 25,000 hour average life.

All seals shall be of the double lip, spring loaded type, made of nitrile rubber.

Reducer gears and bearings shall be splash lubricated using a quality petroleum base oil, containing anti-foamants and rust inhibitors.

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

NOMENCLATURE



TORQUE-ARM Shaft Mount Speed Reducers

NOMENCLATURE: TORQUE-ARM REDUCERS

XXXX - X XX - XX - x - XXXXX

Configuration

TXT Standard TORQUE-ARM Reducer, 1-12
TDT Large TORQUE-ARM Reducer, 13-15
HXT HYDROIL TORQUE-ARM Reducer, 1-7
TXTM Metric TORQUE-ARM Reducer, 1-12

Gear Case Size

1 thru 12 TXT
13 thru 15 TDT
1 thru 7 HXT

Ratio*

5:1 Single Reduction
9,15,25:1 Double Reduction

Bushing Bore Size

1" - 10" TDT Twin Tapered Bushing Assembly
1" - 5-7/16" TAXD Straight Bore Bushing Assembly

Reducer Style

V Vertical Shaft Mount Reducer

Type of Reducer/ Bushing

T Twin Taper Bushed Reducer
S Straight Bore Reducer

NOMENCLATURE EXAMPLES: TORQUE-ARM REDUCERS

TXT - 6 25 - TV - x - 3-7/16"

Standard TORQUE-ARM Shaft Mount Reducer
Case Size 6
25:1 Ratio, Double Reduction
Twin Taper Bushed Reducer
Vertically Mounted Style Reducer
Twin Tapered Bushing Assembly with bore to fit 3-7/16" diameter driven shaft

TXT - 2 05 - S - x - 1-15/16"

Standard TORQUE-ARM Shaft Mount Reducer
Case Size 2
5:1 Ratio, Single Reduction
Straight Bore Reducer
1-15/16" is maximum bore for TXT2 Straight Bore Reducer; no bushing required.

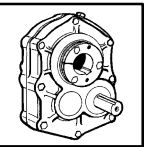
HXT - 1 25 - T - x - 1-7/16"

HYDROIL Shaft Mount Reducer
Case Size 1
25:1 Ratio, Double Reduction
Twin Taper Bushed Reducer
Twin Tapered Bushing Assembly with bore to fit 1-7/16" diameter driven shaft

* Note: 'A' or 'B' in nomenclature after ratio denotes latest reducer design.

FEATURES/BENEFITS PAGES G1-2-G1-8	SELECTION PAGES G1-12, G1-13, G1-81, G1-82, G1-127, G1-128	SELECTION/DIMENSIONS TXT PAGES G1-26-G1-67	SELECTION/DIMENSIONS HXT PAGES G1-137-G1-142
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NOMENCLATURE



TORQUE-ARM Shaft Mount Speed Reducers

NOMENCLATURE: SCREW CONVEYOR DRIVE REDUCERS

XXXXX - X XX - x - XXXXX - XX - XXXXX

Configuration

SCXT Screw Conveyor Drive Reducer
HSCXT HYDROIL Screw Conveyor Drive Reducer

Gear Case Size

1 thru 7 SCXT
1 thru 7 HSCXT

Ratio*

5:1 Single Reduction
9,15,25:1 Double Reduction

Motor Mount

M Standard Motor Mount for 6" - 20" screw
ML Long Motor Mount for 24" screw

Adapter Style

C Standard CEMA 4-bolt Adapter
AC Adjustable Packing Gland Adapter

CEMA Standard Drive Shaft Diameter

Sizes 1-1/2", 2", 2-7/16", 3", 3-7/16"
Dependent on screw diameter

NOMENCLATURE EXAMPLES: SCREW CONVEYOR DRIVE REDUCERS

SCXT - 7 25 - x - 3-7/16" - C - M724L

Screw Conveyor Drive Reducer
Case Size 7
25:1 Ratio, Double Reduction
Long Motor Mount for 24" screw
Standard CEMA 4-bolt Adapter
3-7/16" diameter Drive Shaft

SCXT - 5 25 - x - 2-7/16" - C - M518

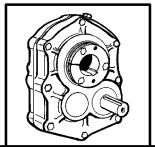
Screw Conveyor Drive Reducer
Case Size 5
25:1 Ratio, Double Reduction
Standard Motor Mount for 12" screw
Standard CEMA 4-bolt Adapter
2-7/16" diameter Drive Shaft

HSCXT - 2 05 - x - 1-1/2" - AC

HYDROIL Screw Conveyor Drive Reducer
Case Size 2
5:1 Ratio, Single Reduction
AC Adjustable Packing Gland Adapter
1-1/2" diameter Drive Shaft

* Note: 'A' or 'B' in nomenclature after ratio denotes latest reducer design.

EASY SELECTION



TORQUE-ARM Shaft Mount Speed Reducers

EASY SELECTION METHOD (for Electric Motors)

When to Use Easy Selection

The Easy Selection tables for TXT Shaft Mount reducers are for electric motor selections up to 700 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 power source other than an electric motor; or for extreme ambient temperatures, or oversized equipment, consult DODGE Application Engineering, (864) 288-9050.

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 I 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 II 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 II 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 III Moderate shock loads for over 10 hours a day. Heavy shock loads are allowable during 10 hours a day.

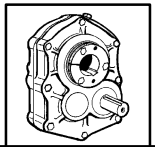
For Class III applications, the maximum value of starting and momentary peak loads should not exceed 4 x Motor HP rating. If it exceeds this amount it should be divided by 4 and the result used in the selection table instead of the Motor HP rating.

Step 2: Determine Reducer Size—See the Easy Selection Tables, pages G1-15 thru G1-25. From Selection Table I, II or III read the reducer size for the application horsepower and output speed. **Note:** For applications where fan cooling is unacceptable use the Easy Selection tables with an increased Class number. Where more than one reducer selection is listed, the most economical ratio is generally listed first. See Table 31, page G1-194 for maximum input and output speeds.

Step 3: Compare Hollow Shaft Bore with the size of the driven shaft. All DODGE TORQUE-ARM Taper Bushed reducers require bushings. Refer to reducer pages for available bushings. If the driven shaft is larger than the bore of the selected reducer, 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/Dimensions section, pages G1-26 thru G1-67 for reducer dimensions, weights and part numbers. See Engineering/Technical section, page G1-189 for reducer mounting positions. For optional TORQUE-ARM rod mounting positions, see page G1-190.

SELECTION PAGES G1-13, G1-15-G1-25	SELECTION/DIMENSIONS PAGES G1-26-G1-67	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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TORQUE-ARM Shaft Mount Speed Reducers

Step 5: Select a Belt Drive Arrangement—From the Sheave Ratio table, page G1-169, or the preselected 1750 RPM Motor V-drive tables, pages G1-171 thru G1-184 select the required sheave ratio for the belt drive. Be careful to select the belt drive so that the sheave mounted on the reducer shaft is not smaller than the minimum sheave diameter shown in Table 19, page G1-168. **Note:** Mount the sheave as close as possible to the reducer to minimize the effect of overhung load on the reducer.

Step 6: Select Accessories—See Modifications/Accessories section, pages G1-68 thru G1-80, for description,

dimensions, weights, and part numbers for accessories available for the TORQUE-ARM reducer selected:

Motor Mounts	Backstop Assemblies	Belt Guards
Cooling Fans	Auxiliary Seal Kits	Filter Breathers
Mounting Brackets		Output Shafts

NOTE: A TORQUE-ARM rod assembly is furnished with all TXT and HXT reducers, except for those factory-prepared for flange mounting. Torque-Arm reducers are shipped without oil.

Ratings and selections are the same for both taper bushed and straight bore reducers—standard, inclined or vertically mounted.

EXAMPLE: Easy Selection Method—TXT TORQUE-ARM Reducers

A 10 HP 1750 RPM motor is used to drive a uniformly loaded belt conveyor moving sand at 70 RPM, operating 16 hours per day. Head pulley shaft diameter is 2-7/16". Spec calls for a means of holding the conveyor from moving backwards. User needs immediately so does not have time to build his own motor mount or belt guard.

Step 1: Determine Class of Service—From Table 1, locate "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 Table 3—Class II Application, page G1-21, find the column for 10 HP and read down to 70 RPM. A TXT425 reducer is the correct selection.

Step 3: Compare Hollow Shaft Bore of TXT425 with the application driven shaft diameter. Per page G1-39, 2-7/16" is the maximum bore available for this size reducer, so it will work in this application. Be sure to check driven shaft and key for strength.

Step 4: Check Dimensions and Weights—See Selection/Dimensions section, page G1-39, for reducer dimensions, weights, part numbers and other pertinent drive

dimensions. See Engineering/Technical section, page G1-189 for information on mounting positions.

Step 5: Select a Belt Drive Arrangement—From the Sheave Ratio table, page G1-169, or the Preselected 1750 RPM Motor V-drive table for TXT425 reducers, page G1-174, select a V-drive ratio for the conveyor speed of 70 RPM. With this information, select a belt drive that meets your customer's needs—i.e. belt style preference, service factor requirements, Taper Lock or QD mounting, etc. Sheave diameter must not be less than minimum diameters shown in Table 19, page G1-168.

Step 6: Select Accessories—See Modifications/Accessories section of catalog to pick out accessories for this application:

TXT4 Backstop Assembly — to hold conveyor from moving backwards when shutdown

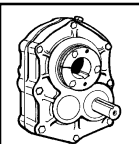
TXT4 Auxiliary Seal Kit — extra help to keep sand out of the TXT425 reducer

TA4M Motor Mount — to mount motor to top of TXT425 reducer

TXT4D Belt Guard — to cover and protect the rotating belt drive

SELECTION PAGES G1-12, G1-15-G1-25	SELECTION/DIMENSIONS PAGES G1-26-G1-67	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION



TORQUE-ARM Shaft Mount Speed Reducers

SELECTION GUIDE: TXT TORQUE-ARM SHAFT MOUNT REDUCERS

This Is A Reference Sheet For Quick Selection And Specification Of Dodge TXT Torque-Arm Shaft Mount Reducers. Use It To Identify Information Needed To Make An Accurate Selection With A Step-By-Step Selection Format For Choosing Reducer, Accessories And Belt Drive.

Use This Page To Make Your Own Selections Or Send This Form, With Application Data, To Dodge For Assistance. **You May Make Copies For Future Use.**

Name _____ Company Name _____
Phone No. _____ Fax. No. _____

Application Data:

Type Of Driven Equipment _____
Hours Of Service Per Day _____ Class Of Service _____
Type Of Load: Uniform _____ Moderate _____ Shock _____
Motor Type: HP _____ RPM _____ Frame Size _____ Shaft Size _____
RPM Of Driven Equipment _____ Driven Shaft Size _____
Type Of Reducer Mounting: Horizontal _____ Vertical: Input Up _____
Input Down _____ Incline (Degree Of) _____ Flange _____
Unusual Ambient Temperature _____
Other Pertinent Application Characteristics (ie-dusty Environment, Reversing Duty, Start/Stop Cycles, Etc.) _____

Reducer Drive Selection:

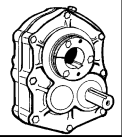
Step 1 - Determine Class Of Service _____
Step 2 - From Appropriate Service Class Table, Select Reducer Size And Ratio That Meets Application HP And Driven RPM Requirements:
Twin Taper Bushed _____ Straight Bore _____
Step 3 - Select Reducer Accessories Required For Application: Backstop _____
Motor Mount: Standard _____ Long _____ Bottom _____
Belt Guard: Standard _____ Long _____
Cooling Fan _____ Auxiliary Seal Kit _____ Filter Breather _____
Mounting Bracket: Long Side _____ Short Side _____
Other _____

Belt Drive Specification:

Service Factor _____ Belt Drive Ratio Needed _____
Belt Center Distance _____ Type Of Belt Desired _____
Driver: Shaft Diameter _____ Driven: Shaft Diameter _____
Sheave _____ Sheave _____
Bushing _____ Bushing _____
Belts: Size _____ Quantity _____

SELECTION PAGES G1-13, G1-15-G1-25	SELECTION/DIMENSIONS PAGES G1-26-G1-67	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION



TORQUE-ARM Shaft Mount Speed Reducers

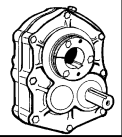
TABLE 1 — APPLICATION CLASSIFICATION AND CLASS NUMBERS

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		
Brick Press	III	III
Briquette Machine	III	III
Pug Mill	II	II
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		
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

Application	Class Numbers	
	3 to 10 Hrs. per Day	Over 10 Hrs per Day
FEEDERS		
Apron	II	II
Belt	II	II
Disc	I	II
Reciprocating	III	III
Screw	II	II
FOOD INDUSTRY		
Cereal Cooker	I	II
Dough Mixer	II	II
Meat Grinders	II	II
Slicers	II	II
GENERATORS AND EXCITERS	II	II
HAMMER MILLS	III	III
HOISTS	★	★
LAUNDRY TUMBLERS	II	II
LAUNDRY WASHERS	II	III
LUMBER INDUSTRY		
Bakers		
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
Tripple Hoist	II	II
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	II	II
Group Drives	III	III
Individual Drives	III	III
Reversing	III	III
Slab Pushers	II	II
Shears	III	III
Wire Drawing	II	II
Wire Winding Machine	II	II

★ Consult DODGE for more information on class number.

EASY SELECTION TXT PAGES G1-17– G1-25	EASY SELECTION SCXT PAGES G1-84–G1-89	EASY SELECTION HXT PAGES G1-127–G1-136	ENGINEERING/TECHNICAL PAGES G1-187–G1-201
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TORQUE-ARM Shaft Mount Speed Reducers

TABLE 1 — APPLICATION CLASSIFICATION AND CLASS NUMBERS (CONTINUED)

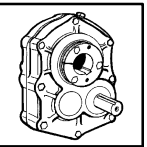
Application	Class Numbers	
	3 to 10 Hrs per Day	Over 10 Hrs per Day
METAL STRIP PROCESSING MACHINERY		
Bridles	II	II
Coilers & Uncoilers	I	II
Edge Trimmers	II	II
Flatteners	II	II
Loopers (Accumulators)	I	I
Pinch Rolls	II	II
Scrap Choppers	II	II
Shears	III	III
Slitters	II	II
MILLS, ROTARY TYPE		
Ball & 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	II
Log (including Slab)	III	III
Couch Rolls	II	II
Cutter	III	III
Cylinder Molds	II	II
Embosser	II	II
Extruder	II	II
Fourdrinier Rolls (includes Lump breaker, dandy roll, wire turning, and return rolls)	II	II
Jordan	II	II
Kiln Drive	II	II
Mt. Hope Roll	II	II
Paper Rolls	II	II
Platter	II	II
Presses—Felt & Suction	II	II
Pulper	III	III
Pumps—Vacuum	II	II
Reel (Surface Type)	II	II
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		
Blow Molders	II	II
Coating	II	II
Film	II	II
Pipe	II	II
Pre—Plasticizers	II	II
Rods	II	II
Sheet	II	II
Tubing	II	II

Application	Class Numbers	
	3 to 10 Hrs. per Day	Over 10 Hrs per Day
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		
Batch Mixers	III	III
Continuous Mixers	II	II
Mixing Mill		
2 smooth rolls	II	II
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	III
Refiner—2 rolls	II	II
Calenders	II	II
SAND MULLER	II	II
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
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	I	II
Stashers	II	II
Soapers	II	II
Spinners	II	II
Tenter Frames	II	II
Washers	II	II
Winders	II	II

Reference: AGMA Standard 6021-G89 (11/89). The table of application class numbers has been developed from the experience of manufacturers and users of gear drives for use in common applications and has been found to be generally satisfactory for the listed industries when gears are rated using AGMA standards. It is recommended that class numbers for special applications be agreed upon by the user and the gear manufacturer when variations of the table may be required. Special conditions can be any special type of prime mover, starting or stopping conditions, system conditions, ambient conditions, lubrication, overloads, overspeeds, brake equipped applications, high inertia and reversing loads.

EASY SELECTION TXT PAGES G1-17- G1-25	EASY SELECTION SCXT PAGES G1-84-G1-89	EASY SELECTION HXT PAGES G1-127-G1-136	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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EASY SELECTION



TORQUE-ARM Shaft Mount Speed Reducers

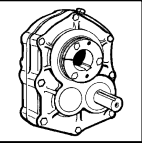
TABLE 2 — CLASS I SELECTION TABLE TXT REDUCERS ★

HP	OUTPUT RPM	REDUCER SELECTION	
		SINGLE	DOUBLE
1/4	4-70		TXT125 TXT115
	71-85		TXT115 TXT125
	86-115		TXT115 TXT109
	116-140	TXT105	TXT109 TXT115
	141-200	TXT105	TXT109
	201-400	TXT105	
1/3	5-70		TXT125 TXT115
	71-85		TXT115 TXT125
	86-115		TXT115 TXT109
	116-140	TXT105	TXT109 TXT115
	141-200	TXT105	TXT109
	201-400	TXT105	
1/2	4-6		TXT225
	7-70		TXT125 TXT115
	71-85		TXT115 TXT125
	86-115		TXT115 TXT109
	116-140	TXT105	TXT109 TXT115
	141-200	TXT105	TXT109
3/4	4-5		TXT325A
	6-10		TXT225
	11-70		TXT125 TXT115
	71-85		TXT115 TXT125
	86-115		TXT115 TXT109
	116-140	TXT105	TXT109 TXT115
1	4-5		TXT425A
	6-7		TXT325A
	8-15		TXT225
	16-70		TXT125 TXT115
	71-85		TXT115 TXT125
	86-115		TXT115 TXT109
1-1/2	4-5		TXT425A
	6-7		TXT325A
	8-15		TXT225
	16-70		TXT125 TXT115
	71-85		TXT115 TXT125
	86-115		TXT115 TXT109
2	4-6		TXT525B
	7-10		TXT425A
	11-17		TXT325A
	18-32		TXT225 TXT215
	33-70		TXT125 TXT115
	71-85		TXT115 TXT125
3	86-115		TXT115 TXT109
	116-140	TXT105	TXT109 TXT115
	141-200	TXT105	TXT109
	201-400	TXT105	
	4-5		TXT625
	6-10		TXT525B
5	11-15		TXT425A
	16-26		TXT325A
	27-51		TXT225 TXT215
	52-70		TXT125 TXT115
	71-85		TXT115 TXT125
	86-115		TXT115 TXT109
7-1/2	116-140	TXT105	TXT109 TXT115
	141-200	TXT105	TXT109
	201-400	TXT105	
	4-6		TXT825
	7-9		TXT725
	10-15		TXT625
10	16-26		TXT525B
	27-40		TXT425A TXT415A
	41-70		TXT325A TXT315A
	71-74		TXT315A TXT325A
	75-85		TXT215 TXT225
	86-95		TXT215 TXT209
15	96-140	TXT205	TXT209 TXT215
	141-200	TXT205	TXT209
	201-231	TXT205	
	232-400	TXT105	
	4-6		TXT825
	7-9		TXT725
20	10-15		TXT625
	16-26		TXT525B
	27-40		TXT425A TXT415A
	41-70		TXT325A TXT315A
	71-74		TXT315A TXT325A
	75-85		TXT215 TXT225
25	86-95		TXT215 TXT209
	96-140	TXT205	TXT209 TXT215
	141-200	TXT205	TXT209
	201-231	TXT205	
	232-400	TXT105	
	4-6		TXT825
30	7-9		TXT725
	10-15		TXT625
	16-26		TXT525B
	27-40		TXT425A TXT415A
	41-70		TXT325A TXT315A
	71-74		TXT315A TXT325A
40	75-85		TXT215 TXT225
	86-95		TXT215 TXT209
	96-140	TXT205	TXT209 TXT215
	141-200	TXT205	TXT209
	201-231	TXT205	
	232-400	TXT105	

★ See page G1-189 for lubrication for 15 RPM and slower.

NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	DIMENSIONS PAGES G1-26-G1-67	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80
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EASY SELECTION



TORQUE-ARM Shaft Mount Speed Reducers

TABLE 2 — CLASS I SELECTION TABLE TXT REDUCERS (Cont'd) ★

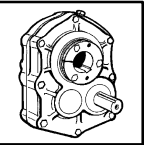
HP	OUTPUT RPM	REDUCER SELECTION	
		SINGLE	DOUBLE
10	5		TXT926
	6-8		TXT825
	9-12		TXT725
	13-20		TXT625
	21-36		TXT525B TXT515B
	37-56		TXT425A TXT415A
	57-70		TXT325A TXT315A
	71-85		TXT315A TXT325A
	86-103		TXT315A TXT309A
	104-115		TXT215 TXT209
	116-140	TXT305A	TXT215
	141-158	TXT305A	TXT309A
	159-200	TXT305A	TXT309A
	201-400	TXT205	
15	5-6		TXT1024
	7-8		TXT926
	9-13		TXT825
	14-19		TXT725
	20-32		TXT625 TXT615
	33-56		TXT525B TXT515B
	57-70		TXT425A TXT415A
	71-85		TXT415A TXT425A
	86-93		TXT415A TXT409A
	94-115		TXT309A+ TXT315A
	116-140	TXT405A	TXT315A TXT309A+
	141-145	TXT405A	TXT309A+
	146-200	TXT305A	TXT309A+
	201-400	TXT305A	
20	4-6		TXT1225
	7-8		TXT1024
	9-12		TXT926
	13-18		TXT825
	19-26		TXT725 TXT715
	27-45		TXT625 TXT615
	46-70		TXT525B TXT515B
	71-78		TXT515B TXT525B
	79-85		TXT415A TXT425A
	86-115		TXT415A TXT409A+
	116-140	TXT405A	TXT409A+ TXT415A+
	141-200	TXT405A	TXT309A+
	201-241	TXT405A	
	242-400	TXT305A+	
25	5-7		TXT1225
	8-10		TXT1024
	11-15		TXT926
	16-23		TXT825
	24-33		TXT725 TXT715
	34-59		TXT625 TXT615
25	60-70		TXT525B+ TXT515B+
	71-80		TXT515B+ TXT525B+
	81-101		TXT515B+ TXT509B+
	102-132	TXT505A	TXT415A+ TXT409A+
	133-140	TXT505A	TXT409A+ TXT415A+
	141-163	TXT505A	TXT409A+
	164-200	TXT405A+	TXT409A+
	201-400	TXT405A+	
30	4-5		TDT1425
	6-9		TXT1225
	10-13		TXT1024
	14-19		TXT926
	20-28		TXT825 TXT815
	29-41		TXT725 TXT715
	42-70		TXT625 TXT615
	71-75		TXT615 TXT625
	76-115		TXT515B+ TXT509B+
	116-125	TXT605	TXT509B+ TXT515B+
	126-131	TXT605	TXT409A+
	132-200	TXT505A	TXT409A+
	201-215	TXT505A+	
	216-400	TXT405A+	
40	5-6		TDT1425
	7		TDT1325
	8-12		TXT1225
	13-18		TXT1024
	19-25		TXT926 TXT915
	26-38		TXT825 TXT815
	39-57		TXT725 TXT715
	58-70		TXT625 TXT615
	71-81		TXT615+ TXT625+
	82-114	TXT605	TXT615+ TXT609+
	115-125	TXT605	TXT515B+ TXT509B+
	126-200	TXT605	TXT509B+
	201-241	TXT605	
	242-400	TXT505A+	
50	3-5		TDT1530
	6-8		TDT1425
	9		TDT1325
	10-15		TXT1225
	16-22		TXT1024
	23-32		TXT926 TXT915
	33-49		TXT825 TXT815
	50-70		TXT725 TXT715
	71-74		TXT715 TXT725
	75-125		TXT615+ TXT709+
	126-163	TXT605+	TXT709+
	164-200	TXT605+	TXT609+

★ See page G1-189 for lubrication for 15 RPM and slower.

+ Fan cooling required - see page G1-77.

NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	DIMENSIONS PAGES G1-26-G1-67	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80
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EASY SELECTION



TORQUE-ARM Shaft Mount Speed Reducers

TABLE 2 — CLASS I SELECTION TABLE TXT REDUCERS (Cont'd) ★

HP	OUTPUT RPM	REDUCER SELECTION	
		SINGLE	DOUBLE
50	201-400	TXT605+	
60	4-6		TDT1530
	7-11		TDT1425
	12		TDT1325
	13-18		TXT1225
	19-27		TXT1024 TXT1015
	28-39		TXT926 TXT915
	40-60		TXT825 TXT815
	61-70		TXT725+ TXT715+
	71-120		TXT715+ TXT709+
	121-131	TXT705	TXT709+
	132-200	TXT605+	TXT709+
	201-400	TXT605+	
75	5-8		TDT1530
	9-13		TDT1425
	14-15		TDT1325
	16-23		TXT1225
	24-34		TXT1024 TXT1015
	35-50		TXT926 TXT915
	51-70		TXT825 TXT815
	71-78		TXT815+
	79-120		TXT715+ TXT709+
	121-200	TXT705	TXT709+
	201-210	TXT705	
	211-400	TXT605+	
100	6-11		TDT1530
	12-17		TDT1425
	18-22		TDT1325
	23-31		TXT1225 TXT1215
	32-46		TXT1024 TXT1015
	47-69		TXT926+ TXT915+
	70-120		TXT815+
	121-123	TXT805+	TXT709+
	124-200	TXT705+	TXT709+
	201-400	TXT705+	
125	8-14		TDT1530
	15-22		TDT1425
	23-29		TDT1325
	30-40		TXT1225 TXT1215
	41-59		TXT1024 TXT1015
	60-70		TXT915+ TXT926+
	71-90		TXT915+
	91-123		TXT815+
	124-172	TXT805+	
	173-400	TXT705+	

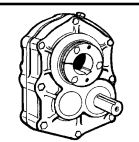
★ See page G1-189 for lubrication for 15 RPM and slower.

+ Fan cooling required - see page G1-77.

✱ Heat exchanger required - see page G1-77.

NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	DIMENSIONS PAGES G1-26-G1-67	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80
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EASY SELECTION



TORQUE-ARM Shaft Mount Speed Reducers

TABLE 3 — CLASS II SELECTION TABLE TXT REDUCERS ★

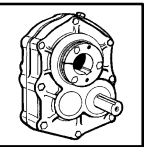
HP	OUTPUT RPM	REDUCER SELECTION	
		SINGLE	DOUBLE
1/4	5-70		TXT125 TXT115
	71-85		TXT115 TXT125
	86-115		TXT115 TXT109
	116-140	TXT105	TXT109 TXT115
	141-200	TXT105	TXT109
	201-400	TXT105	
1/3	4-6		TXT225
	7-70		TXT125 TXT115
	71-85		TXT115 TXT125
	86-115		TXT115 TXT109
	116-140	TXT105	TXT109 TXT115
	141-200	TXT105	TXT109
	201-400	TXT105	
1/2	4-5		TXT325A
	6-9		TXT225
	10-70		TXT125 TXT115
	71-85		TXT115 TXT125
	86-115		TXT115 TXT109
	116-140	TXT105	TXT109 TXT115
	141-200	TXT105	TXT109
	201-400	TXT105	
3/4	4-5		TXT425A
	6-8		TXT325A
	9-16		TXT225
	17-70		TXT125 TXT115
	71-85		TXT115 TXT125
	86-115		TXT115 TXT109
	116-140	TXT105	TXT109 TXT115
	141-200	TXT105	TXT109
	201-400	TXT105	
1	5-7		TXT425A
	8-11		TXT325A
	12-22		TXT225
	23-70		TXT125 TXT115
	71-85		TXT115 TXT125
	86-115		TXT115 TXT109
	116-140	TXT105	TXT109 TXT115
	141-200	TXT105	TXT109
	201-400	TXT105	
1-1/2	5-6		TXT525B
	7-11		TXT425A
	12-18		TXT325A
	19-34		TXT225 TXT215
	35-70		TXT125 TXT115
	71-85		TXT115 TXT125
	86-115		TXT115 TXT109

HP	OUTPUT RPM	REDUCER SELECTION	
		SINGLE	DOUBLE
1-1/2	116-140	TXT105	TXT109 TXT115
	141-200	TXT105	TXT109
	201-400	TXT105	
2	4-5		TXT625
	6-9		TXT525B
	10-14		TXT425A
	15-24		TXT325A TXT315A
	25-47		TXT225 TXT215
	48-70		TXT125 TXT115
	71-85		TXT115 TXT125
	86-115		TXT115 TXT109
	116-140	TXT105	TXT109 TXT115
	141-200	TXT105	TXT109
	201-400	TXT105	
3	4-5		TXT725
	6-8		TXT625
	9-14		TXT525B
	15-22		TXT425A TXT415A
	23-38		TXT325A TXT315A
	39-70		TXT225 TXT215
	71-75		TXT215 TXT225
	76-85		TXT115 TXT125
	86-115		TXT115 TXT109
	116-140	TXT105	TXT109 TXT115
	141-200	TXT105	TXT109
	201-400	TXT105	
5	4-6		TXT825
	7-8		TXT725
	9-14		TXT625
	15-24		TXT525B
	25-37		TXT425A TXT415A
	38-69		TXT325A TXT315A
	70-85		TXT215 TXT225
	86-89		TXT215 TXT209
	90-136	TXT205	TXT209 TXT215
	137-140	TXT205	TXT115 TXT209
	141-191	TXT205	TXT109
	192-200	TXT105	TXT109
	201-400	TXT105	
7-1/2	5		TXT926
	6-9		TXT825
	10-13		TXT725
	14-21		TXT625
	22-38		TXT525B TXT515B
	39-59		TXT425A TXT415A
	60-70		TXT325A TXT315A
	71-85		TXT315A TXT325A

★ See page G1-189 for lubrication for 15 RPM and slower.

NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	DIMENSIONS PAGES G1-26-G1-67	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80
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EASY SELECTION



TORQUE-ARM Shaft Mount Speed Reducers

TABLE 3 — CLASS II SELECTION TABLE TXT REDUCERS (Cont'd) ★

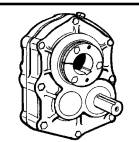
HP	OUTPUT RPM	REDUCER SELECTION	
		SINGLE	DOUBLE
7-1/2	86-110		TXT315A TXT309A
	111-122		TXT215
	123-140	TXT305A	TXT209 TXT215
	141-183	TXT305A	TXT209
	184-200	TXT205	TXT209
	201-400	TXT205	
10	4		TXT1225
	5		TXT1024
	6-7		TXT926
	8-12		TXT825
	13-18		TXT725
	19-29		TXT625 TXT615
	30-52		TXT525B TXT515B
	53-70		TXT425A TXT415A
	71-84		TXT415A TXT425A
	85-130		TXT315A TXT309A
	131-140	TXT305A	TXT315A TXT309A
	141-200	TXT305A	TXT309A
	201-353	TXT305A	
	354-400	TXT205	
15	4-6		TXT1225
	7-9		TXT1024
	10-12		TXT926
	13-19		TXT825
	20-27		TXT725
	28-47		TXT625 TXT615
	48-70		TXT525B TXT515B
	71-82		TXT515B TXT525B
	83-117		TXT415A TXT409A
	118-140	TXT405A	TXT409A TXT415A
	141-150	TXT405A	TXT409A
	151-200	TXT405A	TXT309A+
	201-269	TXT405A	
	270-400	TXT305A	
20	5		TDT1325
	6-8		TXT1225
	9-12		TXT1024
	13-17		TXT926
	18-26		TXT825
	27-38		TXT725 TXT715
	39-68		TXT625 TXT615
	69-80		TXT515B TXT525B
	81-89		TXT515B
	90-117		TXT515B+ TXT509B+
	118-125	TXT505A	TXT409A+ TXT415A+
	126-200	TXT505A	TXT409A+
	201-400	TXT405A+	
25	4-6		TDT1425
	7-10		TXT1225
	11-15		TXT1024
	16-22		TXT926
	23-33		TXT825 TXT815
	34-49		TXT725 TXT715
	50-80		TXT615 TXT625
	81-94		TXT615 TXT609
	95-125	TXT605	TXT509B+ TXT515B+
	126-174	TXT605	TXT509B+
	175-200	TXT505A	TXT409A+
	201-270	TXT505A	
	271-400	TXT405A+	
30	5-7		TDT1425
	8		TDT1325
	9-12		TXT1225
	13-19		TXT1024
	20-27		TXT926 TXT915
	28-41		TXT825 TXT815
	42-60		TXT725 TXT715
	61-76		TXT625 TXT615
	77-89		TXT615 TXT609
	90-125	TXT605	TXT615+ TXT609+
	126-200	TXT605	TXT509B+
	201-233	TXT605	
	234-349	TXT505A+	
	350-400	TXT405A+	
40	4-6		TDT1530
	7-9		TDT1425
	10-11		TDT1325
	12-17		TXT1225
	18-25		TXT1024
	26-36		TXT926 TXT915
	37-56		TXT825 TXT815
	57-75		TXT725 TXT715
	76-88		TXT715
	89-114		TXT615+ TXT609+
	115-120		TXT615+ TXT609+
	121-200	TXT605	TXT609+
	201-347	TXT605+	
	348-400	TXT505A+	
50	5-8		TDT1530
	9-12		TDT1425
	13-14		TDT1325
	15-21		TXT1225
	22-32		TXT1024 TXT1015
	33-46		TXT926 TXT915
	47-70		TXT825 TXT815
	71-72		TXT815 TXT825
	73-95		TXT715+

★ See page G1-189 for lubrication for 15 RPM and slower.

+ Fan cooling required - see page G1-77.

NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	DIMENSIONS PAGES G1-26-G1-67	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80
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EASY SELECTION



TORQUE-ARM Shaft Mount Speed Reducers

TABLE 3 — CLASS II SELECTION TABLE TXT REDUCERS (Cont'd) ★

HP	OUTPUT RPM	REDUCER SELECTION	
		SINGLE	DOUBLE
50	96-110	TXT705	TXT709 TXT715+
	111-120	TXT705	TXT709+ TXT715+
	121-179	TXT705	TXT709+
	180-200	TXT605+	TXT609+
	201-400	TXT605+	
60	5-9		TDT1530
	10-14		TDT1425
	15-18		TDT1325
	19-26		TXT1225
	27-39		TXT1024 TXT1015
	40-56		TXT926 TXT915
	57-70		TXT825 TXT815
	71-75		TXT815 TXT825
	76-89		TXT815
	90-120	TXT705	TXT715+ TXT709+
	121-200	TXT705	TXT709+
	201-285	TXT705	
	286-400	TXT605+	
75	7-12		TDT1530
	13-18		TDT1425
	19-24		TDT1325
	25-33		TXT1225 TXT1215
	34-49		TXT1024 TXT1015
	50-73		TXT926 TXT915
	74-75		TXT815 TXT825
	76-120	TXT805	TXT815+
	121-133	TXT805	TXT709+
	134-200	TXT705	TXT709+
	201-400	TXT705	
100	8-16		TDT1530
	17-25		TDT1425
	26-33		TDT1325
	34-45		TXT1225 TXT1215
	46-67		TXT1024 TXT1015
	68-75		TXT915+ TXT926+
	76-103		TXT915+
	104-120	TXT905	TXT815+
	121-149	TXT905	
	150-180	TXT805	
	181-200	TXT805	TXT709
	201-204	TXT805	
	205-246	TXT705	
	247-400	TXT705+	

HP	OUTPUT RPM	REDUCER SELECTION	
		SINGLE	DOUBLE
125	11-20		TDT1530
	21-31		TDT1425
	32-43		TDT1325
	44-58		TXT1225 TXT1215
	59-75		TXT1024 TXT1015
	76-85		TXT1015
	86-120		TXT915+
	145-209	TXT905	
	210-303	TXT805+	
150	304-400	TXT705+	
	13-25		TDT1530
	26-38		TDT1425
	39-54		TDT1325
	55-72		TXT1225+ TXT1215+
	73-75		TXT1015+ TXT1024+
	76-120		TXT1015+
	184-279	TXT905+	
	280-400	TXT805+	
200	18-33		TDT1530
	34-53		TDT1425+
	54-75		TDT1325+
	77-120		TXT1215*
250	23-42		TDT1530
	43-69		TDT1425*
	70-75		TDT1325+
300	28-53		TDT1530
	54-75		TDT1425*
350	33-57		TDT1530
	66-75		TDT1425*
400	38-57		TDT1530+
450	43-57		TDT1530+
500	50-57		TDT1530+

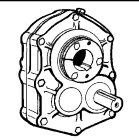
★ See page G1-189 for lubrication for 15 RPM and slower.

+ Fan cooling required - see page G1-77.

* Heat exchanger required - see page G1-77.

NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	DIMENSIONS PAGES G1-26-G1-67	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80
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EASY SELECTION



TORQUE-ARM Shaft Mount Speed Reducers

TABLE 4 — CLASS III SELECTION TABLE TXT REDUCERS ★

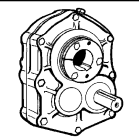
HP	OUTPUT RPM	REDUCER SELECTION	
		SINGLE	DOUBLE
1/4	4-6		TXT225
	7-70		TXT125 TXT115
	71-85		TXT115 TXT125
	86-89		TXT115 TXT109
	90-115		TXT115 TXT109
	116-140	TXT105	TXT109 TXT115
	141-200	TXT105	TXT109
	201-400	TXT105	
1/3	5-9		TXT225
	10-70		TXT125 TXT115
	71-85		TXT115 TXT125
	86-115		TXT115 TXT109
	116-140	TXT105	TXT109 TXT115
	141-200	TXT105	TXT109
	201-400	TXT105	
1/2	4-5		TXT425A
	6-7		TXT325A
	8-15		TXT225
	16-70		TXT125 TXT115
	71-85		TXT115 TXT125
	86-115		TXT115 TXT109
	116-140	TXT105	TXT109 TXT115
	141-200	TXT105	TXT109
	201-400	TXT105	
3/4	4		TXT525B
	5-7		TXT425A
	8-12		TXT325A
	13-23		TXT225
	24-70		TXT125 TXT115
	71-85		TXT115 TXT125
	86-115		TXT115 TXT109
	116-140	TXT105	TXT109 TXT115
	141-200	TXT105	TXT109
	201-400	TXT105	
1	4-6		TXT525B
	7-10		TXT425A
	11-17		TXT325A
	18-32		TXT225
	33-70		TXT125 TXT115
	71-85		TXT115 TXT125
	86-115		TXT115 TXT109
	116-140	TXT105	TXT109 TXT115
	141-200	TXT105	TXT109
	201-400	TXT105	
1-1/2	4-5		TXT625
	6-10		TXT525B

HP	OUTPUT RPM	REDUCER SELECTION	
		SINGLE	DOUBLE
1-1/2	11-15		TXT425A
	16-26		TXT325A
	27-51		TXT225 TXT215
	52-70		TXT125 TXT115
	71-85		TXT115 TXT125
	86-115		TXT115 TXT109
	116-140	TXT105	TXT109 TXT115
	141-200	TXT105	TXT109
	201-400	TXT105	
2	5-7		TXT625
	8-13		TXT525B
	14-21		TXT425A
	22-36		TXT325A TXT315A
	37-71		TXT225 TXT215
	72-85		TXT115 TXT125
	86-115		TXT115 TXT109
	116-140	TXT105	TXT109 TXT115
	141-200	TXT105	TXT109
	201-400	TXT105	
3	4-5		TXT825
	6-7		TXT725
	8-12		TXT625
	13-20		TXT525B
	21-32		TXT425A TXT415A
	33-57		TXT325A TXT315A
	58-70		TXT225 TXT215
	71-85		TXT215 TXT225
	86-89		TXT215 TXT209
	90-113	TXT205	TXT215 TXT209
	114-140	TXT205	TXT109 TXT115
	141-155	TXT205	TXT109
	156-200	TXT105	TXT109
	201-400	TXT105	
5	5		TXT926
	6-8		TXT825
	9-12		TXT725
	13-20		TXT625
	21-36		TXT525B TXT515B
	37-56		TXT425A TXT415A
	57-70		TXT325A TXT315A
	71-85		TXT315A TXT325A
	86-103		TXT315A TXT309A
	104-114	TXT305A	TXT215 TXT309A
	115-140	TXT305A	TXT209 TXT215
	141-167	TXT305A	TXT209
	168-200	TXT205	TXT209
	201-400	TXT205	

★ See page G1-189 for lubrication for 15 RPM and slower.

NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	DIMENSIONS PAGES G1-26-G1-67	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80
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EASY SELECTION



TORQUE-ARM Shaft Mount Speed Reducers

TABLE 4 — CLASS III SELECTION TABLE TXT REDUCERS (Cont'd) ★

HP	OUTPUT RPM	REDUCER SELECTION	
		SINGLE	DOUBLE
7-1/2	5-6		TXT1024
	7-8		TXT926
	9-13		TXT825
	14-19		TXT725
	20-32		TXT625 TXT615
	33-56		TXT525B TXT515B
	57-70		TXT425A TXT415A
	71-85		TXT415A TXT425A
	86-93		TXT415A TXT409A
	94-140	TXT405A	TXT309A TXT315A
	141-144	TXT405A	TXT309A
	145-200	TXT305A	TXT309A
	201-400	TXT305A	
10	4-6		TXT1225
	7-8		TXT1024
	9-12		TXT926
	13-18		TXT825
	19-26		TXT725 TXT715
	27-45		TXT625 TXT615
	46-70		TXT525B TXT515B
	71-78		TXT515B TXT525B
	79-92		TXT415A
	93-105		TXT415A TXT409A
	106-141	TXT405A	TXT409A TXT415A
	142-200	TXT405A	TXT309A
	201-241	TXT405A	
	242-400	TXT305A	
15	4-5		TDT1425
	6-9		TXT1225
	10-13		TXT1024
	14-19		TXT926
	20-28		TXT825 TXT815
	29-41		TXT725 TXT715
	42-70		TXT625 TXT615
	71-75		TXT615 TXT625
	76-93		TXT515B
	94-115		TXT515B TXT509B
	116-125	TXT605	TXT509B TXT515B
	126-131	TXT605	TXT509B
	132-200	TXT505A	TXT409A
	201-215	TXT505A	
	216-400	TXT405A	
20	5-6		TDT1425
	7		TDT1325
	8-12		TXT1225
	13-18		TXT1024
	19-25		TXT926 TXT915

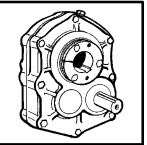
HP	OUTPUT RPM	REDUCER SELECTION	
		SINGLE	DOUBLE
20	26-38		TXT825 TXT815
	39-57		TXT725 TXT715
	58-70		TXT625 TXT615
	71-114		TXT615 TXT609
	115-125	TXT605	TXT509B+ TXT515B+
	126-200	TXT605	TXT509B+
	201-218	TXT605	
	219-324	TXT505A	
	325-400	TXT405A+	
25	4-5		TDT1530
	6-8		TDT1425
	9		TDT1325
	10-15		TXT1225
	16-22		TXT1024
	23-32		TXT926 TXT915
	33-49		TXT825 TXT815
	50-70		TXT725 TXT715
	71-74		TXT715 TXT725
	75-104		TXT615 TXT609
	105-113		TXT615+ TXT609
	114-125	TXT605	TXT615+ TXT609+
	126-200	TXT605	TXT609+
	201-294	TXT605	
	295-400	TXT505A+	
30	4-6		TDT1530
	7-10		TDT1425
	11-12		TDT1325
	13-18		TXT1225
	19-27		TXT1024 TXT1015
	28-39		TXT926 TXT915
	40-60		TXT825 TXT815
	61-70		TXT725 TXT715
	71-98		TXT715
	99-125		TXT615+ TXT609+
	126-131	TXT705	TXT609+
	132-200	TXT605	TXT609+
	201-381	TXT605	
40	382-400	TXT505A+	
	5-9		TDT1530
	10-14		TDT1425
	15-17		TDT1325
	18-25		TXT1225
	26-37		TXT1024 TXT1015
	38-53		TXT926 TXT915
	54-70		TXT825 TXT815
	71-84		TXT815
	85-89		TXT715 TXT709
	90-120	TXT705	TXT715+ TXT709

★ See page G1-189 for lubrication for 15 RPM and slower.

+ Fan cooling required - see page G1-77.

NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	DIMENSIONS PAGES G1-26-G1-67	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80
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EASY SELECTION



TORQUE-ARM Shaft Mount Speed Reducers

TABLE 4 — CLASS III SELECTION TABLE TXT REDUCERS (Cont'd) ★

HP	OUTPUT RPM	REDUCER SELECTION	
		SINGLE	DOUBLE
40	121-200	TXT705	TXT709+
	201-249	TXT705	
	250-400	TXT605+	
50	6-11		TDT1530
	12-17		TDT1425
	18-22		TDT1325
	23-31		TXT1225 TXT1215
	32-46		TXT1024 TXT1015
	47-69		TXT926 TXT915
	70-75		TXT815 TXT825
	76-110		TXT815
	111-120		TXT715+ TXT709+
	121-123	TXT805	TXT709+
	124-200	TXT705	TXT709+
	201-400	TXT705	
60	7-14		TDT1530
	15-21		TDT1425
	22-28		TDT1325
	29-38		TXT1225 TXT1215
	39-56		TXT1024 TXT1015
	57-75		TXT926 TXT915
	76-85		TXT915
	86-115		TXT815
	116-141	TXT805	
	142-161	TXT805	TXT709+
	162-200	TXT705	TXT709+
	201-400	TXT705	
75	9-17		TDT1530
	18-26		TDT1425
	27-36		TDT1325
	37-49		TXT1225 TXT1215
	50-72		TXT1024 TXT1015
	73-75		TXT915+ TXT926+
	76-120		TXT915+
	121-165	TXT905	
	166-234	TXT805	
	235-400	TXT705	
100	12-23		TDT1530
	24-36		TDT1425
	37-51		TDT1325
	52-68		TXT1225+ TXT1215+
	69-120		TXT1015
	175-259	TXT905	
	260-387	TXT805+	
	388-400	TXT705+	

HP	OUTPUT RPM	REDUCER SELECTION	
		SINGLE	DOUBLE
125	16-30		TDT1530
	31-43		TDT1425
	44-46		TDT1425+
	47-67		TDT1325
	68-70		TXT1225+ TXT1215+
	71-75		TXT1215+ TXT1225+
	76-90		TXT1215+
150	91-120		TXT1015+
	19-36		TDT1530
	37-41		TDT1425
	42-58		TDT1425+
	59-75		TDT1325+
200	83-110		TXT1215*
	27-50		TDT1530
	51-75		TDT1425*
250	34-57		TDT1530
	66-75		TDT1425*
300	41-57		TDT1530
350	50-57		TDT1530

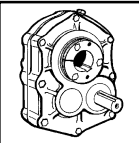
★ See page G1-189 for lubrication for 15 RPM and slower.

+ Fan cooling required - see page G1-77.

* Heat exchanger required - see page G1-77.

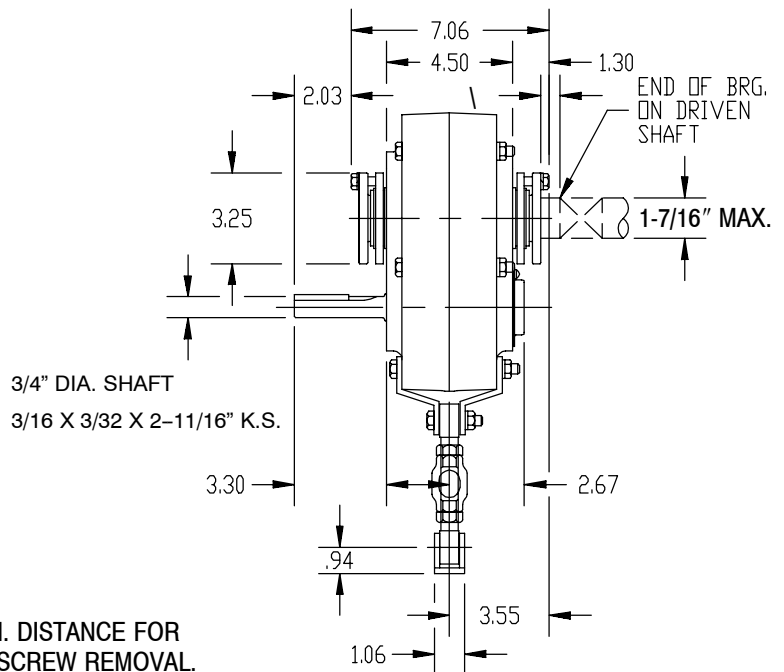
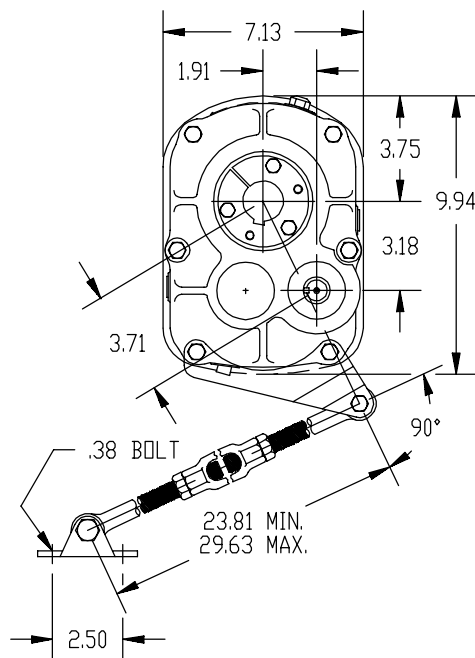
NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	DIMENSIONS PAGES G1-26-G1-67	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80
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SELECTION/DIMENSIONS



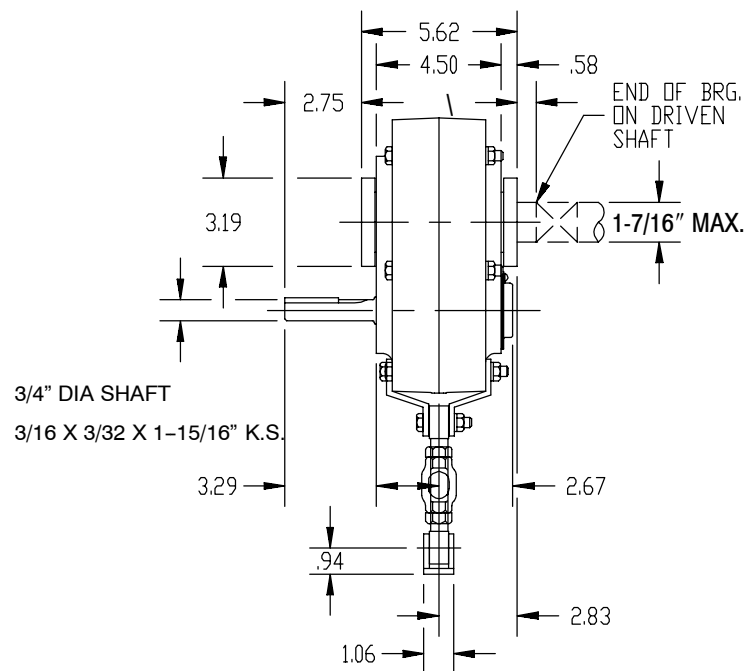
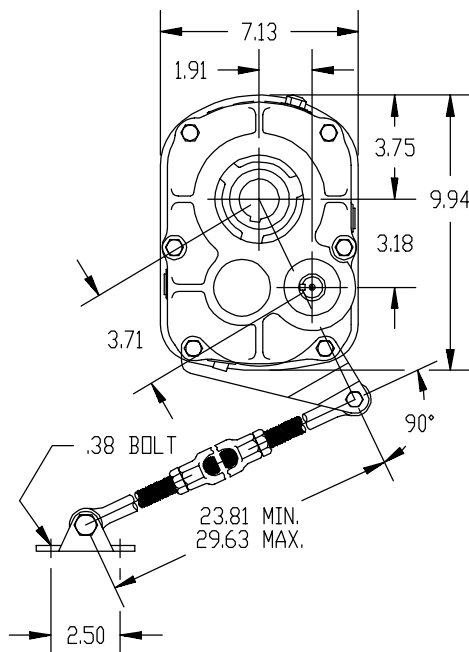
TORQUE-ARM Shaft Mount Speed Reducers

TXT1 - DOUBLE REDUCTION TAPER BUSHED



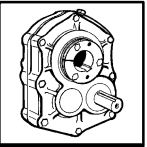
* 1.25" MIN. DISTANCE FOR
BUSHING SCREW REMOVAL.

TXT1 - DOUBLE REDUCTION STRAIGHT BORE



NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS



TORQUE-ARM Shaft Mount Speed Reducers

TXT1 Taper Bushed Reducers ■

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT109T	241092	107D09	9.44	45
TXT115T	241065	107D15	15.35	45
TXT125T	241066	107D25	25.64	45
TXT115TV	241067 ♣	107D15	15.35	45
TXT125TV	241068 ♣	107D25	25.64	45

TXT1 Straight Bore Reducers ■

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT109S	241327 ♣	107D09	9.44	45
TXT115S	241073	107D15	15.35	45
TXT125S	241074	107D25	25.64	45
TXT115SV	241075 ♣	107D15	15.35	45
TXT125SV	241076 ♣	107D25	25.64	45

TXT1 Accessories

Description	Part Number	Weight
TA1M Standard Motor Mount (56T-215T)	241391	37.3
TAB1 Bottom Motor Mount (56T-215T)	241421	34
TXT1 Backstop Assembly	242101	.8
Optional Filter Breather (3/8-18 NPT)	430048	.2
TXT1-D TA Reducer Belt Guard (56T-215T)	241395	30
TXT1 Taconite Auxiliary Seal Kit ♥	272515	4.4
TAL1 Long Side Mounting Brackets	241412	3.8
TAS1 Short Side Mounting Brackets	241410	3.1

TXT1 Bushing Assemblies ●

Stock Bore Size	Part Number		Shaft Keyseat Required †		Weight	
	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing
1-7/16 (Max.)	241292	◆	3/8 x 3/16 x 6-7/16	3/8 x 3/16 x 2	2	—
1-3/8	241294	—	5/16 x 5/32 x 6-7/16	—	1.8	—
1-5/16 ▲	241290	241347	5/16 x 5/32 x 6-7/16	5/16 x 5/32 x 2	1.8	.4
1-1/4 ▲	241288	241346	1/4 x 1/8 x 6-7/16	1/4 x 1/8 x 2	2	.6
1-3/16 ▲	241286	241345	1/4 x 1/8 x 6-7/16	1/4 x 1/8 x 2	2.2	.6
1-1/8 ▲	241282	241344	1/4 x 1/8 x 6-7/16	1/4 x 1/8 x 1-3/4	2.2	.6
1 ▲	241278	241342	1/4 x 1/8 x 6-7/16	1/4 x 1/8 x 1-3/4	2.5	1

♣ Made to order.

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

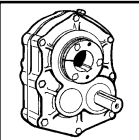
◆ Preferred bore. No bushing required for this bore size.

■ See page G1-191 for drill and tap dimensions for Flange Mount TXT Reducers.

● Taper Bushed Reducers require bushing for all bore sizes.

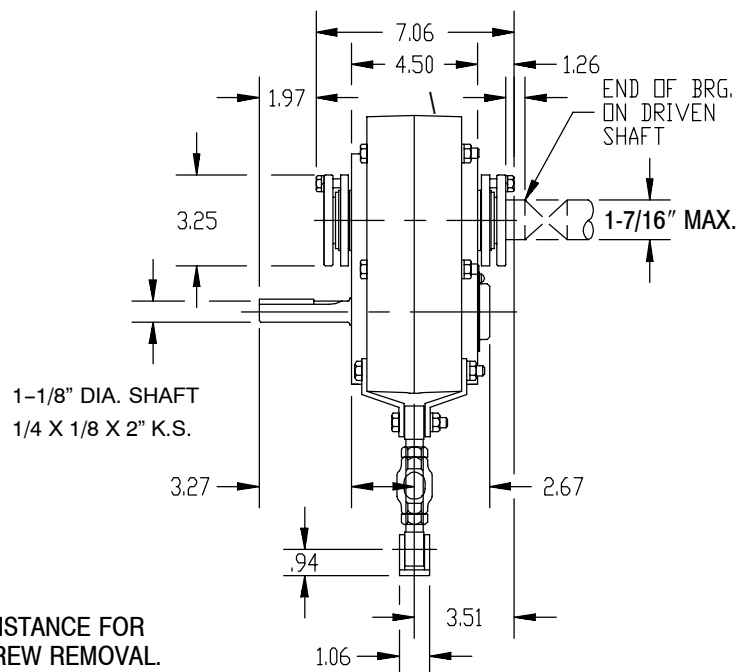
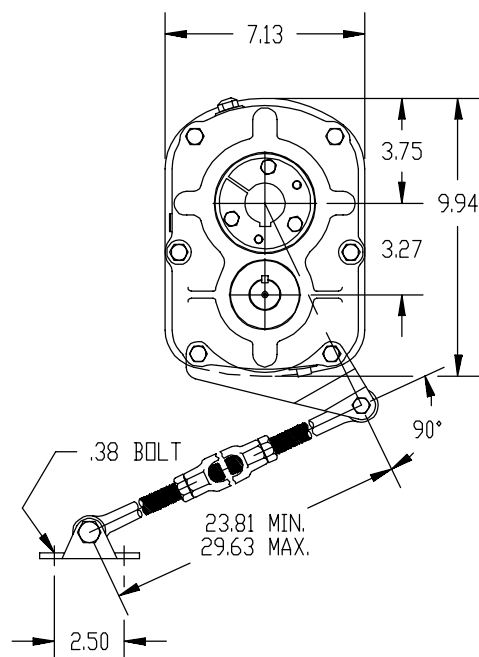
♥ Use with Taper Bushed Reducer only. See page G1-192 for drill and tap information required to mount to reducer.

NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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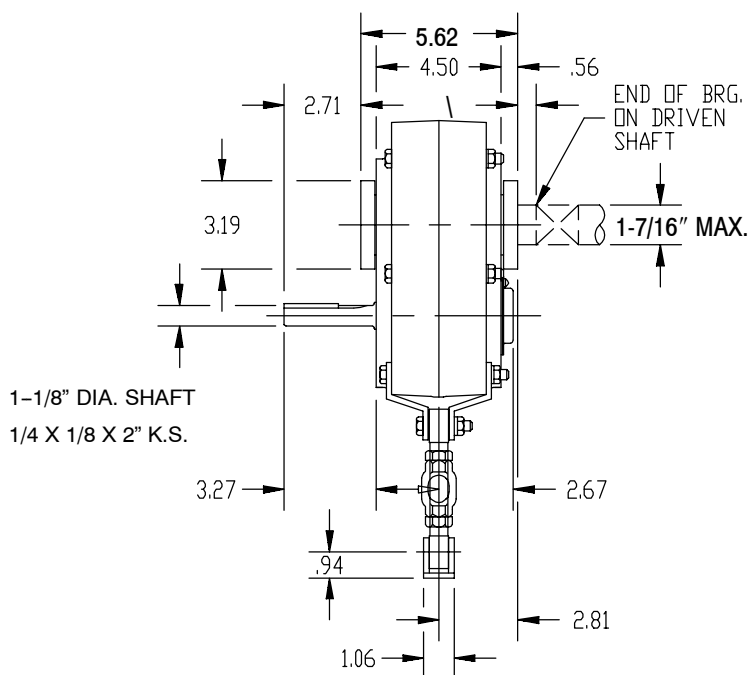
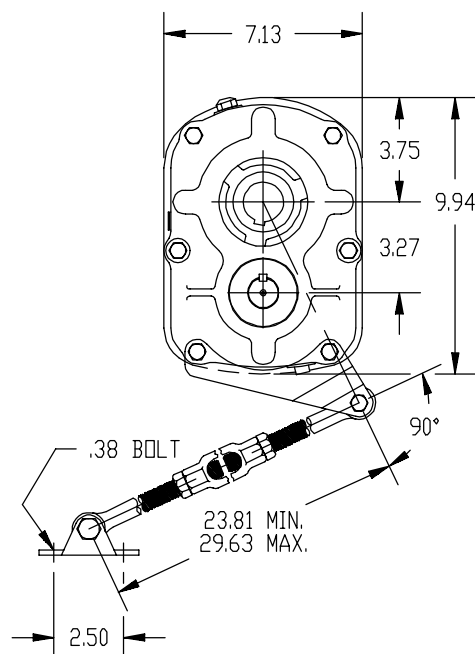
TORQUE-ARM Shaft Mount Speed Reducers

TXT105 - SINGLE REDUCTION TAPER BUSHED



*** 1.25" MIN. DISTANCE FOR
BUSHING SCREW REMOVAL.**

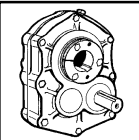
TXT105 - SINGLE REDUCTION STRAIGHT BORE



1-1/8" DIA. SHAFT
1/4 X 1/8 X 2" K.S.

NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS



TORQUE-ARM Shaft Mount Speed Reducers

TXT105 Taper Bushed Reducers ■ ○

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT105T	241083	107S05	5.62	40
TXT105TV	241083	107S05	5.62	40

TXT105 Accessories

Description	Part Number	Weight
TA1M Standard Motor Mount (56T-215T)	241391	37.3
TAB1 Bottom Motor Mount (56T-215T) ♠	241421	34
TXT105 Backstop Assembly	242101	.8
Optional Filter Breather (3/8-18 NPT)	430048	.2
TXT1-S TA Reducer Belt Guard (56T-215T)	241397	30
TXT105 Taconite Auxiliary Seal Kit ♥	272521	5
TAL1 Long Side Mounting Brackets	241412	3.8
TAS1 Short Side Mounting Brackets	241410	3.1

TXT105 Straight Bore Reducers ■ ○

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT105S	241087	107S05	5.62	40
TXT105SV	241087	107S05	5.62	40

TXT1 Bushing Assemblies ●

Stock Bore Size	Part Number		Shaft Keyseat Required †		Weight	
	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing
1-7/16 (Max.)	241292	◆	3/8 x 3/16 x 6-7/16	3/8 x 3/16 x 2	2	—
1-3/8	241294	—	5/16 x 5/32 x 6-7/16	—	1.8	—
1-5/16 ▲	241290	241347	5/16 x 5/32 x 6-7/16	5/16 x 5/32 x 2	1.8	.4
1-1/4 ▲	241288	241346	1/4 x 1/8 x 6-7/16	1/4 x 1/8 x 2	2	.6
1-3/16 ▲	241286	241345	1/4 x 1/8 x 6-7/16	1/4 x 1/8 x 2	2.2	.6
1-1/8 ▲	241282	241344	1/4 x 1/8 x 6-7/16	1/4 x 1/8 x 1-3/4	2.2	.6
1 ▲	241278	241342	1/4 x 1/8 x 6-7/16	1/4 x 1/8 x 1-3/4	2.5	1

○ Stock TXT105 Reducers are drilled for vertical mounting

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

◆ Preferred bore. No bushing required for this bore size.

■ See page G1-191 for drill and tap dimensions for Flange Mount TXT Reducers.

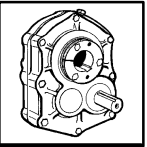
♠ DODGE standard belt guards will not fit this motor mount.

● Taper Bushed Reducers require bushing for all bore sizes.

♥ Use with Taper Bushed Reducer only. See page G1-192 for drill and tap information required to mount to reducer.

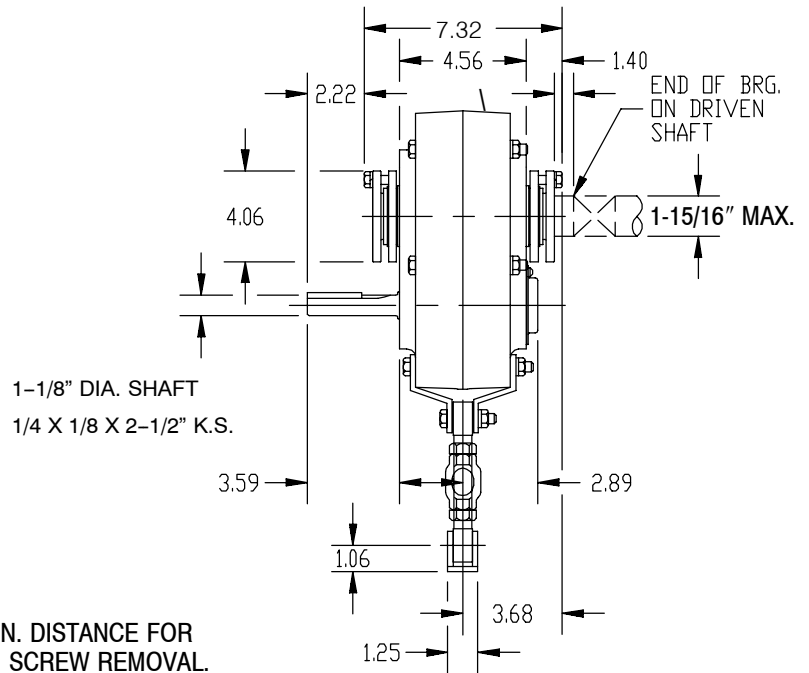
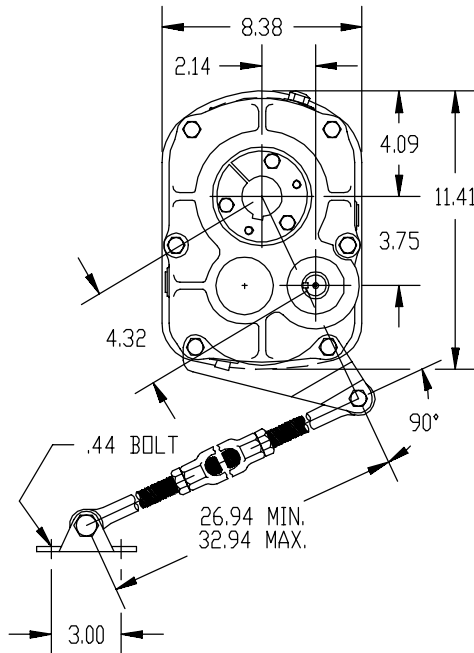
NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS



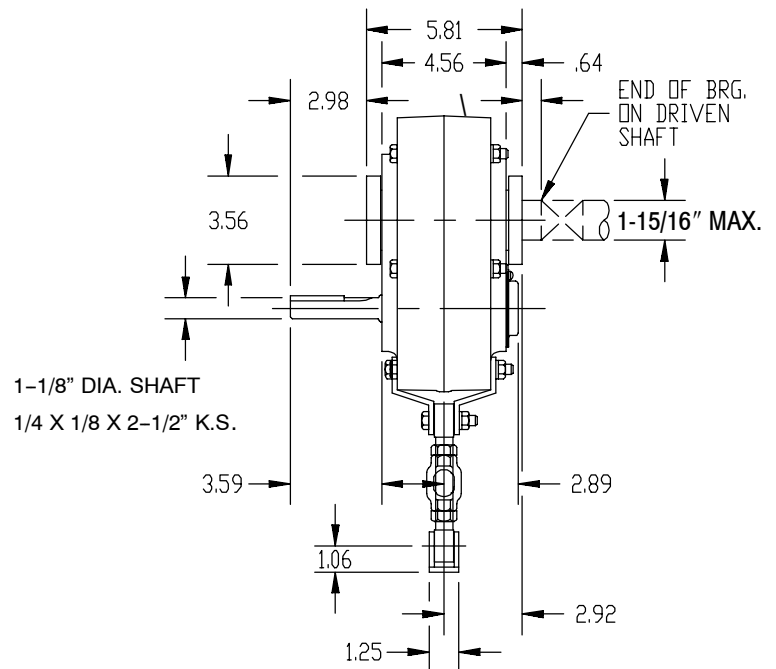
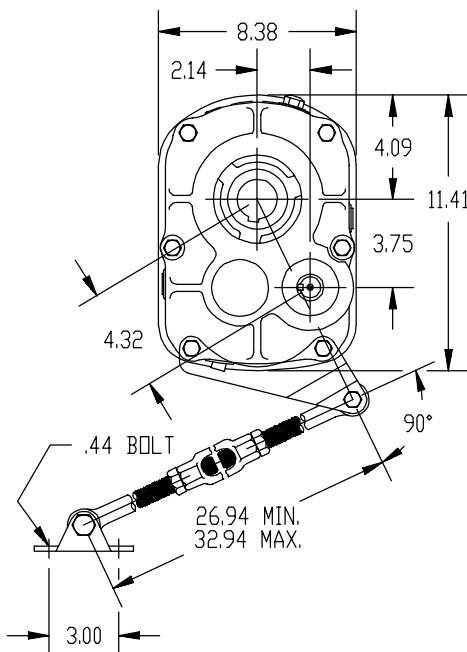
TORQUE-ARM Shaft Mount Speed Reducers

TXT2 - DOUBLE REDUCTION TAPER BUSHED



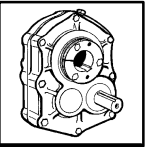
* 1.25" MIN. DISTANCE FOR
BUSHING SCREW REMOVAL.

TXT2 - DOUBLE REDUCTION STRAIGHT BORE



NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS



TORQUE-ARM Shaft Mount Speed Reducers

TXT2 Taper Bushed Reducers ■

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT209T	242079	115D09	9.25	58
TXT215T	242082	115D15	14.10	58
TXT225T	242083	115D25	23.46	58
TXT215TV	242084	115D15	14.10	58
TXT225TV	242085	115D25	23.46	58

TXT2 Straight Bore Reducers ■

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT209S	242327 ♣	115D09	9.25	58
TXT215S	242090	115D15	14.10	58
TXT225S	242091	115D25	23.46	58
TXT215SV	242092	115D15	14.10	58
TXT225SV	242093	115D25	23.46	58

TXT2 Accessories

Description	Part Number	Weight
TA1M Standard Motor Mount (56T-215T)	241391	37.3
TAB2 Bottom Motor Mount (56T-215T) ♠	242421	34
TXT2 Backstop Assembly	252101	1
Optional Filter Breather (3/8-18 NPT)	430048	.2
TXT2-D TA Reducer Belt Guard (56T-215T)	242395	36
TXT2 Taconite Auxiliary Seal Kit ♥	272446	5.5
TAL2 Long Side Mounting Brackets	242412	3.8
TAS2 Short Side Mounting Brackets	242410	4.2

TXT2 Bushing Assemblies ●

Stock Bore Size	Part Number		Shaft Keyseat Required †		Weight	
	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing
1-15/16 (Max.)	242168	◆	1/2 x 1/4 x 6-11/16	1/2 x 1/4 x 2-1/2	2.9	—
1-3/4	242166	242351	3/8 x 3/16 x 6-11/16	3/8 x 3/16 x 2-7/8	3.3	.8
1-11/16	242164	242350	3/8 x 3/16 x 6-11/16	3/8 x 3/16 x 2-7/8	3.4	1.1
1-5/8 ▲	242162	242349	3/8 x 3/16 x 6-11/16	3/8 x 3/16 x 2-7/8	3.2	1.2
1-1/2 ▲	242158	242348	3/8 x 3/16 x 6-11/16	3/8 x 3/16 x 2-1/2	3.8	1.5
1-7/16 ▲	242156	242347	3/8 x 3/16 x 6-11/16	3/8 x 3/16 x 2-1/2	4	1.7
1-3/8 ▲	242154	242346	5/16 x 5/32 x 6-11/16	5/16 x 5/32 x 2	3.6	1.8
1-5/16 ▲	242152	242345	5/16 x 5/32 x 6-11/16	5/16 x 5/32 x 2	3.6	1.8
1-1/4 ▲	242150	242344	1/4 x 1/8 x 6-11/16	1/4 x 1/8 x 2	3.6	2.1
1-3/16 ▲	242148	242343	1/4 x 1/8 x 6-11/16	1/4 x 1/8 x 2	3.6	2.2
1-1/8 ▲	242146	—	1/4 x 1/8 x 6-11/16	—	3.8	—

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

◆ Preferred bore. No bushing required for this bore size.

♠ DODGE standard belt guards will not fit this motor mount

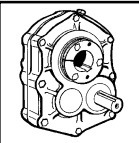
■ See page G1-191 for drill and tap dimensions for Flange Mount TXT Reducers.

● Taper Bushed Reducers require bushing for all bore sizes.

♥ Use with Taper Bushed Reducer only. See page G1-192 for drill and tap information required to mount to reducer.

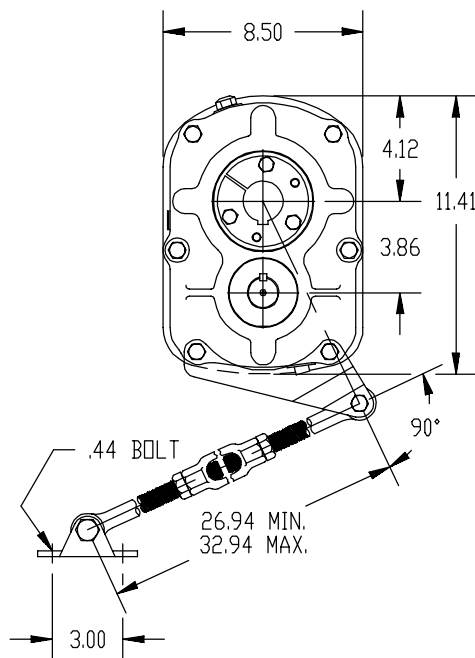
NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS



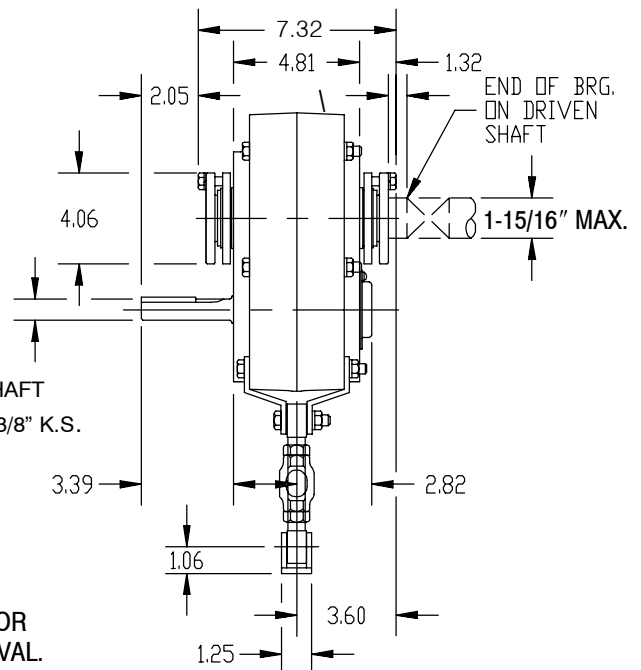
TORQUE-ARM Shaft Mount Speed Reducers

TXT205 - SINGLE REDUCTION TAPER BUSHED

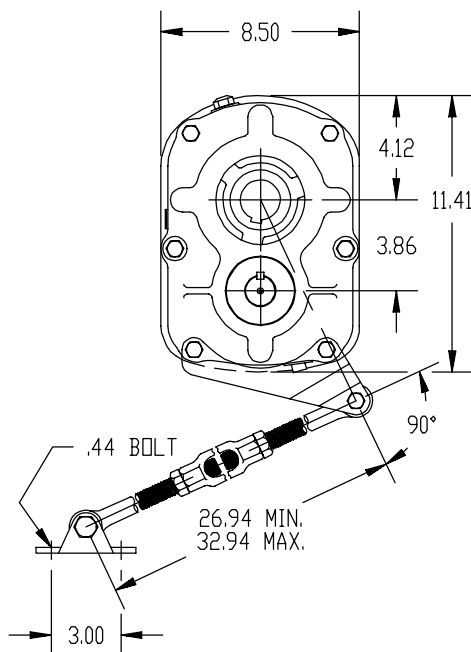


1-7/16" DIA. SHAFT
3/8 X 3/16 X 2-3/8" K.S.

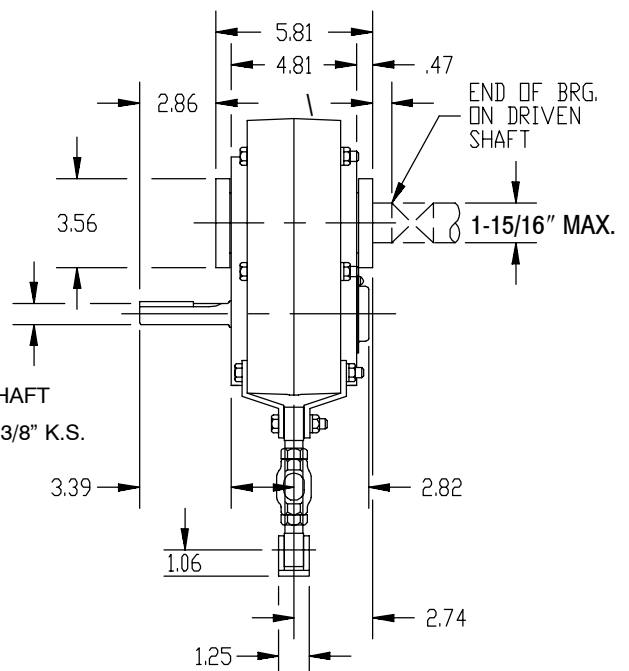
* 1.25" MIN. DISTANCE FOR
BUSHING SCREW REMOVAL.



TXT205 - SINGLE REDUCTION STRAIGHT BORE



1-7/16" DIA. SHAFT
3/8 X 3/16 X 2-3/8" K.S.



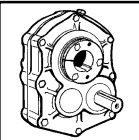
NOMENCLATURE
PAGES G1-10-G1-11

SELECTION
PAGES G1-12-G1-25

MODIFICATIONS/ACCESSORIES
PAGES G1-68-G1-80

ENGINEERING/TECHNICAL
PAGES G1-187-G1-201

SELECTION/DIMENSIONS



TORQUE-ARM Shaft Mount Speed Reducers

TXT205 Taper Bushed Reducers ■ ○

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT205T	242249	115S05	5.29	52
TXT205TV	242249	115S05	5.29	52

TXT205 Accessories

Description	Part Number	Weight
TA1M Standard Motor Mount (56T-215T)	241391	37.3
TAB2 Bottom Motor Mount (56T-215T) ♠	242421	34
TXT205 Backstop Assembly	252101	1
Optional Filter Breather (3/8-18 NPT)	430048	.2
TXT2-S TA Reducer Belt Guard (56T-215T)	242397	36
TXT205 Taconite Auxiliary Seal Kit ♥	272459	5.8
TAL2 Long Side Mounting Brackets	242412	3.8
TAS2 Short Side Mounting Brackets	242410	4.2

TXT205 Straight Bore Reducers ■ ○

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT205S	242253	115S05	5.29	52
TXT205SV	242253	115S05	5.29	52

TXT2 Bushing Assemblies ●

Stock Bore Size	Part Number		Shaft Keyseat Required †		Weight	
	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing
1-15/16 (Max.)	242168	◆	1/2 x 1/4 x 6-11/16	1/2 x 1/4 x 2-1/2	2.9	—
1-3/4	242166	242351	3/8 x 3/16 x 6-11/16	3/8 x 3/16 x 2-7/8	3.3	.8
1-11/16	242164	242350	3/8 x 3/16 x 6-11/16	3/8 x 3/16 x 2-7/8	3.4	1.1
1-5/8 ▲	242162	242349	3/8 x 3/16 x 6-11/16	3/8 x 3/16 x 2-7/8	3.2	1.2
1-1/2 ▲	242158	242348	3/8 x 3/16 x 6-11/16	3/8 x 3/16 x 2-1/2	3.8	1.5
1-7/16 ▲	242156	242347	3/8 x 3/16 x 6-11/16	3/8 x 3/16 x 2-1/2	4	1.7
1-3/8 ▲	242154	242346	5/16 x 5/32 x 6-11/16	5/16 x 5/32 x 2	3.6	1.8
1-5/16 ▲	242152	242345	5/16 x 5/32 x 6-11/16	5/16 x 5/32 x 2	3.6	1.8
1-1/4 ▲	242150	242344	1/4 x 1/8 x 6-11/16	1/4 x 1/8 x 2	3.6	2.1
1-3/16 ▲	242148	242343	1/4 x 1/8 x 6-11/16	1/4 x 1/8 x 2	3.6	2.2
1-1/8 ▲	242146	—	1/4 x 1/8 x 6-11/16	—	3.8	—

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

◆ Preferred bore. No bushing required for this bore size.

♠ DODGE standard belt guards will not fit this motor mount

■ See page G1-191 for drill and tap dimensions for Flange

Mount TXT Reducers.

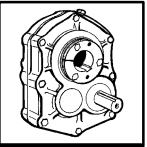
● Taper Bushed Reducers require bushing for all bore sizes.

♥ Use with Taper Bushed Reducer only. See page G1-192 for drill and tap information required to mount to reducer.

○ Stock TXT205 Reducers are drilled for vertical mounting.

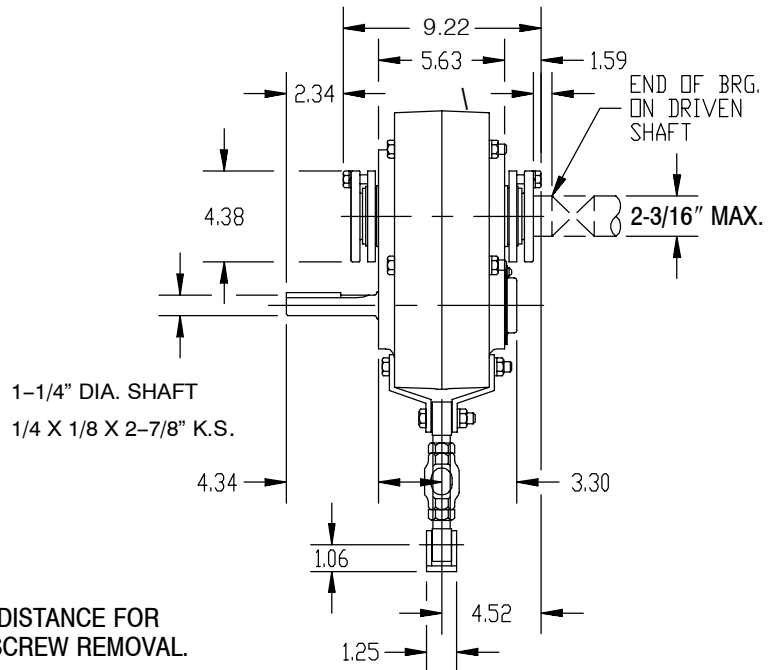
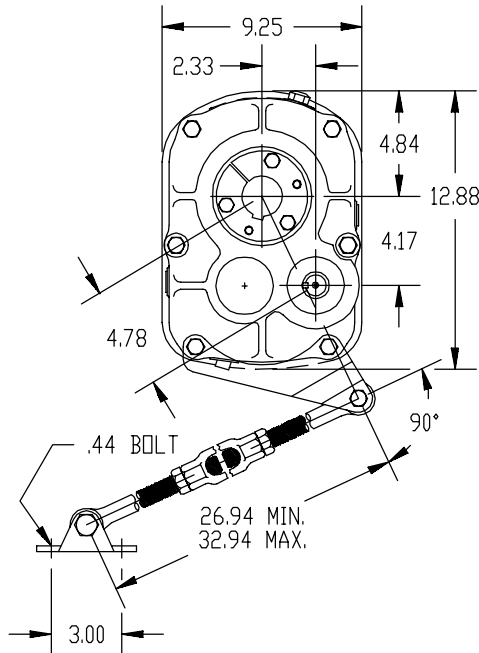
NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS



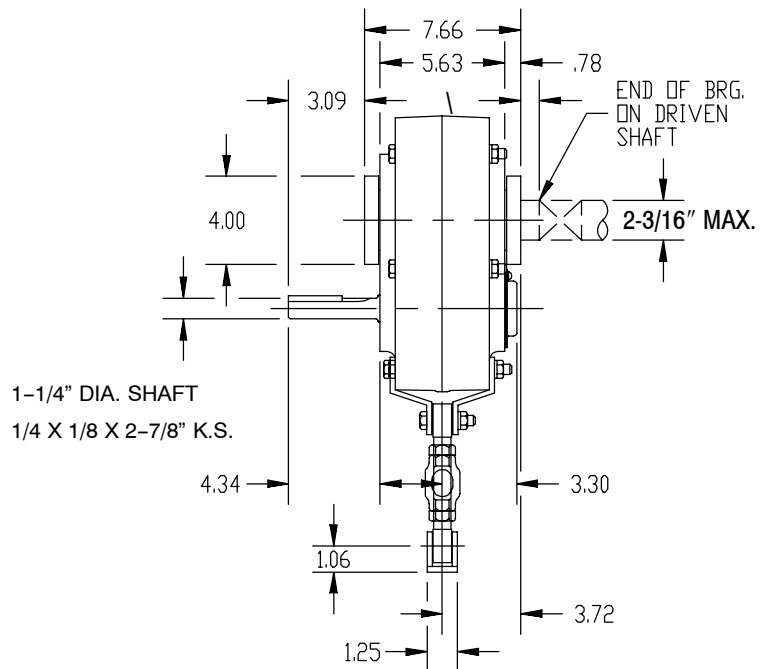
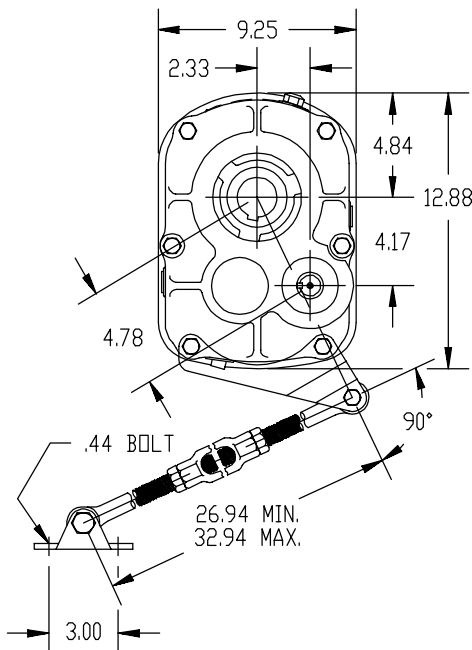
TORQUE-ARM Shaft Mount Speed Reducers

TXT3A - DOUBLE REDUCTION TAPER BUSHED



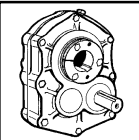
* 1.5" MIN. DISTANCE FOR
BUSHING SCREW REMOVAL.

TXT3A - DOUBLE REDUCTION STRAIGHT BORE



NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS



TORQUE-ARM Shaft Mount Speed Reducers

TXT3A Taper Bushed Reducers ■

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT309AT	243500	203D09	8.91	98
TXT315AT	243501	203D15	14.88	98
TXT325AT	243502	203D25	24.71	98
TXT309ATV	243503 ♣	203D09	8.91	98
TXT315ATV	243504	203D15	14.88	98
TXT325ATV	243505	203D25	24.71	98

TXT3A Accessories

Description	Part Number	Weight
TA3M Standard Motor Mount (56T-215T)	243391	38
TA3M Special Motor Mount (254T-256T) ♠	243393	45
TA3ML Long Motor Mount (143T-215T)	243392	42
TAB3 Bottom Motor Mount (143T-286T) ♠	243404	54
TXT3A Backstop Assembly	243106	.6
Optional Filter Breather (3/8-18 NPT)	430048	.2
TXT3-D TA Reducer Belt Guard (56T-215T)	243387	43
TXT3ML TA Reducer Belt Guard for Long Motor Mount (56T-215T) ♣	243153	52
TXT3A Cooling Fan Assembly	243581	3
TXT3A Taconite Auxiliary Seal Kit ♥	243577	7.3
TAL3 Long Side Mounting Brackets	243412	5.8
TAS3 Short Side Mounting Brackets	243410	4.9

TXT3A Straight Bore Reducers ■

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT309AS	243512 ♣	203D09	8.91	98
TXT315AS	243513	203D15	14.88	98
TXT325AS	243514	203D25	24.71	98
TXT309ASV	243515 ♣	203D09	8.91	98
TXT315ASV	243516	203D15	14.88	98
TXT325ASV	243517	203D25	24.71	98

TXT3 Bushing Assemblies ●

Stock Bore Size	Part Number		Shaft Keyseat Required †		Weight	
	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing
2-3/16 (Max.)	243276	◆	1/2 x 1/4 x 8-1/16	1/2 x 1/4 x 3-5/8	3.7	—
2	243274	243429	1/2 x 1/4 x 8-1/16	1/2 x 1/4 x 3-5/8	4.1	1
1-15/16	243272	243428	1/2 x 1/4 x 8-1/16	1/2 x 1/4 x 3-5/8	4.4	1.2
1-7/8 ▲	243270	243427	1/2 x 1/4 x 8-1/16	1/2 x 1/4 x 3-5/8	4.3	1.9
1-3/4 ▲	243266	243426	3/8 x 3/16 x 8-1/16	3/8 x 3/16 x 3-1/4	4.8	1.9
1-11/16 ▲	243268	243425	3/8 x 3/16 x 8-1/16	3/8 x 3/16 x 3-1/4	4.8	2.2
1-5/8 ▲	243264	243424	3/8 x 3/16 x 8-1/16	3/8 x 3/16 x 2-1/4	4.8	2.3
1-1/2 ▲	243262	243423	3/8 x 3/16 x 8-1/16	3/8 x 3/16 x 2-1/4	5.4	2.5
1-7/16 ▲	243260	243422	3/8 x 3/16 x 8-1/16	3/8 x 3/16 x 2-1/4	5.6	2.7
1-3/8 ▲	243284	243421	5/16 x 5/32 x 8-1/16	5/16 x 5/32 x 2-1/4	5.8	3.2
1-5/16 ▲	243282	243420	5/16 x 5/32 x 8-1/16	5/16 x 5/32 x 2-1/4	5.8	3.8

♣ Made to order.

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

◆ Preferred bore. No bushing required for this bore size.

♠ DODGE standard belt guards will not fit this motor mount.

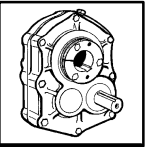
■ See page G1-191 for drill and tap dimensions for Flange Mount TXT Reducers.

● Taper Bushed Reducers require bushing for all bore sizes.

♥ Use with Taper Bushed Reducer only. See page G1-192 for drill and tap information required to mount to reducer.

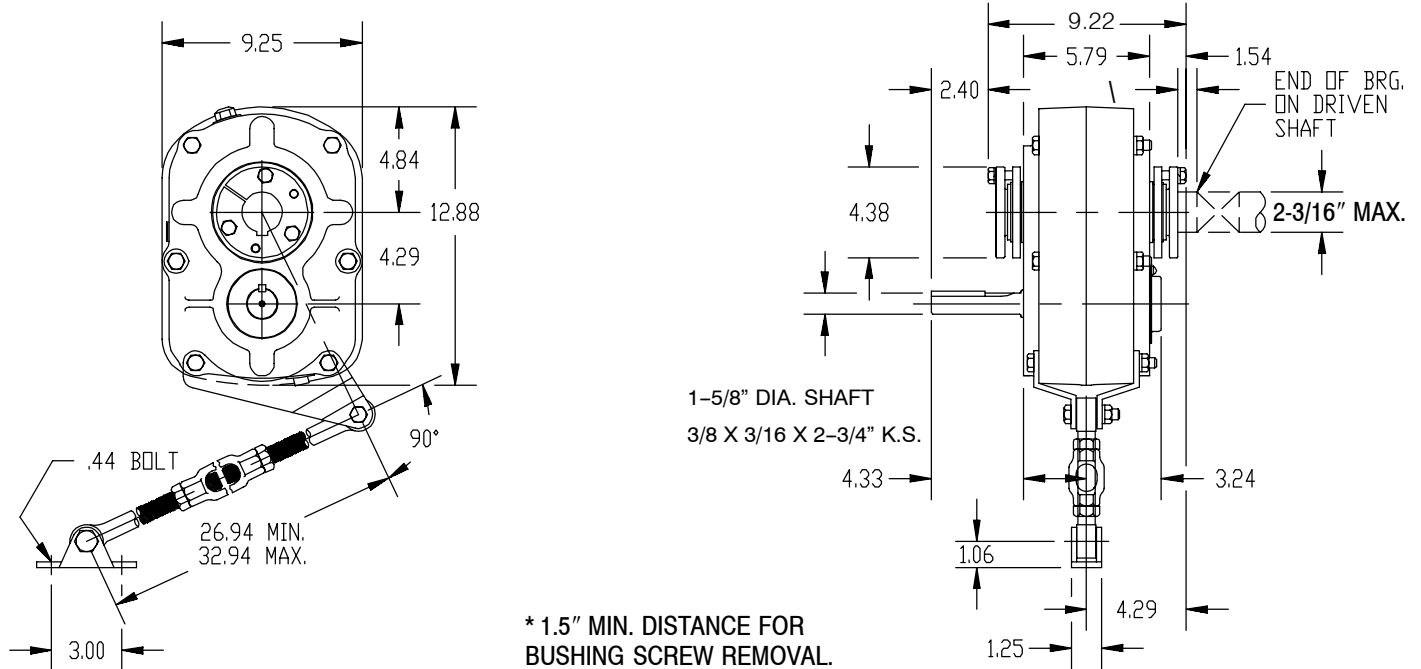
NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS

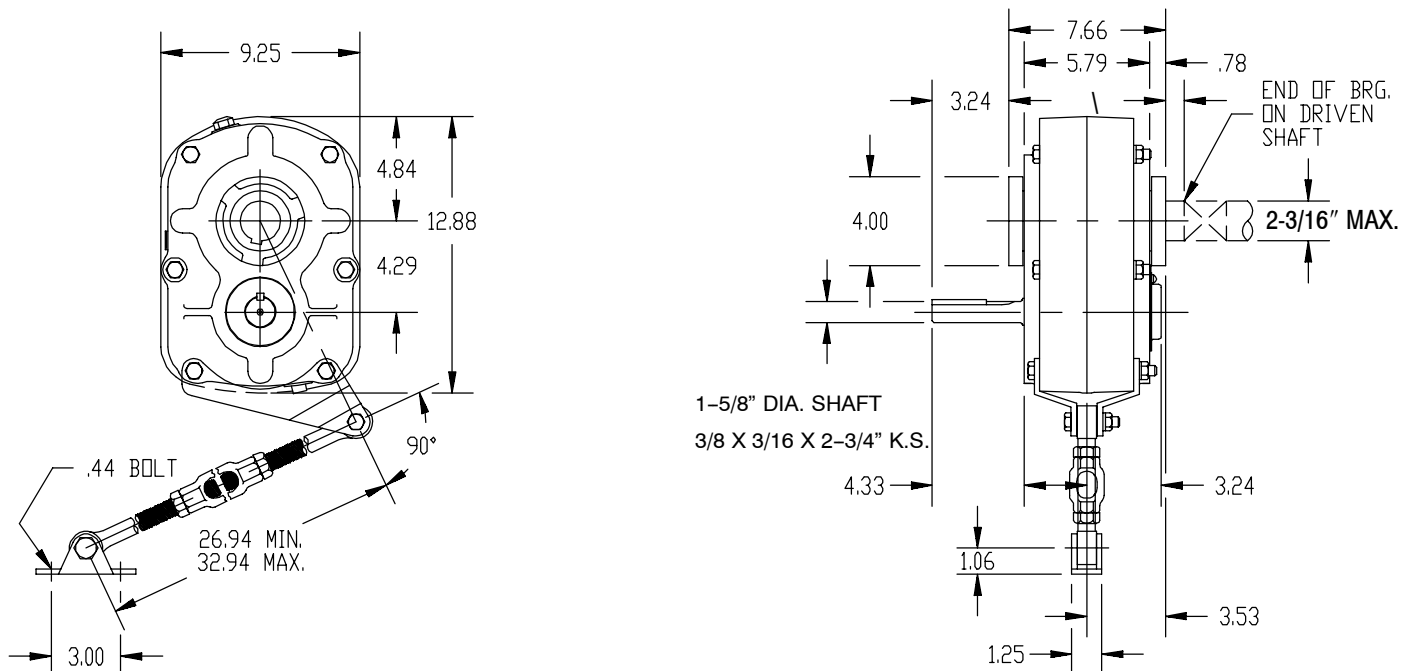


TORQUE-ARM Shaft Mount Speed Reducers

TXT305A - SINGLE REDUCTION TAPER BUSHED

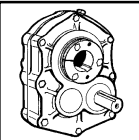


TXT305A - SINGLE REDUCTION STRAIGHT BORE



NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS



TORQUE-ARM Shaft Mount Speed Reducers

TXT305A Taper Bushed Reducers ■ ○

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT305AT	253151	203S05	5.60	86
TXT305ATV	253151	203S05	5.60	86

TXT305A Straight Bore Reducers ■ ○

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT305AS	253155	203S05	5.60	86
TXT305ASV	253155	203S05	5.60	86

TXT305A Accessories

Description	Part Number	Weight
TA3M Standard Motor Mount (56T-215T)	243391	38
TA3M Special Motor Mount (254T-256T) ♣	243393	45
TA3ML Long Motor Mount (143T-215T)	243392	42
TAB3 Bottom Motor Mount (143T-286T) ♠	243404	54
TXT305A Backstop Assembly	252101	1
Optional Filter Breather (3/8-18 NPT)	430048	.2
TXT3-S TA Reducer Belt Guard (56T-215T)	243389	43
TXT3-S TA Reducer Belt Guard for Long Motor Mount (56T-215T) ♣	243164	55
TXT305A Cooling Fan Assembly	253188	3
TXT305A Taconite Auxiliary Seal Kit ♥	253186	7.6
TAL3 Long Side Mounting Brackets	243412	5.8
TAS3 Short Side Mounting Brackets	243410	4.9

TXT3 Bushing Assemblies ●

Stock Bore Size	Part Number		Shaft Keyseat Required †		Weight	
	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing
2-3/16 (Max.)	243276	◆	1/2 x 1/4 x 8-1/16	1/2 x 1/4 x 3-5/8	3.7	—
2	243274	243429	1/2 x 1/4 x 8-1/16	1/2 x 1/4 x 3-5/8	4.1	1
1-15/16	243272	243428	1/2 x 1/4 x 8-1/16	1/2 x 1/4 x 3-5/8	4.4	1.2
1-7/8 ▲	243270	243427	1/2 x 1/4 x 8-1/16	1/2 x 1/4 x 3-5/8	4.3	1.9
1-3/4 ▲	243266	243426	3/8 x 3/16 x 8-1/16	3/8 x 3/16 x 3-1/4	4.8	1.9
1-11/16 ▲	243268	243425	3/8 x 3/16 x 8-1/16	3/8 x 3/16 x 3-1/4	4.8	2.2
1-5/8 ▲	243264	243424	3/8 x 3/16 x 8-1/16	3/8 x 3/16 x 2-1/4	4.8	2.3
1-1/2 ▲	243262	243423	3/8 x 3/16 x 8-1/16	3/8 x 3/16 x 2-1/4	5.4	2.5
1-7/16 ▲	243260	243422	3/8 x 3/16 x 8-1/16	3/8 x 3/16 x 2-1/4	5.6	2.7
1-3/8 ▲	243284	243421	5/16 x 5/32 x 8-1/16	5/16 x 5/32 x 2-1/4	5.8	3.2
1-5/16 ▲	243282	243420	5/16 x 5/32 x 8-1/16	5/16 x 5/32 x 2-1/4	5.8	3.8

♣ Made to order.

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

◆ Preferred bore. No bushing required for this bore size.

♠ DODGE standard belt guards will not fit this motor mount.

■ See page G1-191 for drill and tap dimensions for Flange Mount TXT Reducers.

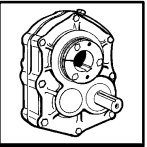
● Taper Bushed Reducers require bushing for all bore sizes.

♥ Use with Taper Bushed Reducer only. See page G1-192 for drill and tap information required to mount to reducer.

○ Stock TXT305A Reducers are drilled for vertical mounting.

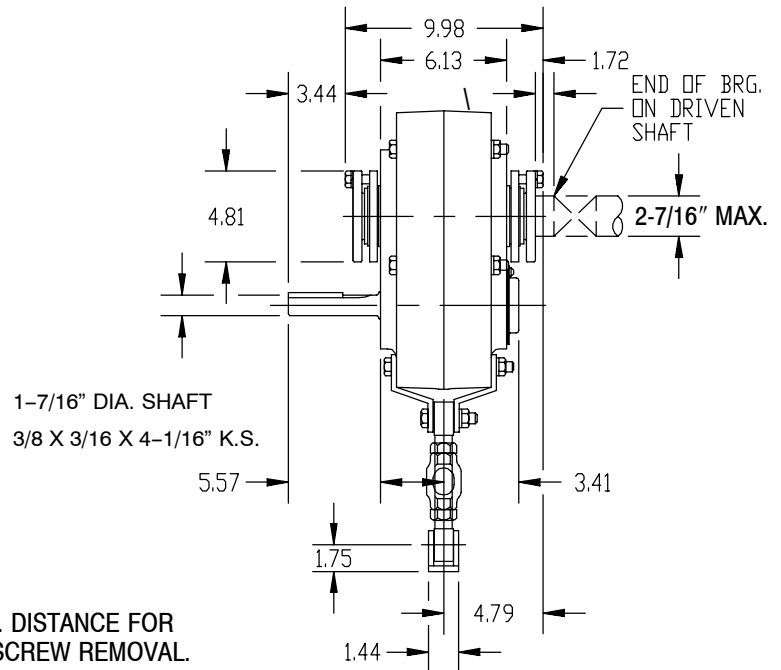
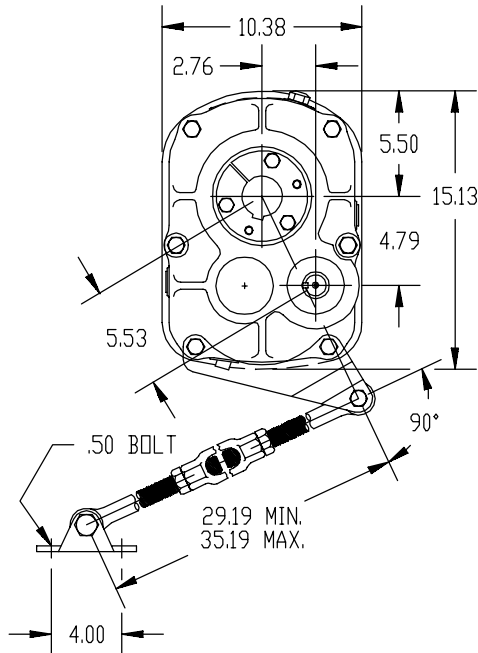
NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS



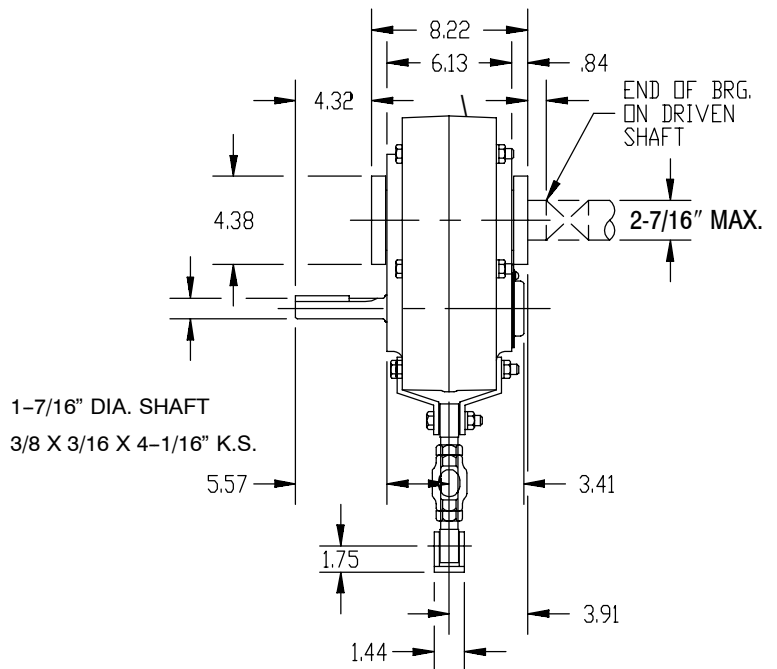
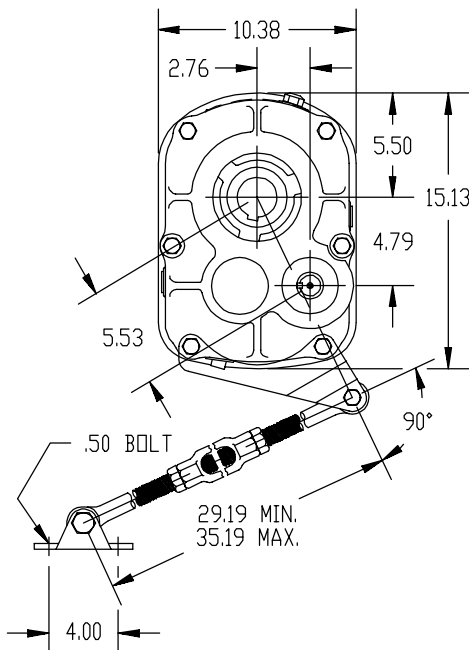
TORQUE-ARM Shaft Mount Speed Reducers

TXT4A - DOUBLE REDUCTION TAPER BUSHED



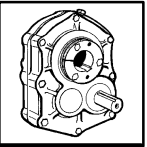
* 1.75" MIN. DISTANCE FOR
BUSHING SCREW REMOVAL.

TXT4A - DOUBLE REDUCTION STRAIGHT BORE



NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS



TORQUE-ARM Shaft Mount Speed Reducers

TXT4A Taper Bushed Reducers ■

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT409AT	244525	207D09	9.67	139
TXT415AT	244526	207D15	15.13	139
TXT425AT	244527	207D25	24.38	139
TXT409ATV	244528	207D09	9.67	139
TXT415ATV	244529	207D15	15.13	139
TXT425ATV	244530	207D25	24.38	139

TXT4A Accessories

Description	Part Number	Weight
TA4M Standard Motor Mount (143T-286T)	244391	75
TA4ML Long Motor Mount (143T-286T)	244392	75
TAB4 Bottom Motor Mount (143T-326T) ♠	244404	55
TXT4A Backstop Assembly	244106	1.2
Optional Filter Breather (3/8-18 NPT)	430048	.2
TXT4-D TA Reducer Belt Guard (143T-286T)	244395	54
TXT4-D TA Reducer Belt Guard for Long Motor Mount (143T-286T) ♣	244151	65
TXT4A Cooling Fan Assembly	272594	3
TXT4A Taconite Auxiliary Seal Kit ♥	244676	7.7
TAL4 Long Side Mounting Brackets	244412	9.2
TAS4 Short Side Mounting Brackets	244410	7.9

TXT4A Straight Bore Reducers ■

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT409AS	244537 ♣	207D09	9.67	139
TXT415AS	244538	207D15	15.13	139
TXT425AS	244539	207D25	24.38	139
TXT409ASV	244540	207D09	9.67	139
TXT415ASV	244541	207D15	15.13	139
TXT425ASV	244542	207D25	24.38	139

TXT4 Bushing Assemblies ●

Stock Bore Size	Part Number		Shaft Keyseat Required †		Weight	
	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing
2-7/16 (Max.)	244115	◆	5/8 x 5/16 x 9-1/32	5/8 x 5/16 x 3-3/8	5.8	—
2-1/4 ▲	244113	244430	1/2 x 1/4 x 9-1/32	1/2 x 1/4 x 3-3/8	6.3	1.2
2-3/16 ▲	244111	244429	1/2 x 1/4 x 9-1/32	1/2 x 1/4 x 3-3/8	6.7	1.5
2-1/8 ▲	244109	244428	1/2 x 1/4 x 9-1/32	1/2 x 1/4 x 3-3/8	7	2.6
2 ▲	244095	244427	1/2 x 1/4 x 9-1/32	1/2 x 1/4 x 4	7.1	2.6
1-15/16 ▲	244093	244426	1/2 x 1/4 x 9-1/32	1/2 x 1/4 x 4	7.4	3.5
1-3/4 ▲	244087	244424	3/8 x 3/16 x 9-1/32	3/8 x 3/16 x 2-7/16	8	3.6
1-11/16 ▲	244085	244423	3/8 x 3/16 x 9-1/32	3/8 x 3/16 x 2-7/16	8.3	3.6
1-1/2 ▲	244081	244421	3/8 x 3/16 x 9-1/32	3/8 x 3/16 x 2-7/16	8.3	4.1
1-7/16 ▲	244079	244420	3/8 x 3/16 x 9-1/32	3/8 x 3/16 x 2-7/16	8.8	4.1

♣ Made to order.

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

◆ Preferred bore. No bushing required for this bore size.

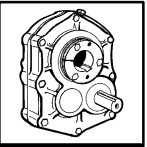
♠ DODGE standard belt guards will not fit this motor mount.

■ See page G1-191 for drill and tap dimensions for Flange Mount TXT Reducers.

● Taper Bushed Reducers require bushing for all bore sizes.

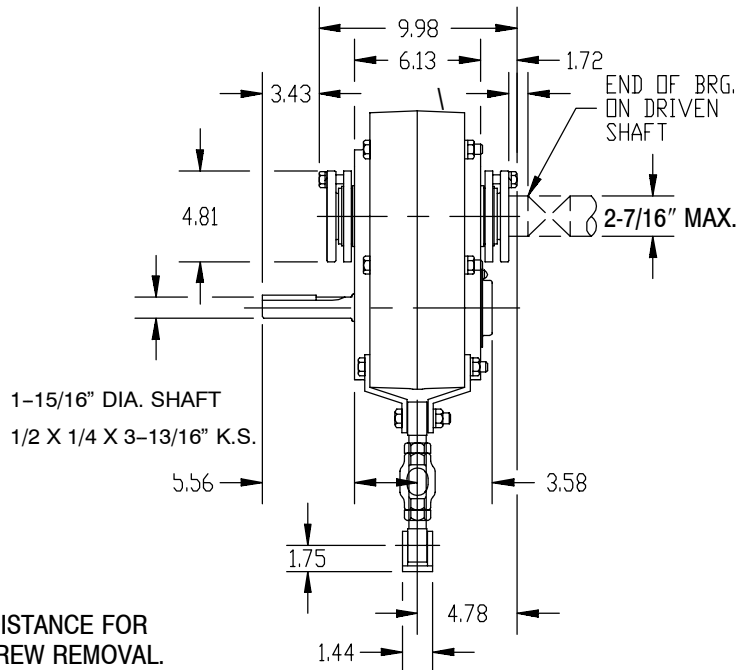
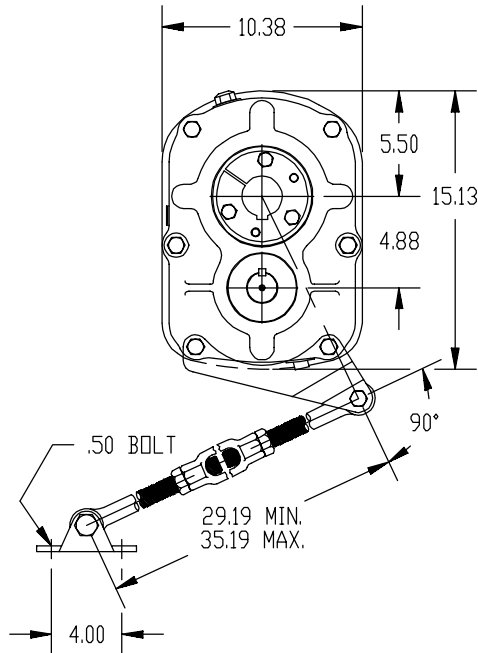
♥ Use with Taper Bushed Reducer only. See page G1-192 for drill and tap information required to mount to reducer.

NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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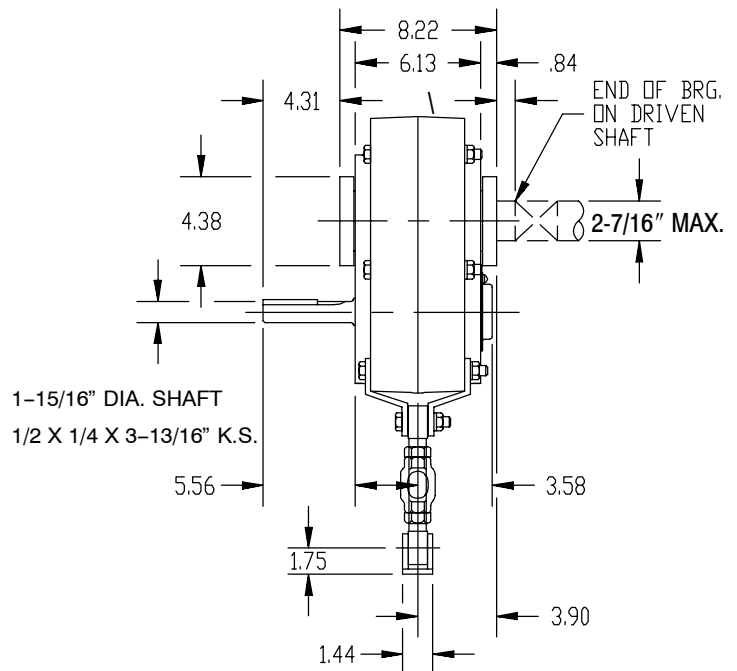
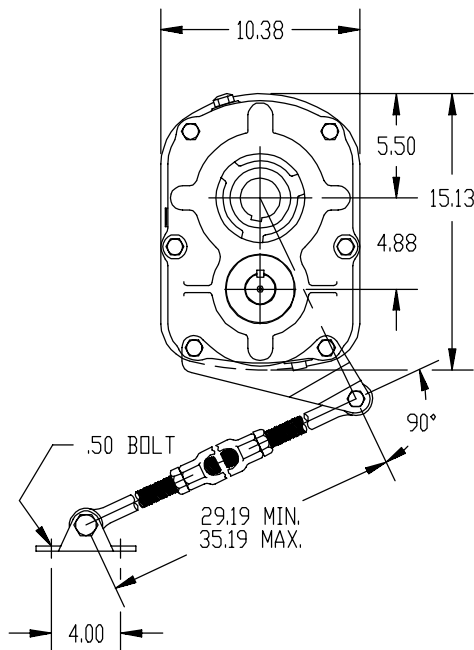
TORQUE-ARM Shaft Mount Speed Reducers

TXT405A - SINGLE REDUCTION TAPER BUSHED



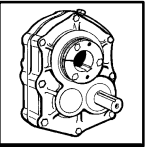
*** 1.75" MIN. DISTANCE FOR
BUSHING SCREW REMOVAL.**

TXT405A - SINGLE REDUCTION STRAIGHT BORE



NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS



TORQUE-ARM Shaft Mount Speed Reducers

TXT405A Taper Bushed Reducers ■ ○

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT405AT	254200	207S05	5.65	122
TXT405ATV	254200	207S05	5.65	122

TXT405A Straight Bore Reducers ■ ○

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT405AS	254204	207S05	5.65	122
TXT405ASV	254204	207S05	5.65	122

TXT405A Accessories

Description	Part Number	Weight
TA4M Standard Motor Mount (143T-286T)	244391	75
TA4ML Long Motor Mount (143T-286T)	244392	75
TAB4 Bottom Motor Mount (143T-326T) ♠	244404	55
TXT405A Backstop Assembly	244148	.9
Optional Filter Breather (3/8-18 NPT)	430048	.2
TXT4-S TA Reducer Belt Guard (143T-286T)	244397	54
TXT4-S TA Reducer Belt Guard for Long Motor Mount (143T-286T) ♣	244164	65
TXT405A Cooling Fan Assembly	254268	3
TXT405A Taconite Auxiliary Seal Kit ♥	254267	7.9
TAL4 Long Side Mounting Brackets	244412	9.2
TAS4 Short Side Mounting Brackets	244410	7.9

TXT4 Bushing Assemblies ●

Stock Bore Size	Part Number		Shaft Keyseat Required †		Weight	
	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing
2-7/16 (Max.)	244115	◆	5/8 x 5/16 x 9-1/32	5/8 x 5/16 x 3-3/8	5.8	—
2-1/4 ▲	244113	244430	1/2 x 1/4 x 9-1/32	1/2 x 1/4 x 3-3/8	6.3	1.2
2-3/16 ▲	244111	244429	1/2 x 1/4 x 9-1/32	1/2 x 1/4 x 3-3/8	6.7	1.5
2-1/8 ▲	244109	244428	1/2 x 1/4 x 9-1/32	1/2 x 1/4 x 3-3/8	7	2.6
2 ▲	244095	244427	1/2 x 1/4 x 9-1/32	1/2 x 1/4 x 4	7.1	2.6
1-15/16 ▲	244093	244426	1/2 x 1/4 x 9-1/32	1/2 x 1/4 x 4	7.4	3.5
1-3/4 ▲	244087	244424	3/8 x 3/16 x 9-1/32	3/8 x 3/16 x 2-7/16	8	3.6
1-11/16 ▲	244085	244423	3/8 x 3/16 x 9-1/32	3/8 x 3/16 x 2-7/16	8.3	3.6
1-1/2 ▲	244081	244421	3/8 x 3/16 x 9-1/32	3/8 x 3/16 x 2-7/16	8.3	4.1
1-7/16 ▲	244079	244420	3/8 x 3/16 x 9-1/32	3/8 x 3/16 x 2-7/16	8.8	4.1

♣ Made to order.

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

◆ Preferred bore. No bushing required for this bore size.

♠ DODGE standard belt guards will not fit this motor mount.

■ See page G1-191 for drill and tap dimensions for Flange Mount TXT Reducers.

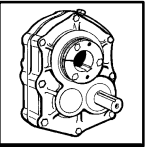
● Taper Bushed Reducers require bushing for all bore sizes.

♥ Use with Taper Bushed Reducer only. See page G1-192 for drill and tap information required to mount to reducer.

○ Stock TXT405A Reducers are drilled for vertical mounting.

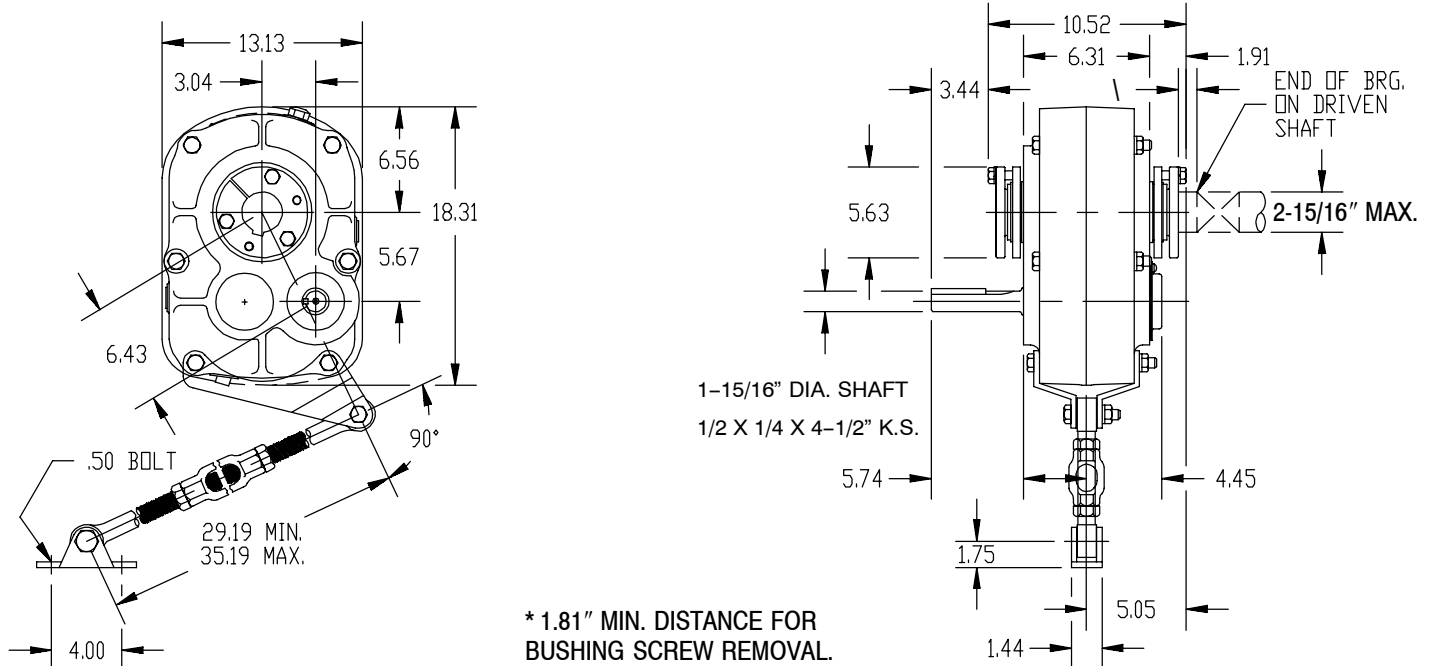
NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS

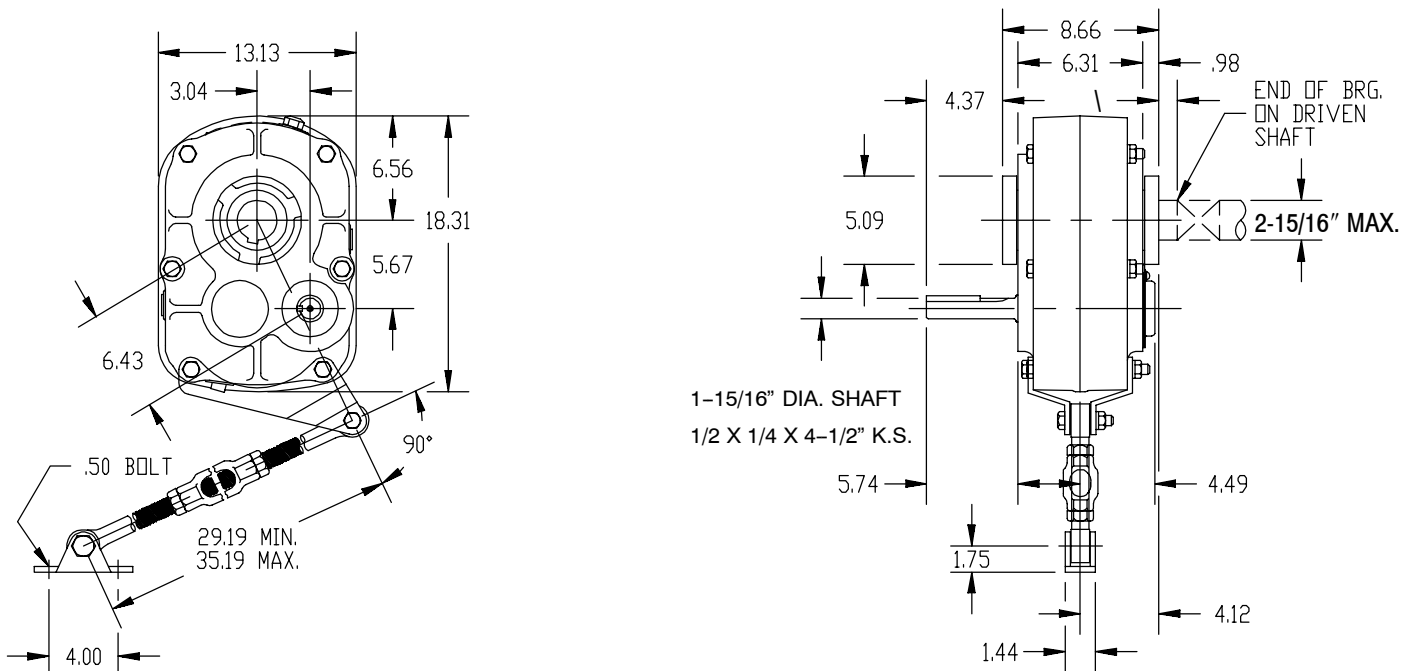


TORQUE-ARM Shaft Mount Speed Reducers

TXT5B - DOUBLE REDUCTION TAPER BUSHED

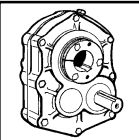


TXT5B - DOUBLE REDUCTION STRAIGHT BORE



NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS



TORQUE-ARM Shaft Mount Speed Reducers

TXT5B Taper Bushed Reducers ■

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT509BT	245550	215D09	8.95	207
TXT515BT	245551	215D15	15.40	207
TXT525BT	245552	215D25	25.56	207
TXT509BTv	245553 ♣	215D09	8.95	207
TXT515BTv	245554	215D15	15.40	207
TXT525BTv	245555	215D25	25.56	207

TXT5B Straight Bore Reducers ■

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT509BS	245562 ♣	215D09	8.95	207
TXT515BS	245563	215D15	15.40	207
TXT525BS	245564	215D25	25.56	207
TXT509BSv	245565	215D09	8.95	207
TXT515BSv	245566	215D15	15.40	207
TXT525BSv	245567	215D25	25.56	207

TXT5B Accessories

Description	Part Number	Weight
TA5M Standard Motor Mount (143T-286T)	245391	76
TA5M Special Motor Mount (324T-326T) ♠	245393	79
TA5ML Long Motor Mount (143T-286T)	245392	89
TAB5 Bottom Motor Mount (143T-326T) ♠	245405	55
TXT5B Backstop Assembly	245154	2.2
Optional Filter Breather (1/2-14 NPT)	430049	.2
TXT5-D TA Reducer Belt Guard (143T-286T)	245387	75
TXT5-D TA Reducer Belt Guard for Long Motor Mount (143T-286T) ♣	245102	90
TXT5B Cooling Fan Assembly	272369	3
TXT5B Taconite Auxiliary Seal Kit ♥	245635	11.9
TAL5 Long Side Mounting Brackets	245412	15
TAS5 Short Side Mounting Brackets	245410	12

TXT5 Bushing Assemblies ●

Stock Bore Size	Part Number		Shaft Keyseat Required †		Weight	
	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing
2-15/16 (Max.)	245112	◆	3/4 x 3/8 x 9-3/8	3/4 x 3/8 x 4-3/8	7.8	—
2-11/16	245110	245428	5/8 x 5/16 x 9-3/8	5/8 x 5/16 x 4-3/8	7.9	3
2-1/2 ▲	245099	245427	5/8 x 5/16 x 9-3/8	5/8 x 5/16 x 4-3/8	8.5	3.4
2-7/16 ▲	245094	245426	5/8 x 5/16 x 9-3/8	5/8 x 5/16 x 4-3/8	8.5	4.3
2-1/4 ▲	245092	245425	1/2 x 1/4 x 9-3/8	1/2 x 1/4 x 3	9.2	4.7
2-3/16 ▲	245090	245424	1/2 x 1/4 x 9-3/8	1/2 x 1/4 x 3	10	5.6
2 ▲	245088	245423	1/2 x 1/4 x 9-3/8	1/2 x 1/4 x 3	10.2	5.9
1-15/16 ▲	245086	245422	1/2 x 1/4 x 9-3/8	1/2 x 1/4 x 3	10.3	6.1
1-7/8 ▲	245084	245421	1/2 x 1/4 x 9-3/8	1/2 x 1/4 x 3	10.3	7.2

♣ Made to order.

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

◆ Preferred bore. No bushing required for this bore size.

♠ DODGE standard belt guards will not fit this motor mount.

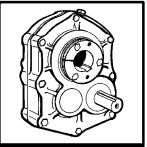
■ See page G1-191 for drill and tap dimensions for Flange Mount TXT Reducers.

● Taper Bushed Reducers require bushing for all bore sizes.

♥ Use with Taper Bushed Reducer only. See page G1-192 for drill and tap information required to mount to reducer.

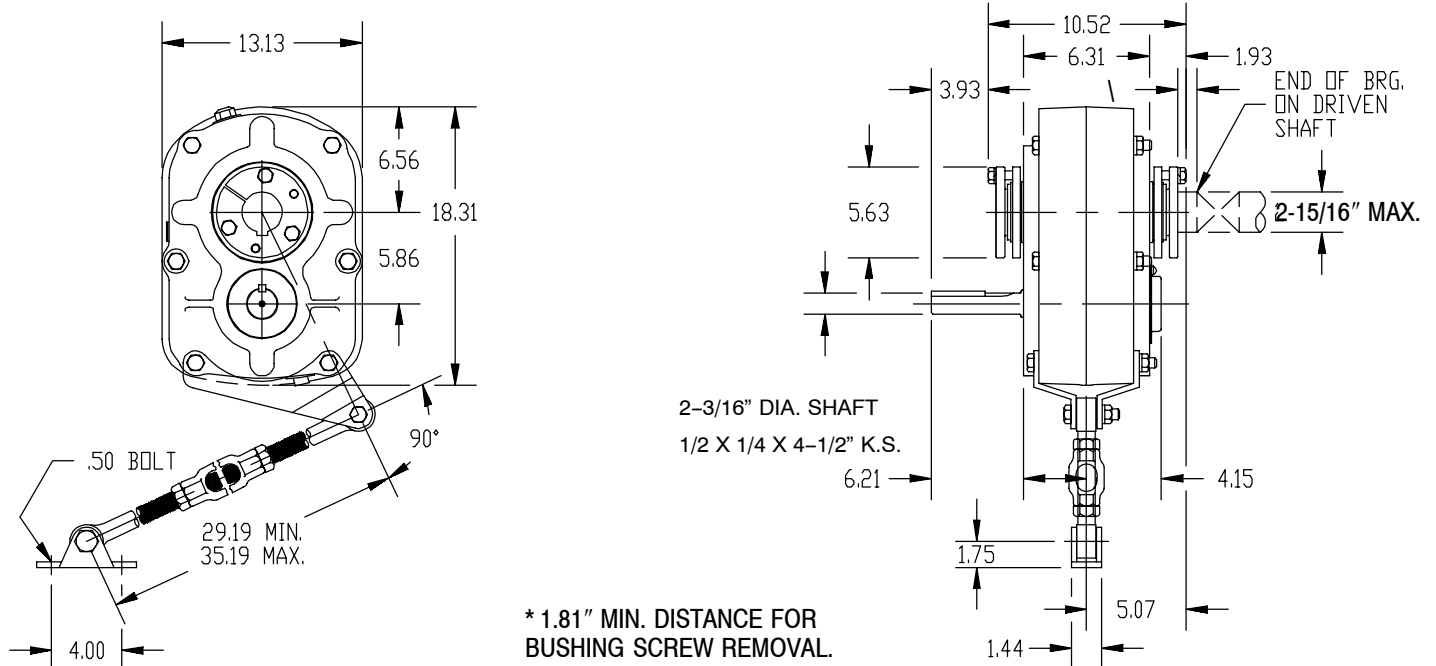
NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS

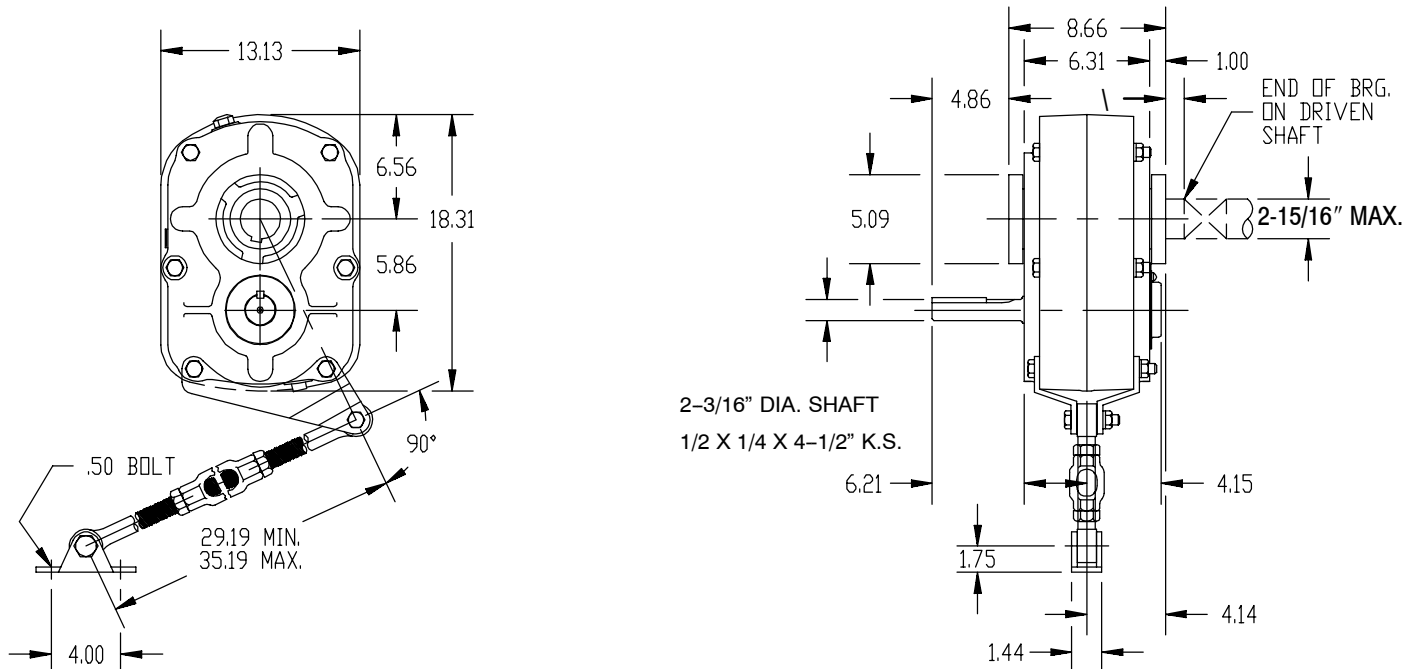


TORQUE-ARM Shaft Mount Speed Reducers

TXT505A - SINGLE REDUCTION TAPER BUSHED



TXT505A - SINGLE REDUCTION STRAIGHT BORE



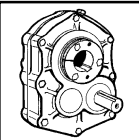
NOMENCLATURE
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PAGES G1-12-G1-25

MODIFICATIONS/ACCESSORIES
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ENGINEERING/TECHNICAL
PAGES G1-187-G1-201

SELECTION/DIMENSIONS



TORQUE-ARM Shaft Mount Speed Reducers

TXT505A Taper Bushed Reducers ■ ○

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT505AT	255200	215S05	5.67	182
TXT505ATV	255200	215S05	5.67	182

TXT505A Accessories

Description	Part Number	Weight
TA5M Standard Motor Mount (143T-286T)	245391	76
TA5M Special Motor Mount (324T-326T) ♠	245393	79
TA5ML Long Motor Mount (143T-286T)	245392	89
TAB5 Bottom Motor Mount (143T-326T) ♠	245405	55
TXT505A Backstop Assembly	246101	1.8
Optional Filter Breather (1/2-14 NPT)	430049	.2
TXT5-S TA Reducer Belt Guard (143T-286T)	245389	59
TXT5-S TA Reducer Belt Guard for Long Motor Mount (143T-286T) ♣	245162	90
TXT505A Cooling Fan Assembly	255231	3
TXT505A Taconite Auxiliary Seal Kit ♥	255230	12.3
TAL5 Long Side Mounting Brackets	245412	15
TAS5 Short Side Mounting Brackets	245410	12

TXT505A Straight Bore Reducers ■ ○

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT505AS	255204	215S05	5.67	182
TXT505ASV	255204	215S05	5.67	182

TXT5 Bushing Assemblies ●

Stock Bore Size	Part Number		Shaft Keyseat Required †		Weight	
	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing
2-15/16 (Max.)	245112	◆	3/4 x 3/8 x 9-3/8	3/4 x 3/8 x 4-3/8	7.8	—
2-11/16	245110	245428	5/8 x 5/16 x 9-3/8	5/8 x 5/16 x 4-3/8	7.9	3
2-1/2 ▲	245099	245427	5/8 x 5/16 x 9-3/8	5/8 x 5/16 x 4-3/8	8.5	3.4
2-7/16 ▲	245094	245426	5/8 x 5/16 x 9-3/8	5/8 x 5/16 x 4-3/8	8.5	4.3
2-1/4 ▲	245092	245425	1/2 x 1/4 x 9-3/8	1/2 x 1/4 x 3	9.2	4.7
2-3/16 ▲	245090	245424	1/2 x 1/4 x 9-3/8	1/2 x 1/4 x 3	10	5.6
2 ▲	245088	245423	1/2 x 1/4 x 9-3/8	1/2 x 1/4 x 3	10.2	5.9
1-15/16 ▲	245086	245422	1/2 x 1/4 x 9-3/8	1/2 x 1/4 x 3	10.3	6.1
1-7/8 ▲	245084	245421	1/2 x 1/4 x 9-3/8	1/2 x 1/4 x 3	10.3	7.2

♣ Made to order.

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

◆ Preferred bore. No bushing required for this bore size.

♠ DODGE standard belt guards will not fit this motor mount.

■ See page G1-191 for drill and tap dimensions for Flange Mount TXT Reducers.

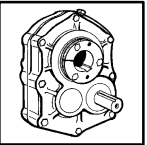
● Taper Bushed Reducers require bushing for all bore sizes.

♥ Use with Taper Bushed Reducer only. See page G1-192 for drill and tap information required to mount to reducer.

○ Stock TXT505A Reducers are drilled for vertical mounting.

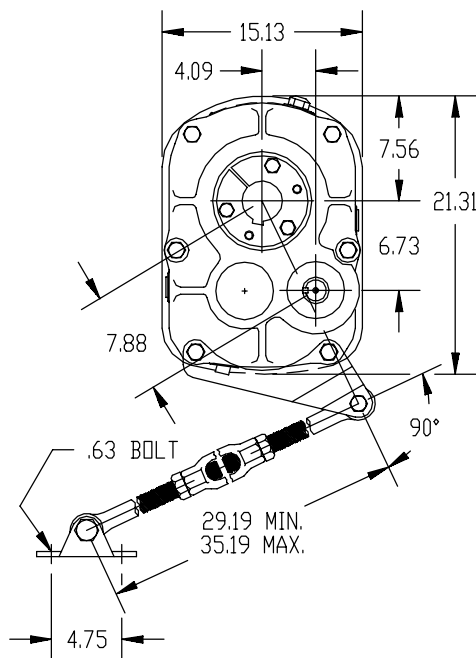
NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS

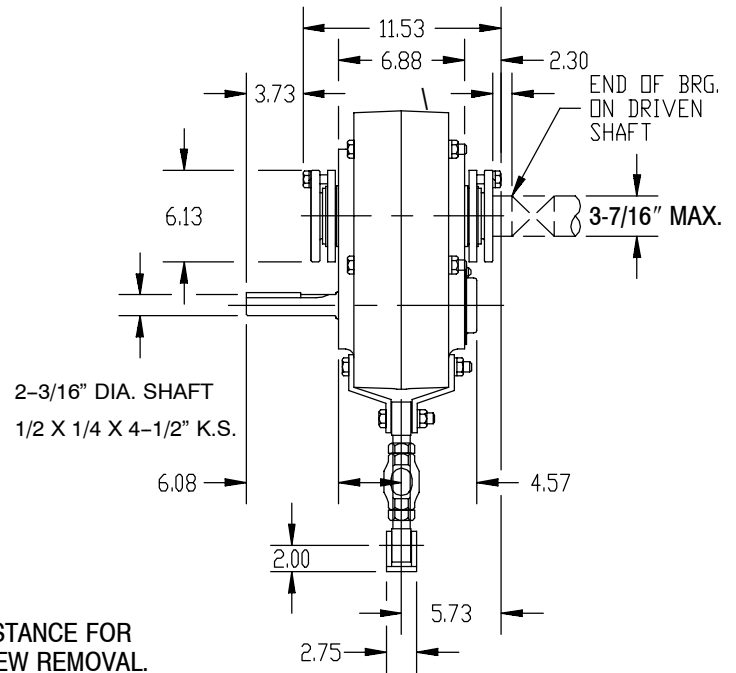


TORQUE-ARM Shaft Mount Speed Reducers

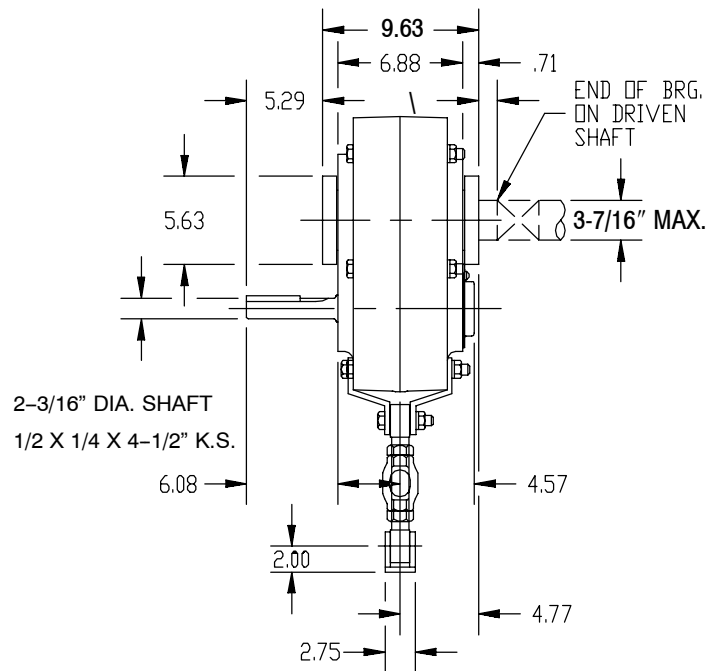
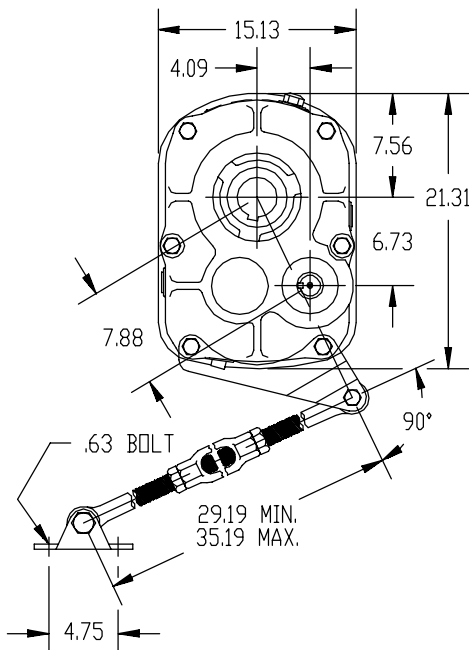
TXT6 - DOUBLE REDUCTION TAPER BUSHED



* 1.81" MIN. DISTANCE FOR
BUSHING SCREW REMOVAL.

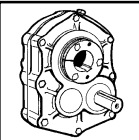


TXT6 - DOUBLE REDUCTION STRAIGHT BORE



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SELECTION/DIMENSIONS



TORQUE-ARM Shaft Mount Speed Reducers

TXT6 Taper Bushed Reducers ■

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT609T	246149 ♣	307D09	9.20	285
TXT615T	246150	307D15	15.33	285
TXT625T	246151	307D25	25.13	285
TXT615TV	246152	307D15	15.33	285
TXT625TV	246153	307D25	25.13	285

TXT6 Accessories

Description	Part Number	Weight
TA6M Standard Motor Mount (143T-326T)	246391	99
TA6M Special Motor Mount (364T) ♣♠	246388	110
TA6ML Long Motor Mount (143T-326T)	246390	100
TAB6 Bottom Motor Mount (182T-326T) ♠	246392	84
TXT6 Backstop Assembly	246092	2.5
Optional Filter Breather (1/2-14 NPT)	430049	.2
TXT6-D TA Reducer Belt Guard (143T-326T)	246366	83
TXT6-D TA Reducer Belt Guard for Long Motor Mount (143T-326T) ♣	246147	100
TXT6 Cooling Fan Assembly	272325	3
TXT6 Taconite Auxiliary Seal Kit ♥	272450	17.7
TAL6 Long Side Mounting Brackets	246412	18
TAS6 Short Side Mounting Brackets	246410	16

TXT6 Straight Bore Reducers ■

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT609S	246327 ♣	307D09	9.20	285
TXT615S	246158	307D15	15.33	285
TXT625S	246159	307D25	25.13	285
TXT615SV	246160	307D15	15.33	285
TXT625SV	246161	307D25	25.13	285

TXT6 Bushing Assemblies ●

Stock Bore Size	Part Number		Shaft Keyseat Required †		Weight	
	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing
3-7/16 (Max.)	246268	◆	7/8 x 7/16 x 10-11/16	7/8 x 7/16 x 5-7/8	9	—
3 ▲	246283	246427	3/4 x 3/8 x 10-11/16	3/4 x 3/8 x 5-7/8	11.3	4.6
2-15/16 ▲	246267	246426	3/4 x 3/8 x 10-11/16	3/4 x 3/8 x 5-7/8	11.6	6.7
2-7/8 ▲	246266	246425	3/4 x 3/8 x 10-11/16	3/4 x 3/8 x 5-7/8	12.2	6.7
2-11/16 ▲	246265	246424	5/8 x 5/16 x 10-11/16	5/8 x 5/16 x 5-7/8	12.9	6.7
2-1/2 ▲	246264	246423	5/8 x 5/16 x 10-11/16	5/8 x 5/16 x 3-1/2	14	8.2
2-7/16 ▲	246263	246422	5/8 x 5/16 x 10-11/16	5/8 x 5/16 x 3-1/2	14.4	8.5
2-1/4 ▲	246262	246421	1/2 x 1/4 x 10-11/16	1/2 x 1/4 x 3-1/2	14.9	9.8
2-3/16 ▲	246261	246420	1/2 x 1/4 x 10-11/16	1/2 x 1/4 x 3-1/2	15.3	11

▲ Check the driven shaft and key for strength.

◆ Preferred bore. No bushing required for this bore size.

♠ DODGE standard belt guards will not fit this motor mount.

♣ Made to order.

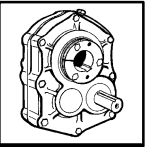
■ See page G1-191 for drill and tap dimensions for Flange Mount TXT Reducers.

● Taper Bushed Reducers require bushing for all bore sizes.

♥ Use with Taper Bushed Reducer only.

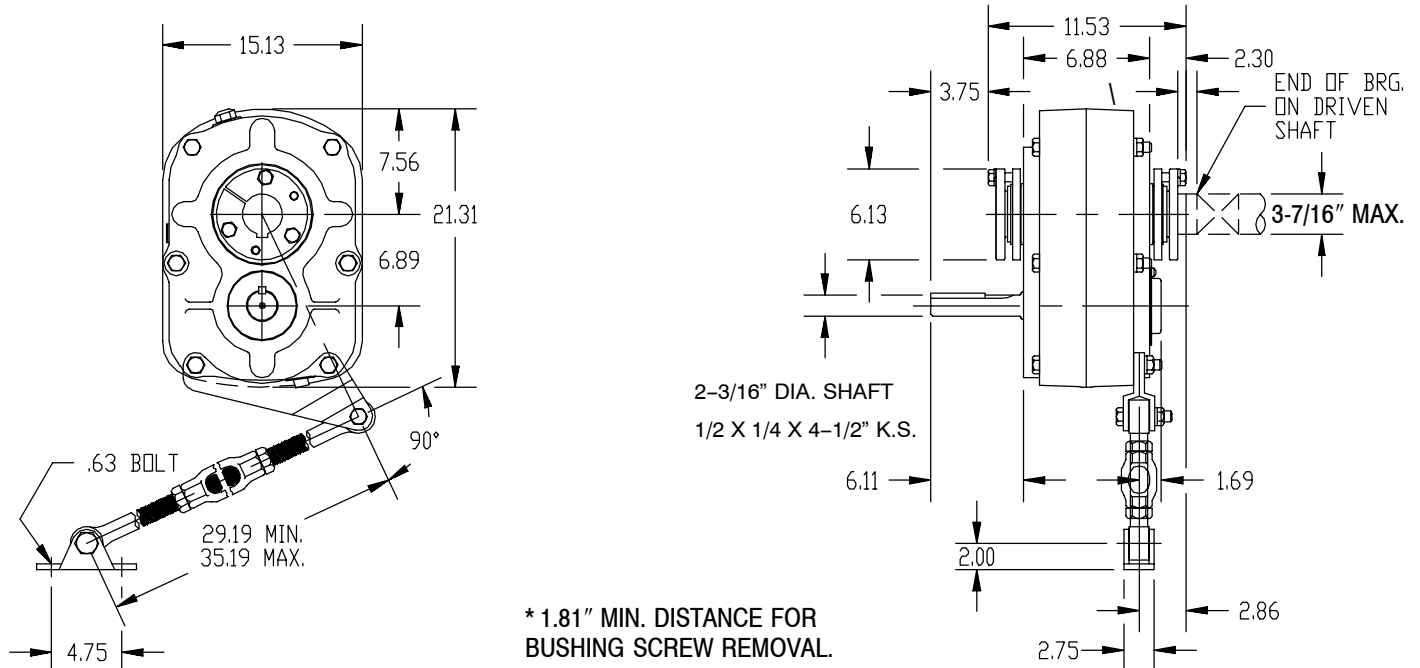
NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS

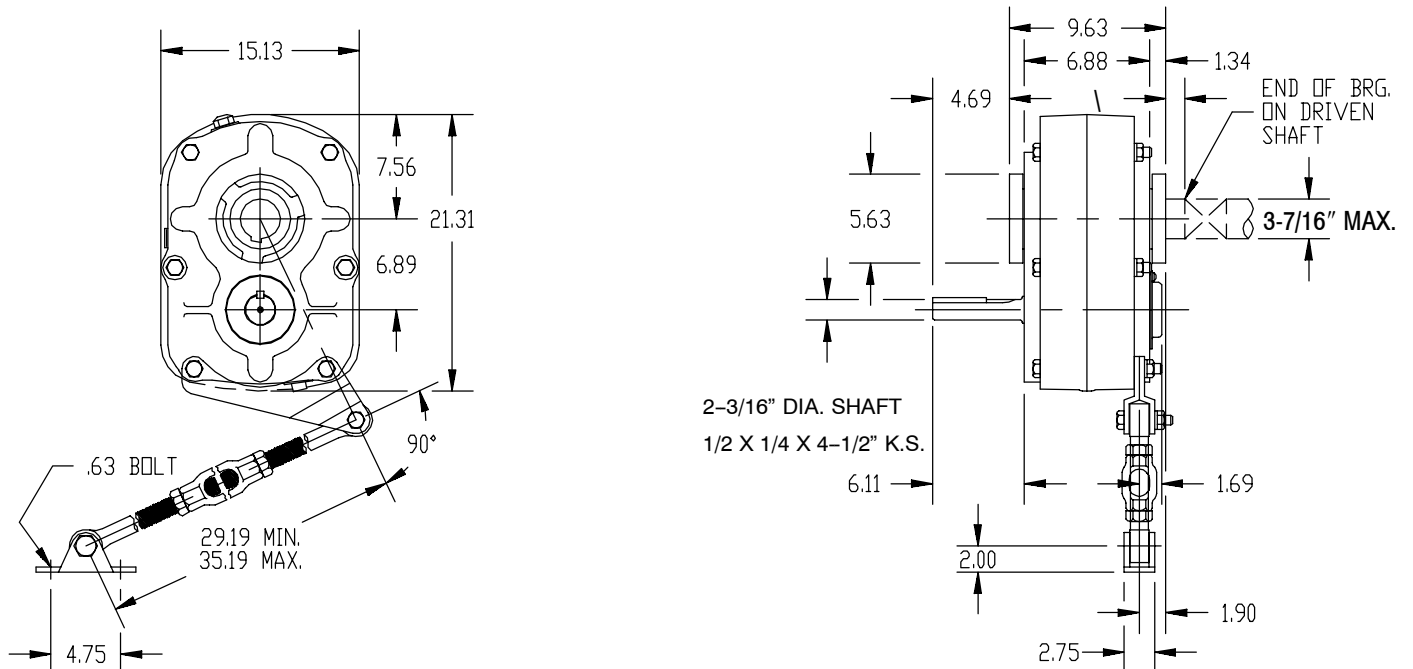


TORQUE-ARM Shaft Mount Speed Reducers

TXT605 - SINGLE REDUCTION TAPER BUSHED

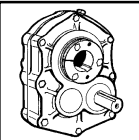


TXT605 - SINGLE REDUCTION STRAIGHT BORE



NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS



TORQUE-ARM Shaft Mount Speed Reducers

TXT605 Taper Bushed Reducers ☐ ○

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT605T	246380	307S05	5.67	251
TXT605TV	246380	307S05	5.67	251

TXT605 Accessories

Description	Part Number	Weight
TA6M Standard Motor Mount (143T-326T)	246391	99
TA6ML Long Motor Mount (143T-326T)	246390	100
TAB6 Bottom Motor Mount (182T-326T) ♠	246392	84
TXT605 Backstop Assembly	246092	2.5
Optional Filter Breather (1/2-14 NPT)	430049	.2
TXT6-S TA Reducer Belt Guard (143T-326T)	246368	95
TXT6-S TA Reducer Belt Guard for Long Motor Mount (143T-326T) ♣	246132	100
TXT605 Cooling Fan Assembly ♣	272681	3
TXT605 Taconite Auxiliary Seal Kit ♥	272450	17.7
TAL6 Long Side Mounting Brackets	246412	18
TAS6 Short Side Mounting Brackets	246410	16

TXT605 Straight Bore Reducers ☐ ○

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT605S	246382	307S05	5.67	251
TXT605SV	246382	307S05	5.67	251

TXT6 Bushing Assemblies ●

Stock Bore Size	Part Number		Shaft Keyseat Required †		Weight	
	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing
3-7/16 (Max.)	246268	◆	7/8 x 7/16 x 10-11/16	7/8 x 7/16 x 5-7/8	9	—
3 ▲	246283	246427	3/4 x 3/8 x 10-11/16	3/4 x 3/8 x 5-7/8	11.3	4.6
2-15/16 ▲	246267	246426	3/4 x 3/8 x 10-11/16	3/4 x 3/8 x 5-7/8	11.6	6.7
2-7/8 ▲	246266	246425	3/4 x 3/8 x 10-11/16	3/4 x 3/8 x 5-7/8	12.2	6.7
2-11/16 ▲	246265	246424	5/8 x 5/16 x 10-11/16	5/8 x 5/16 x 5-7/8	12.9	6.7
2-1/2 ▲	246264	246423	5/8 x 5/16 x 10-11/16	5/8 x 5/16 x 3-1/2	14	8.2
2-7/16 ▲	246263	246422	5/8 x 5/16 x 10-11/16	5/8 x 5/16 x 3-1/2	14.4	8.5
2-1/4 ▲	246262	246421	1/2 x 1/4 x 10-11/16	1/2 x 1/4 x 3-1/2	14.9	9.8
2-3/16 ▲	246261	246420	1/2 x 1/4 x 10-11/16	1/2 x 1/4 x 3-1/2	15.3	11

♣ Made to order.

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

◆ Preferred bore. No bushing required for this bore size.

♠ DODGE standard belt guards will not fit this motor mount.

● Taper Bushed Reducers require bushing for all bore sizes.

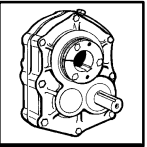
♥ Use with Taper Bushed Reducer only.

○ Stock TXT605 Reducers are drilled for vertical mounting.

□ Stock TXT605 Reducers are drilled and tapped for Flange Mounting. See page G1-191 for Flange Mounting dimensions.

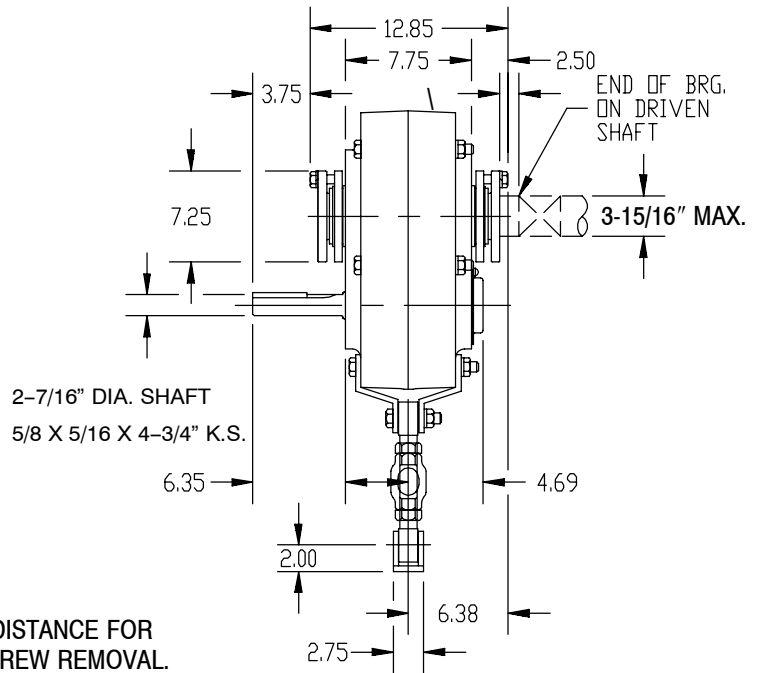
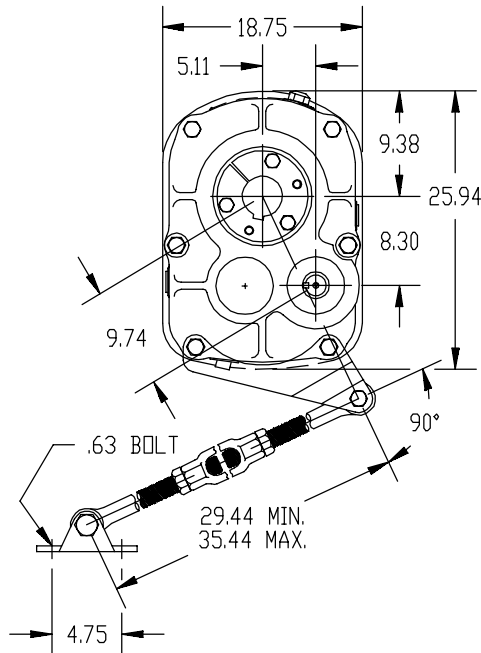
NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS

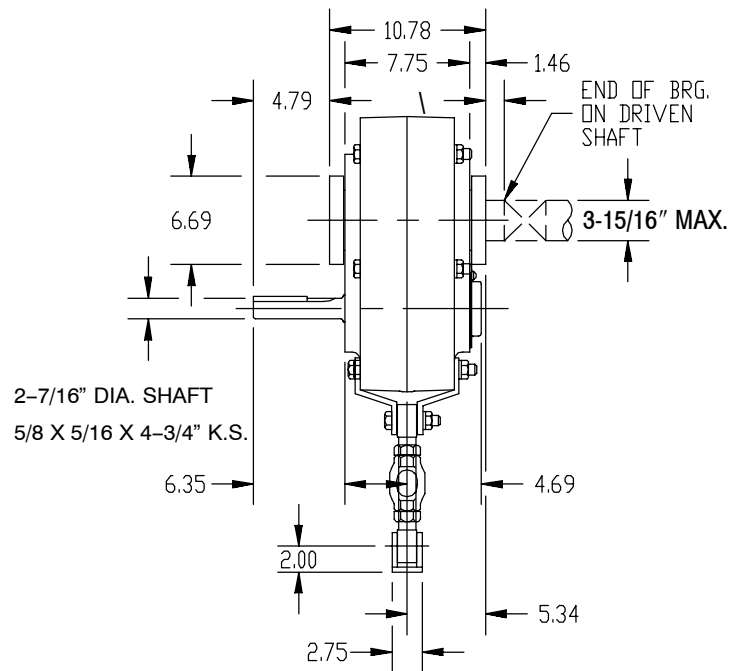
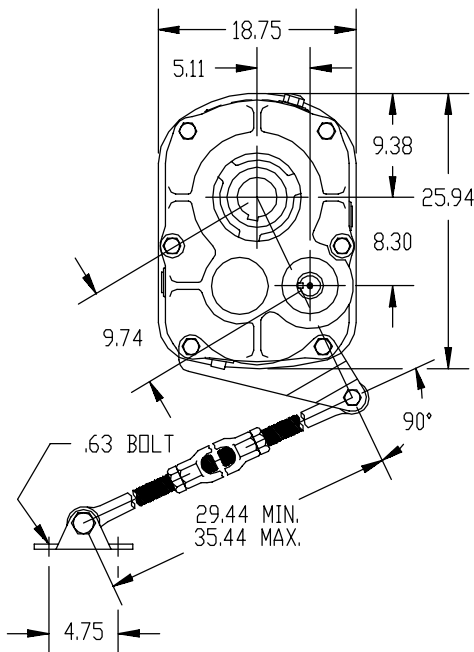


TORQUE-ARM Shaft Mount Speed Reducers

TXT7 - DOUBLE REDUCTION TAPER BUSHED

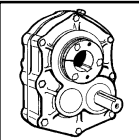


TXT7 - DOUBLE REDUCTION STRAIGHT BORE



NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS



TORQUE-ARM Shaft Mount Speed Reducers

TXT7 Taper Bushed Reducers ■

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT709T	247159 ♣	315D09	9.61	462
TXT715T	247160	315D15	15.23	462
TXT725T	247161	315D25	24.59	462
TXT715TV	247162	315D15	15.23	462
TXT725TV	247163	315D25	24.59	462

TXT7 Straight Bore Reducers ■

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT709S	247327 ♣	315D09	9.61	462
TXT715S	247168	315D15	15.23	462
TXT725S	247169	315D25	24.59	462
TXT715SV	247170	315D15	15.23	462
TXT725SV	247171	315D25	24.59	462

TXT7 Accessories

Description	Part Number	Weight
TA7M Standard Motor Mount (143T-365T)	247395	110
TA7ML Long Motor Mount (143T-326T)	247396	100
TAB7 Bottom Motor Mount (182T-326T) ♠	247404	105
TXT7 Backstop Assembly	247260	2.8
Optional Filter Breather (1/2-14 NPT)	430049	.2
TXT7-D TA Reducer Belt Guard (143T-365T)	247390	90
TXT7-D TA Reducer Belt Guard for Long Motor Mount (143T-365T) ♣	247152	108
TXT7 Cooling Fan Assembly	272326	6
TXT7 Taconite Auxiliary Seal Kit ♥	272451	25
TAL7 Long Side Mounting Brackets	247412	33
TAS7 Short Side Mounting Brackets	247410	30

TXT7 Bushing Assemblies ●

Stock Bore Size	Part Number		Shaft Keyseat Required †		Weight	
	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing
3-15/16 (Max.)	272136	◆	1 x 1/2 x 11-27/32	1 x 1/2 x 4-7/8	13.8	—
3-7/16	272135	247428	7/8 x 7/16 x 11-27/32	7/8 x 7/16 x 6-3/8	16.9	7.8
3-3/16 ▲	272134	247427	3/4 x 3/8 x 11-27/32	3/4 x 3/8 x 6-3/8	19.2	9
3 ▲	272133	247426	3/4 x 3/8 x 11-27/32	3/4 x 3/8 x 6-3/8	20.1	10.1
2-15/16 ▲	272132	247425	3/4 x 3/8 x 11-27/32	3/4 x 3/8 x 4-7/8	21.3	10.1
2-11/16 ▲	272147	247422	5/8 x 5/16 x 11-27/32	5/8 x 5/16 x 3-1/2	23	14
2-7/16 ▲	272125	247420	5/8 x 5/16 x 11-27/32	5/8 x 5/16 x 3-1/2	24.2	14.2

♣ Made to order.

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

◆ Preferred bore. No bushing required for this bore size.

♠ DODGE standard belt guards will not fit this motor mount.

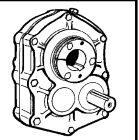
■ See page G1-191 for drill and tap dimensions for Flange Mount TXT Reducers.

● Taper Bushed Reducers require bushing for all bore sizes.

♥ Use with Taper Bushed Reducer only.

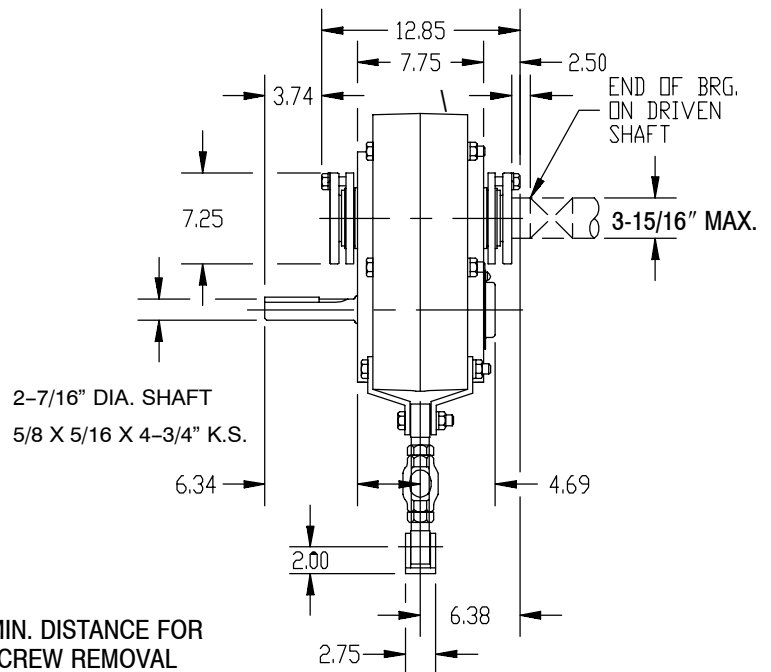
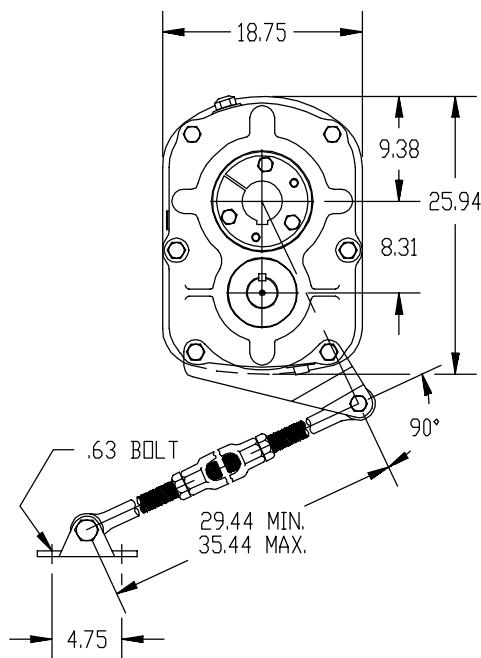
NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS

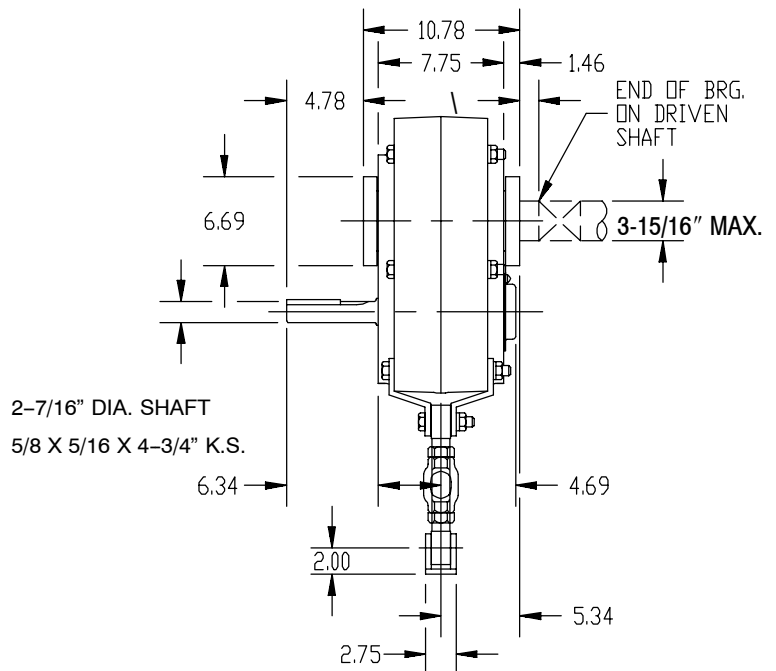
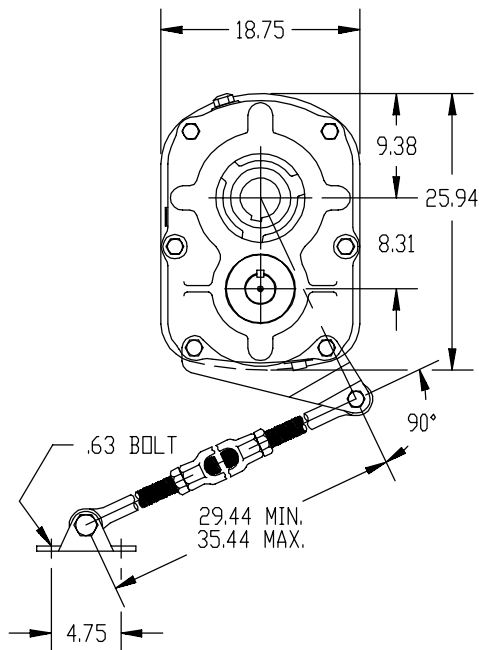


TORQUE-ARM Shaft Mount Speed Reducers

TXT705 - SINGLE REDUCTION TAPER BUSHED

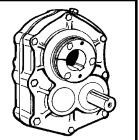


TXT705 - SINGLE REDUCTION STRAIGHT BORE



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SELECTION/DIMENSIONS



TORQUE-ARM Shaft Mount Speed Reducers

TXT705 Taper Bushed Reducers ○ □

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT705T	247285	315S05	5.36	410
TXT705TV	247285	315S05	5.36	410

TXT705 Straight Bore Reducers ○ □

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT705S	247287	315S05	5.36	410
TXT705SV	247287	315S05	5.36	410

TXT705 Accessories

Description	Part Number	Weight
TA7M Standard Motor Mount (143T-365T)	247395	110
TA7ML Long Motor Mount (143T-326T)	247396	100
TAB7 Bottom Motor Mount (182T-326T) ♠	247404	105
TXT705 Backstop Assembly	247260	2.8
Optional Filter Breather (1/2-14 NPT)	430049	.2
TXT7-S TA Reducer Belt Guard (143T-365T)	247392	112
TXT7-S TA Reducer Belt Guard for Long Motor Mount (143T-365T) ♣	247146	135
TXT705 Cooling Fan Assembly ♣	272685	6
TXT705 Taconite Auxiliary Seal Kit ♥	272451	25
TAL7 Long Side Mounting Brackets	247412	33
TAS7 Short Side Mounting Brackets	247410	30

TXT7 Bushing Assemblies ●

Stock Bore Size	Part Number		Shaft Keyseat Required †		Weight	
	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing
3-15/16 (Max.)	272136	◆	1 x 1/2 x 11-27/32	1 x 1/2 x 4-7/8	13.8	—
3-7/16	272135	247428	7/8 x 7/16 x 11-27/32	7/8 x 7/16 x 6-3/8	16.9	7.8
3-3/16 ▲	272134	247427	3/4 x 3/8 x 11-27/32	3/4 x 3/8 x 6-3/8	19.2	9
3 ▲	272133	247426	3/4 x 3/8 x 11-27/32	3/4 x 3/8 x 6-3/8	20.1	10.1
2-15/16 ▲	272132	247425	3/4 x 3/8 x 11-27/32	3/4 x 3/8 x 4-7/8	21.3	10.1
2-11/16 ▲	272147	247422	5/8 x 5/16 x 11-27/32	5/8 x 5/16 x 3-1/2	23	14
2-7/16 ▲	272125	247420	5/8 x 5/16 x 11-27/32	5/8 x 5/16 x 3-1/2	24.2	14.2

♣ Made to order.

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

◆ Preferred bore. No bushing required for this bore size.

♠ DODGE standard belt guards will not fit this motor mount.

● Taper Bushed Reducers require bushing for all bore sizes.

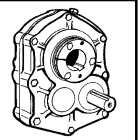
♥ Use with Taper Bushed Reducer only.

○ Stock TXT705 Reducers are drilled for vertical mounting.

□ Stock TXT705 Reducers are drilled and tapped for Flange Mounting. See page G1-191 for Flange Mounting dimensions.

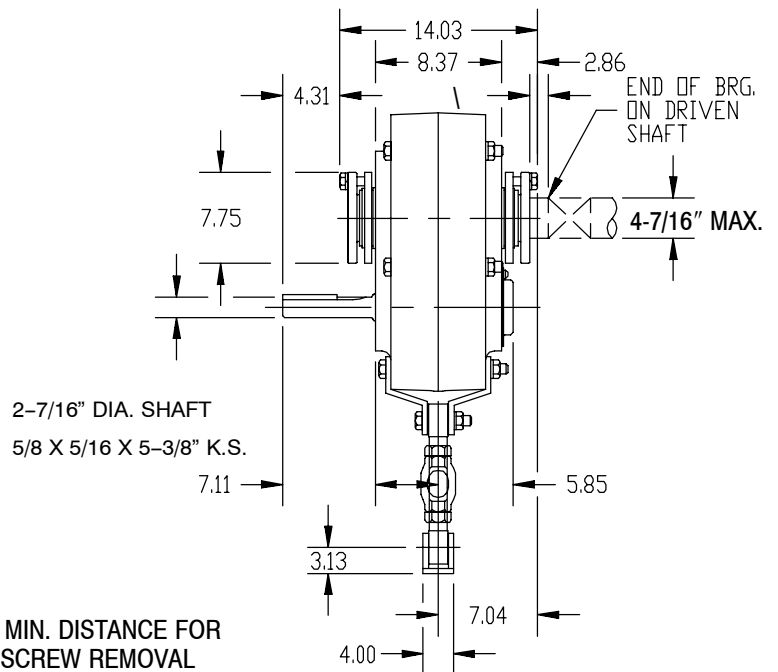
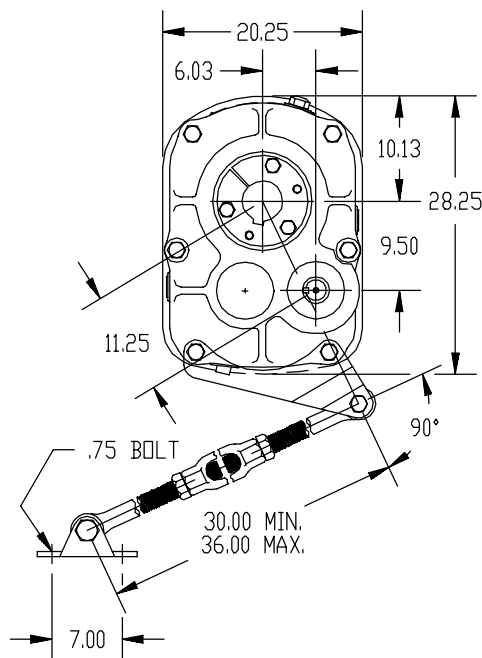
NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS

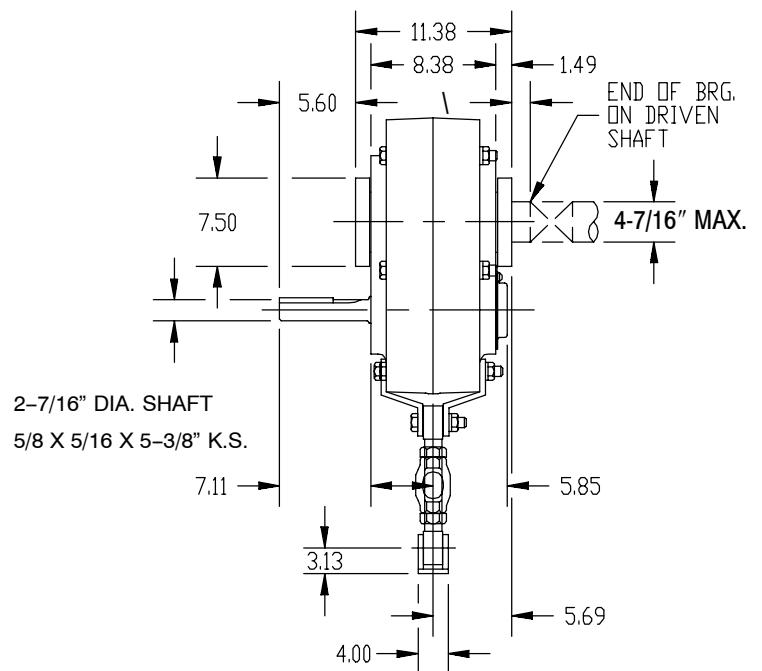
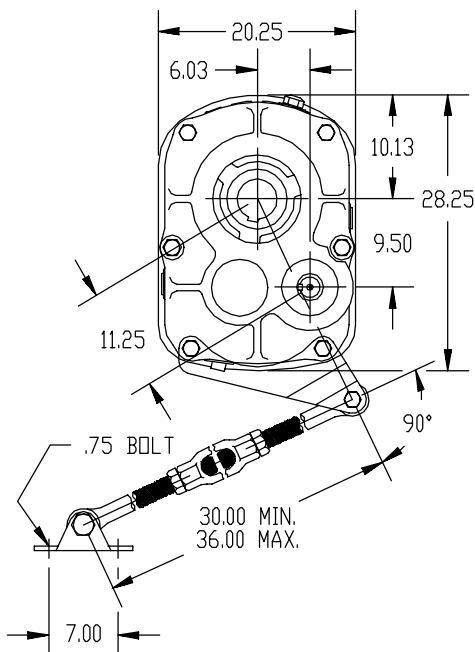


TORQUE-ARM Shaft Mount Speed Reducers

TXT8 - DOUBLE REDUCTION TAPER BUSHED



TXT8 - DOUBLE REDUCTION STRAIGHT BORE



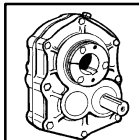
NOMENCLATURE
PAGES G1-10-G1-11

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PAGES G1-12-G1-25

MODIFICATIONS/ACCESSORIES
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ENGINEERING/TECHNICAL
PAGES G1-187-G1-201

SELECTION/DIMENSIONS



TORQUE-ARM Shaft Mount Speed Reducers

TXT8 Taper Bushed Reducers ■

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT815T	248279	407D15	15.08	633
TXT825T	248280	407D25	24.62	633
TXT815TV	248281	407D15	15.08	633
TXT825TV	248282 ♣	407D25	24.62	633

TXT8 Straight Bore Reducers ■

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT815S	248283	407D15	15.08	633
TXT825S	248284	407D25	24.62	633
TXT815SV	248285 ♣	407D15	15.08	633
TXT825SV	248286	407D25	24.62	633

TXT8 Accessories

Description	Part Number	Weight
TA8 Standard Motor Mount (213T-365T)	248401	119
TAB8 Bottom Motor Mount (213T-365T) ♠	248406	120
TXT8 Backstop Assembly	249260	3.8
Optional Filter Breather (1/2-14 NPT)	430049	.2
TXT8-D TA Reducer Belt Guard (213T-365T)	248395	107
TXT8 Cooling Fan Assembly	272327	9
TXT8 Taconite Auxiliary Seal Kit ♥	272452	26.3

TXT8 Bushing Assemblies ●

Stock Bore Size	Part Number		Shaft Keyseat Required †		Weight	
	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing
4-7/16 (Max.)	272035	◆	1 x 1/2 x 13-1/16	1 x 1/2 x 6-7/8	15	—
4-3/16	272034	248424	1 x 1/2 x 13-1/16	1 x 1/2 x 6-7/8	17	6.8
3-15/16	272033	248423	1 x 1/2 x 13-1/16	1 x 1/2 x 6-7/8	20	8
3-7/16 ▲	272032	248422	7/8 x 7/16 x 13-1/16	7/8 x 7/16 x 6-7/8	25	12
2-15/16 ▲	272048	248420	3/4 x 3/8 x 13-1/16	3/4 x 3/8 x 4-3/8	29	19

♣ Made to order.

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

◆ Preferred bore. No bushing required for this bore size.

♠ DODGE standard belt guards will not fit this motor mount.

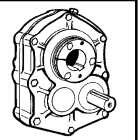
■ See page G1-191 for drill and tap dimensions for Flange Mount TXT Reducers.

● Taper Bushed Reducers require bushing for all bore sizes.

♥ Use with Taper Bushed Reducer only.

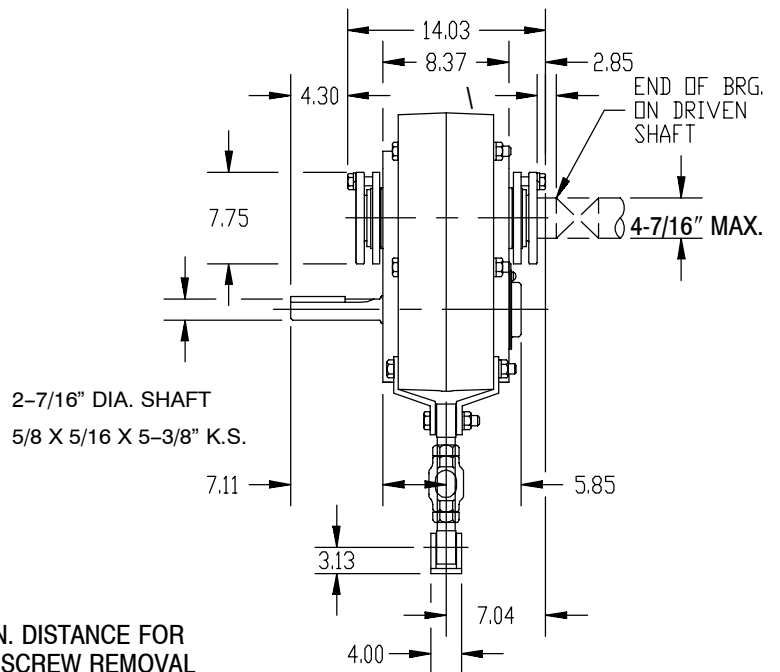
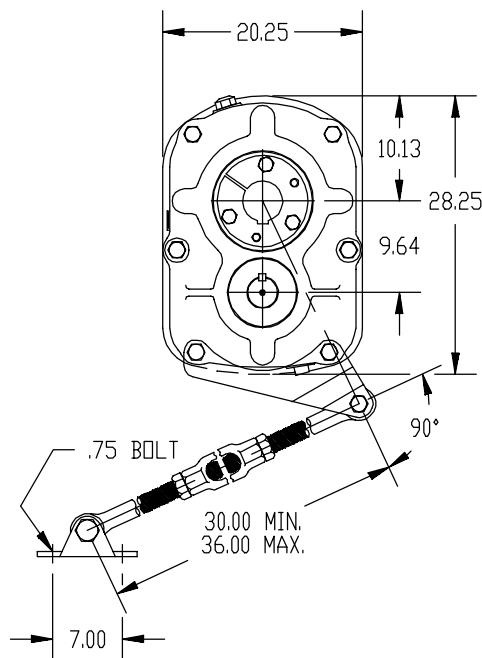
NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS



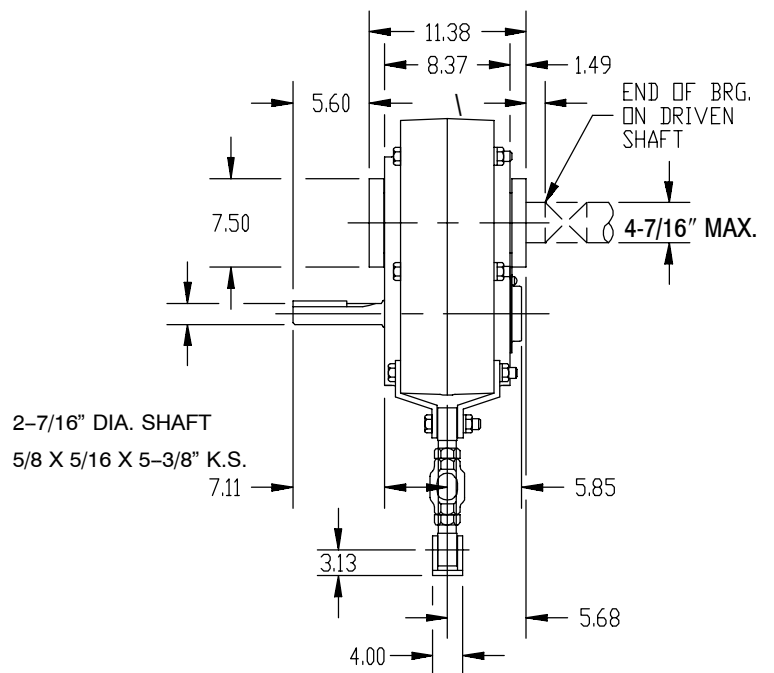
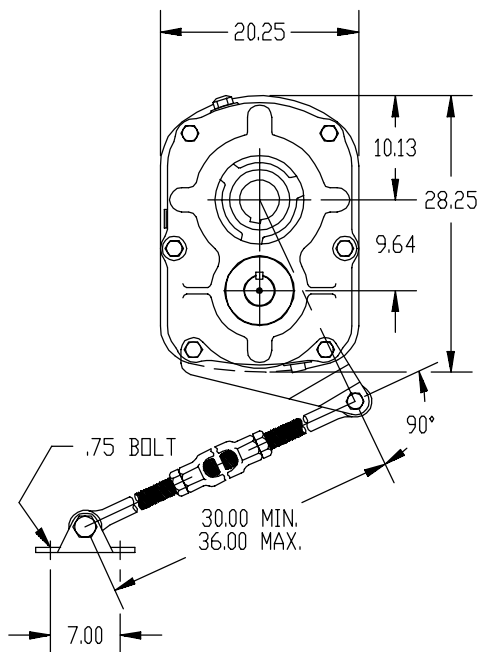
TORQUE-ARM Shaft Mount Speed Reducers

TXT805 - SINGLE REDUCTION TAPER BUSHED



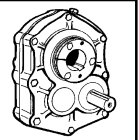
* 2.06" MIN. DISTANCE FOR
BUSHING SCREW REMOVAL

TXT805 - SINGLE REDUCTION STRAIGHT BORE



NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS



TORQUE-ARM Shaft Mount Speed Reducers

TXT805 Taper Bushed Reducers ○ □

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT805T	248275	407S05	5.50	557
TXT805TV	248275	407S05	5.50	557

TXT805 Straight Bore Reducers ○ □

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT805S	248277	407S05	5.50	557
TXT805SV	248277	407S05	5.50	557

TXT805 Accessories

Description	Part Number	Weight
TA8 Standard Motor Mount (254T-365T)	248401	119
TAB8 Bottom Motor Mount (213T-365T) ♠	248406	120
TXT805 Backstop Assembly	250260	5.6
Optional Filter Breather (1/2-14 NPT)	430049	.2
TXT8-S TA Reducer Belt Guard (213T-365T)	248397	125
TXT8 Cooling Fan Assembly	272327	9
TXT8 Taconite Auxiliary Seal Kit ♥	272452	26.3

TXT8 Bushing Assemblies ●

Stock Bore Size	Part Number		Shaft Keyseat Required †		Weight	
	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing
4-7/16 (Max.)	272035	◆	1 x 1/2 x 13-1/16	1 x 1/2 x 6-7/8	15	–
4-3/16	272034	248424	1 x 1/2 x 13-1/16	1 x 1/2 x 6-7/8	17	6.8
3-15/16	272033	248423	1 x 1/2 x 13-1/16	1 x 1/2 x 6-7/8	20	8
3-7/16 ▲	272032	248422	7/8 x 7/16 x 13-1/16	7/8 x 7/16 x 6-7/8	25	12
2-15/16 ▲	272048	248420	3/4 x 3/8 x 13-1/16	3/4 x 3/8 x 4-3/8	29	19

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

◆ Preferred bore. No bushing required for this bore size.

♠ DODGE standard belt guards will not fit this motor mount.

● Taper Bushed Reducers require bushing for all bore sizes.

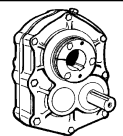
♥ Use with Taper Bushed Reducer only.

○ Stock TXT805 Reducers are drilled for vertical mounting.

□ Stock TXT805 Reducers are drilled and tapped for Flange Mounting. See page G1-191 for Flange Mounting dimensions.

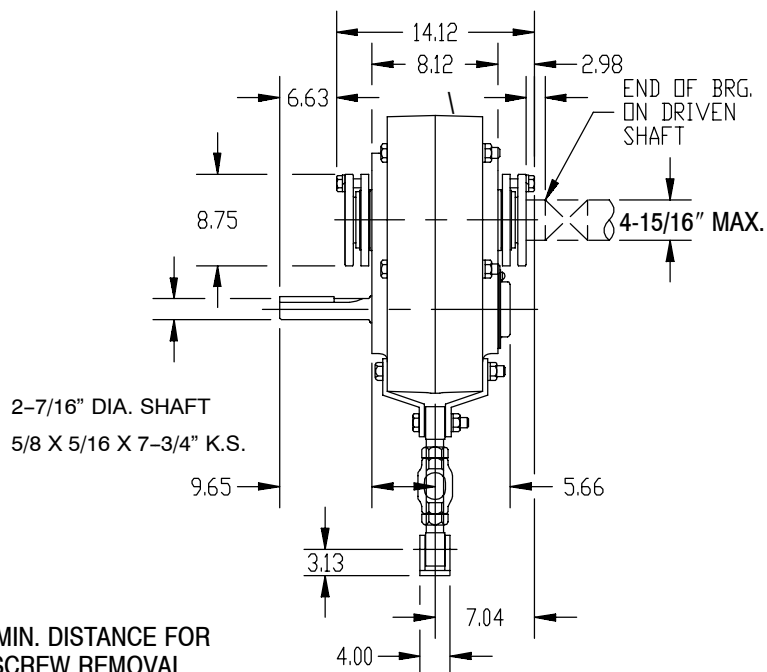
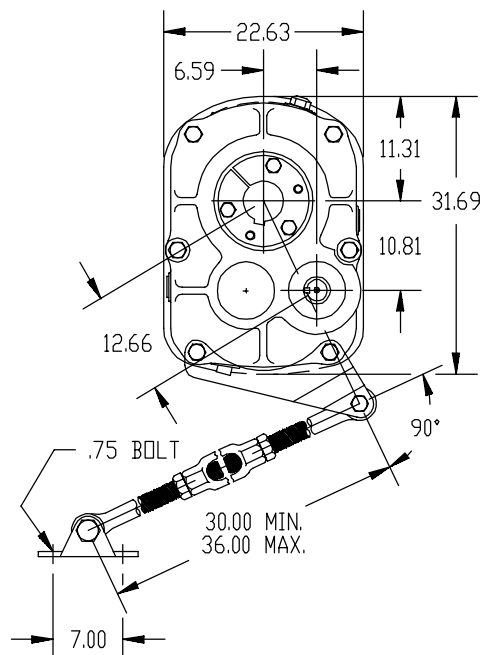
NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS



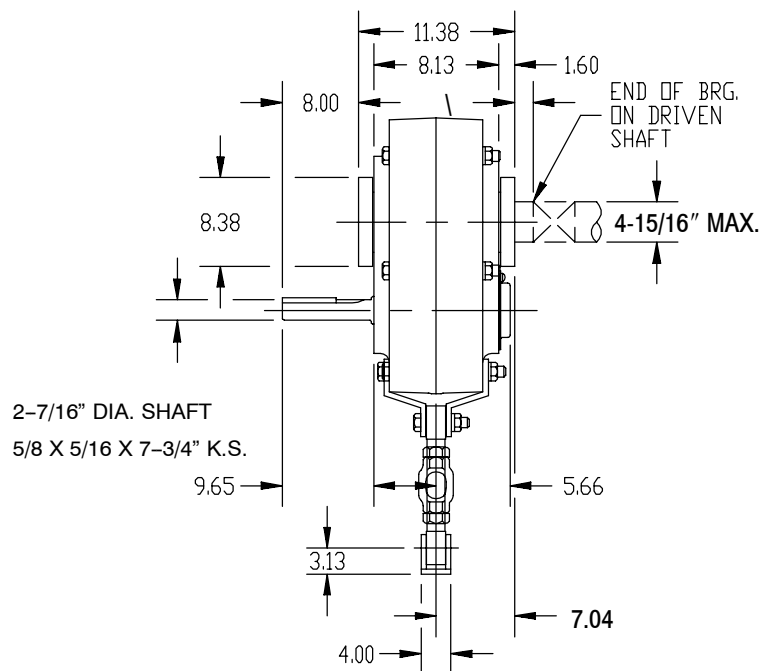
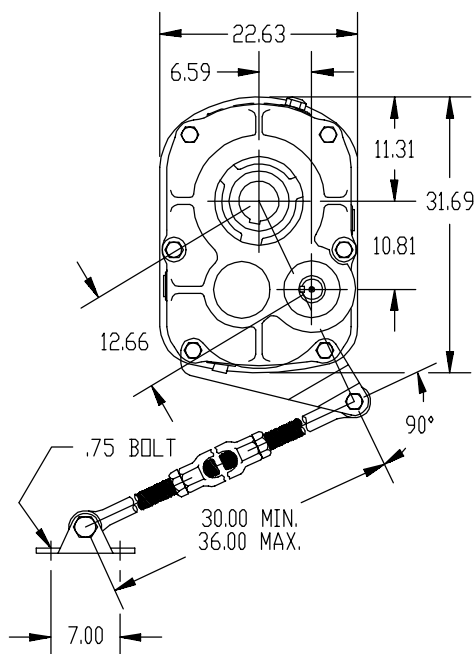
TORQUE-ARM Shaft Mount Speed Reducers

TXT9 - DOUBLE REDUCTION TAPER BUSHED



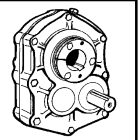
* 2.44" MIN. DISTANCE FOR
BUSHING SCREW REMOVAL

TXT9 - DOUBLE REDUCTION STRAIGHT BORE



NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS



TORQUE-ARM Shaft Mount Speed Reducers

TXT9 Taper Bushed Reducers ■

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT915T	249269	415D15	15.12	760
TXT926T	249270	415D26	25.66	760
TXT915TV	249271 ♣	415D15	15.12	760
TXT926TV	249272 ♣	415D26	25.66	760

TXT9 Straight Bore Reducers ■

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT915S	249273	415D15	15.12	760
TXT926S	249274	415D26	25.66	760
TXT915SV	249275 ♣	415D15	15.12	760
TXT926SV	249276	415D26	25.66	760

TXT9 Accessories

Description	Part Number	Weight
TA9 Standard Motor Mount (213T-365T)	249401	120
TA9 Special Motor Mount (404T-405T) ♣♠	249399	125
TAB9 Bottom Motor Mount (213T-365T) ♠	249404	125
TXT9 Backstop Assembly	249260	3.8
Optional Filter Breather (1/2-14 NPT)	430049	.2
TXT9-D TA Reducer Belt Guard (213T-365T)	249395	125
TXT9 Cooling Fan Assembly	272328	15
TXT9 Taconite Auxiliary Seal Kit ♥	272453	32.6

TXT9 Bushing Assemblies ●

Stock Bore Size	Part Number		Shaft Keyseat Required †		Weight	
	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing
4-15/16 (Max.)	272080	◆	1-1/4 x 5/8 x 12-15/16	1-1/4 x 5/8 x 11-3/8	22	—
4-7/16	272079	249422	1 x 1/2 x 12-15/16	1 x 1/2 x 11-3/8	27	12.5
3-15/16 ▲	272077	249421	1 x 1/2 x 12-15/16	1 x 1/2 x 11-3/8	32.4	26
3-7/16 ▲	272056	249420	7/8 x 7/16 x 12-15/16	7/8 x 7/16 x 5	36	28

♣ Made to order.

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

◆ Preferred bore. No bushing required for this bore size.

♠ DODGE standard belt guards will not fit this motor mount.

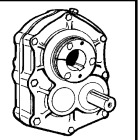
■ See page G1-191 for drill and tap dimensions for Flange Mount TXT Reducers.

● Taper Bushed Reducers require bushing for all bore sizes.

♥ Use with Taper Bushed Reducer only.

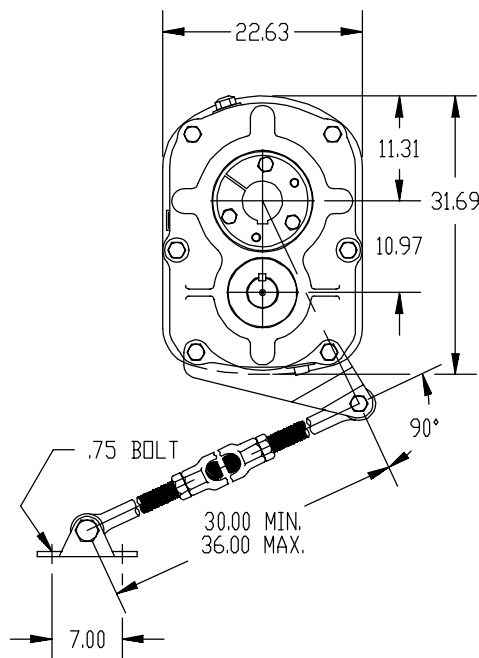
NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS

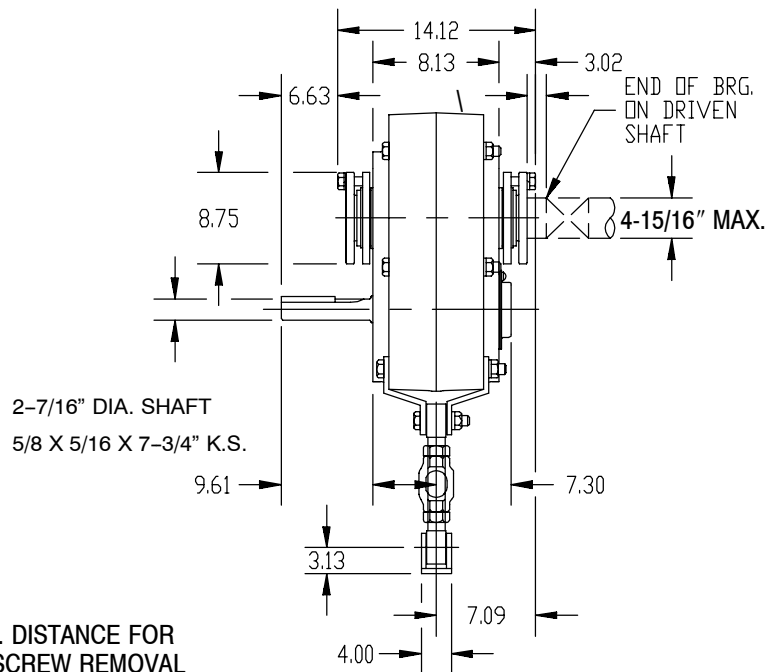


TORQUE-ARM Shaft Mount Speed Reducers

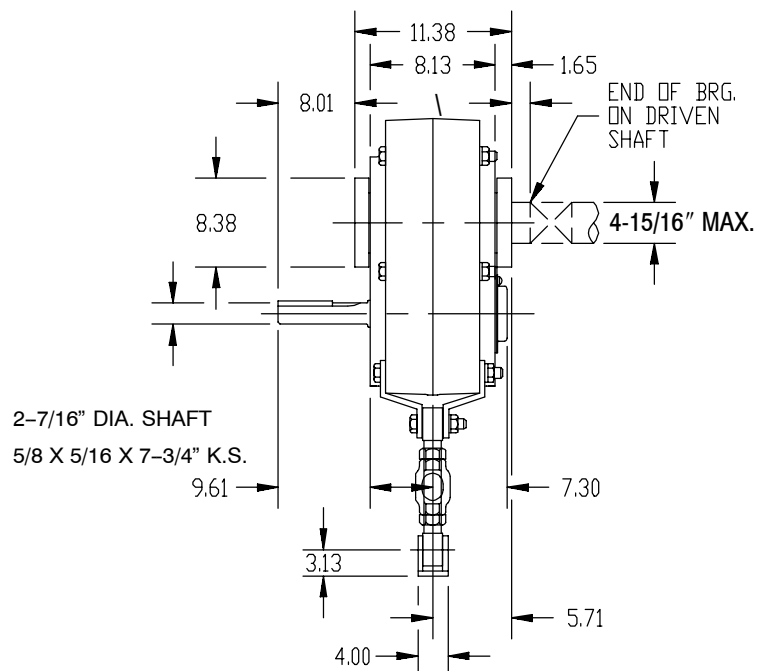
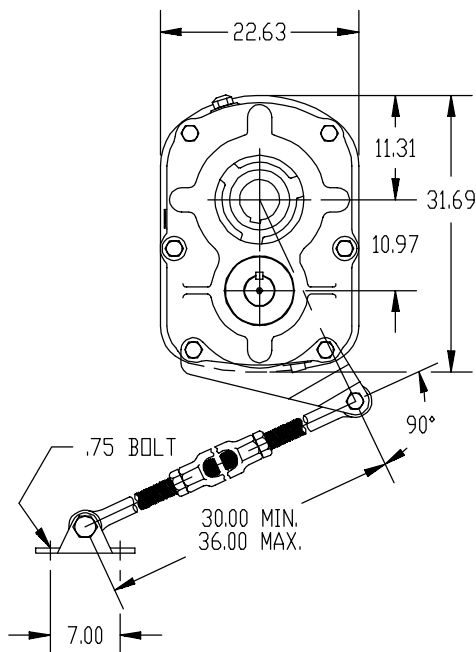
TXT905 - SINGLE REDUCTION TAPER BUSHED



* 2.44" MIN. DISTANCE FOR
BUSHING SCREW REMOVAL

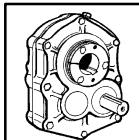


TXT905 - SINGLE REDUCTION STRAIGHT BORE



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SELECTION/DIMENSIONS



TORQUE-ARM Shaft Mount Speed Reducers

TXT905 Taper Bushed Reducers ○ □

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT905T	249265	415S05	5.38	668
TXT905TV	249265	415S05	5.38	668

TXT905 Accessories

Description	Part Number	Weight
TA9 Standard Motor Mount (284T-365T)	249401	120
TA9 Special Motor Mount (404T-405T) ♣♠	249399	125
TAB9 Bottom Motor Mount (213T-365T) ♠	249404	125
TXT905 Backstop Assembly	272259	6.7
Optional Filter Breather (1/2-14 NPT)	430049	.2
TXT9-S TA Reducer Belt Guard (213T-365T)	249397	156
TXT905 Cooling Fan Assembly ♣	272324	15
TXT9 Taconite Auxiliary Seal Kit ♥	272453	32.6

TXT905 Straight Bore Reducers ○ □

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT905S	249267	415S05	5.38	668
TXT905SV	249267	415S05	5.38	668

TXT9 Bushing Assemblies ●

Stock Bore Size	Part Number		Shaft Keyseat Required †		Weight	
	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing
4-15/16 (Max.)	272080	◆	1-1/4 x 5/8 x 12-15/16	1-1/4 x 5/8 x 11-3/8	22	—
4-7/16	272079	249422	1 x 1/2 x 12-15/16	1 x 1/2 x 11-3/8	27	12.5
3-15/16 ▲	272077	249421	1 x 1/2 x 12-15/16	1 x 1/2 x 11-3/8	32.4	26
3-7/16 ▲	272056	249420	7/8 x 7/16 x 12-15/16	7/8 x 7/16 x 5	36	28

♣ Made to order.

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

◆ Preferred bore. No bushing required for this bore size.

♠ DODGE standard belt guards will not fit this motor mount.

● Taper Bushed Reducers require bushing for all bore sizes.

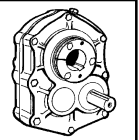
♥ Use with Taper Bushed Reducer only.

○ Stock TXT905 Reducers are drilled for vertical mounting.

□ Stock TXT905 Reducers are drilled and tapped for Flange Mounting. See page G1-191 for Flange Mounting dimensions.

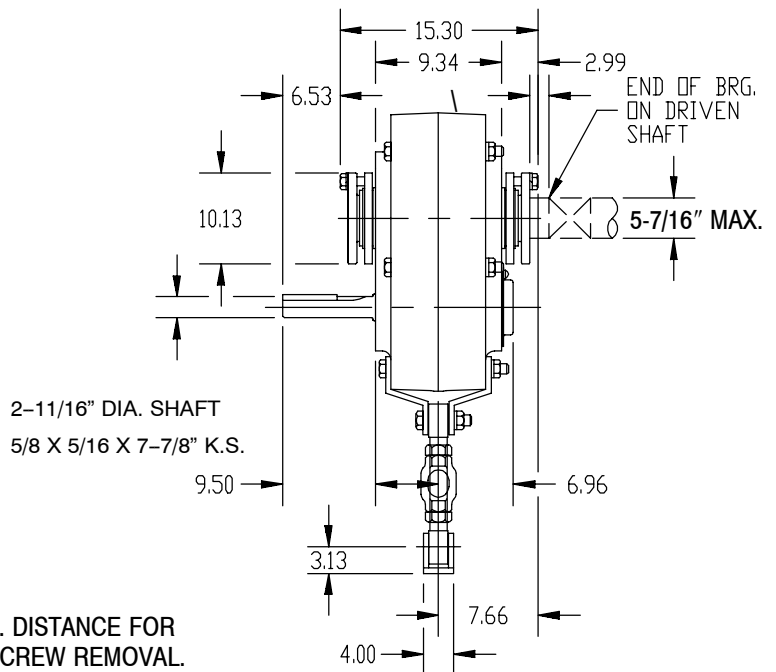
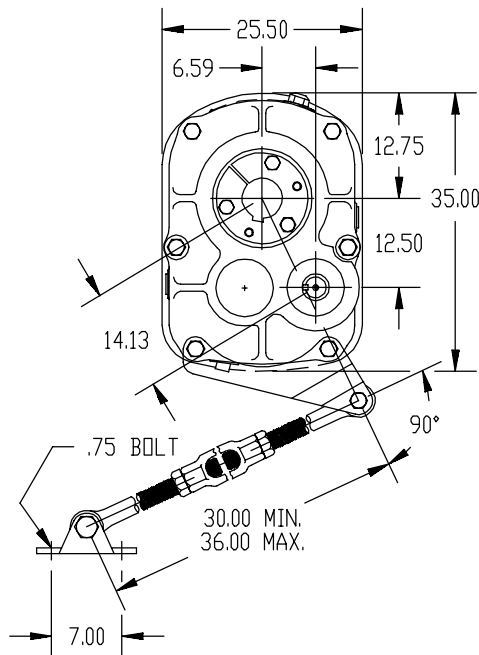
NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS



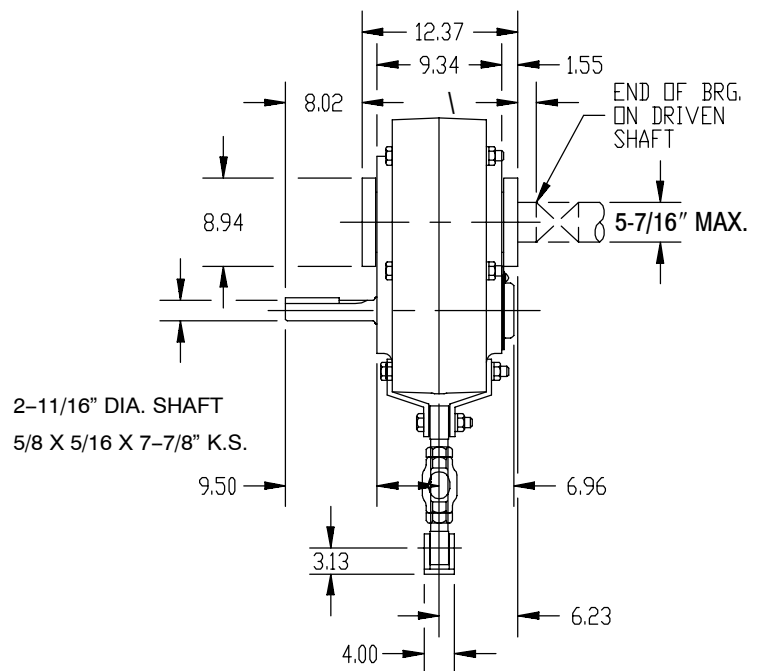
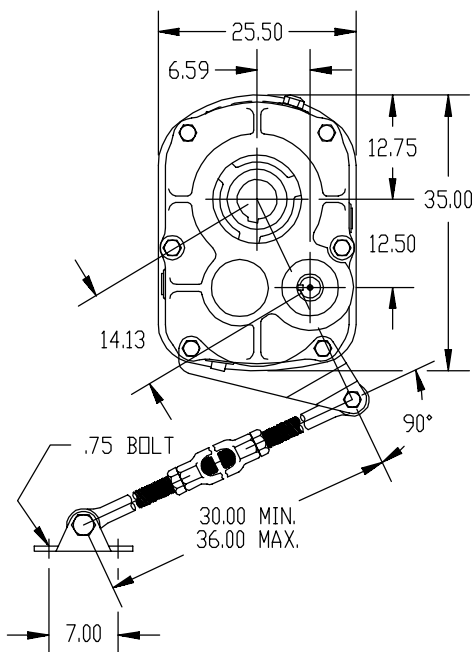
TORQUE-ARM Shaft Mount Speed Reducers

TXT10 - DOUBLE REDUCTION TAPER BUSHED



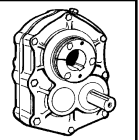
* 2.44" MIN. DISTANCE FOR
BUSHING SCREW REMOVAL.

TXT10 - DOUBLE REDUCTION STRAIGHT BORE



NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS



TORQUE-ARM Shaft Mount Speed Reducers

TXT10 Taper Bushed Reducers ■

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT1015T	272600	507D15	15.16	1020
TXT1024T	272601	507D24	24.30	1020
TXT1015TV	272602 ♣	507D15	15.16	1020
TXT1024TV	272603 ♣	507D24	24.30	1020

TXT10 Straight Bore Reducers ■

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT1015S	272604	507D15	15.16	1020
TXT1024S	272605	507D24	24.30	1020
TXT1015SV	272606 ♣	507D15	15.16	1020
TXT1024SV	272607 ♣	507D24	24.30	1020

TXT10 Accessories

Description	Part Number	Weight
TA10 Standard Motor Mount (254T-365T)	250401	130
TA10 Special Motor Mount (404T-445T) ♠	250404	150
TAB10 Bottom Motor Mount (254T-365T) ♠	250411	150
TXT10 Backstop Assembly	250260	5.6
Optional Filter Breather (1/2-14 NPT)	430049	.2
TXT10-D TA Reducer Belt Guard (254T-445T)	250395	140
TXT10 Cooling Fan Assembly	272329	15
TXT10 Taconite Auxiliary Seal Kit ♥	272454	35.8

TXT10 Bushing Assemblies ●

Stock Bore Size	Part Number		Shaft Keyseat Required †		Weight	
	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing	Tapered Bushing	Straight Bore Bushing
5-7/16 (Max.)	272240	◆	1-1/4 x 5/8 x 14-1/16	1-1/4 x 5/8 x 12-3/8	26.5	—
4-15/16	272239	250422	1-1/4 x 5/8 x 14-1/16	1-1/4 x 5/8 x 12-3/8	33.5	12.9
4-7/16 ▲	272238	250421	1 x 1/2 x 14-1/16	1 x 1/2 x 12-3/8	38.4	31.4
3-15/16 ▲	272214	250420	1 x 1/2 x 14-1/16	1 x 1/2 x 6-5/8	44	33

♣ Made to order.

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

◆ Preferred bore. No bushing required for this bore size.

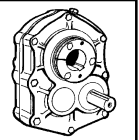
♠ DODGE standard belt guards will not fit this motor mount.

■ See page G1-191 for drill and tap dimensions for Flange Mount TXT Reducers.

● Taper Bushed Reducers require bushing for all bore sizes.

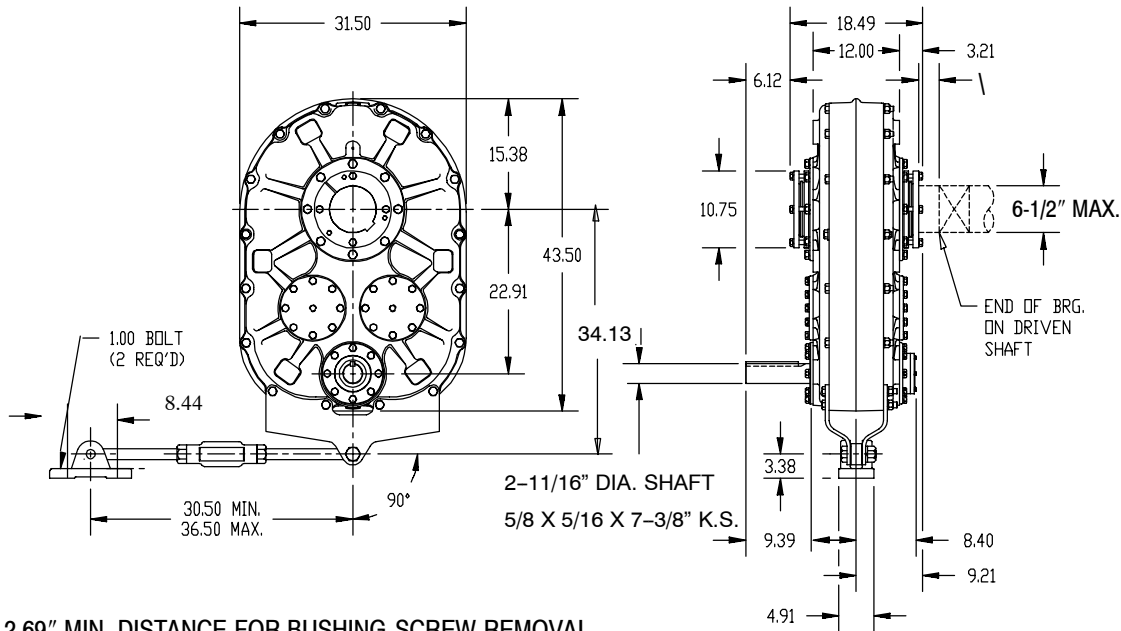
♥ Use with Taper Bushed Reducer only.

SELECTION/DIMENSIONS



TORQUE-ARM Shaft Mount Speed Reducers

TXT12 - DOUBLE REDUCTION TAPER BUSHED



* 2.69" MIN. DISTANCE FOR BUSHING SCREW REMOVAL.

TXT12 Taper Bushed Reducers □

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TXT1215TV	272615 ♣	608D15	14.89	1870
TXT1225TV	272617	608D25	24.65	1870

TXT12 Accessories

Description	Part Number	Weight
TA12 Standard Motor Mount (286T-445T)	272310	255
TXT12 Backstop Assembly	250260	5.6
Optional Filter Breather (1/2-14 NPT) ♠	430049	.2
TXT12 Cooling Fan Assembly	272330	15
Heat Exchanger Cooling Package	014148	55
TXT12 Taconite Auxiliary Seal Kit	272455	67.8
TXT12-D TA Reducer Belt Guard (320T-445T)	272688 ♣	170

TXT12 Tapered Bushing Assemblies I

Stock Bore Size	Part Number	Shaft Keyseat Required †	Weight
6-1/2 (Max.)	272219	1-1/2 x 3/4 x 17-5/16	37.4
6-7/16	272218	1-1/2 x 3/4 x 17-5/16	38.4
6	272217	1-1/2 x 3/4 x 17-5/16	46.2
5-15/16	272216	1-1/2 x 3/4 x 17-5/16	47.3
5-7/16 ▲	272215	1-1/4 x 5/8 x 17-5/16	53.1

♣ Made to order.

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

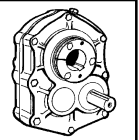
♠ 3/4 x 1/2 NPT adapter 430079 required.

● Taper Bushed Reducers require bushing for all bore sizes.

□ Reducers are supplied already drilled and tapped for vertical mounting and flange mounting. See page G1-191 for Flange Mounting dimensions.

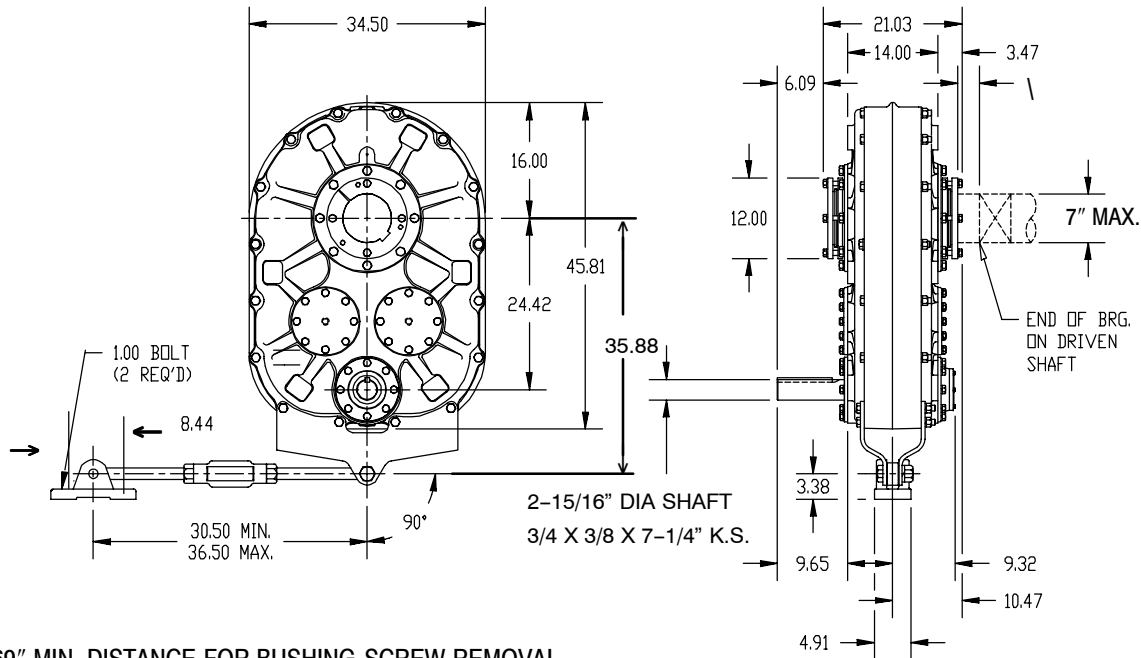
NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS



TORQUE-ARM Shaft Mount Speed Reducers

TDT13 - DOUBLE REDUCTION TAPER BUSHED



* 2.69" MIN. DISTANCE FOR BUSHING SCREW REMOVAL.

TDT13 Taper Bushed Reducer □

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TDT1325T	272250	700D25	24.73	2476

TDT13 Accessories

Description	Part Number	Weight
TA13 Standard Motor Mount (324T-447T)	272313	290
TDT13 Backstop Assembly	272259	6.7
Optional Filter Breather (1/2-14 NPT) ▲	430049	.2
TDT13 Cooling Fan Assembly	272331	20
Heat Exchanger Cooling Package	014148	55
TDT13 Taconite Auxiliary Seal Kit	272456	87

TDT13 Tapered Bushing Assemblies ●

Stock Bore Size	Part Number	Shaft Keyseat Required †	Weight
7 (Max.)	272257	1-3/4 x 3/4 x 19-9/16	74
6-1/2 ▲	272292	1-1/2 x 3/4 x 19-9/16	92
6 ▲	272291	1-1/2 x 3/4 x 19-9/16	111
5-15/16 ▲	272290	1-1/2 x 3/4 x 19-9/16	113

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

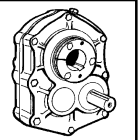
□ Reducers are supplied already drilled and tapped for vertical mounting and flange mounting. See page G1-191 for Flange Mounting dimensions.

▲ 3/4 x 1/2 NPT adapter 430079 required.

● Taper Bushed Reducers require bushing for all bore sizes.

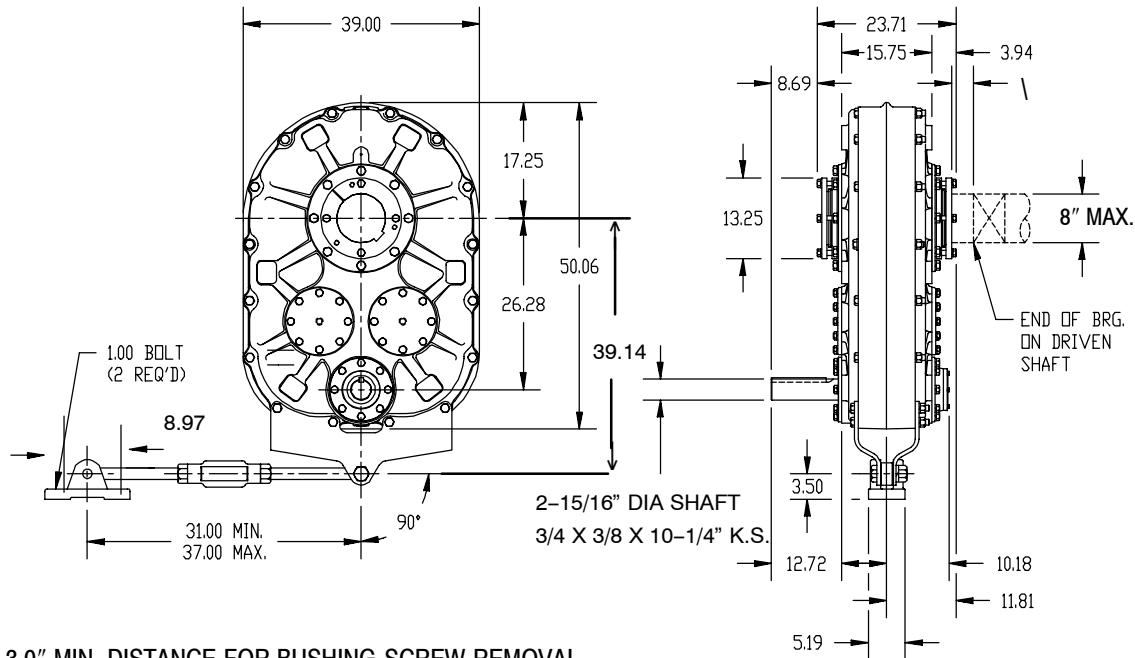
NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS



TORQUE-ARM Shaft Mount Speed Reducers

TDT14 - DOUBLE REDUCTION TAPER BUSHED



* 3.0" MIN. DISTANCE FOR BUSHING SCREW REMOVAL.

TDT14 Taper Bushed Reducer □

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TDT1425T	272150 ♣	800D25	24.80	3436

TDT14 Accessories

Description	Part Number	Weight
TA14 Standard Motor Mount (324T-447T)	272318	295
TDT14 Backstop Assembly	272293	13.4
Optional Filter Breather (1/2-14 NPT) ♠	430049	.2
TDT14 Cooling Fan Assembly	272332	20
Heat Exchanger Cooling Package	014148	55
TDT14 Taconite Auxiliary Seal Kit	272457	131

TDT14 Tapered Bushing Assemblies ●

Stock Bore Size	Part Number	Shaft Keyseat Required †	Weight
8 (Max.)	272194	2 x 3/4 x 22-1/4	135
7 ▲	272193	1-3/4 x 3/4 x 22-1/4	144
6-1/2 ▲	272192 ♣	1-1/2 x 3/4 x 22-1/4	162.1
6 ▲	272191	1-1/2 x 3/4 x 22-1/4	188

♣ Made to order.

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

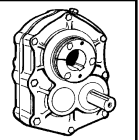
♠ 3/4 x 1/2 NPT adapter 430079 required.

□ Reducers are supplied already drilled and tapped for vertical mounting and flange mounting. See page G1-191 for Flange Mounting dimensions.

● Taper Bushed Reducers require bushing for all bore sizes.

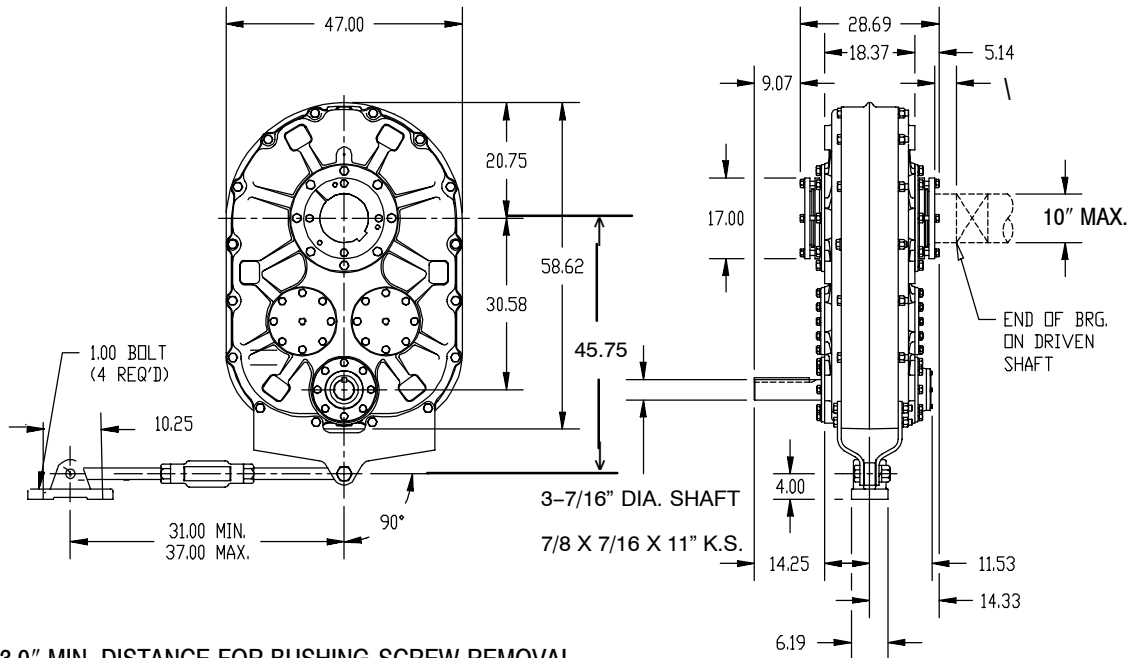
NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-12-G1-25	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS



TORQUE-ARM Shaft Mount Speed Reducers

TDT15 - DOUBLE REDUCTION TAPER BUSHED



* 3.0" MIN. DISTANCE FOR BUSHING SCREW REMOVAL.

TDT15 Taper Bushed Reducer □

Reducer Size	Part Number	AGMA Code	Actual Ratio	Weight
TDT1530T	272370 ♣	1000D30	30.64	5622

TDT15 Accessories

Description	Part Number	Weight
TA15 Standard Motor Mount (405T-445T)	272392	300
TDT15 Backstop Assembly	272293	13.4
Optional Filter Breather (1/2-14 NPT) ♠	430049	.2
TDT15 Cooling Fan Assembly	272333	23
Heat Exchanger Cooling Package	014148	55
TDT15 Taconite Auxiliary Seal Kit ♣	272458	180

TDT15 Tapered Bushing Assemblies ●

Stock Bore Size	Part Number	Shaft Keyseat Required †	Weight
10 (Max.)	272395	2-1/2 x 7/8 x 27-5/16	202
9 ▲	272396	2 x 3/4 x 27-5/16	267
8-1/2 ▲	272397	2 x 3/4 x 27-5/16	300
8 ▲	272398	2 x 3/4 x 27-5/16	307

♣ Made to order.

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

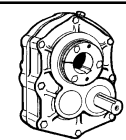
♠ 3/4 x 1/2 NPT adapter 430079 required.

□ Reducers are supplied already drilled and tapped for vertical mounting and flange mounting. See page G1-191 for Flange Mounting dimensions.

● Taper Bushed Reducers require bushing for all bore sizes.

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MODIFICATIONS/ ACCESSORIES



TORQUE-ARM Shaft Mount Speed Reducers

TABLE 5 — DODGE TORQUE-ARM REDUCERS AND ACCESSORIES COMPATIBILITY

TXT Reducer	Maximum Bore	AGMA Code	Input HP @ 75 RPM Output 15, 25:1	Input HP @ 100 RPM Output 5:1	Taper Bushed	Straight Bore	HYDROIL Style	Vertical Style	Motor Mount	Back-stop	Flange Mounting Pads	Taconite Auxiliary Seals	Floor Mounting Brackets	Belt Guards
TXT1	1-7/16"	107	4.15	4.49	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TXT2	1-15/16"	115	7.52	7.70	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TXT3	2-3/16"	203	12.7	11.7	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TXT4	2-7/16"	207	19.3	19.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TXT5	2-15/16"	215	29.9	25.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TXT6	3-7/16"	307	50.3	51.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TXT7	3-15/16"	315	72.3	87.4	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TXT8	4-7/16"	407	106.9	111.0	Yes	Yes	—	Yes	Yes	Yes	Yes	Yes	Consult DODGE	Yes
TXT9	4-15/16"	415	154.7	140.0	Yes	Yes	—	Yes	Yes	Yes	Yes	Yes	Consult DODGE	Yes
TXT10	5-7/16"	507	216.0	—	Yes	Yes	—	Yes	Yes	Yes	Yes	Yes	Consult DODGE	Yes
TXT12	6-1/2"	608	275.0	—	Yes	—	—	Yes	Yes	Yes	Yes	Yes	Consult DODGE	Yes
TDT13	7"	700	374.0	—	Yes	—	—	Yes	Yes	Yes	Yes	Yes	Consult DODGE	Yes
TDT14	8"	800	561.0	—	Yes	—	—	Yes	Yes	Yes	Yes	Yes	Consult DODGE	Yes
TDT15	10"	1000	—	—	Yes	—	—	Yes	Yes	Yes	Yes	Yes	Consult DODGE	Yes

TABLE 6 — DODGE SCREW CONVEYOR DRIVE REDUCERS AND ACCESSORIES COMPATIBILITY

SCXT Reducer	AGMA Code	Input HP @ 75 RPM Output 15,25:1	Input HP @ 100 RPM Output 5:1	HYDROIL Style	Drive Shafts	Adapter	Motor Mount	Trough Ends	Taconite Auxiliary Seals	Belt Guards
SCXT1	107	4.15	4.49	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SCXT2	115	7.52	7.70	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SCXT3	203	12.7	11.7	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SCXT4	207	19.3	19.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SCXT5	215	29.9	25.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SCXT6	307	50.3	51.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SCXT7	315	72.3	87.4	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SCXT8	407	106.9	111.0	—	Yes	Yes	Yes	—	Yes	Yes

TABLE 7 — NEMA MOTOR INFORMATION (1750 RPM)

Horsepower	NEMA Motor Frame	Shaft Diameter	Minimum Sheave Diameters
1	143T	7/8	2.2
1-1/2	145T	7/8	2.4
2	145T	7/8	2.4
3	182T	1-1/8	2.4
5	184T	1-1/8	3.0
7-1/2	213T	1-3/8	3.0
10	215T	1-3/8	3.8
15	254T	1-5/8	4.4
20	256T	1-5/8	4.4
25	284T	1-7/8	4.4
30	286T	1-7/8	5.2
40	324T	2-1/8	6.0
50	326T	2-1/8	6.8
60	364T	2-3/8	7.4
75	365T	2-3/8	8.6
100	+405T	2-7/8	8.6
125	+444T	3-3/8	10.5
150	+445T	3-3/8	10.5
200	+447T	3-3/8	13.2

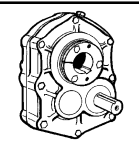
+ Energy Efficient (TEFC-XE) Frame

TABLE 8 — MINIMUM SHEAVE DIAMETERS FOR DODGE TORQUE-ARM REDUCERS

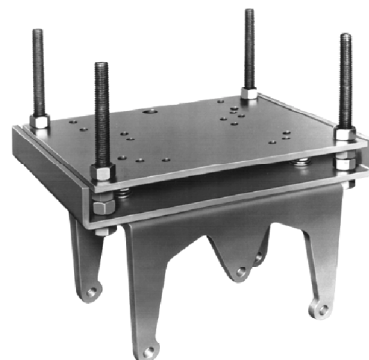
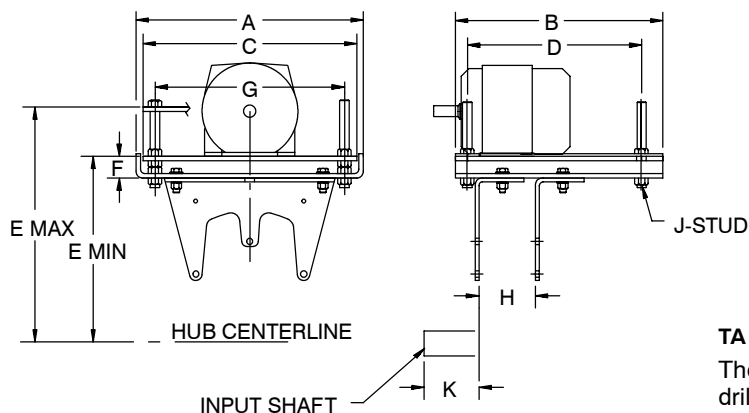
TXT, SCXT Reducer	Single Reduction		Double Reduction			
	Shaft Diameter	5:1	Shaft Diameter	9:1	15:1	25:1
1	1-1/8	4.0	3/4	4.0	3.0	3.0
2	1-7/16	3.0	1-1/8	5.0	3.0	3.0
3	1-5/8	7.0	1-1/4	5.0	4.0	4.0
4	1-15/16	7.5	1-7/16	6.5	4.6	4.6
5	2-3/16	9.5	1-15/16	7.0	5.4	5.4
6	2-3/16	6.5	2-3/16	7.0	6.2	6.2
7	2-7/16	7.5	2-7/16	7.0	6.2	6.2
8	2-7/16	9.2	2-7/16		6.2	6.2
9	2-7/16	9.5	2-7/16		8.0	8.0
10			2-11/16		8.5	8.5
12			2-11/16		9.5	9.5
13			2-15/16			12.0
14			2-15/16			15.0
15			3-7/16			20.0

SELECTION PAGES G1-12-G1-25	SELECTION/DIMENSIONS TXT PAGES G1-26-G1-67	SELECTION/DIMENSIONS SCXT PAGES G1-90-G1-126	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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MODIFICATIONS/ ACCESSORIES



TORQUE-ARM Shaft Mount Speed Reducers



TA MOTOR MOUNTS

The TA Motor Mount is a rugged all steel unit which requires no drilling and no foundation. It bolts directly to the top of the TORQUE-ARM reducer and can be located in any position around the shaft. It permits easy belt tensioning.

Each motor mount accommodates a wide variety of NEMA motor frames—see table below.

All motor mount fasteners are supplied with zinc-plated finish as standard.

Bolt hole configuration will also allow this mount to fasten to the top of a Screw Conveyor Drive reducer of equivalent size.

TORQUE-ARM MOTOR MOUNTS - TA1M THRU TA7M

MOTOR MOUNT NO. ■	PART NUMBER ●	WT.	REDUCER SIZE	NEMA MOTOR FRAME	A	B	C	D	E ♦		F	G	H	J	K
									MIN	MAX					
TA1M	241391	37	TXT1	56T - 215T	14.63	11.00	13.50	9.25	10.03	14.18	1.59	12.00	3.38	5/8 x 7	3.88
			TXT2						10.59	14.75					4.18
TA3M	243391	40	TXT3A	56T - 215T	14.63	11.00	13.50	9.25	11.59	15.78	1.62	12.00	4.25	5/8 x 7	4.88
	243393 ▲	70		254T - 256T	18.63	17.00	17.50	14.25	11.59	15.78	1.59	15.50		3/4 x 8	
TA4M	244391	75	TXT4A	143T - 286T	18.63	17.00	17.50	14.25	11.96	16.73	1.78	15.50	4.63	3/4 x 8	6.13
TA5M	245391	76	TXT5B	143T - 286T	18.63	17.00	17.50	14.25	12.53	17.28	1.84	15.50	4.13	3/4 x 8	6.65
	245393 ▲			324T - 326T	20.50	18.50	19.25	16.50	12.53	17.28	1.84	17.50		3/4 x 8	
TA6M	246391	99	TXT6	143T - 326T	20.50	18.50	19.25	16.50	14.56	19.31	1.84	17.50	4.50	3/4 x 8	7.31
TA7M	247395	110	TXT7	143T - 365T	22.50	19.00	21.25	16.50	17.62	22.13	2.50	19.25	4.75	1 x 9	7.81

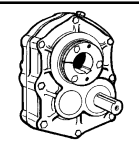
V-BELT DRIVE CENTER DISTANCES FOR TA1M THRU TA7M TORQUE-ARM MOTOR MOUNTS

MOTOR MOUNT NO.	REDUCER SIZE	CENTER DISTANCES FOR VARIOUS NEMA MOTOR FRAMES															
		56		140		180		210		250		280		320		360	
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
TA1M	TXT1	17.6	21.0	17.6	21.0	18.5	22.0	19.3	22.7								
	TXT2	18.7	22.1	18.7	22.1	19.7	23.1	20.5	23.9								
TA3M	TXT3A	20.2	23.6	20.2	23.6	21.2	24.6	22.0	25.3	23.0	26.3						
TA4M	TXT4A			21.2	25.2	22.2	26.2	23.0	26.9	23.9	27.9	24.7	28.7				
TA5M	TXT5B			22.7	26.6	23.7	27.6	24.4	28.4	25.4	29.4	26.2	30.1	27.2	31.1		
TA6M	TXT6			25.9	29.7	26.9	30.7	27.6	31.4	28.6	32.4	29.4	33.2	30.4	34.2		
TA7M	TXT7			30.6	34.4	31.6	35.4	32.4	36.2	33.4	37.2	34.1	37.9	35.1	38.9	36.1	40.0

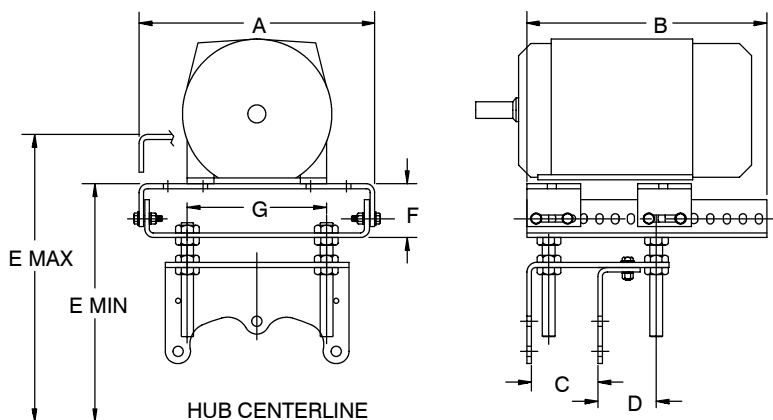
- Can be used with any ratio TORQUE-ARM Reducer (5, 9, 15, 25).
- Necessary mounting bolts are included.
- ▲ Made to order belt guards required for these motor mounts. Consult DODGE.
- ♦ Provides for V-belt adjustment.
- ♣ Made to order.

SELECTION PAGES G1-12-G1-25	DIMENSIONS PAGES G1-26-G1-67	RELATED PRODUCTS PAGES G1-144-G1-184	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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MODIFICATIONS/ ACCESSORIES



TORQUE-ARM Shaft Mount Speed Reducers



TORQUE-ARM MOTOR MOUNTS - TA8 THRU TA15

MOTOR MOUNT NO.	PART NUMBER	WT.	REDUCER SIZE	NOMINAL RATIO	NEMA MOTOR FRAME	A	B	C	D	E ♦		F	G
										MIN	MAX		
TA8	248401	119	TXT8	15, 25	213T - 365T	18.63	19.00	5.25	4.36	19.40	23.90	4.25	11.00
				5	254T - 365T								
TA9	249401	120	TXT9	15, 26	213T - 365T	18.63	19.00	5.25	4.63	21.46	25.90	4.25	11.00
				5	284T - 365T								
	249399 ♣▲	125		15, 26	404T - 445T	25.06	24.00			20.21	24.71	3.81	
TA10	250401	130	TXT10	15, 24	254T - 365T	18.63	19.00	6.00	3.88	22.60	27.09	4.25	11.00
	250404	200			404T - 445T	25.06	24.00	6.00	3.88	21.86	27.38	3.81	18.50
TA12	272310	255	TXT12	15, 25	286T - 445T	25.06	24.00	7.63	5.25	25.65	31.13	3.81	18.50
TA13	272313	290	TDT13	25	324T - 445T	25.06	24.00	8.75	8.63	25.65	31.13	3.81	18.50
TA14	272318	295	TDT14	25	324T - 447T	25.06	24.00	10.00	7.38	25.81	31.31	3.81	18.50
TA15	272392	320	TDT15	30	405T 449T	25.06	24.00	12.63	5.75	33.50	39.00	3.81	18.50

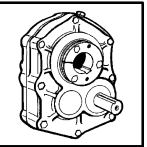
V-BELT DRIVE CENTER DISTANCES FOR TA8 THRU TA15 TORQUE-ARM MOTOR MOUNTS

MOTOR MOUNT NO.	REDUCER SIZE	NOMINAL RATIO	CENTER DISTANCES FOR VARIOUS NEMA MOTOR FRAMES													
			210		250		280		320		360		400		440	
			MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
TA8	TXT8	15, 25	35.5	40.5	36.4	41.2	37.2	42.2	38.2	43.2	39.2	44.2				
		5			37.2	41.5	37.9	42.3	38.9	43.3	39.9	44.3				
TA9	TXT9	15, 26	38.0	43.0	39.0	44.0	39.8	44.7	40.7	45.7	41.7	46.7	42.8	47.7		
		5					40.5	44.8	41.5	45.8	42.5	46.8	43.5	47.8		
TA10	TXT10	15, 24			42.6	47.5	43.3	48.2	44.3	49.2	45.3	50.2	45.8	50.7	47.3	51.7
TA12	TXT12	15, 25							57.7	62.1	58.7	63.1	59.7	64.1	60.7	65.1
TA13	TDT13	25							59.7	65.1	60.7	66.1	61.7	67.1	62.0	66.7
TA14	TDT14	25							61.7	67.1	62.7	68.1	63.7	69.1	64.7	70.1
TA15	TDT15	30											75.0	80.5	76.0	81.5

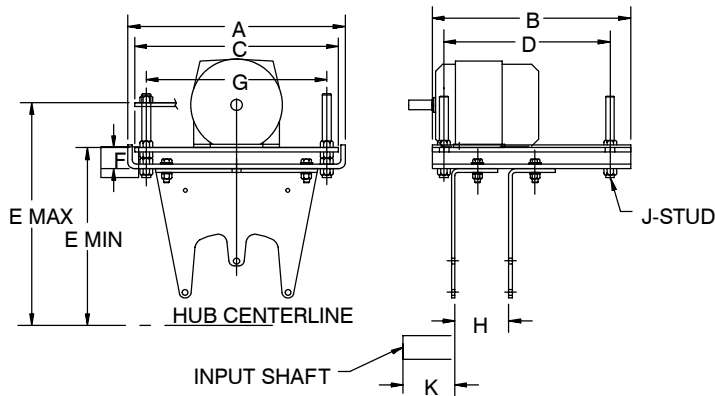
- Necessary mounting bolts are included.
- ▲ Made to order belt guards required for this motor mount. Consult DODGE.
- ♦ Provides for V-belt adjustment.
- ♣ Made to order.

SELECTION PAGES G1-12-G1-25	DIMENSIONS PAGES G1-26-G1-67	RELATED PRODUCTS PAGES G1-144-G1-184	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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MODIFICATIONS/ ACCESSORIES



TORQUE-ARM Shaft Mount Speed Reducers



TAML LONG MOTOR MOUNTS

The TAML Motor Mount has longer support brackets, which allows for more clearance between the conveyor pulley and the bottom plate of the motor mount. (Reference table below for clearance dimensions). The motor mount is a rugged all steel unit which requires no drilling and no foundation. It bolts directly to the top of the TORQUE-ARM Reducer and can be located in any position around the shaft. It permits easy belt tensioning and accommodates a wide variety of NEMA motor frames.

All motor mount fasteners are supplied with zinc-plated finish as standard.

Bolt hole configuration will also allow this mount to fasten to the top of a Screw Conveyor Drive Reducer of equivalent size.

TORQUE-ARM LONG MOTOR MOUNTS - TA3ML THRU TA7ML ▲ †

MOTOR MOUNT NO. ■	PART NUMBER ●	WT.	REDUCER SIZE	NEMA MOTOR FRAME	A	B	C	D	E ◆		F	G	H	J	K
									MIN	MAX					
TA3ML	243392	42	TXT3A	56T - 215T	14.63	11.00	13.50	9.25	14.59	18.72	1.59	12.00	4.25	5/8 x 7	4.88
TA4ML	244392	78	TXT4A	143T - 286T	18.63	17.00	17.50	14.25	16.46	21.20	1.78	15.50	4.63	3/4 x 8	6.13
TA5ML	245392	80	TXT5B	143T - 286T	18.63	17.00	17.50	14.25	19.28	24.03	1.84	15.50	4.13	3/4 x 8	6.65
TA6ML	246390	102	TXT6	143T - 326T	20.50	18.50	19.25	16.50	28.56	33.30	1.84	17.50	4.50	3/4 x 8	7.31
TA7ML	247396	115	TXT7	143T - 326T	22.50	19.00	21.25	16.50	32.46	37.20	1.84	19.25	4.75	3/4 x 8	7.81

V-BELT DRIVE CENTER DISTANCES FOR TA3ML THRU TA7ML TORQUE-ARM LONG MOTOR MOUNTS

MOTOR MOUNT NO.	REDUCER SIZE	CENTER DISTANCES FOR VARIOUS NEMA MOTOR FRAMES													
		56		140		180		210		250		280		320	
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
TA3ML	TXT3A	23.1	26.5	23.1	26.5	24.1	27.5	24.9	28.3						
TA4ML	TXT4A			25.6	30.6	26.7	30.6	27.4	31.4	28.3	32.4	29.2	33.1		
TA5ML	TXT5B			29.4	33.4	30.4	34.3	31.1	35.1	32.1	36.1	32.9	36.8		
TA6ML	TXT6					40.8	44.6	41.6	45.4	42.6	46.4	43.3	47.1	44.3	48.1
TA7ML	TXT7					47.0	50.8	47.7	51.5	48.7	52.5	49.5	53.3	50.5	54.3

CLEARANCE DIMENSIONS ■

REDUCER	MOTOR MOUNT	CLEARANCE DIMENSIONS (1)
TXT1	TA1M	7.63
TXT2	TA1M	8.25
TXT3A	TA3M	9.25
TXT4A	TA4M	9.44
TXT5B	TA5M	10.00
TXT6	TA6M	11.97
TXT7	TA7M	14.38

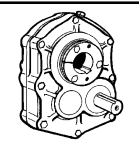
CLEARANCE DIMENSIONS ■

REDUCER	MOTOR MOUNT	CLEARANCE DIMENSIONS (1)
TXT3A	TA3ML	12.25
TXT4A	TA4ML	13.94
TXT5B	TA5ML	16.75
TXT6	TA6ML	25.96
TXT7	TA7ML	29.88

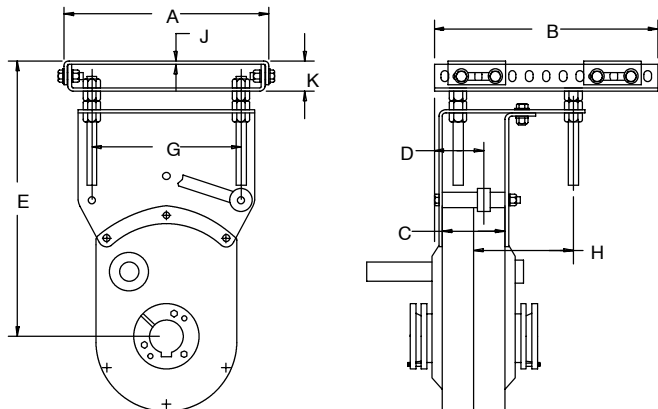
(1) Distance from centerline of head shaft (reducer bore) and lowest component of motor mount hardware extending over top of conveyor.

- Can be used with any ratio TORQUE-ARM reducer (5, 9, 15, 25).
- Necessary mounting bolts are included.
- ▲ Made to order belt guards required for these motor mounts. Consult DODGE.
- ◆ Provides for V-belt adjustment.
- † Consult DODGE for Long Motor Mounts for reducers TXT8 and larger.

SELECTION PAGES G1-12-G1-25	DIMENSIONS PAGES G1-26-G1-67	RELATED PRODUCTS PAGES G1-144-G1-184	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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TORQUE-ARM Shaft Mount Speed Reducers



TAB BOTTOM MOTOR MOUNTS

For those applications where space constraints do not allow a DODGE TORQUE-ARM motor mount to be mounted from the top end of the reducer with our standard TORQUE-ARM motor mounts, TAB Bottom Motor Mounts are available. The TAB Motor Mount is a rugged all-steel unit which requires no drilling or foundation. It bolts directly to the bottom of a TORQUE-ARM reducer housing and also serves as a support member for the TORQUE-ARM rod assembly. Each mount accommodates a wide variety of NEMA AC motor frames. For initial belt installation, the adjusting screws can be set at a minimum position which offers adequate future V-belt adjustment.

TORQUE-ARM BOTTOM MOTOR MOUNTS - TAB 1 THRU TAB 10 ▲

MOTOR MOUNT NO.	PART NUMBER I	WT.	REDUCER SIZE	NOMINAL RATIO	NEMA MOTOR FRAME	A	B	C	D	E ♦		G	H	J	K
										MIN	MAX				
TAB1	241421	40	TXT1	5, 9, 15, 25	56T - 215T	12-1/8	11-1/2	3-3/8	2-43/64	14-17/64	17-61/64	8	5-25/32	1/4	2-3/8
TAB2	242421	45	TXT2	5, 9, 15, 25	56T - 215T	12-1/8	11-1/2	3-3/8	2-43/64	14-29/32	18-19/32	8	5-25/32	1/4	2-3/8
TAB3	243404	60	TXT3A	5, 9, 15, 25	143T - 286T	15-1/8	16-1/2	4-1/4	3-15/32	19-1/4	23-7/8	11	5-13/32	1/4	2-3/8
TAB4	244404	65	TXT4A	5, 9, 15, 25	143T - 145T	15-1/8	16-1/2	4-5/8	5-13/32	20-13/32	25-1/32	11	5-1/32	1/4	2-3/8
TAB5	245405	70	TXT5B	5, 9, 15, 25	143T - 145T	15-1/8	16-1/2	4-1/8	5-21/64	21-15/32	26-3/32	11	5-17/32	1/4	2-3/8
TAB6	246392	75	TXT6	5, 9, 15, 25	182T - 326T	15-1/8	16-1/2	4-1/2	3-37/64	24-1/4	28-13/16	11	5-17/16	1/4	2-3/8
TAB7	247404	85	TXT7	5, 9, 15, 25	182T - 215T	15-1/8	16-1/2	4-3/4	5-5/32	27-3/4	32-1/4	11	5-1/8	1/4	2-3/8
TAB8	248406	90	TXT8	5, 15, 25	254T - 326T	15-1/8	19	5-1/4	3-1/2	33-13/32	37-25/32	11	4-5/8	3/8	4-1/4
TAB9	249404	95	TXT9	5, 15, 26	213T - 256T	18-5/8	19	5-1/4	3-7/8	34-29/32	39-9/32	11	4-5/8	3/8	4-1/4
TAB10	250411	105	TXT10	15, 24	284T - 365T	25-1/16	24	6	5-5/8	36-3/32	41-17/32	18-1/2	4-1/8	3/8	3-13/16

● Necessary mounting bolts are included.

♦ Provides for V-belt adjustment.

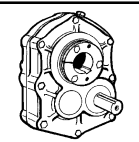
▲ Made to order belt guards required for these motor mounts. Consult DODGE.

V-BELT DRIVE CENTER DISTANCES FOR TORQUE-ARM BOTTOM MOTOR MOUNTS

MOTOR MOUNT NO.	REDUCER SIZE	NOMINAL RATIO	CENTER DISTANCES FOR VARIOUS NEMA MOTOR FRAMES															
			56		140		180		210		250		280		320		360	
			MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
TAB1	TXT1	9, 15, 25	14.7	18.4	14.7	18.4	15.7	19.4										
		5	14.5	18.2	14.5	18.2	16.3	19.2	17.2	19.9								
TAB2	TXT2	9, 15, 25	14.8	18.5	14.8	18.5	15.8	19.5	16.5	20.2								
		5			14.6	18.2	15.6	19.2	16.3	20.0								
TAB3	TXT3A	9, 15, 25	18.7	23.3	18.7	23.3	19.7	24.3	20.5	25.1								
		5			19.5	24.1	20.2	24.8	21.2	25.8								
TAB4	TXT4A	9, 15, 25	19.3	23.9	19.3	23.9	20.3	24.9	21.1	25.7	22.1	26.6						
		5			20.0	24.7	20.8	25.4	21.8	26.4	22.5	27.2						
TAB5	TXT5B	9, 15, 25			19.5	24.1	20.5	25.1	21.3	25.9	22.3	26.9	23.0	27.6				
	TXT5A	5					20.9	25.5	21.9	26.5	22.6	27.2	23.6	28.2				
TAB6	TXT6	9, 15, 25			21.4	25.9	22.4	26.9	23.1	27.6	24.1	28.6	24.9	29.4	25.8	30.4		
		5							23.6	28.2	24.4	28.9	25.4	29.9				
TAB7	TXT7	9, 15, 25					24.5	28.9	25.2	29.7	26.2	30.6	26.9	31.4	27.9	32.4		
		5							25.7	30.2	26.4	30.9	27.4	31.9				
TAB8	TXT8	15, 25							29.5	33.8	30.5	34.8	31.2	35.6	32.2	36.5	33.2	37.5
		5									30.5	34.9	31.5	35.9	32.5	36.9		
TAB9	TXT9	15, 26							29.9	34.1	30.8	35.1	31.6	35.9	32.5	36.8	33.5	37.8
		5											31.7	36.1	32.7	37.1		
TAB10	TXT10	15, 24									32.0	37.0	32.8	38.0	33.7	39.0	34.7	40.0

SELECTION PAGES G1-12-G1-25	DIMENSIONS PAGES G1-26-G1-67	RELATED PRODUCTS PAGES G1-144-G1-184	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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MODIFICATIONS/ ACCESSORIES

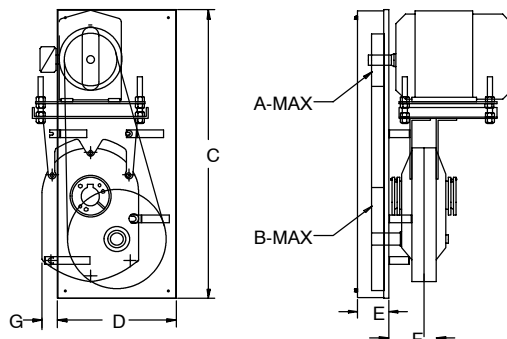


TORQUE-ARM Shaft Mount Speed Reducers



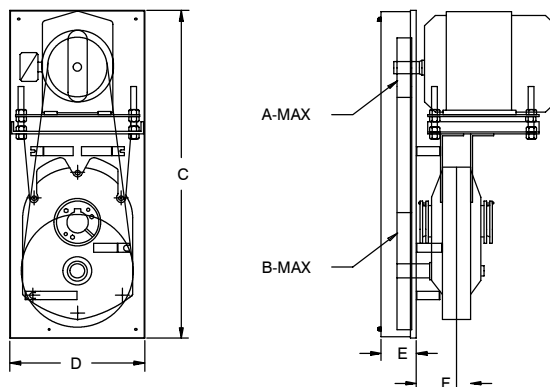
SLOTTED METAL PANEL BELT GUARD

Belt guards with mounting straps for TXT Reducers will fit standard TA motor mounts. The belt guards are designed to fit most common sheave diameters. They mount easily with no machining required.



BELT GUARDS FOR DOUBLE REDUCTION TXT REDUCERS (9, 15, 25:1) WITH STANDARD MOTOR MOUNTS ■

REDUCER SIZE	BELT GUARD SIZE	PART NUMBER	MOTOR MOUNT NO.	WT.	NEMA MOTOR FRAME	CENTER DISTANCE		A	B	C	D	E	F	G
						MIN	MAX							
TXT1	TXT1D	241395	TA1M	30	56T-215T	17.6	22.7	5.0	12.0	32.0	13.0	3.50	3.63	—
TXT2	TXT2D	242395	TA1M	36	56T-215T	18.7	23.9	6.0	12.0	34.0	15.0	4.00	3.5	—
TXT3A	TXT3D	243387 ▲	TA3M	43	56T-215T	20.2	25.3	7.0	14.0	37.0	17.0	4.00	3.94	—
TXT4A	TXT4D	244395	TA4M	54	143T-286T	21.2	28.7	7.0	15.0	43.0	18.0	4.50	5.19	—
TXT5B	TXT5D	245387 ▲	TA5M	75	143T-286T	22.7	30.2	7.0	15.0	45.0	18.0	4.25	5.13	.625
TXT6	TXT6D	246366	TA6M	83	143T-326T	25.9	34.2	8.0	18.0	50.0	20.0	6.00	6.06	1.63
TXT7	TXT7D	247390	TA7M	90	143T-365T	30.6	40.0	10.0	20.0	56.0	23.0	6.00	6.88	.500
TXT8	TXT8D	248395	TA8	107	213T-365T	35.4	44.2	12.0	25.0	63.0	27.0	6.50	7.46	.156
TXT9	TXT9D	249395 ▲	TA9	125	213T-365T	38.0	46.7	12.0	25.0	66.0	30.0	9.00	7.63	2.91
TXT10	TXT10D	250395	TA10	140	254T-445T	42.5	50.8	12.0	25.0	72.5	30.0	9.00	8.25	4.31
TXT12	TXT12D	272688 ♣	TA12	170	320T-445T	58.1	66.6	15.0	30.0	91.0	34.0	9.50	8.13	—



BELT GUARDS FOR SINGLE REDUCTION TXT REDUCERS (5:1) WITH STANDARD MOTOR MOUNTS ■

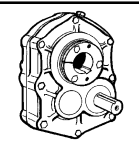
REDUCER SIZE	BELT GUARD SIZE	PART NUMBER	MOTOR MOUNT NO.	WT.	NEMA MOTOR FRAME	CENTER DISTANCE		A	B	C	D	E	F
						MIN	MAX						
TXT105	TXT1S	241397	TA1M	30	56T-215T	17.6	22.7	5.0	12.0	32.0	13.0	3.50	3.63
TXT205	TXT2S	242397	TA1M	36	56T-215T	18.7	23.9	6.0	13.0	34.0	15.0	4.00	3.50
TXT305A	TXT3S	243389 ▲	TA3M	43	56T-215T	20.2	25.3	7.0	15.0	37.0	17.0	4.00	3.94
TXT405A	TXT4S	244397	TA4M	54	143T-286T	21.2	28.7	8.0	16.0	43.0	18.0	4.50	5.19
TXT505A	TXT5S	245389 ▲	TA5M	59	143T-286T	22.7	30.2	8.0	16.0	45.0	18.0	5.25	5.13
TXT605	TXT6S	246368	TA6M	95	143T-326T	25.9	34.2	10.0	18.0	50.0	20.0	6.00	6.06
TXT705	TXT7S	247392	TA7M	112	143T-365T	30.6	40.0	10.0	25.0	58.0	27.0	6.00	6.88
TXT805	TXT8S	248397	TA8	125	213T-365T	35.1	43.9	13.0	30.0	66.0	32.0	6.50	7.46
TXT905	TXT9S	249397 ▲	TA9	156	213T-365T	37.6	46.4	13.0	30.0	69.0	32.0	9.00	7.63

▲ These belt guards do not fit the larger frame, higher H.P. TORQUE-ARM motor mounts on pages G1-69 and G1-70.

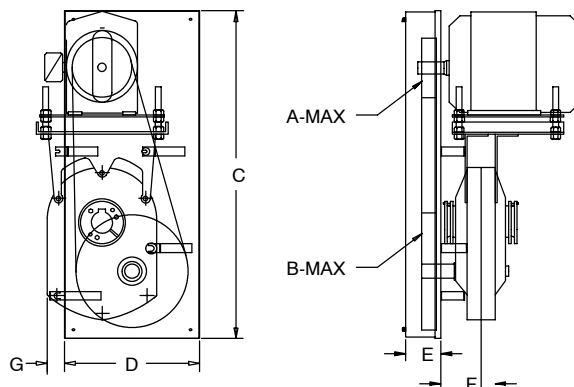
■ These belt guards do not fit TAB Bottom Motor Mounts. Consult DODGE for made-to-order belt guards for use with Bottom Motor Mounts.

♣ Made to order.

SELECTION PAGES G1-12-G1-25	DIMENSIONS PAGES G1-26-G1-67	RELATED PRODUCTS PAGES G1-144-G1-184	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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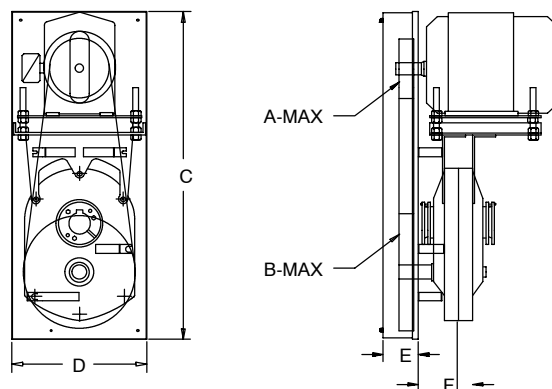


TORQUE-ARM Shaft Mount Speed Reducers



BELT GUARDS FOR DOUBLE REDUCTION TXT REDUCERS (9, 15, 25:1) WITH LONG MOTOR MOUNTS ♣

REDUCER SIZE	BELT GUARD SIZE	PART NUMBER	MOTOR MOUNT NO.	WT.	NEMA MOTOR FRAME	CENTER DISTANCE		A	B	C	D	E	F	G
						MIN	MAX							
TXT3A	TXT3DLMM	243153▲	TA3ML	52	56T-215T	23.1	28.3	7.0	14.0	40.0	17.0	4.00	3.94	—
TXT4A	TXT4DLMM	244151	TA4ML	65	143T-286T	25.6	33.1	7.0	15.0	47.5	18.0	4.50	5.19	—
TXT5B	TXT5DLMM	245102▲	TA5ML	90	143T-286T	29.4	36.8	7.0	15.0	51.7	18.0	4.25	5.13	.625
TXT6	TXT6DLMM	246147	TA6ML	100	143T-326T	39.8	48.1	8.0	18.0	64.0	20.0	6.00	6.06	1.63
TXT7	TXT7DLMM	247152	TA7ML	108	143T-365T	46.0	55.3	10.0	20.0	71.5	23.0	6.00	6.88	.500



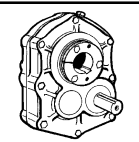
BELT GUARDS FOR SINGLE REDUCTION TXT REDUCERS (5:1) WITH LONG MOTOR MOUNTS ♣

REDUCER SIZE	BELT GUARD SIZE	PART NUMBER	MOTOR MOUNT NO.	WT.	NEMA MOTOR FRAME	CENTER DISTANCE		A	B	C	D	E	F
						MIN	MAX						
TXT305A	TXT3SLMM	243164▲	TA3ML	55	56T-215T	23.1	28.3	7.0	15.0	40.0	17.0	4.00	3.94
TXT405A	TXT4SLMM	244164	TA4ML	65	143T-286T	25.6	33.1	8.0	16.0	47.5	18.0	4.50	5.19
TXT505A	TXT5SLMM	245162▲	TA5ML	90	143T-286T	29.4	36.8	8.0	16.0	51.7	18.0	4.25	5.13
TXT605	TXT6SLMM	246132	TA6ML	100	143T-326T	39.8	48.1	10.0	18.0	64.0	20.0	6.00	6.06
TXT705	TXT7SLMM	247146	TA7ML	135	143T-365T	46.0	55.3	10.0	20.0	71.5	23.0	6.00	6.88

▲ These belt guards do not fit the larger frame, higher H.P. TORQUE-ARM motor mounts on pages G1-69 and G1-70.

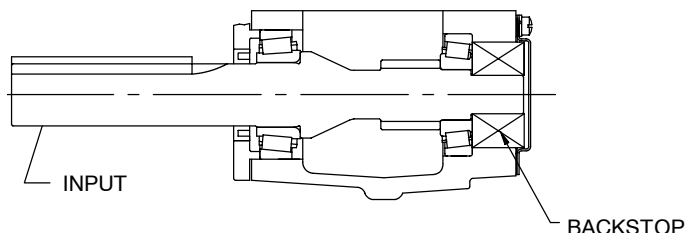
♣ Made to order.

SELECTION PAGES G1-12-G1-25	DIMENSIONS PAGES G1-26-G1-67	RELATED PRODUCTS PAGES G1-144-G1-184	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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TORQUE-ARM Shaft Mount Speed Reducers

BACKSTOP ASSEMBLIES FOR TORQUE-ARM REDUCERS



Backstops are offered for service conditions that require the prevention of reverse direction. They can be quickly installed by removing cover plate and slipping the backstop over the input shaft. After cover is replaced, backstop becomes completely sealed inside the reducer case. Since the reducer lubricates the backstop, no additional lubrication is required.

When ordering backstops, specify by reducer size and ratio. Keys are included in each backstop assembly.

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 lifts, amusement rides, etc., where the safety of persons or property is dependent on their function. On such applications, other safety devices should be provided.

BACKSTOP ASSEMBLIES ■

Reducer Size	Nominal Ratio	Part Number	Weight
TXT1	5, 9, 15, 25	242101	.60
TXT2	5, 9, 15, 25	252101	1
TXT3A	9, 15, 25	243106	.60
TXT3A	5	252101	1
TXT4A	9, 15, 25	244106	1.2
TXT4A	5	244148	.90
TXT5B	9, 15, 25	245154	2.2
TXT5A	5	246101	1.8
TXT6	5, 9, 15, 25	246092	2.5
TXT7	5, 9, 15, 25	247260	2.8
TXT8	15, 25	249260	3.8
TXT8	5	250260	5.6
TXT9	15, 26	249260	3.8
TXT9	5	272259	6.7
TXT10	15, 24	250260	5.6
TXT12	15, 25	250260	5.6
TDT13	25	272259	6.7
TDT14	25	272293	13.4
TDT15	30	272293	13.4

■ See page G1-200 for complete listing of Backstop assemblies for all generations of DODGE TORQUE-ARM reducers.

FILTER BREATHERS FOR TORQUE-ARM REDUCERS



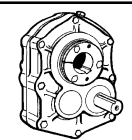
FILTER BREATHERS ★

Reducer Size	Part Number	Plug Dimensions
TXT1 to TXT4	430048	3/8—18 NPSF
TXT5 to TXT10	430049	1/2—14 NPSF

★ Breathers fit all reducer ratios.

Filter air breathers are designed for use in dusty atmospheres where the standard TORQUE-ARM breather may become clogged and inoperative. The 40 micron mesh opening allows the reducer to breathe, yet keep dust out, under the most extreme conditions. Clean oil is necessary for proper service and long gear and bearing life. Breathers may be used in all reducers and screw conveyor drives. When ordering, specify reducer size.

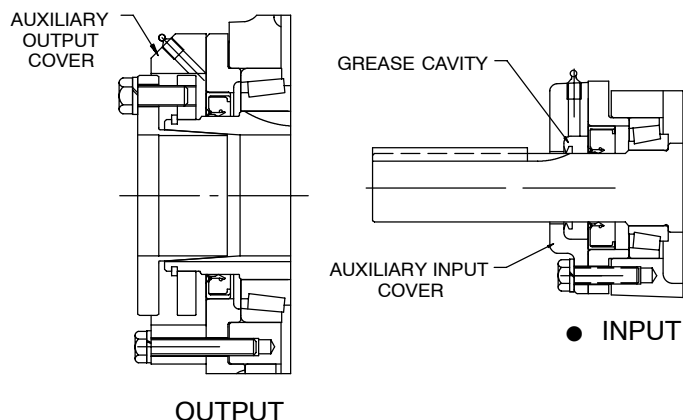
SELECTION PAGES G1-12-G1-25	DIMENSIONS PAGES G1-26-G1-67	RELATED PRODUCTS PAGES G1-144-G1-184	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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TORQUE-ARM Shaft Mount Speed Reducers

AUXILIARY SEAL KITS FOR TORQUE-ARM REDUCERS

AUXILIARY SEAL KITS ★■●



Reducer Size	Nominal Ratio	Part Number	Reducer Size	Nominal Ratio	Part Number
TXT1	9,15,25	272515	TXT6	5,9,15,25	272450
	5	272521		5,9,15,25	272451
TXT2	9,15,25	272446	TXT8	5,15,25	272452
	5	272459		5,15,26	272453
TXT3A	9,15,25	243577	TXT10	15,24	272454
	5	253186		15,25	272455
TXT4A	9,15,25	244676	TDT13	25	272456
	5	254267		25	272457
TXT5B	9,15,25	245635	TDT15	30	272458 ♣
TXT5A	5	255230			

★ For Taper Bushed reducers only.

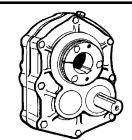
■ See page G1-192 for dimensions to drill and tap reducer housing for mounting of auxiliary seal kit. Dodge will install upon request.

♣ Made to order

● Input auxiliary seal can not be used on same input shaft with a cooling fan

An Auxiliary Seal Kit consists of two output seals and one input seal with necessary mounting hardware. Seal rings are equipped with a standard grease fitting and a large cavity which permits grease purging of the seal in severe applications, such as taconite mining, rock processing, fertilizer processing, etc. Reducer housings, sizes 1 thru 5, must be drilled and tapped to accommodate seal. On sizes 6 and larger, the auxiliary seal bolts to the existing seal carrier, with the longer bolts supplied with the kit. A filter breather is included with each auxiliary seal kit.

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TORQUE-ARM Shaft Mount Speed Reducers

COOLING FAN ASSEMBLIES FOR TORQUE-ARM REDUCERS

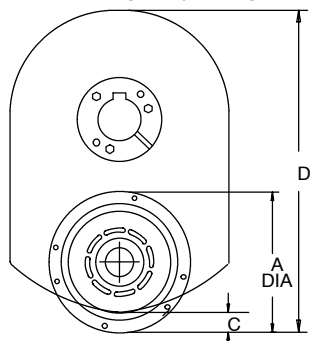
When the thermal capacity of a TORQUE-ARM reducer is exceeded, cooling fans provide an optional, inexpensive way of lowering the oil temperature, thus increasing the thermal horsepower capacity of the reducer. Selection tables indicate when a cooling fan is required.

Installation is accomplished simply by attaching formed steel mounting straps to the reducer input shaft seal carrier. The fan assembly, which fastens to the input shaft, is compact enough to allow installation of the V-drive originally designed for the reduc-

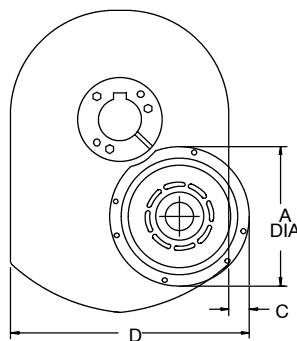
er. The fan housing is attached to the outer edges of the straps, which are spaced to allow free circulation of air at the back of the housing as well as through the front of the unit. The fan blade offers a radial streamline air flow which means smaller fans yet a more efficient movement of air.

For thermal capacities beyond the range of cooling fans, heat exchangers may be used—see below.

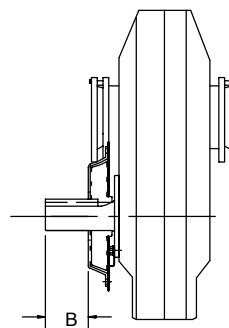
NOTE: See page G1-194 for maximum input shaft speeds



TXT305A THRU TXT905 (5:1)
TXT12 THRU TDT15 (15,25,30:1)



TXT3A THRU TXT10
RATIOS 9,15,25:1



TORQUE-ARM REDUCER COOLING FAN ASSEMBLIES

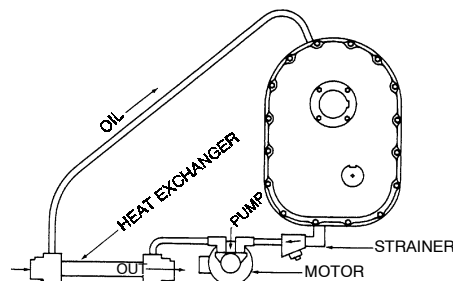
REDUCER SIZE	COOLING FAN NO.	PART NUMBER	NOMINAL RATIOS	WT.	A	B	C	D
TXT3A, SCXT3A	TXT3A	243581	9, 15, 25	3.0	4.88	2.13	.15	9.38
TXT305A, SCXT305A	TXT305A	253188	5	3.0	3.94	1.88	—	—
TXT4A, SCXT4A	TDT4	272594	9, 15, 25	3.0	5.88	2.94	.50	10.88
TXT405A, SCXT405A	TXT405A	254268	5	3.0	4.68	2.94	—	—
TXT5B, SCXT5B	TDT5	272369	9, 15, 25	3.0	7.08	3.44	—	—
TXT505A, SCXT505A	TXT505A	255231	5	3.0	5.75	3.44	—	—
TXT6, SCXT6	TDT6	272325	9, 15, 25	6.0	10.25	3.44	1.31	16.44
TXT605, SCXT605	TXT605	272681♣	5	6.0	7.08	3.42	—	—
TXT7, SCXT7	TDT7	272326	9, 15, 25	6.0	12.75	3.68	2.18	20.94
TXT705, SCXT705	TXT705	272685♣	5	6.0	9.25	3.88	—	—
TXT8	TDT8	272327	15, 25	9.0	12.75	4.18	2.38	22.63
TXT805	TDT8	272327	5	9.0	12.75	4.25	—	—
TXT9	TDT9	272328	15, 26	15.0	16.75	6.31	3.75	26.38
TXT905	T19	272324♣	5	15.0	12.75	7.44	—	—
TXT10	TDT10	272329	15, 24	15.0	16.75	6.13	2.25	27.75
TXT12	TDT12	272330	15, 25	15.0	16.75	5.88	3.25	46.75
TDT13	TDT13	272331	25	20.0	18.50	5.68	3.94	49.75
TDT14	TDT14	272332	25	20.0	18.50	8.63	2.81	52.88
TDT15	TDT15	272333	30	23.0	18.50	9.50	2.00	60.63

♣ MADE TO ORDER

REDUCER HEAT EXCHANGER COOLING PACKAGE

For thermal capacities beyond the range of cooling fans, an optional heat exchanger 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 motor are as follows: 1/2 hp, 60 Hz, 3Ph. 230/460 Volt, TEFC, 56 Frame. Minimum coolant (water) flow is 3 G.P.M. based upon a maximum water temperature of 80°F. Minimum oil temperature for operation is 60°F.

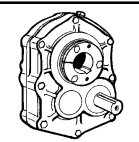


Part Number

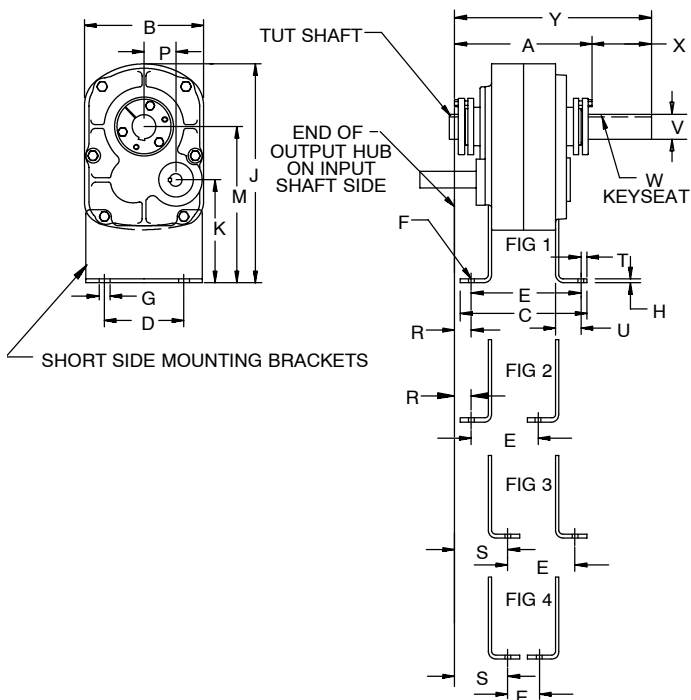
014148 ♣

♣ Made to order

SELECTION PAGES G1-12-G1-25	DIMENSIONS PAGES G1-26-G1-67	RELATED PRODUCTS PAGES G1-144-G1-184	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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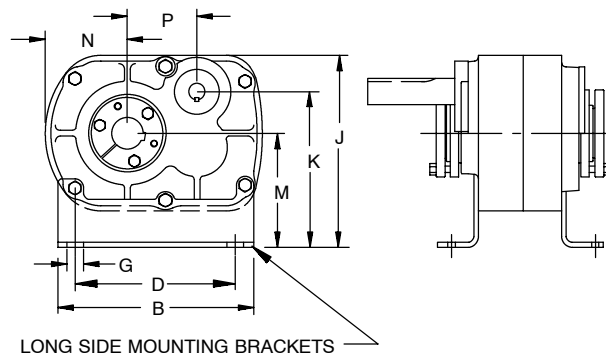
TORQUE-ARM Shaft Mount Speed Reducers



MOUNTING BRACKETS AND OUTPUT SHAFTS FOR TORQUE-ARM REDUCERS

Long Side and Short Side Mounting Brackets permit floor mounting of both single and double reduction TXT or SCXT reducers. Brackets for larger size reducers are available; consult DODGE with application information.

TUT Output Shafts are designed for use with TORQUE-ARM reducers which are floor mounted with either Long Side or Short Side Mounting Brackets. The shafts may be used to mount sprockets, v-drives or pinion drives, and may be extended from either the input or backstop side of the reducer. See Engineering/Technical section of this catalog for Overhung Load ratings.



TUT OUTPUT SHAFTS FOR TORQUE-ARM REDUCERS

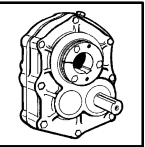
Size No.	Part No.	Wt.	Reducer Size	Nominal Ratio	A	V. Diam.	W Keyseat	X	Y	Bushing Required
TUT1	241014	40	TXT1	5, 9, 15, 25	7-1/16	1-7/16	3/8 x 3/16	3-1/16	10-1/16	TXT1 x 1-7/16
			TXT2	5, 9, 15, 25	7-5/16			2-7/8	10-3/16	TXT2 x 1-7/16
TUT2	242014	8.9	TXT2	5, 9, 15, 25	7-5/16	1-15/16	1/2 x 1/4	4-15/16	12-1/4	TXT2 x 1-15/16
			TXT3	5, 9, 15, 25	9-1/8			2-13/16	12-9/32	TXT3 x 1-15/16
TUT3	243014	13	TXT3	5, 9, 15, 25	9-1/8	2-3/16	1/2 x 1/4	4-5/8	14-3/32	TXT3 x 2-3/16
			TXT4	5, 9, 15, 25	10			3-3/4	14-1/8	TXT4 x 2-3/16
TUT4	244014	17	TXT4	5, 9, 15, 25	10	2-7/16	5/8 x 5/16	4-13/16	15-3/16	TXT4 x 2-7/16
			TXT5	5, 9, 15, 25	10-1/2			4-5/16	15-7/32	TXT5 x 2-7/16
TUT5	245014	28	TXT5	5, 9, 15, 25	10-1/2	2-15/16	3/4 x 3/8	5-11/16	16-19/32	TXT5 x 2-15/16
			TXT6	5, 9, 15, 25	11-1/2			5-1/16	16-9/16	TXT6 x 2-15/16
TUT6	246014	44	TXT6	5, 9, 15, 25	11-1/2	3-7/16	7/8 x 7/16	7-9/16	19	TXT6 x 3-7/16
			TXT7	5, 9, 15, 25	12-13/16			6-9/32	19-3/32	TXT7 x 3-7/16

◆ Key is furnished with output shaft.

♥ See pages 26 thru 67 for bushing information.

SELECTION PAGES G1-12-G1-25	DIMENSIONS PAGES G1-26-G1-67	RELATED PRODUCTS PAGES G1-144-G1-184	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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MODIFICATIONS/ ACCESSORIES



TORQUE-ARM Shaft Mount Speed Reducers

LONG AND SHORT SIDE MOUNTING BRACKETS FOR TORQUE-ARM REDUCERS

Bracket No.		Reducer Size †	Nominal Ratio	Part Number ★		Wt.	A	B	C	D	E			F Bolt
Long Side	Short Side			Long Side	Short Side						Fig. 1	Fig. 2 & 3	Fig. 4	
TAL1	.....	TXT1	5, 9, 15, 25	241412	.....	3.5	7-1/16	9-15/16	6-15/32	6	5-7/32	3-9/16	1-29/32	3/8
.....	TAS1			.....	241410	2.9		7-1/8						
TAL2	.....	TXT2	5, 9, 15, 25	242412	.....	3.8	7-5/16	11-13/32	6-15/32	7-1/2	5-7/32	3-9/16	1-29/32	3/8
.....	TAS2			.....	242410	4.2		8-3/8♥						
TAL3	.....	TXT3	5, 9, 15, 25	243412	.....	5.8	9-1/8	12-7/8	7-31/32	8-3/4	6-15/32	4-7/16	2-13/32	7/16
.....	TAS3			.....	243410	4.9		9-1/4						
TAL4	.....	TXT4	5, 9, 15, 25	244412	.....	9.2	10	15-1/8	8-15/32	11	6-31/32	4-7/8	2-25/32	7/16
.....	TAS4			.....	244410	7.9		10-3/8						
TAL5	.....	TXT5	5, 9, 15, 25	245412	.....	12	10-1/2	18-5/16	8-23/32	13-1/2	6-31/32	4-7/16	1-29/32	1/2
.....	TAS5			.....	245410	15		13-1/8						
TAL6	.....	TXT6	5, 9, 15, 25	246412	.....	16	11-1/2	21-5/16	10-7/32	16-1/2	8-15/32	4-13/16	▲	1/2
.....	TAS6			.....	246410	18		15-1/8						
TAL7	.....	TXT7	5, 9, 15, 25	247412	.....	27	12-13/16	25-15/16	10-23/32	21-1/2	8-15/32	5-1/8	▲	3/4
.....	TAS7			.....	247410	30		18-3/4						

Bracket No.		G	H	J	K		M	N	P		Q	R	S	T	U
Long Side	Short Side				9, 15, 25:1	5:1			9, 15, 25:1	5:1					
TAL1	.....	2-9/16	3/16	8-11/16	7-1/32	.....	5-1/8	3-3/4	3-3/16	3-1/4	1-25/32	59/64	2-37/64	5/8	59/64
.....	TAS1	1-1/8		11-57/64	4-61/64	4-7/8	8-9/64	.....	1-29/32	.....	.....				
TAL2	.....	2-9/16	3/16	9-7/16◆	7-3/8	.....	5-1/4	4-3/32*※	3-3/4	3-7/8	2-9/64	1-3/64	2-45/64	5/8	59/64
.....	TAS2	.....		13-11/16※	5-27/32	5-23/32	9-19/32	.....	2-1/8	.....	.....				
TAL3	.....	2-3/4	3/16	11-7/32	8-29/32	.....	6-19/32	4-13/16	4-3/16	4-1/4	2-5/32	1-5/32	3-39/64	3/4	1-7/64
.....	TAS3	.....		15-1/8	6-7/64	6	10-9/32	.....	2-5/16	.....	.....				
TAL4	.....	2-3/4	1/4	12-11/32	9-29/32	.....	7-5/32	5-1/2	4-25/32	4-7/8	3-7/16	1-37/64	4-31/64	3/4	1-11/64
.....	TAS4	.....		17-3/16	6-29/32	6-7/8	11-11/16	.....	2-3/4	.....	.....				
TAL5	.....	3-1/2	5/16	14-1/4	10-3/4	.....	7-11/16	6-9/16	5-11/16	5-7/8	4-5/32	1-53/64	4-43/64	7/8	1-27/64
.....	TAS5	.....		20-5/16	8-5/64	7-7/8	13-3/4	.....	3-1/16	.....	.....				
TAL6	.....	3-1/2	5/16	16-1/8	12-11/16	.....	8-9/16	7-9/16	6-3/4	6-57/64	5-5/32	1-9/16	5-7/32	7/8	1-63/64
.....	TAS6	.....		23-5/16	9-1/64	8-55/64	15-3/4	.....	4-1/8	.....	.....				
TAL7	.....	3-1/16	3/8	20-13/16	16-9/16	.....	11-7/16	9-3/8	8-5/16	8-5/16	7-5/32	2-15/64	5-37/64	1-1/8	1-55/64
.....	TAS7	.....		27-7/8	10-13/64	10-3/16	18-1/2	.....	5-1/8	.....	.....				

★ Includes two steel feet and necessary mounting hardware. Short style feet are symmetrical. Long style feet are stocked as one right and one left hand, unless otherwise specified (Fig. 1). If Fig. 2 is required, specify two left-hand feet. If Fig. 3 is required, specify two right-hand feet.

† Will fit equivalent size of Screw Conveyor Drive reducer.

▲ Cannot be mounted as shown in Fig. 4.

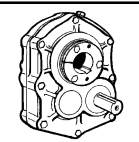
♥ 8-1/2" on TXT205.

◆ 9-1/2" on TXT205.

※ 13-23/32" on TXT205.

※※ 4-1/8" on TXT205.

SELECTION PAGES G1-12-G1-25	DIMENSIONS PAGES G1-26-G1-67	RELATED PRODUCTS PAGES G1-144-G1-184	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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TORQUE-ARM Shaft Mount Speed Reducers

Modifications/Assembly ■

1. TXT REDUCER DRILLED AND TAPPED FOR FLANGE MOUNTING
2. TXT & HXT REDUCER DRILLED FOR VERTICAL SHAFT MOUNTING ★
3. TXT TAPER BUSHED REDUCER WITH AUXILIARY SEAL KIT INSTALLED
4. SCXT REDUCER WITH AUXILIARY SEAL KIT INSTALLED
5. TXT & SCXT REDUCER WITH COOLING FAN INSTALLED
6. TXT REDUCER WITH BACKSTOP INSTALLED (SPECIFY DIRECTION OF ROTATION)
7. TXT, SCXT REDUCER AND ACCESSORIES PACKAGED FOR SHIPMENT ON ONE PALLET
8. TXT, SCXT REDUCER, ACCESSORIES AND/OR RELIANCE MOTOR PREASSEMBLED FOR SHIPMENT.
9. SCXT REDUCER, DRIVE SHAFT AND ADAPTER ASSEMBLED.
10. TXT, SCXT, HXT REDUCER WITH SPECIAL BEARING ADJUSTMENT.
11. TXT, SCXT REDUCER PREPARED FOR LONG-TERM STORAGE—SEE PAGE G1-196
12. SIGHT GAUGE, INSTALLED IN REDUCER

■ SEE MLP BOOK FOR LIST PRICE ADDERS AND CYCLE TIME.

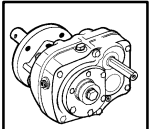
★ ALL SCXT REDUCERS ARE AVAILABLE FROM STOCK FOR VERTICAL MOUNTING; NO MODIFICATION REQUIRED.

TORQUE-ARM REDUCER OPTIONS

SEE RELATED PRODUCTS SECTION FOR
OPTIONAL REDUCER MODIFICATIONS AND ACCESSORIES:

XT HARSH DUTY	SMART PRODUCTS
Reducer Paint Options Teflon Coated Tapered Bushings Zinc Plated Fasteners Sight Oil Level Gauge TXT1-10 Seal/Safety End Covers TXT4-12 Oil Filter Kit TXT5-10 XT Harsh Duty Oil Seals XT Enclosed Breather System	Oil Sump Heaters Temperature Sensors Hour Meter Speed Sensor Accelerometer

SELECTION PAGES G1-12-G1-25	DIMENSIONS PAGES G1-26-G1-67	RELATED PRODUCTS PAGES G1-144-G1-184	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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Screw Conveyor Shaft Mount Speed Reducers

EASY SELECTION METHOD (for Electric Motors)

When to Use Easy Selection

The Easy Selection tables for Shaft Mount reducers are for electric motor selections up to 75 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 power source other than an electric motor; or for extreme ambient temperatures, or oversized equipment, consult DODGE Application Engineering, (864) 288-9050.

How to Select

Step 1: Determine Class of Service—See Table 1, page G1-15 to determine Load Classification for applications under normal conditions. Find the type application and duty cycle that most closely matches your specific application.

Class I 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 I 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 II 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 II 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 III Moderate shock loads for over 10 hours a day. Heavy shock loads are allowable during 10 hours a day.

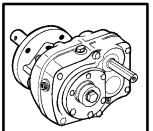
For Class III applications, the maximum value of starting and momentary peak loads should not exceed 4 x Motor HP rating. If it exceeds this amount it should be divided by 4 and the result used in the selection table instead of the Motor HP rating.

Step 2: Determine Reducer Size—See the Easy Selection Tables, pages G1-84 thru G1-89. From Selection Table I, II or III read the reducer size for the application horsepower and output speed. **Note:** For applications where fan cooling is unacceptable use the Easy Selection tables with an increased Class number. Where more than one reducer selection is listed, the most economical ratio is generally listed first. See page G1-194 for maximum input and output speeds, overhung load ratings and WR^2 ratings.

Step 3: Check Dimensions—See Selection/Dimensions sections, pages G1-90 thru G1-117 for reducer dimensions, weights and part numbers. See Engineering/Technical section, page G1-189 and G1-201 for reducer mounting positions.

Step 4: Select Screw Conveyor Drive Shaft and Adapter to fit screw diameter—See Selection/Dimensions section, pages G1-90 thru G1-117 for compatibility of screw diameter, drive shaft diameter and adapter.

NOMENCLATURE PAGES G1-10-G1-11	DIMENSIONS PAGES G1-90-G1-117	MODIFICATIONS/ACCESSORIES PAGES G1-120-G1-126	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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Screw Conveyor Shaft Mount Speed Reducers

Step 5: Select a Belt Drive Arrangement—From the Sheave Ratio table, page G1-169, or the preselected 1750 RPM Motor V-drive tables, pages G1-171 thru G1-175 select the required sheave ratio for the belt drive. Select the belt drive so that the sheave mounted on the reducer shaft is not smaller than the minimum sheave diameter shown in Table 19, page G1-168. **Note:** Mount the sheave as close as possible to the reducer to minimize the effect of overhung load on the reducer.

Step 6: Select Accessories—See Modifications/Accessories section, pages G1-120 thru G1-126, for description, dimensions, weights, and part numbers for accessories available for the Screw Conveyor Drive reducer selected:

- Motor Mounts
- Belt Guards
- Cooling Fans
- Auxiliary Seal Kits
- Alternative drive shaft styles
- Filter Breathers

Note: Screw Conveyor Drive reducers are shipped without oil. Screw Conveyor Drive reducers are suitable from stock for vertical or incline mounting, no modification required.

EXAMPLE: Easy Selection Method—SCXT Screw Conveyor Drive Reducers

A 5 HP 1750 RPM motor is used to drive a heavy duty screw conveyor that runs 10 hours per day in a local feed mill, conveying grain. User needs a replacement reducer drive for a CEMA standard screw conveyor with a 12" diameter screw and 2-7/16" diameter drive shaft. Conveyor speed is 72 RPM.

Step 1: Determine Class of Service—From Table 1, locate "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 Table 10, Class II Selection, page G1-86, find the column for 5 HP and read down to 72 RPM. An SCXT225 reducer is the correct selection. Check maximum input and output speed, overhung load, and WR^2 requirements with reducer ratings on page G1-194.

Step 3: Check Dimensions—See Selection/Dimensions section, page 95, for reducer dimensions, weights, part numbers and other pertinent drive dimensions. See Engineering/Technical section, page G1-189 and G1-201 for information on mounting positions.

Step 4: Select Screw Conveyor Drive Shaft and Adapter to fit screw diameter—See Selection/Dimensions section, page 95. Here we verify that a 2-7/16" diameter drive shaft is compatible with 12" diameter screw. From this same page, select a C2B adapter with fits the 2-7/16" CEMA standard screw conveyor drive shaft, as well as the 2" and 3" drive shafts.

Step 5: Select a Belt Drive Arrangement—From the Sheave Ratio table, page 158, or the Preselected 1750 RPM Motor V-Drive table for SCXT225 reducers, page G1-172, select a V-drive ratio for the conveyor speed of 72 RPM. With this information, select a belt drive that meets your customer's needs—i.e. belt style preference, service factor requirements, Taper Lock or QD mounting, etc. Sheave diameter must not be less than minimum diameters shown in Table 19, page G1-168.

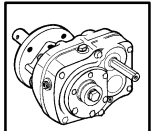
Step 6: Select Accessories—See Selection/Dimensions page 95 and Modifications/Accessories pages G1-120 thru G1-126 to pick out accessories for this application:

M214 Motor Mount—to mount motor to side of SCXT225 reducer.

SCXT2D Expanded Metal Belt Guard—to cover and protect the rotating belt drive.

NOMENCLATURE PAGES G1-10-G1-11	DIMENSIONS PAGES G1-90-G1-117	MODIFICATIONS/ACCESSORIES PAGES G1-120-G1-126	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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EASY SELECTION



Screw Conveyor Shaft Mount Speed Reducers

SELECTION GUIDE: SCXT SCREW CONVEYOR DRIVE REDUCERS

This Is A Handy Reference Sheet For Quick Selection And Specification Of DODGE Screw Conveyor Drive Reducers. Use It To Identify Information Needed To Make An Accurate Selection With A Step-By-Step Selection Format For Choosing Reducer, Accessories And V-drive.

Use This Page To Make Your Own Selections, Or Send This Form, With Application Data, To DODGE For Assistance. **You May Make Copies For Future Use.**

Name _____ Company Name _____
Phone No. _____ Fax No. _____

Application Data:

Type Of Driven Equipment _____
Hours Of Service Per Day _____ Class Of Service _____
Type Of Load: Uniform _____ Moderate _____ Shock _____
Motor Type: HP _____ RPM _____ Frame Size _____ Shaft Size _____
Screw Conveyor RPM _____ Screw Diameter _____
Drive Shaft Diameter And Type _____
Adapter Type _____
Unusual Ambient Temperature _____
Other Pertinent Application Characteristics (ie - Dusty Environment, Reversing Duty, Start/Stop Cycles, Etc.) _____

Reducer Drive Selection:

Step 1 - Determine Class Of Service _____

Step 2 - From Appropriate Service Class Table, Select Reducer Size And Ratio That Meets

Application Hp And Driven Rpm Requirements: _____

Step 3 - Select Drive Shaft With Diameter To Fit Screw Size _____

Determine Type Of Drive Shaft Needed: Standard _____ Stainless Steel _____

3-hole Standard _____ 3-hole Stainless _____ Short Series _____

Step 4 - Select Adapter: 'C' Standard _____
'AC' Adjustable Packing Gland _____

Step 5 - Select Accessories Required For Application:

Motor Mount: Standard _____ Long _____

Belt Guard: Standard _____ Long _____

Cooling Fan _____ Auxiliary Seal Kit _____ Filter Breather _____

Other _____

V-belt Drive Specification:

Service Factor _____ V-belt Drive Ratio Needed _____

Belt Center Distance _____ Type Of Belt Desired _____

Driver: Shaft Diameter _____ Driven: Shaft Diameter _____

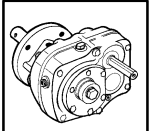
Sheave _____ Sheave _____

Bushing _____ Bushing _____

Belts: Size _____ Quantity _____

SELECTION PAGES G1-81-G1-82	DIMENSIONS PAGES G1-90-G1-117	MODIFICATIONS/ACCESSORIES PAGES G1-120-G1-126	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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EASY SELECTION



Screw Conveyor Shaft Mount Speed Reducers

TABLE 9 — CLASS I SELECTION TABLE SCXT REDUCERS (CONT'D) ★

HP	OUTPUT RPM	REDUCER SELECTION	
		SINGLE	DOUBLE
10	6-8		SCXT825
	9-12		SCXT725
	13-20		SCXT625
	21-36		SCXT525B SCXT515B
	37-56		SCXT425A SCXT415A
	57-70		SCXT325A SCXT315A
	71-85		SCXT315A SCXT325A
	86-103		SCXT315A SCXT309A
	104-115		SCXT215 SCXT209
	116-140	SCXT305A	SCXT215
	141-158	SCXT305A	SCXT309A
	159-200	SCXT305A	SCXT309A
	201-400	SCXT205	
15	9-13		SCXT825
	14-19		SCXT725
	20-32		SCXT625 SCXT615
	33-56		SCXT525B SCXT515B
	57-70		SCXT425A SCXT415A
	71-85		SCXT415A SCXT425A
	86-93		SCXT415A SCXT409A
	94-115		SCXT309A+ SCXT315A
	116-140	SCXT405A	SCXT315A SCXT309A+
	141-145	SCXT405A	SCXT309A+
	146-200	SCXT305A	SCXT309A+
	201-400	SCXT305A	
20	13-18		SCXT825
	19-26		SCXT725 SCXT715
	27-45		SCXT625 SCXT615
	46-70		SCXT525B SCXT515B
	71-78		SCXT515B SCXT525B
	79-85		SCXT415A SCXT425A
	86-115		SCXT415A SCXT409A+
	116-140	SCXT405A	SCXT409A+ SCXT415A+
	141-200	SCXT405A	SCXT309A+
	201-241	SCXT405A	
	242-400	SCXT305A+	
25	16-23		SCXT825
	24-33		SCXT725 SCXT715
	34-59		SCXT625 SCXT615
	60-70		SCXT525B+ SCXT515B+
	71-80		SCXT515B+ SCXT525B+
	81-101		SCXT515B+ SCXT509B+
	102-132	SCXT505A	SCXT415A+ SCXT409A+
	133-140	SCXT505A	SCXT409A+ SCXT415A+
	141-163	SCXT505A	SCXT409A+
	164-200	SCXT405A+	SCXT409A+
	201-400	SCXT405A+	

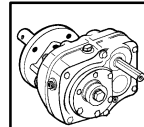
HP	OUTPUT RPM	REDUCER SELECTION	
		SINGLE	DOUBLE
30	20-28		SCXT825 SCXT815
	29-41		SCXT725 SCXT715
	42-70		SCXT625 SCXT615
	71-75		SCXT615 SCXT625
	76-115		SCXT515B+ SCXT509B+
	116-125	SCXT605	SCXT509B+ SCXT515B+
	126-131	SCXT605	SCXT409A+
	132-200	SCXT505A	SCXT409A+
	201-215	SCXT505A+	
	216-400	SCXT405A+	
40	26-38		SCXT825 SCXT815
	39-57		SCXT725 SCXT715
	58-70		SCXT625 SCXT615
	71-81		SCXT615+ SCXT625+
	82-114	SCXT605	SCXT615+ SCXT609+
	115-125	SCXT605	SCXT515B+ SCXT509B+
	126-200	SCXT605	SCXT509B+
	201-241	SCXT605	
50	242-400	SCXT505A+	
	33-49		SCXT825 SCXT815
	50-70		SCXT725 SCXT715
	71-74		SCXT715 SCXT725
	75-125		SCXT615+ SCXT709+
	126-163	SCXT605+	SCXT709+
	164-200	SCXT605+	SCXT609+
	201-400	SCXT605+	
60	40-60		SCXT825 SCXT815
	61-70		SCXT725+ SCXT715+
	71-120		SCXT715+ SCXT709+
	121-131	SCXT705	SCXT709+
	132-200	SCXT605+	SCXT709+
	201-400	SCXT605+	
75	51-70		SCXT825 SCXT815
	71-78		SCXT815+
	79-120		SCXT715+ SCXT709+
	121-200	SCXT705	SCXT709+
	201-210	SCXT705	
	211-400	SCXT605+	

★ See page G1-189 for lubrication for 15 RPM and slower.

+ Fan cooling required — see page G1-77.

NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-81-G1-82	DIMENSIONS PAGES G1-90-G1-117	MODIFICATIONS/ACCESSORIES PAGES G1-120-G1-126
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EASY SELECTION



Screw Conveyor Shaft Mount Speed Reducers

TABLE 10 — CLASS II SELECTION TABLE SCXT REDUCERS ★

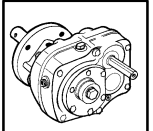
HP	OUTPUT RPM	REDUCER SELECTION	
		SINGLE	DOUBLE
1/4	5-70		SCXT125 SCXT115
	71-85		SCXT115 SCXT125
	86-115		SCXT115 SCXT109
	116-140	SCXT105	SCXT109 SCXT115
	141-200	SCXT105	SCXT109
	201-400	SCXT105	
1/3	4-6		SCXT225
	7-70		SCXT125 SCXT115
	71-85		SCXT115 SCXT125
	86-115		SCXT115 SCXT109
	116-140	SCXT105	SCXT109 SCXT115
	141-200	SCXT105	SCXT109
	201-400	SCXT105	
1/2	4-5		SCXT325A
	6-9		SCXT225
	10-70		SCXT125 SCXT115
	71-85		SCXT115 SCXT125
	86-115		SCXT115 SCXT109
	116-140	SCXT105	SCXT109 SCXT115
	141-200	SCXT105	SCXT109
	201-400	SCXT105	
3/4	4-5		SCXT425A
	6-8		SCXT325A
	9-16		SCXT225
	17-70		SCXT125 SCXT115
	71-85		SCXT115 SCXT125
	86-115		SCXT115 SCXT109
	116-140	SCXT105	SCXT109 SCXT115
	141-200	SCXT105	SCXT109
	201-400	SCXT105	
1	5-7		SCXT425A
	8-11		SCXT325A
	12-22		SCXT225
	23-70		SCXT125 SCXT115
	71-85		SCXT115 SCXT125
	86-115		SCXT115 SCXT109
	116-140	SCXT105	SCXT109 SCXT115
	141-200	SCXT105	SCXT109
	201-400	SCXT105	
1-1/2	5-6		SCXT525B
	7-11		SCXT425A
	12-18		SCXT325A
	19-34		SCXT225 SCXT215
	35-70		SCXT125 SCXT115
	71-85		SCXT115 SCXT125
	86-115		SCXT115 SCXT109
	116-140	SCXT105	SCXT109 SCXT115
	141-200	SCXT105	SCXT109
	201-400	SCXT105	

HP	OUTPUT RPM	REDUCER SELECTION	
		SINGLE	DOUBLE
2	4-5		SCXT625
	6-9		SCXT525B
	10-14		SCXT425A
	15-24		SCXT325A SCXT315A
	25-47		SCXT225 SCXT215
	48-70		SCXT125 SCXT115
	71-85		SCXT115 SCXT125
	86-115		SCXT115 SCXT109
	116-140	SCXT105	SCXT109 SCXT115
	141-200	SCXT105	SCXT109
3	4-5		SCXT725
	6-8		SCXT625
	9-14		SCXT525B
	15-22		SCXT425A SCXT415A
	23-38		SCXT325A SCXT315A
	39-70		SCXT225 SCXT215
	71-75		SCXT215 SCXT225
	76-85		SCXT115 SCXT125
	86-115		SCXT115 SCXT109
	116-140	SCXT105	SCXT109 SCXT115
5	4-6		SCXT825
	7-8		SCXT725
	9-14		SCXT625
	15-24		SCXT525B
	25-37		SCXT425A SCXT415A
	38-69		SCXT325A SCXT315A
	70-85		SCXT215 SCXT225
	86-89		SCXT215 SCXT209
	90-136	SCXT205	SCXT209 SCXT215
	137-140	SCXT205	SCXT115 SCXT209
7-1/2	4-6		SCXT825
	7-8		SCXT725
	9-14		SCXT625
	15-24		SCXT525B SCXT515B
	25-37		SCXT425A SCXT415A
	38-69		SCXT325A SCXT315A
	70-85		SCXT215 SCXT225
	86-89		SCXT215 SCXT209
	90-136	SCXT205	SCXT209 SCXT215
	137-140	SCXT205	SCXT115 SCXT209

★ See page G1-189 for lubrication for 15 RPM and slower.

NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-81-G1-82	DIMENSIONS PAGES G1-90-G1-117	MODIFICATIONS/ACCESSORIES PAGES G1-120-G1-126
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EASY SELECTION



Screw Conveyor Shaft Mount Speed Reducers

TABLE 10 — CLASS II SELECTION TABLE SCXT REDUCERS (CONT'D) ★

HP	OUTPUT RPM	REDUCER SELECTION	
		SINGLE	DOUBLE
7-1/2	123-140	SCXT305A	SCXT209 SCXT215
	141-183	SCXT305A	SCXT209
	184-200	SCXT205	SCXT209
	201-400	SCXT205	
10	8-12		SCXT825
	13-18		SCXT725
	19-29		SCXT625 SCXT615
	30-52		SCXT525B SCXT515B
	53-70		SCXT425A SCXT415A
	71-84		SCXT415A SCXT425A
	85-130		SCXT315A SCXT309A
	131-140	SCXT305A	SCXT315A SCXT309A
	141-200	SCXT305A	SCXT309A
	201-353	SCXT305A	
15	354-400	SCXT205	
	13-19		SCXT825
	20-27		SCXT725
	28-47		SCXT625 SCXT615
	48-70		SCXT525B SCXT515B
	71-82		SCXT515B SCXT525B
	83-117		SCXT415A SCXT409A
	118-140	SCXT405A	SCXT409A SCXT415A
	141-150	SCXT405A	SCXT409A
	151-200	SCXT405A	SCXT309A+
20	201-269	SCXT405A	
	270-400	SCXT305A	
	18-26		SCXT825
	27-38		SCXT725 SCXT715
	39-68		SCXT625 SCXT615
	69-80		SCXT515B SCXT525B
	81-89		SCXT515B
	90-117		SCXT515B+ SCXT509B+
	118-125	SCXT505A	SCXT409A+ SCXT415A+
	126-200	SCXT505A	SCXT409A+
25	201-400	SCXT405A+	
	23-33		SCXT825 SCXT815
	34-49		SCXT725 SCXT715
	50-80		SCXT615 SCXT625
	81-94		SCXT615 SCXT609
	95-125	SCXT605	SCXT509B+ SCXT515B+
	126-174	SCXT605	SCXT509B+
	175-200	SCXT505A	SCXT409A+
	201-270	SCXT505A	
	271-400	SCXT405A+	

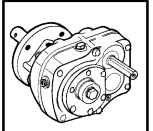
HP	OUTPUT RPM	REDUCER SELECTION	
		SINGLE	DOUBLE
30	28-41		SCXT825 SCXT815
	42-60		SCXT725 SCXT715
	61-76		SCXT625 SCXT615
	77-89		SCXT615 SCXT609
	90-125	SCXT605	SCXT615+ SCXT609+
	126-200	SCXT605	SCXT509B+
	201-233	SCXT605	
	234-349	SCXT505A+	
40	350-400	SCXT405A+	
	37-56		SCXT825 SCXT815
	57-75		SCXT725 SCXT715
	76-88		SCXT715
	89-114		SCXT615+ SCXT609+
	115-120		SCXT615+ SCXT609+
	121-200	SCXT605	SCXT609+
	201-347	SCXT605+	
50	348-400	SCXT505A+	
	47-70		SCXT825 SCXT815
	71-72		SCXT815 SCXT825
	73-95		SCXT715+
	96-110	SCXT705	SCXT709 SCXT715+
	111-120	SCXT705	SCXT709+ SCXT715+
	121-179	SCXT705	SCXT709+
	180-200	SCXT605	SCXT609+
60	201-400	SCXT605+	
	57-70		SCXT825 SCXT815
	71-75		SCXT815 SCXT825
	76-89		SCXT815
	90-120	SCXT705	SCXT715+ SCXT709+
	121-200	SCXT705	SCXT709+
	201-285	SCXT705	
	286-400	SCXT605+	
75	74-75		SCXT815 SCXT825
	76-120		SCXT815+
	121-133		SCXT709+
	134-200	SCXT705	SCXT709+
	201-400	SCXT705	

★ See page G1-189 for lubrication for 15 RPM and slower.

+ Fan cooling required — see page G1-77.

NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-81-G1-82	DIMENSIONS PAGES G1-90-G1-117	MODIFICATIONS/ACCESSORIES PAGES G1-120-G1-126
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EASY SELECTION



Screw Conveyor Shaft Mount Speed Reducers

TABLE 11 — CLASS III SELECTION TABLE SCXT REDUCERS ★

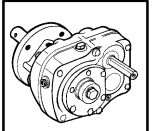
HP	OUTPUT RPM	REDUCER SELECTION	
		SINGLE	DOUBLE
1/4	4-6		SCXT225
	7-70		SCXT125 SCXT115
	71-85		SCXT115 SCXT125
	86-89		SCXT115 SCXT109
	90-115		SCXT115 SCXT109
	116-140	SCXT105	SCXT109 SCXT115
	141-200	SCXT105	SCXT109
	201-400	SCXT105	
1/3	5-9		SCXT225
	10-70		SCXT125 SCXT115
	71-85		SCXT115 SCXT125
	86-115		SCXT115 SCXT109
	116-140	SCXT105	SCXT109 SCXT115
	141-200	SCXT105	SCXT109
	201-400	SCXT105	
1/2	4-5		SCXT425A
	6-7		SCXT325A
	8-15		SCXT225
	16-70		SCXT125 SCXT115
	71-85		SCXT115 SCXT125
	86-115		SCXT115 SCXT109
	116-140	SCXT105	SCXT109 SCXT115
	141-200	SCXT105	SCXT109
	201-400	SCXT105	
3/4	4		SCXT525B
	5-7		SCXT425A
	8-12		SCXT325A
	13-23		SCXT225
	24-70		SCXT125 SCXT115
	71-85		SCXT115 SCXT125
	86-115		SCXT115 SCXT109
	116-140	SCXT105	SCXT109 SCXT115
	141-200	SCXT105	SCXT109
	201-400	SCXT105	
1	4-6		SCXT525B
	7-10		SCXT425A
	11-17		SCXT325A
	18-32		SCXT225
	33-70		SCXT125 SCXT115
	71-85		SCXT115 SCXT125
	86-115		SCXT115 SCXT109
	116-140	SCXT105	SCXT109 SCXT115
	141-200	SCXT105	SCXT109
	201-400	SCXT105	
1-1/2	4-5		SCXT625
	6-10		SCXT525B

HP	OUTPUT RPM	REDUCER SELECTION	
		SINGLE	DOUBLE
1-1/2	11-15		SCXT425A
	16-26		SCXT325A
	27-51		SCXT225 SCXT215
	52-70		SCXT125 SCXT115
	71-85		SCXT115 SCXT125
	86-115		SCXT115 SCXT109
	116-140	SCXT105	SCXT109 SCXT115
	141-200	SCXT105	SCXT109
	201-400	SCXT105	
2	5-7		SCXT625
	8-13		SCXT525B
	14-21		SCXT425A
	22-36		SCXT325A SCXT315A
	37-71		SCXT225 SCXT215
	72-85		SCXT115 SCXT125
	86-115		SCXT115 SCXT109
	116-140	SCXT105	SCXT109 SCXT115
	141-200	SCXT105	SCXT109
	201-400	SCXT105	
3	4-5		SCXT825
	6-7		SCXT725
	8-12		SCXT625
	13-20		SCXT525B
	21-32		SCXT425A SCXT415A
	33-57		SCXT325A SCXT315A
	58-70		SCXT225 SCXT215
	71-85		SCXT215 SCXT225
	86-89		SCXT215 SCXT209
	90-113	SCXT205	SCXT215 SCXT209
	114-140	SCXT205	SCXT109 SCXT115
	141-155	SCXT205	SCXT109
	156-200	SCXT105	SCXT109
	201-400	SCXT105	
5	6-8		SCXT825
	9-12		SCXT725
	13-20		SCXT625
	21-36		SCXT525B SCXT515B
	37-56		SCXT425A SCXT415A
	57-70		SCXT325A SCXT315A
	71-85		SCXT315A SCXT325A
	86-103		SCXT315A SCXT309A
	104-114	SCXT305A	SCXT215 SCXT309A
	115-140	SCXT305A	SCXT209 SCXT215
	141-167	SCXT305A	SCXT209
	168-200	SCXT205	SCXT209
	201-400	SCXT205	

★ See page G1-189 for lubrication for 15 RPM and slower.

NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-81-G1-82	DIMENSIONS PAGES G1-90-G1-117	MODIFICATIONS/ACCESSORIES PAGES G1-120-G1-126
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EASY SELECTION



Screw Conveyor Shaft Mount Speed Reducers

TABLE 11 — CLASS III SELECTION TABLE SCXT REDUCERS (CONT'D) ★

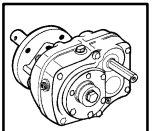
HP	OUTPUT RPM	REDUCER SELECTION	
		SINGLE	DOUBLE
7-1/2	9-13		SCXT825
	14-19		SCXT725
	20-32		SCXT625 SCXT615
	33-56		SCXT525B SCXT515B
	57-70		SCXT425A SCXT415A
	71-85		SCXT415A SCXT425A
	86-93		SCXT415A SCXT409A
	94-140	SCXT405A	SCXT309A SCXT315A
	141-144	SCXT405A	SCXT309A
	145-200	SCXT305A	SCXT309A
	201-400	SCXT305A	
10	13-18		SCXT825
	19-26		SCXT725 SCXT715
	27-45		SCXT625 SCXT615
	46-70		SCXT525B SCXT515B
	71-78		SCXT515B SCXT525B
	79-92		SCXT415A
	93-105		SCXT415A SCXT409A
	106-141	SCXT405A	SCXT409A SCXT415A
	142-200	SCXT405A	SCXT309A
	201-241	SCXT405A	
	242-400	SCXT305A	
15	20-28		SCXT825 SCXT815
	29-41		SCXT725 SCXT715
	42-70		SCXT625 SCXT615
	71-75		SCXT615 SCXT625
	76-93		SCXT515B
	94-115		SCXT515B SCXT509B
	116-125	SCXT605	SCXT509B SCXT515B
	126-131	SCXT605	SCXT509B
	132-200	SCXT505A	SCXT409A
	201-215	SCXT505A	
	216-400	SCXT405A	
20	26-38		SCXT825 SCXT815
	39-57		SCXT725 SCXT715
	58-70		SCXT625 SCXT615
	71-114		SCXT615 SCXT609
	115-125	SCXT605	SCXT509B+ SCXT515B+
	126-200	SCXT605	SCXT509B+
	201-218	SCXT605	
	219-324	SCXT505A	
25	325-400	SCXT405A+	
	33-49		SCXT825 SCXT815
	50-70		SCXT725 SCXT715
	71-74		SCXT715 SCXT725
	75-104		SCXT615 SCXT609
	105-113		SCXT615+ SCXT609
	114-125	SCXT605	SCXT615+ SCXT609+
	126-200	SCXT605	SCXT609+
30	201-381	SCXT605	
	382-400	SCXT505A+	
40	54-70		SCXT825 SCXT815
	71-84		SCXT815
	85-89		SCXT715 SCXT709
	90-120	SCXT705	SCXT715+ SCXT709
	121-200	SCXT705	SCXT709+
	201-249	SCXT705	
50	250-400	SCXT605+	
	70-75		SCXT815 SCXT825
	76-110		SCXT815
	111-120		SCXT715+ SCXT709+
	121-123		SCXT709+
	124-200	SCXT705	SCXT709+
60	201-400	SCXT705	
	86-120		SCXT815
	142-161		SCXT709+
	162-200	SCXT705	SCXT709+

★ See page G1-189 for lubrication for 15 RPM and slower.

+ Fan cooling required — see page G1-77.

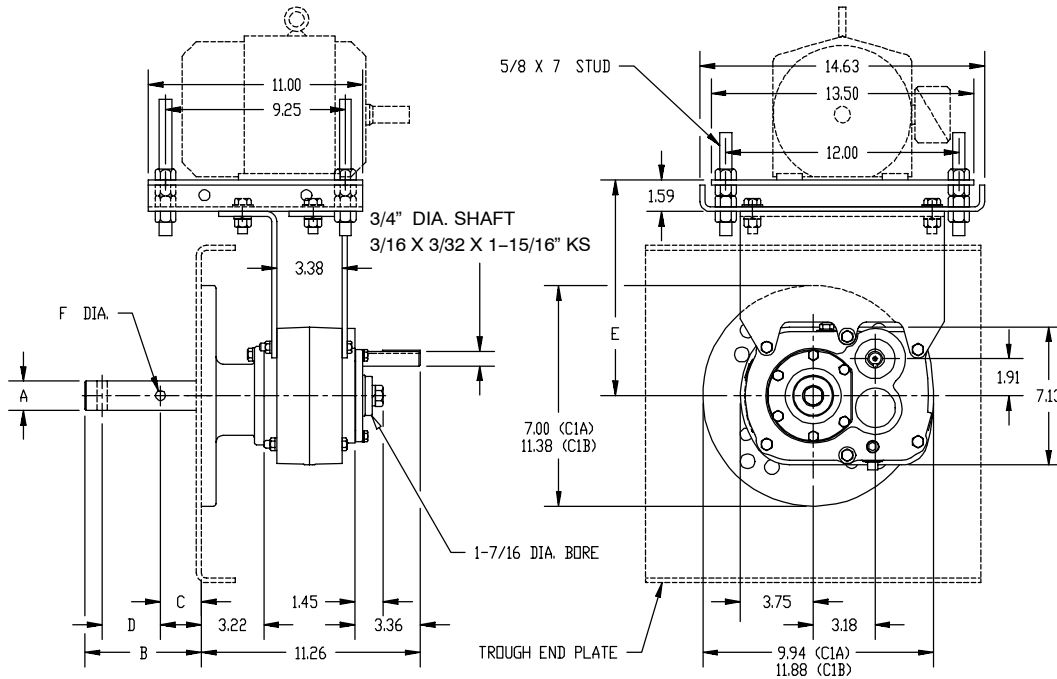
NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-81-G1-82	DIMENSIONS PAGES G1-90-G1-117	MODIFICATIONS/ACCESSORIES PAGES G1-120-G1-126
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SELECTION/DIMENSIONS



Screw Conveyor Shaft Mount Speed Reducers

SCXT1 — DOUBLE REDUCTION SCREW CONVEYOR DRIVES

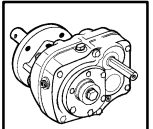


SCXT1 Screw Conveyor Drives †

Reducers				
Size	Part No.	AGMA Code	Ratio	Weight
SCXT109	241480	107D09	9.44	45
SCXT115	351163	107D15	15.35	45
SCXT125	351164	107D25	25.64	45

CEMA Drive Shafts ★									Adapter Assembly ▲		
Drive Shaft	Screw Dia.	Part No.	A	B	C	D	F Dia.	Weight	Size	Part No.	Weight
C1 x 1-1/2	6"-9"	351094	1.50	6.00	2.13	3.00	.52	7.2	C1A	351086	13
									AC1B▲	356168	22
C1 x 2	9"-12"	351095	2.00	6.00	2.13	3.00	.64	9.1	C1B	351087	27
C1 x 2-7/16	12"-14"	351096	2.44	6.69	2.75	3.00	.64	12.5	AC1B▲	356168	22
C1 x 3	12"-20"	351097	3.00	6.88	2.88	3.00	.77	17.4			

SELECTION/DIMENSIONS



Screw Conveyor Shaft Mount Speed Reducers

SCXT1 — DOUBLE REDUCTION SCREW CONVEYOR DRIVES

SCXT1 Accessories

Description	NEMA Motor Frame	Screw Dia.	Part No.	Weight
M112 Standard Motor Mount	56T thru 210T	6"-12"	351069	42
M120L Long Motor Mount	56T thru 210T	14"-20"	272625	51
SCXT1-D SCD Reducer Belt Guard	56T thru 210T	—	241489	27
SCXT1-D SCD Reducer Belt Guard for Long Motor Mount	56T thru 210T	—	241149	32
SCXT1 Auxiliary Seal Kit ♥	—	—	272721	2

SCXT1 Motor Mount Assembly Dimensions

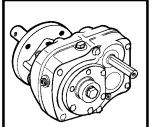
Motor Mount	E ♦		V-Belt Drive Center Distances for Various NEMA Motor Frames					
			56, 140		180		210	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
M112	11.1	15.3	13.5	17.0	14.5	18.0	15.3	19.0
M120L	17.1	21.3	19.5	22.9	20.5	23.9	21.2	24.7

- † Complete drive consists of reducer, CEMA drive shaft and key, and adapter assembly. Drive is shipped unassembled.
- ♠ AC adjustable packing adapter furnished if specified. C-style adapter is standard.
- ♦ Provides for V-Belt adjustment.
- ♥ See page G1-192 for drill and tap information required to mount to reducer.

- ▲ Includes adapter, necessary mounting bolts, and seal retainer. Both lip type and braided type seals included for customer's choice of application.
- ★ CEMA drive shaft and key is furnished unless otherwise specified. See pages G1-120 thru G1-122 for optional drive shafts available from DODGE.

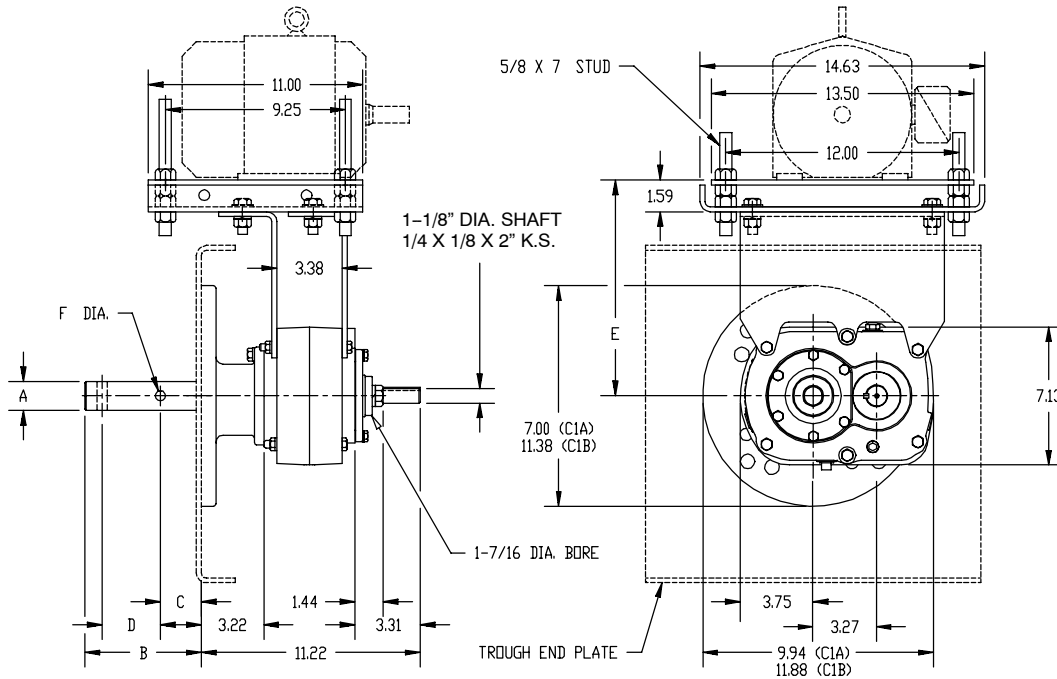
NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-81-G1-89	MODIFICATIONS/ACCESSORIES PAGES G1-120-G1-126	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS



Screw Conveyor Shaft Mount Speed Reducers

SCXT105 — SINGLE REDUCTION SCREW CONVEYOR DRIVE

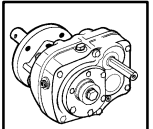


SCXT105 Screw Conveyor Drive †

Reducers				
Size	Part No.	AGMA Code	Ratio	Weight
SCXT105	351165	107S05	5.62	40

CEMA Drive Shafts ★									Adapter Assembly ▲		
Drive Shaft	Screw Dia.	Part No.	A	B	C	D	F Dia.	Weight	Size	Part No.	Weight
C1 x 1-1/2	6"-9"	351094	1.50	6.00	2.13	3.00	.52	7.2	C1A	351086	13
									AC1B▲	356168	22
C1 x 2	9"-12"	351095	2.00	6.00	2.13	3.00	.64	9.1	C1B	351087	27
C1 x 2-7/16	12"-14"	351096	2.44	6.69	2.75	3.00	.64	12.5	AC1B▲	356168	22
C1 x 3	12"-20"	351097	3.00	6.88	2.88	3.00	.77	17.4			

SELECTION/DIMENSIONS



Screw Conveyor Shaft Mount Speed Reducers

SCXT105 — SINGLE REDUCTION SCREW CONVEYOR DRIVE

SCXT105 Accessories

Description	NEMA Motor Frame	Screw Dia.	Part No.	Weight
M112 Standard Motor Mount	56T thru 210T	6"-12"	351069	42
M120L Long Motor Mount	56T thru 210T	14"-20"	272625	51
SCXT1-S SCD Reducer Belt Guard	56T thru 210T	—	241491	30
SCXT1-S SCD Reducer Belt Guard for Long Motor Mount	56T thru 210T	—	241142	36
SCXT105 Auxiliary Seal Kit ♥	—	—	251146	2

SCXT105 Motor Mount Assembly Dimensions

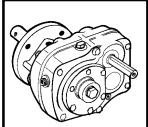
Motor Mount	E ♦		V-Belt Drive Center Distances for Various NEMA Motor Frames					
			56, 140		180		210	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
M112	11.1	15.3	15.4	19.0	16.4	20.0	17.2	20.6
M120L	17.1	21.3	21.4	24.8	22.4	25.8	23.1	26.6

- † Complete drive consists of reducer, CEMA drive shaft and key, and adapter assembly. Drive is shipped unassembled.
- ♠ AC adjustable packing adapter furnished if specified. C-style adapter is standard.
- ◆ Provides for V-Belt adjustment.
- ♥ See page G1-192 for drill and tap information required to mount to reducer.

- ▲ Includes adapter, necessary mounting bolts, and seal retainer. Both lip type and braided type seals included for customer's choice of application.
- ★ CEMA drive shaft and key is furnished unless otherwise specified. See pages G1-120 thru G1-122 for optional drive shafts available from DODGE.

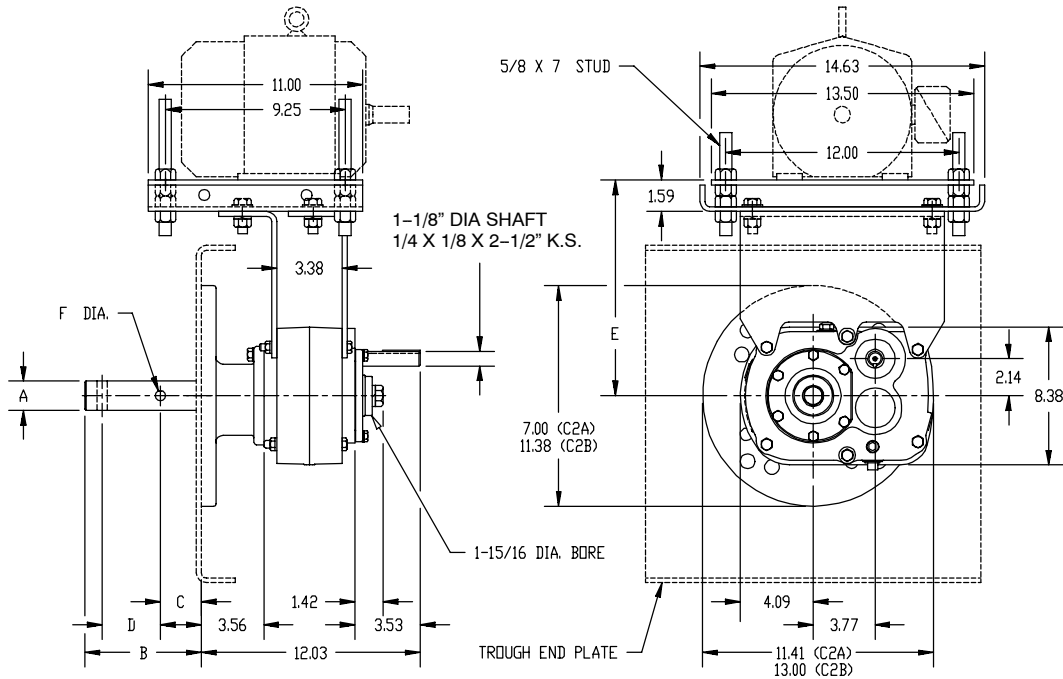
NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-81-G1-89	MODIFICATIONS/ACCESSORIES PAGES G1-120-G1-126	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS



Screw Conveyor Shaft Mount Speed Reducers

SCXT2 — DOUBLE REDUCTION SCREW CONVEYOR DRIVES

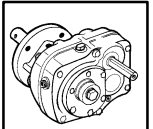


SCXT2 Screw Conveyor Drive †

Reducers				
Size	Part No.	AGMA Code	Ratio	Weight
SCXT209	242480	115D09	9.25	58
SCXT215	352065	115D15	14.10	58
SCXT225	352066	115D25	23.46	58

CEMA Drive Shafts ★									Adapter Assembly ▲		
Drive Shaft	Screw Dia.	Part No.	A	B	C	D	F Dia.	Weight	Size	Part No.	Weight
C2 x 1-1/2	6"-9"	352090	1.50	6.00	2.13	3.00	.52	11.4	C2A	352052	15
									AC2B▲	356112	25
C2 x 2	9"-12"	352091	2.00	6.00	2.13	3.00	.64	13.8	C2B	352053	26
C2 x 2-7/16	12"-14"	352092	2.44	6.69	2.75	3.00	.64	17.3	AC2B▲	356112	25
C2 x 3	12"-20"	352093	3.00	6.88	2.88	3.00	.77	19			

SELECTION/DIMENSIONS



Screw Conveyor Shaft Mount Speed Reducers

SCXT2 — DOUBLE REDUCTION SCREW CONVEYOR DRIVES

SCXT2 Accessories

Description	NEMA Motor Frame	Screw Dia.	Part No.	Weight
M214 Standard Motor Mount	56T thru 210T	6"-14"	352069	43
M220L Long Motor Mount	56T thru 210T	16"-20"	272626	51
SCXT2-D SCD Reducer Belt Guard	56T thru 210T	—	242489	32
SCXT2-D SCD Reducer Belt Guard for Long Motor Mount	56T thru 210T	—	242223	38
SCXT2 Auxiliary Seal Kit ♥	—	—	272722	3

SCXT2 Motor Mount Assembly Dimensions

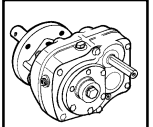
Motor Mount	E ♦		V-Belt Drive Center Distances for Various NEMA Motor Frames					
			56, 140		180		210	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
M214	12.6	16.8	14.9	18.3	15.9	19.3	16.6	20.0
M220L	18.6	22.8	20.9	24.2	21.9	25.3	22.6	26.0

- † Complete drive consists of reducer, CEMA drive shaft and key, and adapter assembly. Drive is shipped unassembled.
- ♠ AC adjustable packing adapter furnished if specified. C-style adapter is standard.
- ◆ Provides for V-Belt adjustment.
- ♥ See page G1-192 for drill and tap information required to mount to reducer.

- ▲ Includes adapter, necessary mounting bolts, and seal retainer. Both lip type and braided type seals included for customer's choice of application.
- ★ CEMA drive shaft and key is furnished unless otherwise specified. See pages G1-120 thru G1-122 for optional drive shafts available from DODGE.

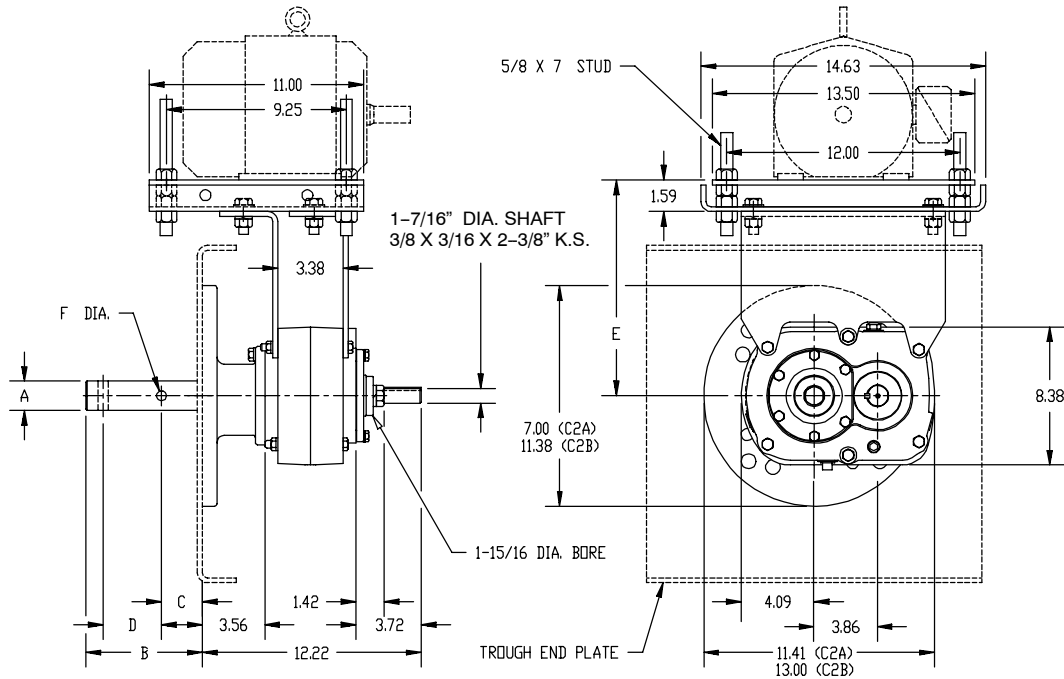
NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-81-G1-89	MODIFICATIONS/ACCESSORIES PAGES G1-120-G1-126	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS



Screw Conveyor Shaft Mount Speed Reducers

SCXT205 — SINGLE REDUCTION SCREW CONVEYOR DRIVE

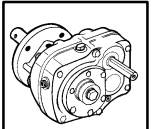


SCXT205 Screw Conveyor Drive †

Reducers				
Size	Part No.	AGMA Code	Ratio	Weight
SCXT205	352218	115S05	5.29	52

CEMA Drive Shafts ★									Adapter Assembly ▲		
Drive Shaft	Screw Dia.	Part No.	A	B	C	D	F Dia.	Weight	Size	Part No.	Weight
C2 x 1-1/2	6"-9"	352090	1.50	6.00	2.13	3.00	.52	11.4	C2A	352052	15
									AC2B ▲	356112	25
C2 x 2	9"-12"	352091	2.00	6.00	2.13	3.00	.64	13.8	C2B	352053	26
									AC2B ▲	356112	25
C2 x 2-7/16	12"-14"	352092	2.44	6.69	2.75	3.00	.64	17.3			
C2 x 3	12"-20"	352093	3.00	6.88	2.88	3.00	.77	19			

SELECTION/DIMENSIONS



Screw Conveyor Shaft Mount Speed Reducers

SCXT205 — SINGLE REDUCTION SCREW CONVEYOR DRIVE

SCXT205 Accessories

Description	NEMA Motor Frame	Screw Dia.	Part No.	Weight
M214 Standard Motor Mount	56T thru 210T	6"-14"	352069	43
M220L Long Motor Mount	56T thru 210T	16"-20"	272626	51
SCXT2-S SCD Reducer Belt Guard	56T thru 210T	—	242491	34
SCXT2-S SCD Reducer Belt Guard for Long Motor Mount	56T thru 210T	—	242114	41
SCXT205 Auxiliary Seal Kit ♥	—	—	252146	3

SCXT205 Motor Mount Assembly Dimensions

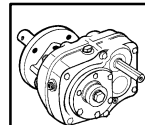
Motor Mount	E ♦		V-Belt Drive Center Distances for Various NEMA Motor Frames					
			56, 140		180		210	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
M214	12.6	16.8	17.0	20.5	18.0	21.4	18.7	22.2
M220L	18.6	22.8	23.0	26.4	24.0	27.5	24.7	28.2

- † Complete drive consists of reducer, CEMA drive shaft and key, and adapter assembly. Drive is shipped unassembled.
- ♠ AC adjustable packing adapter furnished if specified. C-style adapter is standard.
- ◆ Provides for V-Belt adjustment.
- ♥ See page G1-192 for drill and tap information required to mount to reducer.

- ▲ Includes adapter, necessary mounting bolts, and seal retainer. Both lip type and braided type seals included for customer's choice of application.
- ★ CEMA drive shaft and key is furnished unless otherwise specified. See pages G1-120 thru G1-122 for optional drive shafts available from DODGE.

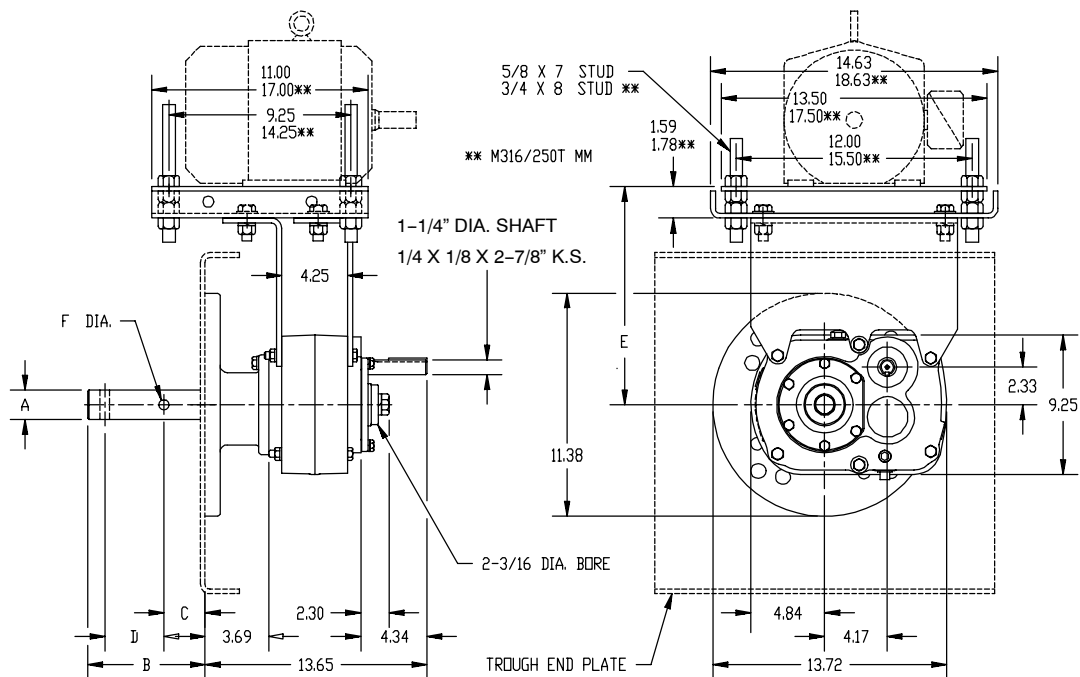
NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-81-G1-89	MODIFICATIONS/ACCESSORIES PAGES G1-120-G1-126	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS



Screw Conveyor Shaft Mount Speed Reducers

SCXT3A — DOUBLE REDUCTION SCREW CONVEYOR DRIVES

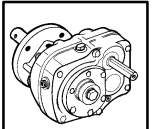


SCXT3A Screw Conveyor Drives †

Reducers				
Size	Part No.	AGMA Code	Ratio	Weight
SCXT309A	243524	203D09	8.91	98
SCXT315A	243525	203D15	14.88	98
SCXT325A	243526	203D25	24.71	98

CEMA Drive Shafts ★									Adapter Assembly ▲		
Drive Shaft	Screw Dia.	Part No.	A	B	C	D	F Dia.	Weight	Size	Part No.	Weight
C3A x 1-1/2	9"	243562	1.50	6.00	2.13	3.00	.52	15	C3 AC3B▲	353047 356163	29 27
C3A x 2	9"-12"	243563	2.00	6.00	2.13	3.00	.64	16			
C3A x 2-7/16	12"-14"	243564	2.44	6.69	2.75	3.00	.64	19.5			
C3A x 3	12"-20"	243565	3.00	6.88	2.88	3.00	.77	26			

SELECTION/DIMENSIONS



Screw Conveyor Shaft Mount Speed Reducers

SCXT3A — DOUBLE REDUCTION SCREW CONVEYOR DRIVES

SCXT3A Accessories

Description	NEMA Motor Frame	Screw Dia.	Part No.	Weight
M316 Standard Motor Mount	56T thru 210T	6"-16"	353069	44
M316/250T Special Motor Mount ■♣	250T	6"-16"	353070	44
M320L Long Motor Mount	56T thru 210T	18"-20"	272627	56
SCXT3-D SCD Reducer Belt Guard	56T thru 210T	—	243416	40
SCXT3-D SCD Reducer Belt Guard for Long Motor Mount	56T thru 210T	—	243154	48
SCXT3A Cooling Fan Assembly	—	—	243581	3
SCXT3A Auxiliary Seal Kit ♥	—	—	243582	5

SCXT3A Motor Mount Assembly Dimensions

Motor Mount	E ◆		V-Belt Drive Center Distances for Various NEMA Motor Frames							
			56, 140		180		210		250	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
M316	13.8	18.0	15.8	19.3	16.8	20.3	17.6	21.0	18.6	22.0
M320L	19.8	24.0	21.8	25.3	22.8	26.3	23.6	27.0	—	—

† Complete drive consists of reducer, CEMA drive shaft and key, and adapter assembly. Drive is shipped unassembled.

♠ AC adjustable packing adapter furnished if specified. C-style adapter is standard.

◆ Provides for V-Belt adjustment.

♣ Drawing dimensions are noted as**.

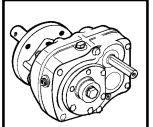
♥ See page G1-192 for drill and tap information required to mount to reducer.

▲ Includes adapter, necessary mounting bolts, and seal retainer. Both lip type and braided type seals included for customer's choice of application.

★ CEMA drive shaft and key is furnished unless otherwise specified. See pages G1-120 thru G1-122 for optional drive shafts available from DODGE.

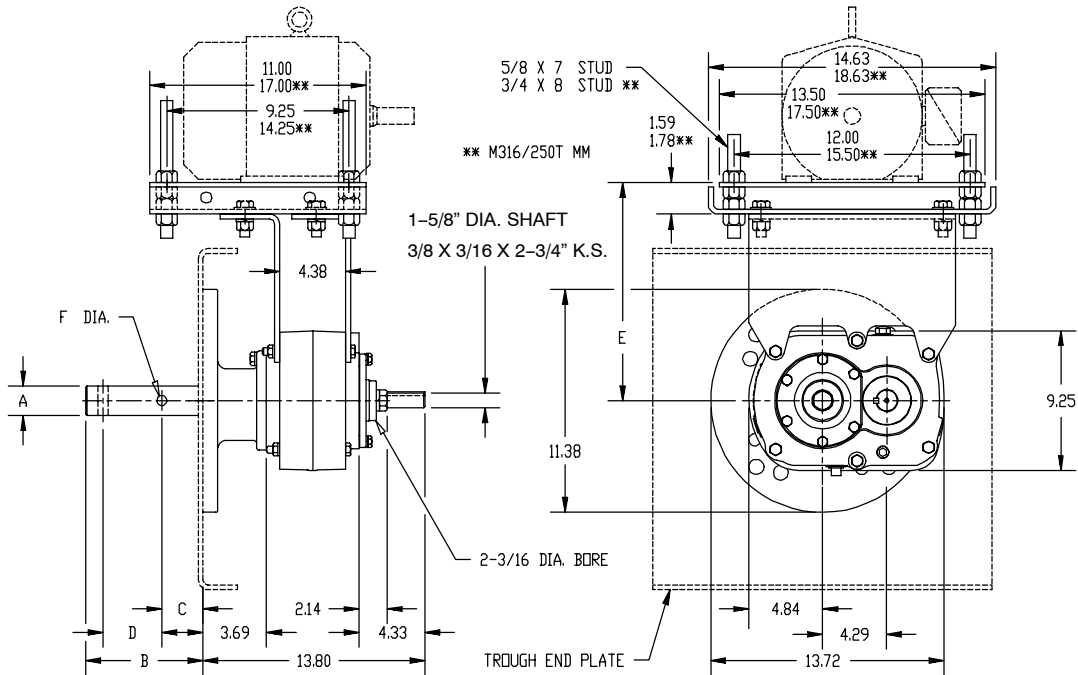
■ DODGE standard belt guards will not fit with this motor mount.

SELECTION/DIMENSIONS



Screw Conveyor Shaft Mount Speed Reducers

SCXT305A — SINGLE REDUCTION SCREW CONVEYOR DRIVE

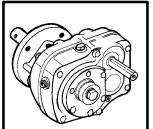


SCXT305A Screw Conveyor Drive †

Reducers				
Size	Part No.	AGMA Code	Ratio	Weight
SCXT305A	253159	203S05	5.60	86

CEMA Drive Shafts ★									Adapter Assembly ▲		
Drive Shaft	Screw Dia.	Part No.	A	B	C	D	F Dia.	Weight	Size	Part No.	Weight
C3A x 1-1/2	9"	243562	1.50	6.00	2.13	3.00	.52	15	C3 AC3B▲	353047 356163	29 27
C3A x 2	9"-12"	243563	2.00	6.00	2.13	3.00	.64	16			
C3A x 2-7/16	12"-14"	243564	2.44	6.69	2.75	3.00	.64	19.5			
C3A x 3	12"-20"	243565	3.00	6.88	2.88	3.00	.77	26			

SELECTION/DIMENSIONS



Screw Conveyor Shaft Mount Speed Reducers

SCXT305A — SINGLE REDUCTION SCREW CONVEYOR DRIVE

SCXT305A Accessories

Description	NEMA Motor Frame	Screw Dia.	Part No.	Weight
M316 Standard Motor Mount	56T thru 210T	6"-16"	353069	44
M316/250T Special Motor Mount ♣■	250T	6"-16"	353070	44
M320L Long Motor Mount	56T thru 210T	18"-20"	272627	56
SCXT3-S SCD Reducer Belt Guard	56T thru 210T	—	243418	40
SCXT3-S SCD Reducer Belt Guard for Long Motor Mount	56T thru 210T	—	243167	48
SCXT305A Cooling Fan Assembly	—	—	253188	3
SCXT305A Auxiliary Seal Kit ♥	—	—	253146	5

SCXT305A Motor Mount Assembly Dimensions

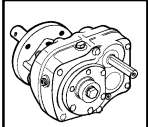
Motor Mount	E ♦		V-Belt Drive Center Distances for Various NEMA Motor Frames							
			56, 140		180		210		250	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
M316	13.8	18.0	18.2	21.6	19.2	22.6	19.5	23.4	20.9	24.4
M320L	19.8	24.0	24.2	27.6	25.2	28.6	25.9	29.4	—	—

- † Complete drive consists of reducer, CEMA drive shaft and key, and adapter assembly. Drive is shipped unassembled.
- ♠ AC adjustable packing adapter furnished if specified. C-style adapter is standard.
- ♦ Provides for V-Belt adjustment.
- ♣ Drawing dimensions are noted as**
- ♥ See page G1-192 for drill and tap information required to mount to reducer.

- ▲ Includes adapter, necessary mounting bolts, and seal retainer. Both lip type and braided type seals included for customer's choice of application.
- ★ CEMA drive shaft and key is furnished unless otherwise specified. See pages G1-120 thru G1-122 for optional drive shafts available from DODGE.
- DODGE standard belt guards will not fit with this motor mount.

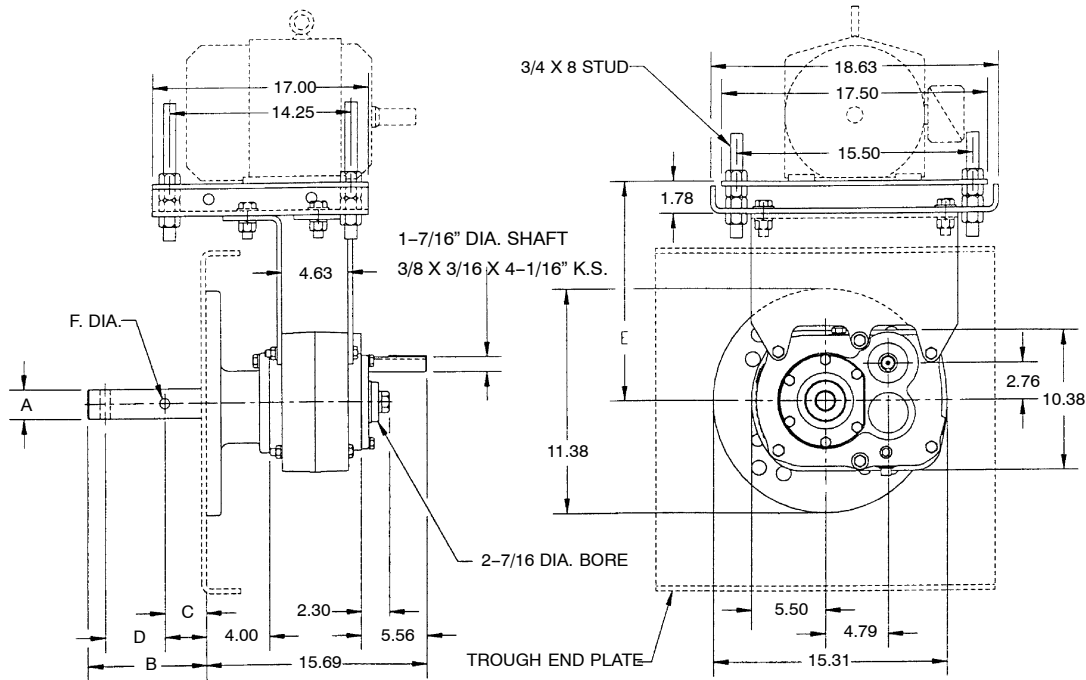
NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-81-G1-89	MODIFICATIONS/ACCESSORIES PAGES G1-120-G1-126	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS



Screw Conveyor Shaft Mount Speed Reducers

SCXT4A — DOUBLE REDUCTION SCREW CONVEYOR DRIVES

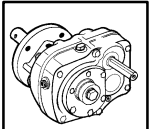


SCXT4A Screw Conveyor Drives †

Reducers				
Size	Part No.	AGMA Code	Ratio	Weight
SCXT409A	244549	207D09	9.67	139
SCXT415A	244550	207D15	15.13	139
SCXT425A	244551	207D25	24.38	139

CEMA Drive Shafts ★									Adapter Assembly ▲		
Drive Shaft	Screw Dia.	Part No.	A	B	C	D	F Dia.	Weight	Size	Part No.	Weight
C4A x 1-1/2	9"	244594	1.50	6.00	2.13	3.00	.52	19	C4 AC4▲	354121 356149	33 31
C4A x 2	9"-12"	244595	2.00	6.00	2.13	3.00	.64	20.8			
C4A x 2-7/16	12"-14"	244596	2.44	6.69	2.75	3.00	.64	24.3			
C4A x 3	12"-20"	244597	3.00	6.88	2.88	3.00	.77	29.2			
C4A x 3-7/16	18"-24"	244598	3.44	9.13	3.88	4.00	.89	39.3			

SELECTION/DIMENSIONS



Screw Conveyor Shaft Mount Speed Reducers

SCXT4A — DOUBLE REDUCTION SCREW CONVEYOR DRIVES

SCXT4A Accessories

Description	NEMA Motor Frame	Screw Dia.	Part No.	Weight
M418 Standard Motor Mount	140T thru 280T	9"-18"	354069	86
M418/320T Motor Mount ■♣	140T thru 320T	9"-18"	354028	90
M424L Long Motor Mount	140T thru 280T	20"-24"	272628	100
SCXT4-D SCD Reducer Belt Guard	140T thru 280T	—	244489	44
SCXT4-D SCD Reducer Belt Guard for Long Motor Mount	140T thru 280T	—	244152	53
SCXT4A Cooling Fan Assembly	—	—	272594	3
SCXT4A Auxiliary Seal Kit ♥	—	—	244677	5

SCXT4A Motor Mount Assembly Dimensions

Motor Mount	E ♦		V-Belt Drive Center Distances for Various NEMA Motor Frames											
			56, 140		180		210		250		280		320	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
M418	15.3	20.1	16.9	21.0	17.9	22.0	18.6	22.7	19.6	23.7	20.4	24.5	21.4	25.4
M424L	21.3	26.1	23.2	27.0	24.2	28.0	24.9	28.6	25.9	29.6	26.7	30.4		

† Complete drive consists of reducer, CEMA drive shaft and key, and adapter assembly. Drive is shipped unassembled.

♠ AC adjustable packing adapter furnished if specified. C-style adapter is standard.

◆ Provides for V-Belt adjustment.

♥ See page G1-192 for drill and tap information required to mount to reducer.

♣ Made to order

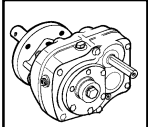
▲ Includes adapter, necessary mounting bolts, and seal retainer. Both lip type and braided type seals included for customer's choice of application.

★ CEMA drive shaft and key is furnished unless otherwise specified. See pages G1-120 thru G1-122 for optional drive shafts available from DODGE.

● Consult DODGE for center distances

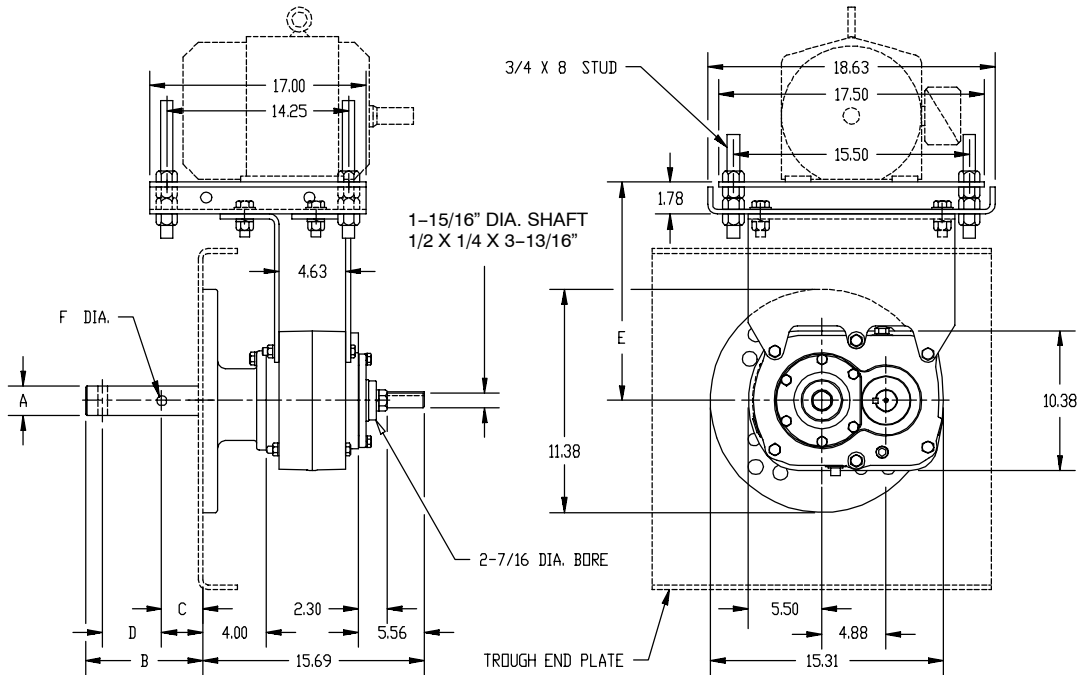
■ DODGE standard belt guards will not fit this motor mount

SELECTION/DIMENSIONS



Screw Conveyor Shaft Mount Speed Reducers

SCXT405A — SINGLE REDUCTION SCREW CONVEYOR DRIVE

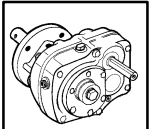


SCXT405A Screw Conveyor Drive †

Reducers				
Size	Part No.	AGMA Code	Ratio	Weight
SCXT405A	254208	207S05	5.65	122

CEMA Drive Shafts ★									Adapter Assembly ▲		
Drive Shaft	Screw Dia.	Part No.	A	B	C	D	F Dia.	Weight	Size	Part No.	Weight
C4 x 1-1/2	9"	244594	1.50	6.00	2.13	3.00	.52	19	C4 AC4▲	354121 356149	33 31
C4 x 2	9"-12"	244595	2.00	6.00	2.13	3.00	.64	20.8			
C4 x 2-7/16	12"-14"	244596	2.44	6.69	2.75	3.00	.64	24.3			
C4 x 3	12"-20"	244597	3.00	6.88	2.88	3.00	.77	29.2			
C4 x 3-7/16	18"-24"	244598	3.44	9.13	3.88	4.00	.89	39.3			

SELECTION/DIMENSIONS



Screw Conveyor Shaft Mount Speed Reducers

SCXT405A — SINGLE REDUCTION SCREW CONVEYOR DRIVE

SCXT405A Accessories

Description	NEMA Motor Frame	Screw Dia.	Part No.	Weight
M418 Standard Motor Mount	140T thru 280T	9"-18"	354069	86
M418/320T Motor Mount ■♣	140T thru 320T	9"-18"	354028	90
M424L Long Motor Mount	140T thru 280T	20"-24"	272628	100
SCXT4-S SCD Reducer Belt Guard	140T thru 280T	—	244491	50
SCXT4-S SCD Reducer Belt Guard for Long Motor Mount	140T thru 280T	—	244167	60
SCXT405A Cooling Fan Assembly	—	—	254268	3
SCXT405A Auxiliary Seal Kit ♥	—	—	254146	5

SCXT405A Motor Mount Assembly Dimensions

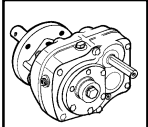
Motor Mount	E ♦		V-Belt Drive Center Distances for Various NEMA Motor Frames											
			56, 140		180		210		250		280		320	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
M418	15.3	20.1	19.6	23.7	20.6	24.7	21.4	25.5	22.4	26.5	23.0	27.2	21.4	25.4
M424L	21.3	26.1	25.9	29.7	26.9	30.7	27.7	31.4	28.7	32.3	29.4	33.2		

- † Complete drive consists of reducer, CEMA drive shaft and key, and adapter assembly. Drive is shipped unassembled.
- ♠ AC adjustable packing adapter furnished if specified. C-style adapter is standard.
- ◆ Provides for V-Belt adjustment.
- ♥ See page G1-192 for drill and tap information required to mount to reducer.
- ♣ Made to order

- ▲ Includes adapter, necessary mounting bolts, and seal retainer. Both lip type and braided type seals included for customer's choice of application.
- ★ CEMA drive shaft and key is furnished unless otherwise specified. See pages G1-120 thru G1-122 for optional drive shafts available from DODGE.
- DODGE standard belt guards will not fit this motor mount

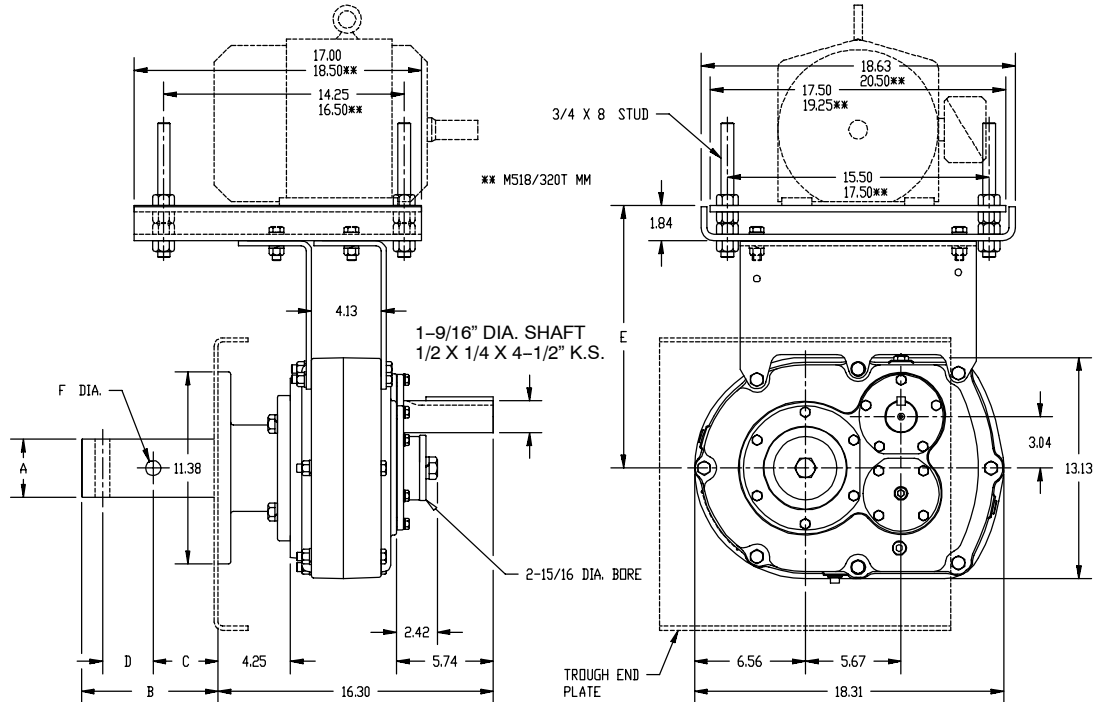
NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-81-G1-89	MODIFICATIONS/ACCESSORIES PAGES G1-120-G1-126	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS



Screw Conveyor Shaft Mount Speed Reducers

SCXT5B — DOUBLE REDUCTION SCREW CONVEYOR DRIVES

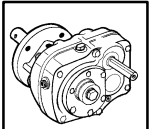


SCXT5B Screw Conveyor Drives †

Reducers				
Size	Part No.	AGMA Code	Ratio	Weight
SCXT509B	245574	215D09	8.95	207
SCXT515B	245575	215D15	15.40	207
SCXT525B	245576	215D25	25.56	207

CEMA Drive Shafts ★									Adapter Assembly ▲		
Drive Shaft	Screw Dia.	Part No.	A	B	C	D	F Dia.	Weight	Size	Part No.	Weight
C5B x 2	9"-12"	355175	2.00	6.00	2.13	3.00	.64	29.4	C5 AC5▲	355072 356158	43 43
C5B x 2-7/16	12"-14"	355176	2.44	6.69	2.75	3.00	.64	33			
C5B x 3	12"-20"	355177	3.00	6.88	2.88	3.00	.77	37.9			
C5B x 3-7/16	18"-24"	355178	3.44	9.13	3.88	4.00	.89	48.3			

SELECTION/DIMENSIONS



Screw Conveyor Shaft Mount Speed Reducers

SCXT5B — DOUBLE REDUCTION SCREW CONVEYOR DRIVES

SCXT5B Accessories

Description	NEMA Motor Frame	Screw Dia.	Part No.	Weight
M518 Standard Motor Mount	140T thru 280T	9"-18"	355169	82
M518/320T Special Motor Mount ♣■	320T	9"-18"	355168	82
M524L Long Motor Mount	140T thru 280T	20"-24"	272629	110
SCXT5-D SCD Reducer Belt Guard	140T thru 280T	—	245495	45
SCXT5-D SCD Reducer Belt Guard for Long Motor Mount	140T thru 280T	—	245103	54
SCXT5B Cooling Fan Assembly	—	—	272369	3
SCXT5B Auxiliary Seal Kit ♥	—	—	245637	6

SCXT5B Motor Mount Assembly Dimensions

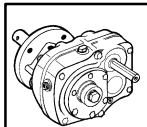
Motor Mount	E ♦		V-Belt Drive Center Distances for Various NEMA Motor Frames											
			56, 140		180		210		250		280		320	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
M518	15.3	20.1	16.6	20.7	17.6	21.7	18.4	22.4	19.4	23.4	20.0	24.2	21.1	25.2
M524L	21.3	26.1	22.9	26.6	23.9	27.6	24.7	28.4	25.7	29.4	26.4	30.1	—	—

- † Complete drive consists of reducer, CEMA drive shaft and key, and adapter assembly. Drive is shipped unassembled.
- ♠ AC adjustable packing adapter furnished if specified. C-style adapter is standard.
- ◆ Provides for V-Belt adjustment.
- ♣ Made to order. Drawing dimensions are noted as * * .
- ♥ See page G1-192 for drill and tap information required to mount to reducer.

- ▲ Includes adapter, necessary mounting bolts, and seal retainer. Both lip type and braided type seals included for customer's choice of application.
- ★ CEMA drive shaft and key is furnished unless otherwise specified. See pages G1-120 thru G1-122 for optional drive shafts available from DODGE.
- DODGE standard belt guards will not fit with this motor mount.

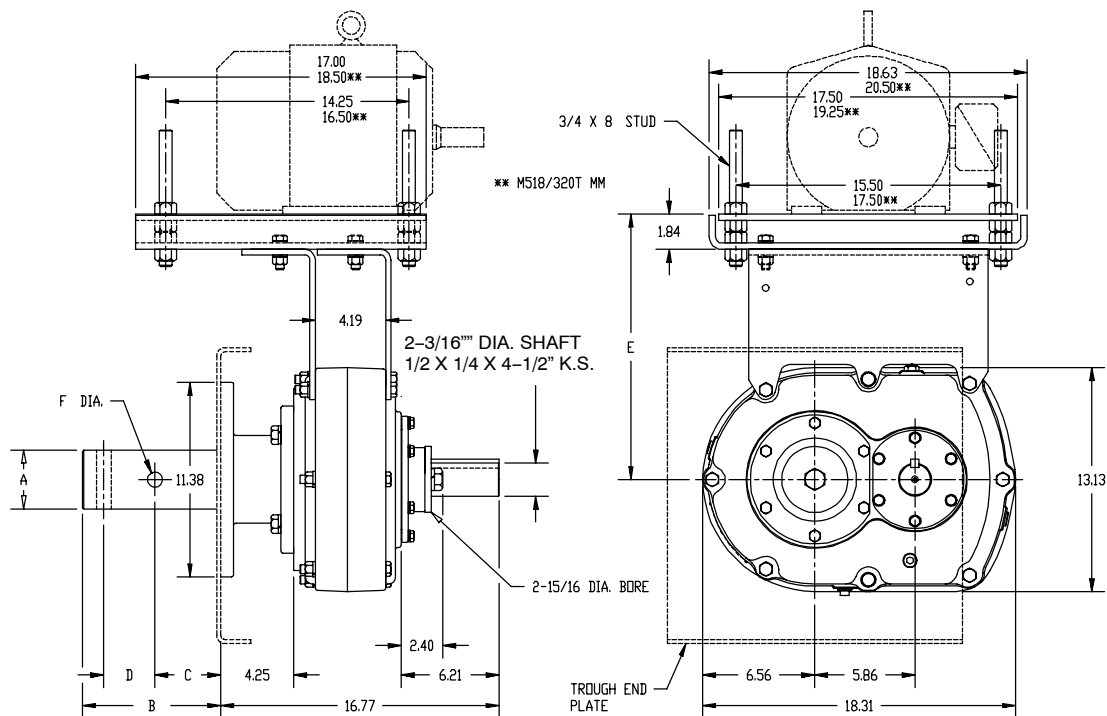
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SELECTION/DIMENSIONS



Screw Conveyor Shaft Mount Speed Reducers

SCXT505A — SINGLE REDUCTION SCREW CONVEYOR DRIVES



SCXT505A Screw Conveyor Drive †

Reducers				
Size	Part No.	AGMA Code	Ratio	Weight
SCXT505A	255208	215S05	5.67	182

CEMA Drive Shafts ★									Adapter Assembly ▲		
Drive Shaft	Screw Dia.	Part No.	A	B	C	D	F Dia.	Weight	Size	Part No.	Weight
C5B x 2	9"-12"	355175	2.00	6.00	2.13	3.00	.64	29.4	C5 AC5▲	355072 356158	43 43
C5B x 2-7/16	12"-14"	355176	2.44	6.69	2.75	3.00	.64	33			
C5B x 3	12"-20"	355177	3.00	6.88	2.88	3.00	.77	37.9			
C5B x 3-7/16	18"-24"	355178	3.44	9.13	3.88	4.00	.89	48.3			

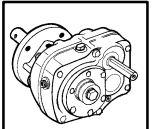
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SELECTION/DIMENSIONS



Screw Conveyor Shaft Mount Speed Reducers

SCXT505A — SINGLE REDUCTION SCREW CONVEYOR DRIVES

SCXT505A Accessories

Description	NEMA Motor Frame	Screw Dia.	Part No.	Weight
M518 Standard Motor Mount	140T thru 280T	9"-18"	355169	82
M518/320T Special Motor Mount ♣■	320T	9"-18"	355168	82
M524L Long Motor Mount	140T thru 280T	20"-24"	272629	110
SCXT5-S SCD Reducer Belt Guard	140T thru 280T	—	245497	70
SCXT5-S SCD Reducer Belt Guard for Long Motor Mount	140T thru 280T	—	245015	84
SCXT505A Cooling Fan Assembly	—	—	255231	3
SCXT505A Auxiliary Seal Kit ♥	—	—	255148	6

SCXT505A Motor Mount Assembly Dimensions

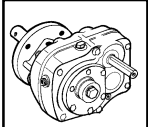
SCD Motor Mount	E ♦		V-Belt Drive Center Distances for Various NEMA Motor Frames											
			56, 140		180		210		250		280		320	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
M518	15.3	20.1	19.7	23.8	20.7	24.7	21.4	25.5	22.4	26.5	23.0	27.2	24.2	28.2
M524L	21.3	26.1	25.9	29.7	26.9	30.7	27.7	31.4	28.7	32.4	29.5	33.2	—	—

- † Complete drive consists of reducer, CEMA drive shaft and key, and adapter assembly. Drive is shipped unassembled.
- ♠ AC adjustable packing adapter furnished if specified. C-style adapter is standard.
- ◆ Provides for V-Belt adjustment.
- ♣ Made to order. Drawing dimensions are noted as * * .
- ♥ See page G1-192 for drill and tap information required to mount to reducer.

- ▲ Includes adapter, necessary mounting bolts, and seal retainer. Both lip type and braided type seals included for customer's choice of application.
- ★ CEMA drive shaft and key is furnished unless otherwise specified. See pages G1-120 thru G1-122 for optional drive shafts available from DODGE.
- DODGE standard belt guards will not fit with this motor mount.

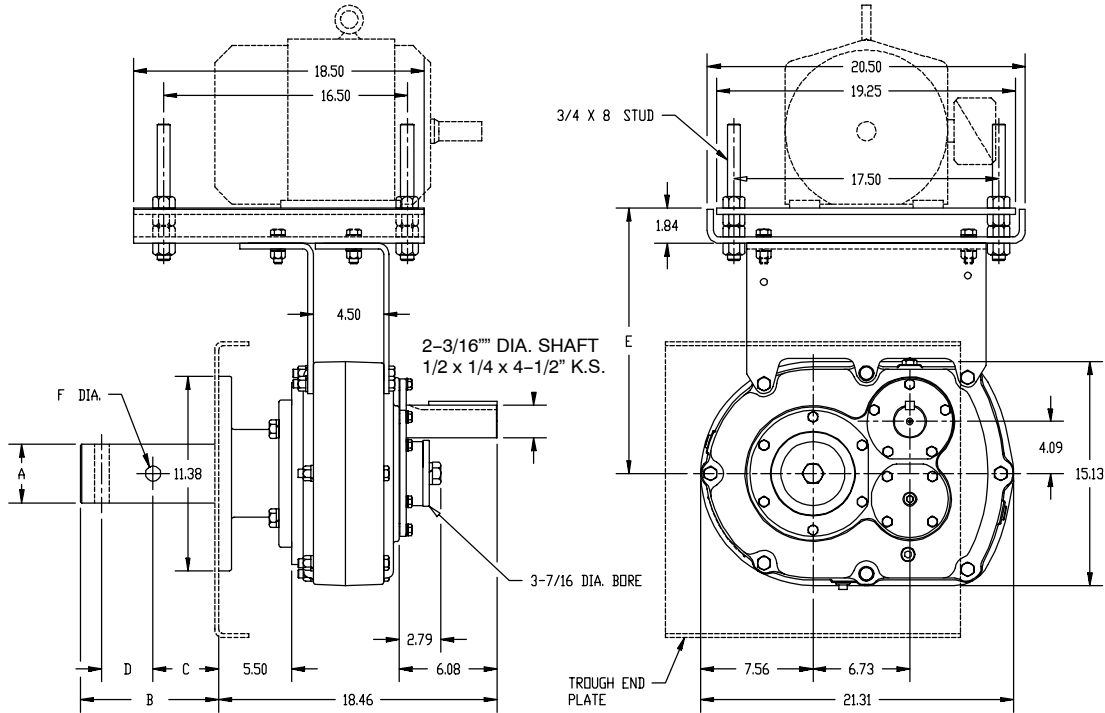
NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-81-G1-89	MODIFICATIONS/ACCESSORIES PAGES G1-120-G1-126	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS



Screw Conveyor Shaft Mount Speed Reducers

SCXT6 — DOUBLE REDUCTION SCREW CONVEYOR DRIVES

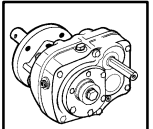


SCXT6 Screw Conveyor Drives †

Reducers				
Size	Part No.	AGMA Code	Ratio	Weight
SCXT609	246480	307D09	9.20	285
SCXT615	356057	307D15	15.33	285
SCXT625	356058	307D25	25.13	285

CEMA Drive Shafts ★									Adapter Assembly ▲		
Drive Shaft	Screw Dia.	Part No.	A	B	C	D	F Dia.	Weight	Size	Part No.	Weight
C6 x 2-7/16	12"-14"	356042	2.44	6.69	2.75	3.00	.64	47.7	C6	356055	56
C6 x 3"	12"-20"	356043	3.00	6.88	2.88	3.00	.77	52.7	AC6♣	356154	56
C6 x 3-7/16	18"-24"	356044	3.44	9.13	3.88	4.00	.89	63			

SELECTION/DIMENSIONS



Screw Conveyor Shaft Mount Speed Reducers

SCXT6 — DOUBLE REDUCTION SCREW CONVEYOR DRIVES

SCXT6 Accessories

Description	NEMA Motor Frame	Screw Dia.	Part No.	Weight
M620 Standard Motor Mount	140T thru 320T	12"-20"	356069	105
M624L Long Motor Mount	140T thru 320T	24"	272630	122
SCXT6-D SCD Reducer Belt Guard	140T thru 320T	—	246476	60
SCXT6-D SCD Reducer Belt Guard for Long Motor Mount	140T thru 320T	—	246148	72
SCXT6 Cooling Fan Assembly	—	—	272325	3
SCXT6 Auxiliary Seal Kit	—	—	272726	7

SCXT6 Motor Mount Assembly Dimensions

Motor Mount	E ♦		V-Belt Drive Center Distances for Various NEMA Motor Frames											
			56, 140		180		210		250		280		320	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
M620	16.7	21.4	17.0	21.0	18.0	22.0	18.8	22.8	19.7	23.8	20.5	24.5	21.5	25.5
M624L	22.7	27.4	23.2	27.0	24.2	27.9	24.9	28.7	25.9	29.7	26.7	30.5	27.6	31.4

† Complete drive consists of reducer, CEMA drive shaft and key, and adapter assembly. Drive is shipped unassembled.

♠ AC adjustable packing adapter furnished if specified. C-style adapter is standard.

♦ Provides for V-Belt adjustment.

▲ Includes adapter, necessary mounting bolts, and seal retainer. Both lip type and braided type seals included for customer's choice of application.

★ CEMA drive shaft and key is furnished unless otherwise specified. See pages G1-120 thru G1-122 for optional drive shafts available from DODGE.

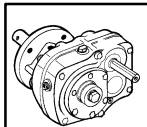
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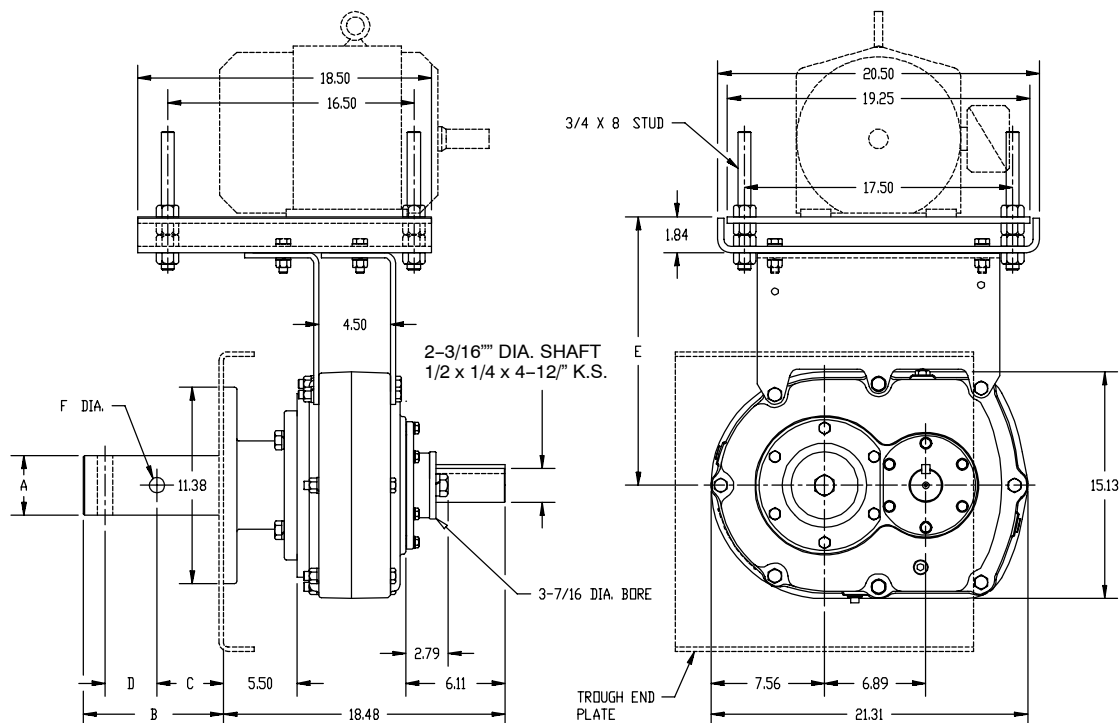
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SELECTION/DIMENSIONS



Screw Conveyor Shaft Mount Speed Reducers

SCXT605 — SINGLE REDUCTION SCREW CONVEYOR DRIVE

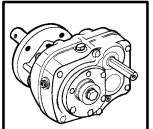


SCXT605 Screw Conveyor Drive †

Reducers				
Size	Part No.	AGMA Code	Ratio	Weight
SCXT605	356285	307S05	5.67	251

CEMA Drive Shafts ★									Adapter Assembly s		
Drive Shaft	Screw Dia.	Part No.	A	B	C	D	F Dia.	Weight	Size	Part No.	Weight
C6 x 2-7/16	12"-14"	356042	2.44	6.69	2.75	3.00	.64	47.7	C6	356055	56
C6 x 3	12"-20"	356043	3.00	6.88	2.88	3.00	.77	52.7	AC6▲	356154	56
C6 x 3-7/16	18"-24"	356044	3.44	9.13	3.88	4.00	.89	63			

SELECTION/DIMENSIONS



Screw Conveyor Shaft Mount Speed Reducers

SCXT605 — SINGLE REDUCTION SCREW CONVEYOR DRIVE

SCXT605 Accessories

Description	NEMA Motor Frame	Screw Dia.	Part No.	Weight
M620 Standard Motor Mount	140T thru 320T	12"-20"	356069	105
M624L Long Motor Mount	140T thru 320T	24"	272630	122
SCXT6-S SCD Reducer Belt Guard	140T thru 320T	—	246478	77
SCXT6-S SCD Reducer Belt Guard for Long Motor Mount	140T thru 320T	—	246142	92
SCXT605 Cooling Fan Assembly	—	—	272681	3
SCXT6 Auxiliary Seal Kit	—	—	272726	7

SCXT605 Motor Mount Assembly Dimensions

Motor Mount	E ♦		V-Belt Drive Center Distances for Various NEMA Motor Frames											
			56, 140		180		210		250		280		320	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
M620	16.7	21.4	21.1	25.1	22.1	26.1	22.8	26.8	23.8	27.9	24.6	28.6	25.6	29.6
M624L	22.7	27.4	27.2	31.1	28.2	32.1	29.0	32.8	30.0	33.8	30.7	34.6	31.7	35.5

† Complete drive consists of reducer, CEMA drive shaft and key, and adapter assembly. Drive is shipped unassembled.

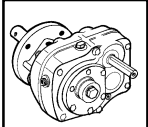
♠ AC adjustable packing adapter furnished if specified. C-style adapter is standard.

♦ Provides for V-Belt adjustment.

▲ Includes adapter, necessary mounting bolts, and seal retainer. Both lip type and braided type seals included for customer's choice of application.

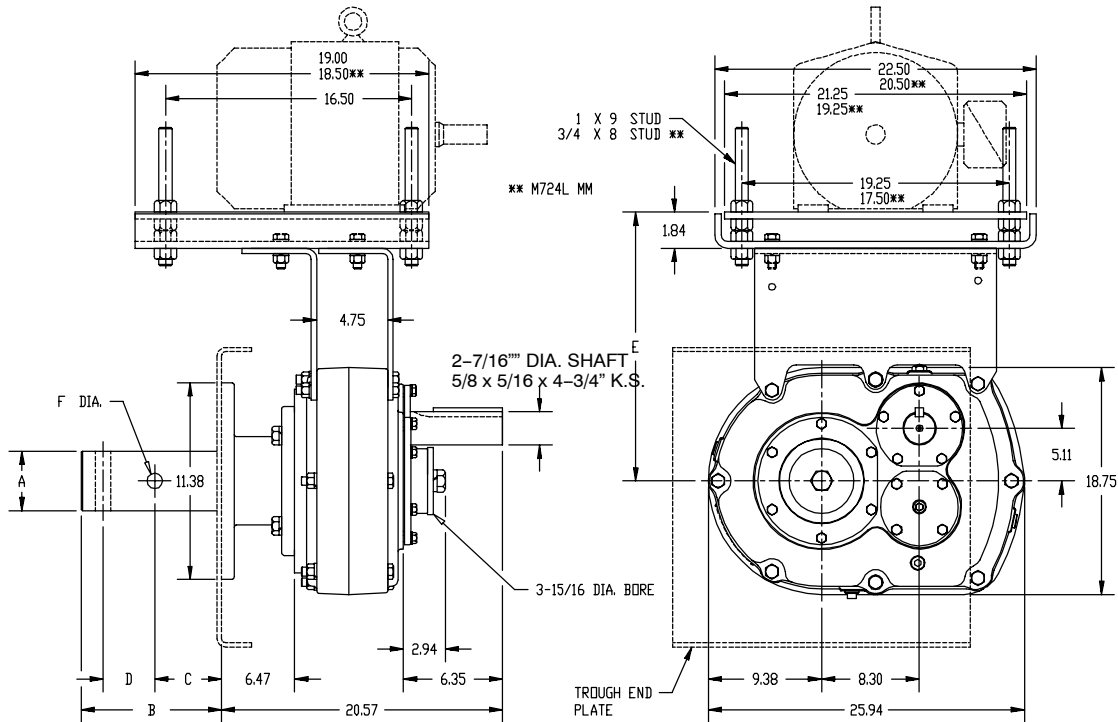
★ CEMA drive shaft and key is furnished unless otherwise specified. See pages G1-120 thru G1-122 for optional drive shafts available from DODGE.

SELECTION/DIMENSIONS



Screw Conveyor Shaft Mount Speed Reducers

SCXT7 — DOUBLE REDUCTION SCREW CONVEYOR DRIVES

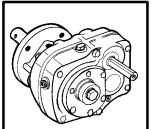


SCXT7 Screw Conveyor Drives †

Reducers				
Size	Part No.	AGMA Code	Ratio	Weight
SCXT709	247480	315D09	9.61	462
SCXT715	356256	315D15	15.23	462
SCXT725	356257	315D25	24.59	462

CEMA Drive Shafts ★									Adapter Assembly ▲		
Drive Shaft	Screw Dia.	Part No.	A	B	C	D	F Dia.	Weight	Size	Part No.	Weight
C7 x 2-7/16	12"-14"	356182	2.44	6.69	2.75	3.00	.64	58	C7	356187	72
C7 x 3	12"-20"	356183	3.00	6.88	2.88	3.00	.77	70	AC7♣	356192	72
C7 x 3-7/16	18"-24"	356184	3.44	9.13	3.88	4.00	.89	80.3			

SELECTION/DIMENSIONS



Screw Conveyor Shaft Mount Speed Reducers

SCXT7 — DOUBLE REDUCTION SCREW CONVEYOR DRIVES

SCXT7 Accessories

Description	NEMA Motor Frame	Screw Dia.	Part No.	Weight
M720 Standard Motor Mount	140T thru 360T	12"-20"	356269	106
M724L Long Motor Mount ♣	140T thru 320T	24"	272631	130
SCXT7-D SCD Reducer Belt Guard	140T thru 360T	—	247474	75
SCXT7-D SCD Reducer Belt Guard for Long Motor Mount	140T thru 320T	—	247153	90
SCXT7 Cooling Fan Assembly	—	—	272326	6
SCXT7 Auxiliary Seal Kit	—	—	272727	8

SCXT7 Motor Mount Assembly Dimensions

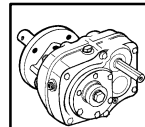
Motor Mount	E ♦		V-Belt Drive Center Distances for Various NEMA Motor Frames													
			56, 140		180		210		250		280		320		360	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
M720	17.5	21.7	17.1	20.5	18.1	21.5	18.8	22.2	19.8	23.2	20.5	24.0	21.5	25.0	22.5	26.0
M724L	23.5	27.7	22.4	26.1	23.3	27.1	24.1	27.8	25.0	28.8	25.8	29.5	26.8	30.5	---	---

- † Complete drive consists of reducer, CEMA drive shaft and key, and adapter assembly. Drive is shipped unassembled.
- ♠ AC adjustable packing adapter furnished if specified. C-style adapter is standard.
- ◆ Provides for V-Belt adjustment.

- ▲ Includes adapter, necessary mounting bolts, and seal retainer. Both lip type and braided type seals included for customer's choice of application.
- ★ CEMA drive shaft and key is furnished unless otherwise specified. See pages G1-120 thru G1-122 for optional drive shafts available from DODGE.
- ♣ Drawing dimensions are noted as **.

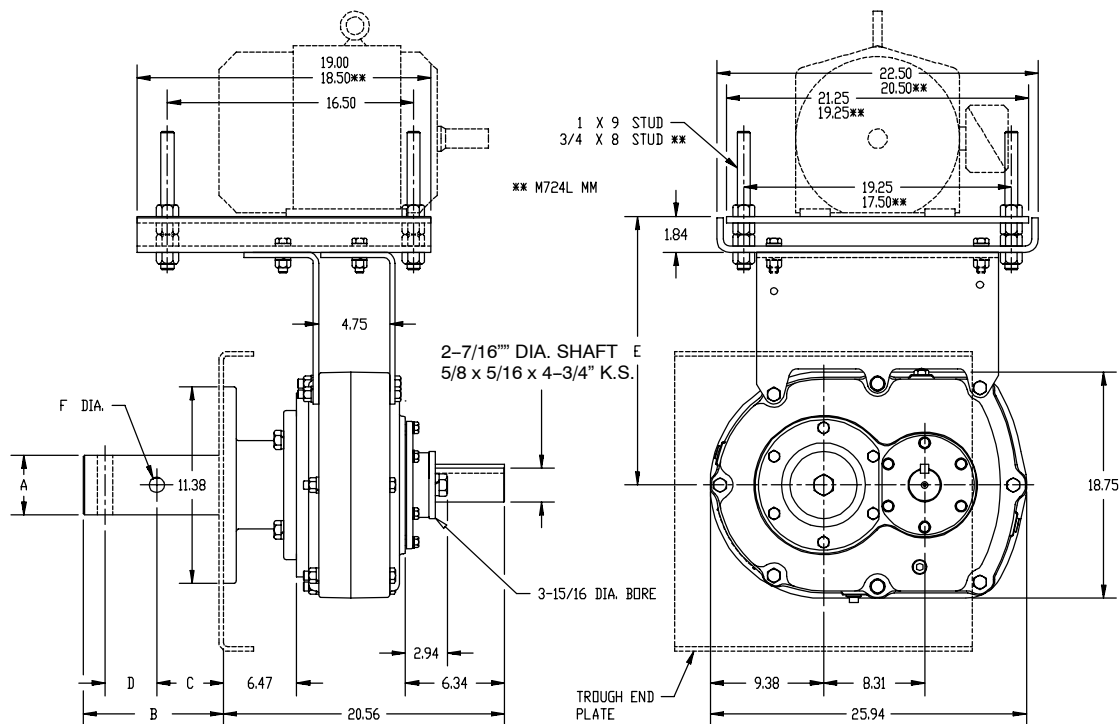
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SELECTION/DIMENSIONS



Screw Conveyor Shaft Mount Speed Reducers

SCXT705 — SINGLE REDUCTION SCREW CONVEYOR DRIVE

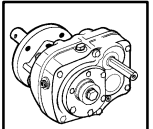


SCXT705 Screw Conveyor Drive †

Reducers				
Size	Part No.	AGMA Code	Ratio	Weight
SCXT705	356295	315S05	5.36	410

CEMA Drive Shafts ★									Adapter Assembly ▲		
Drive Shaft	Screw Dia.	Part No.	A	B	C	D	F Dia.	Weight	Size	Part No.	Weight
C7 x 2-7/16	12"-14"	356182	2.44	6.69	2.75	3.00	.64	58	C7	356187	72
C7 x 3	12"-20"	356183	3.00	6.88	2.88	3.00	.77	70	AC7▲	356192	72
C7 x 3-7/16	18"-24"	356184	3.44	9.13	3.88	4.00	.89	80.3			

SELECTION/DIMENSIONS



Screw Conveyor Shaft Mount Speed Reducers

SCXT705 — SINGLE REDUCTION SCREW CONVEYOR DRIVE

SCXT705 Accessories

Description	NEMA Motor Frame	Screw Dia.	Part No.	Weight
M720 Standard Motor Mount	140T thru 360T	12"-20"	356269	106
M724L Long Motor Mount ♣	140T thru 320T	24"	272631	130
SCXT7-S SCD Reducer Belt Guard	140T thru 360T	—	247476	84
SCXT7-S SCD Reducer Belt Guard for Long Motor Mount	140T thru 320T	—	247149	100
SCXT705 Cooling Fan Assembly	—	—	272685	6
SCXT705 Auxiliary Seal Kit	—	—	272727	8

SCXT705 Motor Mount Assembly Dimensions

Motor Mount	E ♦		V-Belt Drive Center Distances for Various NEMA Motor Frames													
			56, 140		180		210		250		280		320		360	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
M720	17.5	21.7	22.1	25.6	23.1	26.5	23.8	27.3	24.8	28.3	25.6	29.0	26.6	30.0	27.5	31.0
M724L	23.5	27.7	27.3	31.1	28.3	32.1	29.1	32.9	30.1	33.9	30.8	34.7	31.8	35.6	—	—

† Complete drive consists of reducer, CEMA drive shaft and key, and adapter assembly. Drive is shipped unassembled.

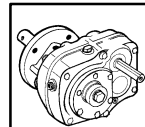
♣ AC adjustable packing adapter furnished if specified. C-style adapter is standard.

♦ Provides for V-Belt adjustment.

▲ Includes adapter, necessary mounting bolts, and seal retainer. Both lip type and braided type seals included for customer's choice of application.

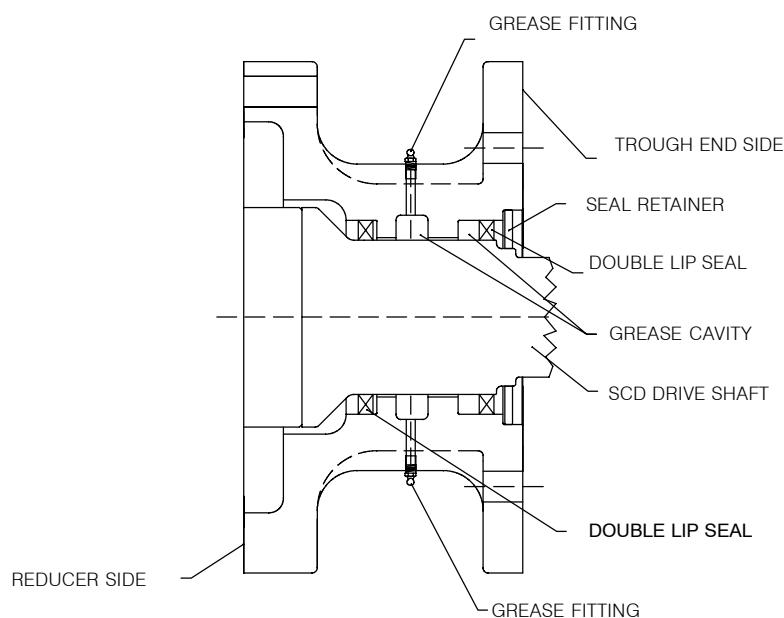
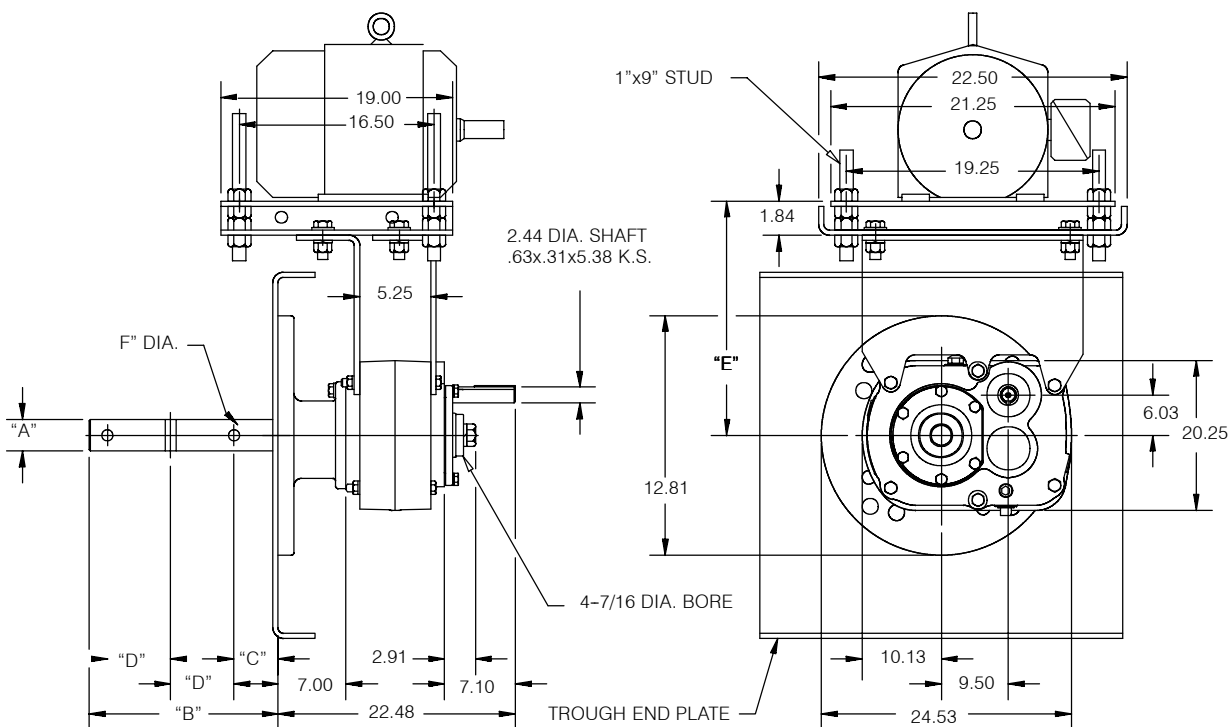
★ CEMA drive shaft and key is furnished unless otherwise specified. See pages G1-120 thru G1-122 for optional drive shafts available from DODGE.

♣ Drawing dimensions are noted as **.



Screw Conveyor Shaft Mount Speed Reducers

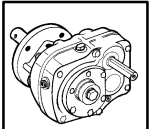
SCXT8 – DOUBLE REDUCTION SCREW CONVEYOR DRIVES



SCXT8 SCD ADAPTER

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SELECTION/DIMENSIONS



Screw Conveyor Shaft Mount Speed Reducers

SCXT8 – DOUBLE REDUCTION SCREW CONVEYOR DRIVE

SCXT8 Screw Conveyor Drive †

Reducers									
Size	Part No.	AGMA Code	Ratio	Weight					
SCXT815	248464 ♣	407D15	15.08	633					
SCXT825	248465 ♣	407D25	24.62	633					

CEMA Drive Shafts ★									Adapter Assembly ▲		
Drive Shaft	Screw Dia.	Part No.	A	B	C	D	F Dia.	Weight	Size	Part No.	Weight
C8 X 3	12" – 20"	248473 ♣	3.00	9.88	2.88	3.00	.77	88	C8 ♠	248470 ♣	90
C8 X 3–7/16	18" – 24"	248474 ♣	3.44	13.13	3.88	4.00	.89	100			

SCXT8 Accessories

Description	NEMA Motor Frame	Screw Dia.	Part No.	Weight
M824L Long Motor Mount ♣	210T thru 360T	12" – 24"	248469	163
SCXT8–D SCD Reducer Belt Guard ♣	210T thru 360T	---	248477	113
SCXT8 Cooling Fan Assembly	---	---	272327	9
SCXT8 Auxiliary Seal Kit ♣	---	---	248484	10

SCXT8 Motor Mount Assembly Dimensions

Motor Mount	E ♦		V-Belt Drive Center Distances for Various NEMA Motor Frames													
			56, 140		180		210		250		280		320		360	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
M824	22.7	28.6					23.3	28.4	24.3	29.4	25.1	30.1	26.0	31.1	27.0	32.1

† Complete drive consists of reducer, CEMA drive shaft and key, and adapter assembly. Drive is shipped unassembled.

♠ Totally enclosed (TE) adapter is standard for SCXT8 screw conveyor drive

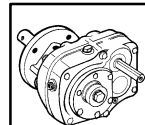
♦ Provides for V-Belt adjustment.

♣ Made to order.

▲ Includes adapter, necessary mounting bolts, and seal retainer. Both lip type and braided type seals included for customer's choice of application.

★ CEMA 3-hole drive shaft and key is furnished unless otherwise specified. See pages G1–120 thru G1–122 for optional drive shafts available from DODGE.

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Screw Conveyor Shaft Mount Speed Reducers

SCXT SCREW CONVEYOR DRIVE OPTIONAL DRIVE SHAFTS

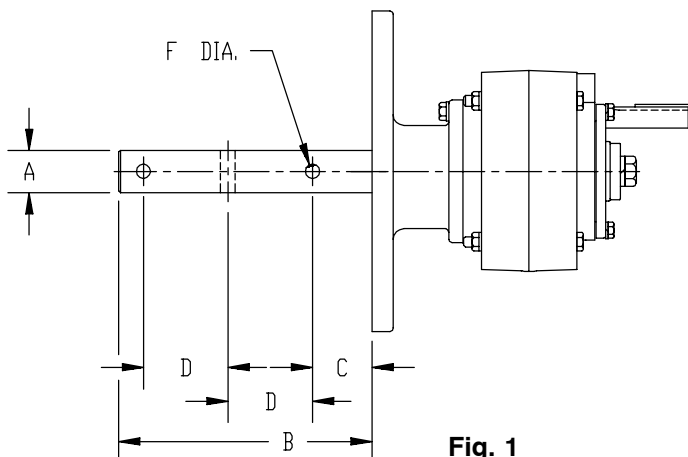


Fig. 1

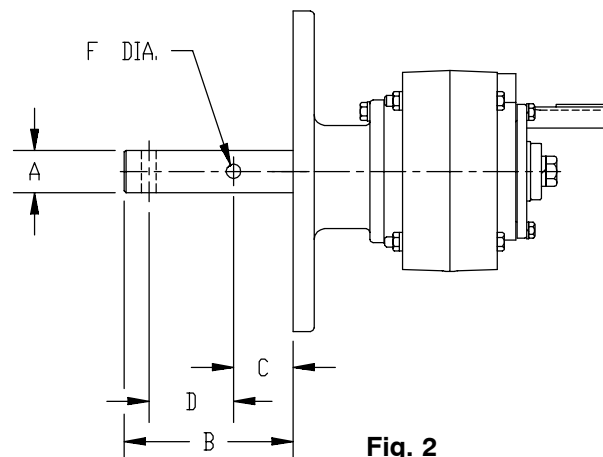


Fig. 2

SCXT1 Optional Drive Shafts

Description	Drive Shaft	Screw Dia.	Part No.	Figure	A	B	C	D	F	Weight
SCXT1 Stainless Steel *	C1 x 1-1/2	6"-9"	351147	2	1.50	6.00	2.13	3.00	.52	7.2
	C1 x 2	9"-12"	351148	2	2.00	6.00	2.13	3.00	.64	9.1
	C1 x 2-7/16	12"-14"	351149	2	2.44	6.69	2.75	3.00	.64	12.5
	C1 x 3	12"-20"	351150	2	3.00	6.88	2.88	3.00	.77	17.4
SCXT1 3-Hole Drive Shafts	C1 x 1-1/2	6"-9"	351300	1	1.50	9.00	2.13	3.00	.52	8.7
	C1 x 2	9"-12"	351301	1	2.00	9.00	2.13	3.00	.64	11.8
	C1 x 2-7/16	12"-14"	351302	1	2.44	9.69	2.75	3.00	.64	16.4
	C1 x 3	12"-20"	351303	1	3.00	9.88	2.88	3.00	.77	23.4
SCXT1 Stainless Steel *	C1 x 1-1/2	6"-9"	351025	1	1.50	9.00	2.13	3.00	.52	8.7
	C1 x 2	9"-12"	351026	1	2.00	9.00	2.13	3.00	.64	11.8
	C1 x 2-7/16	12"-14"	351027	1	2.44	9.69	2.75	3.00	.64	16.4
	C1 x 3	12"-20"	351028	1	3.00	9.88	2.88	3.00	.77	23.4
SCXT1 Short Series Drive Shafts	C1S x 1-1/2	6"-9"	351124	2	1.50	5.13	1.25	3.00	.52	6.7
	C1S x 2	9"-12"	351125	2	2.00	5.13	1.25	3.00	.64	8.3
	C1S x 2-7/16	12"-14"	351126	2	2.44	5.25	1.31	3.00	.64	10.6
	C1S x 3	12"-20"	351127	2	3.00	5.44	1.44	3.00	.77	14.4

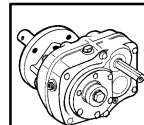
SCXT2 Optional Drive Shafts

Description	Drive Shaft	Screw Dia.	Part No.	Figure	A	B	C	D	F	Weight
SCXT2 Stainless Steel *	C2 x 1-1/2	6"-9"	352160	2	1.50	6.00	2.13	3.00	.52	11.4
	C2 x 2	9"-12"	352161	2	2.00	6.00	2.13	3.00	.64	13.8
	C2 x 2-7/16	12"-14"	352162	2	2.44	6.69	2.75	3.00	.64	17.3
	C2 x 3	12"-20"	352163	2	3.00	6.88	2.88	3.00	.77	19
SCXT2 3-Hole Drive Shafts	C2 x 1-1/2	6"-9"	351305	1	1.50	9.00	2.13	3.00	.52	12.9
	C2 x 2	9"-12"	351306	1	2.00	9.00	2.13	3.00	.64	16.5
	C2 x 2-7/16	12"-14"	351307	1	2.44	9.69	2.75	3.00	.64	21.2
	C2 x 3	12"-20"	351308	1	3.00	9.88	2.88	3.00	.77	25
SCXT2 Stainless Steel *	C2 x 1-1/2	6"-9"	352186	1	1.50	9.00	2.13	3.00	.52	12.9
	C2 x 2	9"-12"	352187	1	2.00	9.00	2.13	3.00	.64	16.5
	C2 x 2-7/16	12"-14"	352188	1	2.44	9.69	2.75	3.00	.64	21.2
	C2 x 3	12"-20"	352189	1	3.00	9.88	2.88	3.00	.77	25
SCXT2 Short Series Drive Shafts	C2S x 1-1/2	6"-9"	352124	2	1.50	5.13	1.25	3.00	.52	11
	C2S x 2	9"-12"	352125	2	2.00	5.13	1.25	3.00	.64	13
	C2S x 2-7/16	12"-14"	352126	2	2.44	5.25	1.31	3.00	.64	15.4
	C2S x 3	12"-20"	352127	2	3.00	5.44	1.44	3.00	.77	19.1

* Supplied as #316 stainless steel.

SELECTION PAGES G1-81-G1-89	DIMENSIONS PAGES G1-90-G1-117	RELATED PRODUCTS PAGES G1-144-G1-184	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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MODIFICATIONS/ ACCESSORIES



Screw Conveyor Shaft Mount Speed Reducers

SCXT3A Optional Drive Shafts

Description	Drive Shaft	Screw Dia.	Part No.	Figure	A	B	C	D	F	Weight
SCXT3A Stainless Steel * Drive Shafts	C3A x 1-1/2	9"	243446	2	1.50	6.00	2.13	3.00	.52	15
	C3A x 2	9"-12"	243447	2	2.00	6.00	2.13	3.00	.64	16
	C3A x 2-7/16	12"-14"	243448	2	2.44	6.69	2.75	3.00	.64	19.5
	C3A x 3	12"-20"	243449	2	3.00	6.88	2.88	3.00	.77	26
SCXT3A 3-Hole Drive Shafts	C3A x 1-1/2	9"	243016	1	1.50	9.00	2.13	3.00	.52	16.5
	C3A x 2	9"-12"	243017	1	2.00	9.00	2.13	3.00	.64	18.7
	C3A x 2-7/16	12"-14"	243018	1	2.44	9.69	2.75	3.00	.64	23.4
	C3A x 3	12"-20"	243019	1	3.00	9.88	2.88	3.00	.77	32
SCXT3A Stainless Steel * 3-Hole Drive Shafts	C3A x 1-1/2	9"	353180	1	1.50	9.00	2.13	3.00	.52	16.5
	C3A x 2	9"-12"	353181	1	2.00	9.00	2.13	3.00	.64	18.7
	C3A x 2-7/16	12"-14"	353182	1	2.44	9.69	2.75	3.00	.64	23.4
	C3A x 3	12"-20"	353183	1	3.00	9.88	2.88	3.00	.77	32
SCXT3A Short Series Drive Shafts	C3AS x 1-1/2	9"	243566	2	1.50	5.13	1.25	3.00	.52	13.1
	C3AS x 2	9"-12"	243567	2	2.00	5.13	1.25	3.00	.64	15.1
	C3AS x 2-7/16	12"-14"	243568	2	2.44	5.25	1.31	3.00	.64	17.6
	C3AS x 3	12"-20"	243569	2	3.00	5.44	1.44	3.00	.77	23

SCXT4A Optional Drive Shafts

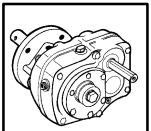
Description	Drive Shaft	Screw Dia.	Part No.	Figure	A	B	C	D	F	Weight
SCXT4A Stainless Steel * Drive Shafts	C4A x 1-1/2	9"	244680	2	1.50	6.00	2.13	3.00	.52	19
	C4A x 2	9"-12"	244681	2	2.00	6.00	2.13	3.00	.64	20.8
	C4A x 2-7/16	12"-14"	244682	2	2.44	6.69	2.75	3.00	.64	24.3
	C4A x 3	12"-20"	244683	2	3.00	6.88	2.88	3.00	.77	29.2
	C4A x 3-7/16	18"-24"	244684	2	3.44	9.13	3.88	4.00	.89	39.3
SCXT4A 3-Hole Drive Shafts	C4A x 1-1/2	9"	244494	1	1.50	9.00	2.13	3.00	.52	20.5
	C4A x 2	9"-12"	244496	1	2.00	9.00	2.13	3.00	.64	23.5
	C4A x 2-7/16	12"-14"	244497	1	2.44	9.69	2.75	3.00	.64	28.2
	C4A x 3	12"-20"	244498	1	3.00	9.88	2.88	3.00	.77	35.2
	C4A x 3-7/16	18"-24"	244499	1	3.44	14.13	3.88	4.00	.89	49.8
SCXT4A Stainless Steel * 3-Hole Drive Shafts	C4A x 1-1/2	9"	354351	1	1.50	9.00	2.13	3.00	.52	20.5
	C4A x 2	9"-12"	354352	1	2.00	9.00	2.13	3.00	.64	23.5
	C4A x 2-7/16	12"-14"	354353	1	2.44	9.69	2.75	3.00	.64	28.2
	C4A x 3	12"-20"	354354	1	3.00	9.88	2.88	3.00	.77	35.2
	C4A x 3-7/16	18"-24"	354355	1	3.44	14.13	3.88	4.00	.89	49.8
SCXT4A Short Series Drive Shafts	C4AS x 1-1/2	9"	244599	2	1.50	5.25	1.38	3.00	.52	18
	C4AS x 2	9"-12"	244600	2	2.00	5.25	1.38	3.00	.64	20.1
	C4AS x 2-7/16	12"-14"	244601	2	2.44	5.31	1.38	3.00	.64	22.5
	C4AS x 3	12"-20"	244602	2	3.00	5.44	1.44	3.00	.77	26.3
	C4AS x 3-7/16	18"-24"	244603	2	3.44	7.19	1.94	4.00	.89	34.9

SCXT5B Optional Drive Shafts

Description	Drive Shaft	Screw Dia.	Part No.	Figure	A	B	C	D	F	Weight
SCXT5B Stainless Steel * Drive Shafts	C5B x 2	9"-12"	245651	2	2.00	6.00	2.13	3.00	.64	29.4
	C5B x 2-7/16	12"-14"	245652	2	2.44	6.69	2.75	3.00	.64	33
	C5B x 3	12"-20"	245653	2	3.00	6.88	2.88	3.00	.77	37.9
	C5B x 3-7/16	18"-24"	245654	2	3.44	9.13	3.88	4.00	.89	48.3
SCXT5B 3-Hole Drive Shafts	C5B x 2	9"-12"	245474	1	2.00	9.00	2.13	3.00	.64	32.1
	C5B x 2-7/16	12"-14"	245476	1	2.44	9.69	2.75	3.00	.64	36.9
	C5B x 3	12"-20"	245477	1	3.00	9.88	2.88	3.00	.77	43.9
	C5B x 3-7/16	18"-24"	245478	1	3.44	14.13	3.88	4.00	.89	58.8
SCXT5B Stainless Steel * 3-Hole Drive Shafts	C5B x 2	9"-12"	355225	1	2.00	9.00	2.13	3.00	.64	32.1
	C5B x 2-7/16	12"-14"	355226	1	2.44	9.69	2.75	3.00	.64	36.9
	C5B x 3	12"-20"	355227	1	3.00	9.88	2.88	3.00	.77	43.9
	C5B x 3-7/16	18"-24"	355228	1	3.44	14.13	3.88	4.00	.89	58.8
SCXT5B Short Series Drive Shafts	C5BS x 2	9"-12"	355179	2	2.00	5.19	1.31	3.00	.64	28.7
	C5BS x 2-7/16	12"-14"	355180	2	2.44	5.31	1.38	3.00	.64	31.1
	C5BS x 3	12"-20"	355181	2	3.00	5.44	1.44	3.00	.77	35.1
	C5BS x 3-7/16	18"-24"	355182	2	3.44	7.19	1.94	4.00	.89	43.8

* Supplied as #316 stainless steel.

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Screw Conveyor Shaft Mount Speed Reducers

SCXT SCREW CONVEYOR DRIVE OPTIONAL DRIVE SHAFTS (CONT'D)

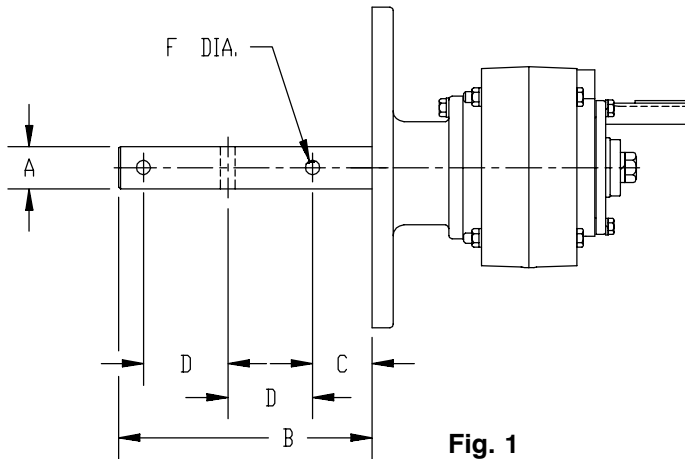


Fig. 1

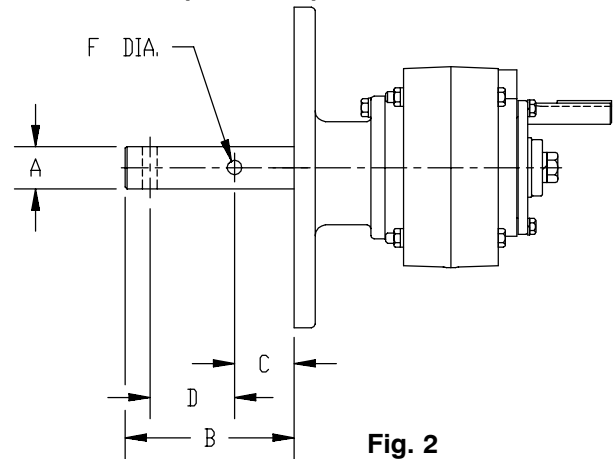


Fig. 2

SCXT6 Optional Drive Shafts

Description	Drive Shaft	Screw Dia.	Part No.	Figure	A	B	C	D	F	Weight
SCXT6 Stainless Steel * Drive Shafts	C6 x 2-7/16	12"-14"	356014	2	2.44	6.69	2.75	3.00	.64	47.7
	C6 x 3	12"-20"	356015	2	3.00	6.88	2.88	3.00	.77	52.7
	C6 x 3-7/16	18"-24"	356016	2	3.44	9.13	3.88	4.00	.89	63
SCXT6 3-Hole Drive Shafts	C6 x 2-7/16	12"-14"	351327	1	2.44	9.69	2.75	3.00	.64	51.6
	C6 x 3	12"-20"	351328	1	3.00	9.88	2.88	3.00	.77	58.7
	C6 x 3-7/16	18"-24"	351329	1	3.44	14.13	3.88	4.00	.89	73.5
SCXT6 Stainless Steel * 3-Hole Drive Shaft	C6 x 2-7/16	12"-14"	356275	1	2.44	9.69	2.75	3.00	.64	51.6
	C6 x 3	12"-20"	356276	1	3.00	9.88	2.88	3.00	.77	58.7
	C6 x 3-7/16	18"-24"	356277	1	3.44	14.13	3.88	4.00	.89	73.5
SCXT6 Short Series Drive Shafts	C6S x 2-7/16	12"-14"	356101	2	2.44	5.31	1.38	3.00	.64	45.9
	C6S x 3	12"-20"	356102	2	3.00	5.44	1.44	3.00	.77	49.8
	C6S x 3-7/16	18"-24"	356103	2	3.44	7.19	1.94	4.00	.89	58.5

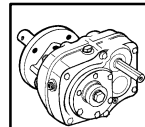
SCXT7 Optional Drive Shafts

Description	Drive Shaft	Screw Dia.	Part No.	Figure	A	B	C	D	F	Weight
SCXT7 Stainless Steel * Drive Shafts	C7 x 2-7/16	12"-14"	356240	2	2.44	6.69	2.75	3.00	.64	58
	C7 x 3	12"-20"	356241	2	3.00	6.88	2.88	3.00	.77	70
	C7 x 3-7/16	18"-24"	356242	2	3.44	9.13	3.88	4.00	.89	80.3
SCXT7 3-Hole Drive Shafts	C7 x 2-7/16	12"-14"	351332	1	2.44	9.69	2.75	3.00	.64	61.9
	C7 x 3	12"-20"	351333	1	3.00	9.88	2.88	3.00	.77	76
	C7 x 3-7/16	18"-24"	351334	1	3.44	14.13	3.88	4.00	.89	90.8
SCXT7 Stainless Steel * 3-Hole Drive Shafts	C7 x 2-7/16	12"-14"	356281	1	2.44	9.69	2.75	3.00	.64	61.9
	C7 x 3	12"-20"	356282	1	3.00	9.88	2.88	3.00	.77	76
	C7 x 3-7/16	18"-24"	356283	1	3.44	14.13	3.88	4.00	.89	90.8
SCXT7 Short Series Drive Shafts	C7S x 2-7/16	12"-14"	356235	2	2.44	5.31	1.38	3.00	.64	63.2
	C7S x 3	12"-20"	356236	2	3.00	5.44	1.44	3.00	.77	67.1
	C7S x 3-7/16	18"-24"	356237	2	3.44	7.19	1.94	4.00	.89	75.8

* Supplied as #316 stainless steel.

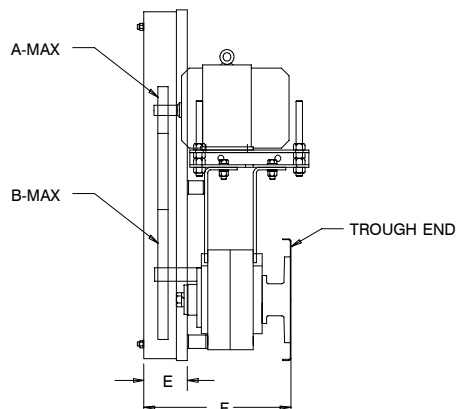
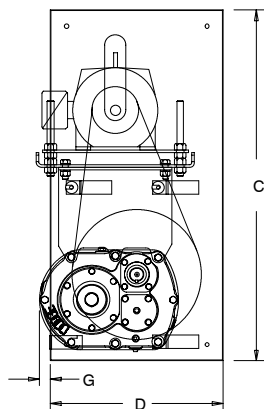
NOTE: See page G1-118 – G1-119 for dimensions and part numbers for drive shafts available for SCXT-8 Screw Conveyor Drives.

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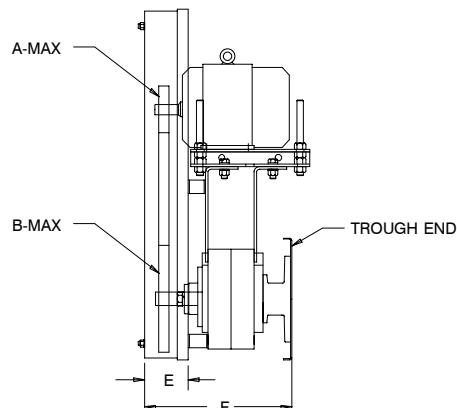
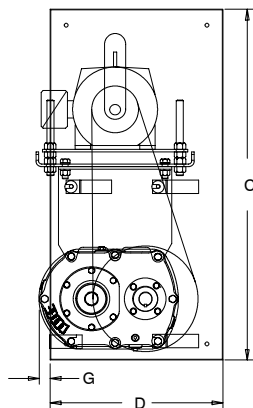
Screw Conveyor Shaft Mount Speed Reducers

SLOTTED METAL PANEL BELT GUARDS



BELT GUARDS FOR DOUBLE REDUCTION SCXT REDUCERS (9, 15, 25:1) WITH STANDARD MOTOR MOUNTS

REDUCER SIZE	BELT GUARD SIZE	PART NUMBER	MOTOR MOUNT NO.	WT.	NEMA MOTOR FRAME	CENTER DISTANCE		A	B	C	D	E	F	G
						MIN.	MAX.							
SCXT1	SCXT1D	241489	M 112L	21	56T-215T	13.5	19.0	5.0	12.0	27.5	13.0	3.50	12.50	1.00
SCXT2	SCXT2D	242489	M 214L	32	56T-215T	14.9	20.0	5.0	12.0	30.0	14.0	3.75	13.50	.875
SCXT3A	SCXT3D	243416 ▲	M 316L	40	56T-215T	15.8	22.0	6.0	14.0	32.5	16.0	4.00	14.63	1.06
SCXT4A	SCXT4D	244489	M 418L	44	143T-286T	16.9	24.5	7.0	15.0	37.0	17.0	5.00	16.75	1.78
SCXT5B	SCXT5D	245495 ▲	M 518L	45	143T-286T	16.6	25.2	7.0	15.0	37.0	18.0	4.25	18.91	3.25
SCXT6	SCXT6D	246476	M 620L	60	143T-326T	17.0	25.5	8.0	18.0	41.0	20.0	6.00	21.44	4.38
SCXT7	SCXT7D	247474	M 720L	75	143T-365T	17.1	26.0	10.0	20.0	43.0	23.0	6.00	23.53	6.25



BELT GUARDS FOR SINGLE REDUCTION SCXT REDUCERS (5:1) WITH STANDARD MOTOR MOUNTS

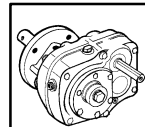
REDUCER SIZE	BELT GUARD SIZE	PART NUMBER	MOTOR MOUNT NO.	WT.	NEMA MOTOR FRAME	CENTER DISTANCE		A	B	C	D	E	F	G
						MIN.	MAX.							
SCXT105	SCXT1S	241491	M 112	30	56T-215T	15.4	20.6	5.0 ■	12.0	31.0	13.50	3.50	12.50	.38
SCXT205	SCXT2S	242491	M 214	34	56T-215T	17.0	22.2	6.0 ■	12.0	33.0	13.50	3.75	13.50	1.25
SCXT305A	SCXT3S	243418 ▲	M 316	40	56T-215T	18.2	24.4	7.0	12.0	35.0	13.50	4.00	14.63	2.38
SCXT405A	SCXT4S	244491	M 418	50	143T-286T	19.6	27.2	8.0	12.0	40.0	14.50	5.00	16.75	3.63
SCXT505A	SCXT5S	245497 ▲	M 518	70	143T-286T	19.7	28.2	8.0	12.0	40.0	14.50	5.50	18.91	5.68
SCXT605	SCXT6S	246478	M 620	77	143T-326T	21.1	29.6	10.0	16.0	45.0	18.00	6.00	21.44	5.97
SCXT705	SCXT7S	247476	M 720	84	143T-365T	22.1	31.0	10.0	16.0	45.5	19.00	6.00	23.53	9.25

■ Guard will interfere with floor when used with 6" screw unless trough is raised above floor.

▲ These belt guards do not fit the larger frame, higher H.P. motor mounts in SCXT Selection/Dimension pages.

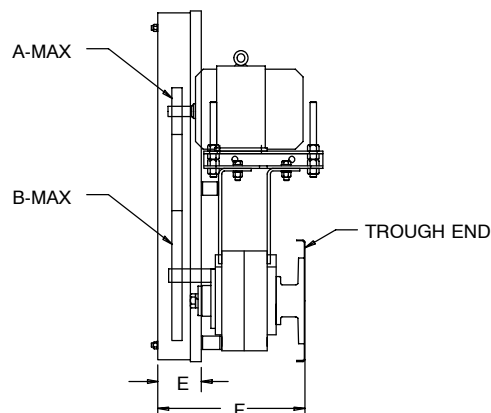
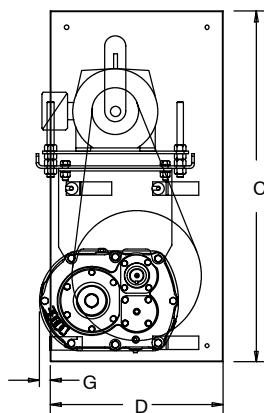
SELECTION PAGES G1-81-G1-89	DIMENSIONS PAGES G1-90-G1-117	RELATED PRODUCTS PAGES G1-144-G1-184	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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MODIFICATIONS/ ACCESSORIES



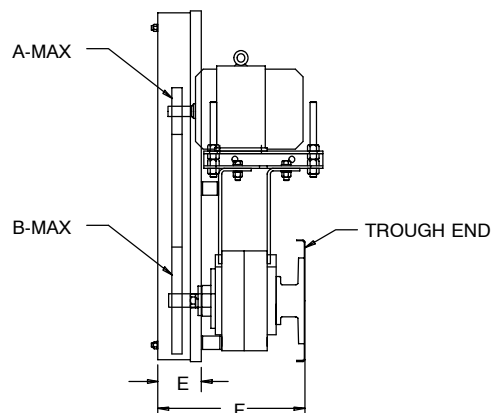
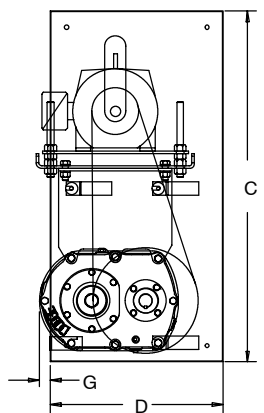
Screw Conveyor Shaft Mount Speed Reducers

SLOTTED METAL PANEL BELT GUARDS



BELT GUARDS FOR DOUBLE REDUCTION SCXT REDUCERS (9, 15, 25:1) WITH LONG MOTOR MOUNTS

REDUCER SIZE	BELT GUARD SIZE	PART NUMBER	MOTOR MOUNT NO.	WT.	NEMA MOTOR FRAME	CENTER DISTANCE		A	B	C	D	E	F	G
						MIN.	MAX.							
SCXT1	SCXT1DLMM	241149	M120L	26	56T-215T	19.5	25.0	5.0	12.0	33.5	13.0	3.50	12.50	1.00
SCXT2	SCXT2DLMM	242223	M220L	37	56T-215T	20.9	26.0	5.0	12.0	36.0	14.0	3.75	13.50	.875
SCXT3A	SCXT3DLMM	243154 ▲	M320L	45	56T-215T	21.8	27.0	6.0	14.0	38.0	16.0	4.00	14.63	1.06
SCXT4A	SCXT4DLMM	244152 ▲	M424L	50	143T-286T	23.2	30.4	7.0	15.0	43.0	17.0	5.00	16.75	1.78
SCXT5B	SCXT5DLMM	245103 ▲	M524L	52	143T-286T	22.9	30.9	7.0	15.0	43.0	18.0	4.25	18.91	3.25
SCXT6	SCXT6DLMM	246148	M624L	65	143T-326T	23.3	31.4	8.0	18.0	47.0	20.0	6.00	21.44	4.38
SCXT7	SCXT7DLMM	247153 ▲	M724L	80	143T-326T	23.2	30.5	10.0	20.0	49.0	23.0	6.00	23.53	6.25
SCXT8	SCXT8DLMM	248477 ♣	M824L	113	210T-360T	23.3	32.1	12.0	25.0	53.0	28.0	6.50	24.81	5.62



BELT GUARDS FOR SINGLE REDUCTION SCXT REDUCERS (5:1) WITH LONG MOTOR MOUNTS ♣

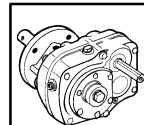
REDUCER SIZE	BELT GUARD SIZE	PART NUMBER	MOTOR MOUNT NO.	WT.	NEMA MOTOR FRAME	CENTER DISTANCE		A	B	C	D	E	F	G
						MIN.	MAX.							
SCXT105	SCXT1SLMM	241142	M120L	35	56T-215T	21.4	26.6	5.0 ■	12.0	37.0	13.50	3.50	12.50	.38
SCXT205	SCXT2SLMM	242114	M220L	40	56T-215T	23.3	28.2	6.0 ■	12.0	39.0	13.50	3.75	13.50	1.25
SCXT305A	SCXT3SLMM	243167 ▲	M320L	45	56T-215T	24.2	29.4	7.0	12.0	41.0	13.50	4.00	14.63	2.38
SCXT405A	SCXT4SLMM	244167 ▲	M424L	55	143T-286T	25.9	33.2	8.0	12.0	46.0	14.50	5.00	16.75	3.63
SCXT505A	SCXT5SLMM	245015 ▲	M524L	70	143T-286T	26.0	33.2	8.0	12.0	46.0	14.50	5.50	18.91	5.68
SCXT605	SCXT6SLMM	246142	M624L	82	143T-326T	27.4	35.5	10.0	16.0	51.0	18.00	6.00	21.44	5.97
SCXT705	SCXT7SLMM	247149	M724L	90	143T-326T	28.2	35.6	10.0	16.0	51.5	19.00	6.00	23.53	9.25

■ Guard will interfere with floor when used with 6" screw unless trough is raised above floor.

▲ These belt guards do not fit the larger frame, higher H.P. motor mounts in SCXT Selection/Dimension pages.

♣ Made to order.

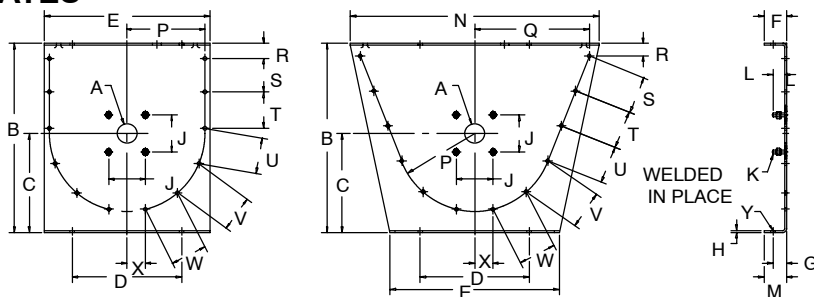
SELECTION PAGES G1-81-G1-89	DIMENSIONS PAGES G1-90-G1-117	RELATED PRODUCTS PAGES G1-144-G1-184	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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Screw Conveyor Shaft Mount Speed Reducers

SCREW CONVEYOR THROUGH END PLATES

Steel trough end plates with feet are available for use on screw conveyors. They are manufactured to conform to CEMA standard dimensions. Two styles are offered to fit either the "U" or flared flange hole patterns. Both styles use studs with the 4-bolt CEMA mounting for attaching to standard or HYDROIL Screw Conveyor Drives.



Screw Conveyor Trough End Plate

For Screw Dia.	Shaft Dia.	Trough End Plate		Part No.	Wt.	A	B	C	D *	E	F	G *	H	J	K Dia. Bolt	L	M	N
6	1-1/2	6U x 1-1/2	U-Flange	354218	7	1-5/8	10-1/8	5-5/8	8-1/8	9-3/4	1-3/4	1	3/16	4	1/2	1-17/32	1-3/4	....
		6FL x 1-1/2	Flared Flg.	354232	9		12-5/8			11-5/16								16-5/8
9	1-1/2	9U x 1-1/2	U-Flange	354219	13	1-5/8	14	7-7/8	9-3/8	13-1/2	2-5/8	1-1/2	1/4	4	1/2	1-17/32	2-5/8	....
		9FL x 1-1/2	Flared Flg.	354233	16		16-7/8			14-3/16								21-1/4
	2	9U x 2	U-Flange	354220	17	2-1/8	14			13-1/2				5-1/8	5/8	1-15/16		....
		9FL x 2	Flared Flg.	354234	21		16-7/8			14-3/16								21-1/4
12	2	12U x 2	U-Flange	354221	27	2-1/8	17-3/8	9-5/8	12-1/4	17-1/4	2-3/4	1-5/8	1/4	5-1/8	5/8	1-15/16	2-3/4	....
		12FL x 2	Flared Flg.	354235	33		19-5/8			18-1/8								26-3/8
	2-7/16	12U x 2-7/16	U-Flange	354222	27	2-9/16	17-3/8			17-1/4				5-5/8				....
		12FL x 2-7/16	Flared Flg.	354236	33		19-5/8			18-1/8								26-3/8
	3	12U x 3	U-Flange	354223	34	3-1/8	17-3/8			17-1/4				6	3/4	2-3/16		....
		12FL x 3	Flared Flg.	354237	40		19-5/8			18-1/8								26-3/8
		14U x 2-7/16	U-Flange	354224	34		20-1/8	10-7/8	13-1/2	19-1/4	2-7/8	1-5/8	5/16	5-5/8	5/8	1-15/16	2-7/8	....
		14FL x 2-7/16	Flared Flg.	354238	41		21-7/8			21-7/8								28-3/8
14	3	14U x 3	U-Flange	354225	43	3-1/8	20-1/8			21-7/8				6	3/4	2-1/8		....
		14FL x 3	Flared Flg.	354239	51		21-7/8			21-7/8								28-3/8
16	3	16U x 3	U-Flange	354226	53	3-1/8	22-5/8	12	14-7/8	22-5/8	3-1/4	2	5/8	6	3/4	2-1/8	3-1/4	....
		16FL x 3	Flared Flg.	354240	65		23-1/2			24-1/4								32-1/2
18	3	18U x 3	U-Flange	354227	81	3-1/8	25-1/2	13-3/8	16	24-1/4	3-1/4	3/8	6	3/4	2-1/8	3-1/4		....
		18FL x 3	Flared Flg.	354241*	97		25-1/2			25-13/16								36-1/2
	3-7/16	18U x 3-7/16	U-Flange	354228*	81	3-9/16	25-1/2			24-1/4				6-3/4				....
		18FL x 3-7/16	Flared Flg.	354242*	97		25-1/2			25-3/4								36-1/2
20	3	20U x 3	U-Flange	354229	97	3-1/8	28-1/2	15	19-1/4	24-1/4	3-3/4	2-1/4	3/8	6	3/4	2-1/8	3-3/4	....
		20FL x 3	Flared Flg.	354243*	117		28-1/2			27-7/32								39-1/2
	3-7/16	20U x 3-7/16	U-Flange	354230*	97	3-9/16	28-1/2			26-1/4				6-3/4				....
		20FL x 3-7/16	Flared Flg.	354244*	117		28-1/2			27-17/32								39-1/2
24	3-7/16	24U x 3-7/16	U-Flange	354231*	133	3-9/16	34-7/8	16-1/8	20	30-1/4	2-1/2	†	3/8	6-3/4	3/4	2-1/8	4-1/8	....
		24FL x 3-7/16	Flared Flg.	354245*	161		34-7/8			30-15/16								45-1/2

For Screw Dia.	Trough End Plate		Bolt Hole Pattern											Y Dia. Bolt.
	No.	Hole Pattern For	No. of Holes	Bolt Dia.	Q	R	S	T	U	V	W	X		
6	6U	U-Flange	6	3/8	4-7/16	....	1-1/32	4-1/8	....	....	....	4-1/16	2-1/32	3/8
	6FL	Flared Flg.				7-3/16	1-27/32	5-1/4	....	....	....	5-1/4		
9	9U	U-Flange	8	3/8	6-1/4	....	1-3/16	4-1/8	4-1/8	....	....	3-3/4	2-9/16	1/2
	9FL	Flared Flg.				9-21/32	1-43/64	5	5	....	....	5		
12	12U	U-Flange	8	1/2	7-15/16	....	1-1/2	5-5/16	5-3/16	....	....	4-1/16	3-7/8	5/8
	12FL	Flared Flg.				11-13/16	1-13/16	5-3/4	5-3/4	....	....	5-3/4		
14	14U	U-Flange	8	1/2	8-15/16	....	2-17/32	5-5/8	5-15/16	....	....	5-15/16	3	5/8
	14FL	Flared Flg.				12-49/64	2-1/16	5-1/8	5-1/8	....	5-1/8	5-1/8		
16	16U	U-Flange	8	5/8	10	....	2-5/8	6-3/8	6-5/8	....	....	6-5/8	3-3/4	5/8
	16FL	Flared Flg.				14-11/16	2-15/64	5-1/2	5-1/2	....	5-1/2	5-1/2		
18	18U	U-Flange	10	5/8	11	....	2-23/32	5-15/16	5-7/8	....	5-7/8	5-7/8	2-15/16	5/8
	18FL	Flared Flg.				16	2-5/8	6-3/16	6-3/16	....	6-3/16	6-3/16		
20	20U	U-Flange	10	5/8	12-3/16	....	2-25/32	6-1/4	6-11/16	....	6-11/16	6-11/16	3-11/32	3/4
	20FL	Flared Flg.				17-7/8	2-9/32	7	7	....	7	7		
24	24U	U-Flange	12	5/8	14-1/4	....	2-25/32	6-1/8	6-5/8	6-5/8	6-5/8	6-5/8	3-5/16	3/4
	24FL	Flared Flg.				20-61/64	2-5/16	6-7/8	6-7/8	6-7/8	6-7/8	6-7/8		

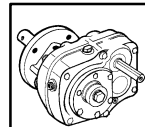
NOTE: Discontinued Items. Remaining Stock May Be Available

* Hole spacing in bottom flange also applies to top flange unless otherwise noted.

† G bottom flange = 2-1/2", in top flange = 1-5/8".

* Made to order.

SELECTION PAGES G1-81-G1-89	DIMENSIONS PAGES G1-90-G1-117	RELATED PRODUCTS PAGES G1-144-G1-184	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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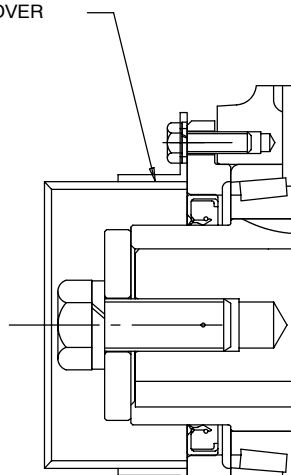
Screw Conveyor Shaft Mount Speed Reducers

AUXILIARY SEAL KIT FOR SCREW CONVEYOR DRIVE REDUCERS

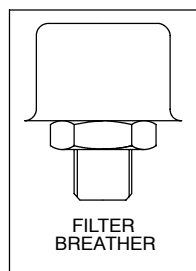
Screw conveyor drives often operate in harsh environments in which the input shaft side of the reducer ends up turning in such materials as sand, cement, saw dust and grain. These materials are very abrasive and often damage seals, bearings and gears. These damages can lead to costly repair bills and downtime. To help prevent these maintenance problems DODGE offers an Auxiliary Seal Kit to protect the input side of the reducer. The kit

contains a drive shaft end cover, special filter breather and a grease purged input seal with necessary mounting hardware. The auxiliary seals prevent contaminants from getting to the seal area and thus prevents them from entering the reducer. Use the auxiliary seal kit to get the longest possible life out of your DODGE Screw Conveyor Drive Reducer.

AUXILIARY OUTPUT COVER

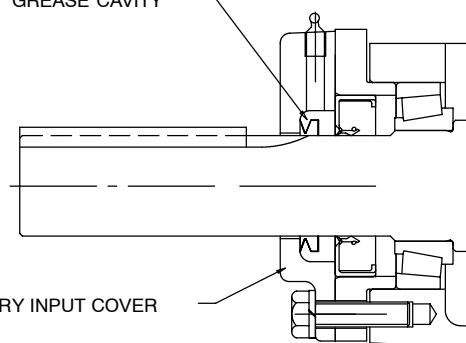


OUTPUT



FILTER
BREATHER

GREASE CAVITY



AUXILIARY INPUT COVER

INPUT

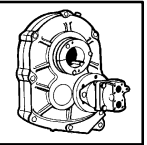
SCXT Auxiliary Seal Kits ●

Reducer Size	Nominal Ratio	Part Number	Nominal Ratio	Part Number♣
SCXT1	9, 15, 25	272721	5	251146
SCXT2	9, 15, 25	272722	5	252146
SCXT3A	9, 15, 25	243582	5	253146
SCXT4A	9, 15, 25	244677	5	254146
SCXT5A/SCXT5B	9, 15, 25	245637	5	255148
SCXT6	5, 9, 15, 25	272726	–	–
SCXT7	5, 9, 15, 25	272727	–	–
SCXT8	15,25	248484♣	–	–

♣ Made to order.

● An input auxiliary seal cannot be used on the same input shaft with a cooling fan

SELECTION PAGES G1-81-G1-89	DIMENSIONS PAGES G1-90-G1-117	RELATED PRODUCTS PAGES G1-144-G1-184	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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TORQUE-ARM Shaft Mount Speed Reducers

EASY SELECTION METHOD (FOR HYDRAULIC VANE MOTORS)

WHEN TO USE EASY SELECTION

The Easy Selection tables for HXT Shaft Mount reducers are for hydraulic motor selections up to approximately G1-53 horsepower with output speeds up to 400 RPM, using AGMA recommended application class numbers. For extreme repetitive shock loads, consult DODGE Application Engineering, (864) 288-9050.

HOW TO SELECT

Step 1: Determine Class of Service—See Table 1, page G1-15 to determine Load Classification for applications under normal conditions. Find the type application and duty cycle that most closely matches your specific application.

Class I 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 I 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 II 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 II 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 III Moderate shock loads for over 10 hours a day. Heavy shock loads are allowable during 10 hours a day.

For Class III 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.

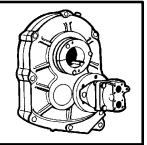
Step 2: Determine Reducer Size—See the Easy Selection Tables, pages G1-129 thru G1-136. From Selection Table I, II or III read the reducer size for the application horsepower and output speed. Also compare the reducer/motor running and starting torque, running pressure and flow rate with that required for the application. See Table 18, page G1-136 for maximum hydraulic motor starting pressure for HYDROIL Vane Motors.

Step 3: Compare Hollow Shaft Bore with the size of the driven shaft. All DODGE TORQUE-ARM Taper Bushed reducers require bushings. Refer to TXT reducer pages for available bushings. If the driven shaft is larger than the bore of the selected reducer, 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/Dimensions sections, pages G1-137 thru G1-140 for reducer dimensions, weights and part numbers. See Engineering/Technical section, pages G1-189 and G1-190 for reducer and torque-arm rod mounting positions.

Step 5: Select a HYDROIL Vane Motor—See Selection/Dimensions pages for listing of HYDROIL Vane Motors required to drive each size and ratio of HXT reducer. See page G1-143 for dimensions and part numbers. **Note: 100 RPM is minimum speed for HYDROIL Vane Motors.**

NOMENCLATURE PAGES G1-10-G1-11	EASY SELECTION PAGES G1-129-G1-136	DIMENSIONS PAGES G1-137-G1-155	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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TORQUE-ARM Shaft Mount Speed Reducers

Note: A TORQUE-ARM rod assembly is furnished with all HXT reducers, unless otherwise specified. TORQUE-ARM reducers are shipped without oil.

Ratings and selections are the same for both taper bushed and straight bore HXT reducers.

EXAMPLE: EASY SELECTION METHOD—HXT TORQUE-ARM REDUCER

A 3HP motor is used to drive the head shaft on a heavily loaded bucket elevator at 30 RPM, 16 hours per day. Head shaft diameter is 2-3/16". User wants to use a hydraulic motor as prime mover since drive is not in an easily accessible location.

Step 1: Determine Class of Service—From Table 1, page G1-15 locate "bucket elevators, heavily loaded" for over 10 hours per day. This load will be classified as a Class II application.

Step 2: Determine Reducer Size—From Table 13—Class II Application, page G1-131, find the 30 RPM output column at the top of the table. Read down to the HP rating of 3HP or greater. At 3.6HP, trace to the far left column to find that the basic reducer size for the application is an HXT3. Either an HXT315 or an HXT325 may be used, depending on the starting torque requirements.

Step 3: Compare Hollow Shaft Bore of an HXT315/325 with the application driven shaft diameter. Per page

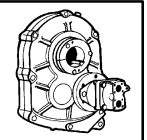
G1-137, 2-3/16" is the maximum bore available for this size reducer, so it will work in this application. Select reducer bushing from part numbers listed with TXT reducers on page G1-26. Be sure to check driven shaft and key for strength.

Step 4: Check Dimensions and Weights—See Selection/Dimensions section, page G1-137, for reducer dimensions, weights, part numbers and other pertinent drive dimensions. See Engineering/Technical section, pages G1-189 and G1-190 for information on reducer and torque-arm rod mounting positions.

Step 5: Select a HYDROIL Vane Motor—See Selection/Dimension pages G1-137. Trace from Reducer size HXT315 right to column labeled HYDROIL Motor. It must be driven by a size B30 HYDROIL Vane Motor. Likewise a reducer size HXT325 is designed to be driven by an A20 HYDROIL Vane Motor. See page G1-143 for the motor part numbers and dimensions.

NOMENCLATURE PAGES G1-10-G1-11	EASY SELECTION PAGES G1-129-G1-136	DIMENSIONS PAGES G1-137-G1-155	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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EASY SELECTION



HYDROIL TORQUE-ARM Shaft Mount Speed Reducers

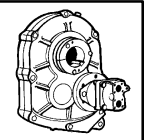
TABLE 12 — CLASS I SELECTION TABLE HXT REDUCERS - DOUBLE REDUCTION

Reducer Size	Requirements ★	Output Speed										
		10	15	20	25	30	35	40	45	50	55	60
HXT-115	OUTPUT HP(RUN)	0.6	0.9	1.2	1.4	1.7	1.9	2.2	2.4	2.7	2.9	3.1
	Running Torque	4025	3776	3651	3577	3527	3491	3465	3396	3342	3298	3260
	Starting Torque	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025
	Running Pressure	1685	1581	1529	1498	1477	1462	1451	1422	1399	1381	1365
	Flow Rate, GPM	2.0	2.3	2.7	3.0	3.4	3.8	4.1	4.5	4.9	5.2	5.6
HXT-125	OUTPUT HP(RUN)	0.5	0.8	1.1	1.3	1.6	1.9	2.2	2.4	2.7	2.9	3.1
	Running Torque	3403	3403	3403	3403	3403	3403	3403	3396	3342	3298	3260
	Starting Torque	2868	2868	2868	2868	2868	2868	2868	2868	2868	2868	2868
	Running Pressure	2000	2000	2000	2000	2000	2000	2000	1996	1964	1938	1916
	Flow Rate, GPM	1.5	1.8	2.1	2.3	2.6	2.9	3.2	3.4	3.7	3.9	4.2
HXT-215	OUTPUT HP(RUN)	0.7	1.0	1.4	1.7	2.1	2.4	2.8	3.1	3.5	3.8	4.2
	Running Torque	4387	4387	4387	4387	4387	4387	4387	4387	4387	4387	4387
	Starting Torque	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697
	Running Pressure	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
	Flow Rate, GPM	2.2	2.6	2.9	3.3	3.6	4.0	4.3	4.7	5.0	5.4	5.7
HXT-225	OUTPUT HP(RUN)	1.1	1.6	2.1	2.6	3.0	3.5	4.0	4.4	4.8	5.2	5.6
	Running Torque	7245	6824	6613	6486	6402	6342	6297	6171	6070	5988	5919
	Starting Torque	6152	6152	6152	6152	6152	6152	6152	6152	6152	6152	6152
	Running Pressure	1985	1870	1812	1777	1754	1737	1725	1691	1663	1640	1622
	Flow Rate, GPM	2.7	3.2	3.7	4.3	4.8	5.4	6.0	6.5	7.1	7.6	8.2
HXT-315A	OUTPUT HP(RUN)	1.8	2.6	3.4	4.3	5.1	5.9	6.8	7.4	8.1	8.7	9.4
	Running Torque	11098	10894	10791	10730	10689	10660	10638	10379	10171	10001	9860
	Starting Torque	17190	17190	17190	17190	17190	17190	17190	17190	17190	17190	17190
	Running Pressure	1523	1495	1481	1473	1467	1463	1460	1425	1396	1373	1353
	Flow Rate, GPM	4.6	5.7	6.9	8.0	9.2	10.3	11.5	12.6	13.7	14.8	15.9
HXT-325A	OUTPUT HP(RUN)	1.2	1.8	2.4	3.0	3.7	4.3	4.9	5.5	6.1	6.7	7.3
	Running Torque	7689	7689	7689	7689	7689	7689	7689	7689	7689	7689	7689
	Starting Torque	6479	6479	6479	6479	6479	6479	6479	6479	6479	6479	6479
	Running Pressure	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
	Flow Rate, GPM	2.7	3.4	4.0	4.6	5.2	5.8	6.4	7.0	7.6	8.3	8.9
HXT-415A	OUTPUT HP(RUN)	2.6	3.9	5.1	6.3	7.5	8.7	9.9	11.0	12.1	13.1	14.2
	Running Torque	16676	16229	16005	15871	15781	15717	15669	15424	15227	15066	14932
	Starting Torque	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479
	Running Pressure	2251	2191	2161	2142	2130	2122	2115	2082	2056	2034	2016
	Flow Rate, GPM	5.7	6.8	8.0	9.1	10.3	11.4	12.6	13.7	14.9	16.0	17.2
HXT-425A	OUTPUT HP(RUN)	2.6	3.9	5.1	6.3	7.5	8.7	9.9	11.0	12.1	13.1	14.2
	Running Torque	16676	16229	16005	15871	15781	15717	15669	15424	15227	15066	14932
	Starting Torque	28164	28164	28164	28164	28164	28164	28164	28164	28164	28164	28164
	Running Pressure	1397	1360	1341	1330	1322	1317	1313	1292	1276	1262	1251
	Flow Rate, GPM	5.9	7.7	9.6	11.5	13.4	15.3	17.2	19.0	20.9	22.8	24.7
HXT-515B	OUTPUT HP(RUN)	4.6	6.5	8.5	10.5	12.5	14.4	16.4	17.9	19.3	20.8	22.3
	Running Torque	28751	27474	26835	26451	26196	26013	25876	25046	24381	23838	23384
	Starting Torque	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924
	Running Pressure	2125	2031	1983	1955	1936	1923	1913	1851	1802	1762	1728
	Flow Rate, GPM	10.0	11.9	13.9	16.0	18.1	20.2	22.3	24.3	26.3	28.4	30.5
HXT-525B	OUTPUT HP(RUN)	4.6	6.5	8.5	10.5	12.5	14.4	16.4	17.9	19.3	20.8	22.3
	Running Torque	28751	27474	26835	26451	26196	26013	25876	25046	24381	23838	23384
	Starting Torque	29528	29528	29528	29528	29528	29528	29528	29528	29528	29528	29528
	Running Pressure	2298	2195	2144	2114	2093	2079	2068	2001	1948	1905	1869
	Flow Rate, GPM	7.4	9.3	11.2	13.1	15.1	17.1	19.0	20.9	22.8	24.8	26.7
HXT-615	OUTPUT HP(RUN)	5.3	8.0	10.7	13.4	16.0	18.7	21.4	24.0	26.7	29.4	32.1
	Running Torque	33671	33671	33671	33671	33671	33671	33671	33671	33671	33671	33671
	Starting Torque	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779
	Running Pressure	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500
	Flow Rate, GPM	11.0	13.1	15.3	17.4	19.5	21.7	23.8	26.0	28.1	30.3	32.4
HXT-625	OUTPUT HP(RUN)	7.2	10.4	13.7	16.9	20.1	23.3	26.6	29.1	31.6	34.1	36.6
	Running Torque	45427	43830	43031	42552	42233	42004	41833	40699	39792	39050	38431
	Starting Torque	52094	52094	52094	52094	52094	52094	52094	52094	52094	52094	52094
	Running Pressure	2058	1985	1949	1927	1913	1903	1895	1843	1802	1769	1741
	Flow Rate, GPM	12.5	15.8	19.3	22.7	26.2	29.7	33.2	36.6	40.0	43.4	46.8
HXT-715	OUTPUT HP(RUN)	9.6	14.4	19.2	23.8	28.3	32.9	37.4	41.4	45.3	49.3	53.2
	Running Torque	60533	60533	60533	59918	59483	59173	58940	57937	57135	56478	55931
	Starting Torque	57132	57132	57132	57132	57132	57132	57132	57132	57132	57132	57132
	Running Pressure	2500	2500	2500	2475	2457	2444	2434	2393	2360	2333	2310
	Flow Rate, GPM	12.7	16.6	20.4	24.2	28.0	31.9	35.7	39.5	43.3	47.1	50.9
HXT-725	OUTPUT HP(RUN)	8.6	12.9	17.1	21.4	25.7	30.0	34.3	38.6	42.8	47.1	51.4
	Running Torque	54009	54009	54009	54009	54009	54009	54009	54009	54009	54009	54009
	Starting Torque	50975	50975	50975	50975	50975	50975	50975	50975	50975	50975	50975
	Running Pressure	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500
	Flow Rate, GPM	13.6	17.0	20.4	23.9	27.3	30.7	34.2	37.6	41.1	44.5	47.9

★ See page G1-136 for definition of requirements.

NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-127-G1-128	DIMENSIONS PAGES G1-137-G1-143	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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EASY SELECTION

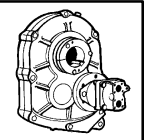


HYDROIL TORQUE-ARM Shaft Mount Speed Reducers

TABLE 12 — CLASS I SELECTION TABLE HXT REDUCERS - DOUBLE REDUCTION (CONT'D)

Reducer Size	Output Speed															
	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
HXT-115	3.3	3.6	3.8	4.0	4.2	4.5	4.7	4.9	5.1	5.3	5.5	5.7	5.9	6.1	6.3	6.5
	3229	3202	3179	3158	3140	3124	3099	3076	3056	3037	3020	3005	2983	2964	2945	2929
	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025
	1352	1341	1331	1322	1315	1308	1298	1288	1280	1272	1265	1258	1249	1241	1233	1226
HXT-125	6.0	6.3	6.7	7.1	7.5	7.8	8.2	8.6	9.0	9.3	9.7	10.1	10.5	10.8	11.2	11.6
	3.3	3.6	3.8	4.0	4.2											
	3229	3202	3179	3158	3140											
	2868	2868	2868	2868	2868											
HXT-215	1898	1882	1868	1856	1845											
	4.5	4.7	5.0	5.2	5.5											
	4.5	4.9	5.2	5.6	5.9	6.3	6.6	7.0	7.3	7.7	8.0	8.4	8.7	9.0	9.4	9.7
	4387	4387	4387	4387	4387	4387	4387	4387	4387	4387	4387	4387	4387	4387	4387	4387
HXT-225	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697
	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
	6.1	6.4	6.8	7.1	7.5	7.8	8.2	8.5	8.9	9.2	9.6	9.9	10.3	10.6	11.0	11.3
	6.0	6.5	6.9	7.3	7.7											
HXT-315A	5861	5811	5768	5730	5697											
	6152	6152	6152	6152	6152											
	1606	1592	1580	1570	1561											
	8.8	9.3	9.9	10.5	11.1											
HXT-325A	10.0	10.7	11.4	12.0	12.7	13.3	13.8	14.3	14.8	15.3	15.8	15.9	15.7	15.5	15.2	15.0
	9740	9637	9549	9471	9402	9341	9172	9020	8883	8758	8644	8351	7916	7515	7096	6753
	17190	17190	17190	17190	17190	17190	17190	17190	17190	17190	17190	17078	16862	16663	16478	16306
	1337	1323	1311	1300	1291	1282	1259	1238	1219	1202	1186	1146	1087	1031	974	927
HXT-415A	17.1	18.2	19.4	20.5	21.7	22.8	23.9	25.1	26.2	27.3	28.5	29.6	30.6	31.7	32.8	33.9
	7.9	8.5	9.1	9.8	10.4											
	7689	7689	7689	7689	7689											
	6479	6479	6479	6479	6479											
HXT-425A	2000	2000	2000	2000	2000											
	9.5	10.1	10.7	11.3	11.9											
	15.3	16.3	17.4	18.5	19.6	20.6	21.5	22.0	21.5	21.0	20.5	20.0	19.5	19.0	18.5	18.0
	14818	14721	14636	14563	14497	14440	14295	13866	12905	12032	11235	10504	9832	9211	8637	8103
HXT-515B	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479
	2000	1987	1976	1966	1957	1949	1930	1872	1742	1624	1517	1418	1327	1244	1166	1094
	18.3	19.5	20.7	21.8	23.0	24.1	25.3	26.4	27.4	28.4	29.4	30.4	31.5	32.5	33.6	34.7
	15.3	16.3	17.4	18.5	19.6											
HXT-525B	14818	14721	14636	14563	14497											
	28164	28164	28164	28164	28164											
	1241	1233	1226	1220	1215											
	26.6	28.5	30.3	32.2	34.1											
HXT-615	23.7	24.8	24.2	23.5	22.9	22.3	21.7	21.1	20.5	19.8	19.2	18.6	18.0			
	23001	22329	20336	18514	16980	15616	14396	13298	12305	11345	10522	9769	9076			
	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924			
	1700	1650	1503	1368	1255	1154	1064	983	909	838	778	722	671			
HXT-715	32.5	34.6	36.3	38.1	40.0	41.8	43.8	45.7	47.7	49.6	51.6	53.6	55.6			
	23.7	24.8	24.2	23.5												
	23001	22329	20336	18514												
	29528	29528	29528	29528												
HXT-725	1838	1784	1625	1479												
	28.7	30.6	32.3	34.1												
	34.7	37.4	39.6	37.6	35.7	33.7	31.8	29.8	27.8	25.9	23.9	22.0	20.0			
	33671	33671	33277	29622	26471	23599	21097	18781	16687	14840	13098	11555	10084			
HXT-825	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779			
	2500	2500	2471	2199	1965	1752	1566	1395	1239	1102	973	858	749			
	34.5	36.7	38.8	40.2	41.7	43.3	44.9	46.6	48.3	50.1	51.9	53.7	55.6			
	39.1	41.5	39.6	37.6												
HXT-925	37908	37365	33277	29622												
	52094	52094	52094	52094												
	1717	1692	1507	1342												
	50.3	53.7	56.7	59.8												
HXT-1025	57.2	55.6	53.5	51.4	49.3	47.2	45.0	43.0	41.0	39.0	37.0	35.0				
	55468	50060	44958	40494	36555	33053	29854	27101	24610	22345	20278	18382				
	57132	57132	57132	57132	57132	57132	57132	57132	57132	57132	57132	57132				
	2291	2067	1857	1672	1510	1365	1233	1119	1016	923	837	759				
HXT-1125	54.7	58.1	61.5	65.0	68.5	72.1	75.7	79.3	83.0	86.6	90.3	94.0				
	55.7	55.6	53.5													
	54009	50060	44958													
	50975	50975	50975													
HXT-1225	2500	2317	2081													
	51.4	54.3	57.1													

NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-127-G1-128	DIMENSIONS PAGES G1-137-G1-143	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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HYDROIL TORQUE-ARM Shaft Mount Speed Reducers

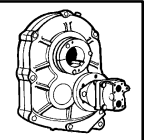
TABLE 13 — CLASS II SELECTION TABLE HXT REDUCERS - DOUBLE REDUCTION

Reducer Size	Requirements ★	Output Speed										
		10	15	20	25	30	35	40	45	50	55	60
HXT-115	OUTPUT HP(RUN)	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.7	1.9	2.1	2.2
	Running Torque	2875	2697	2608	2555	2519	2494	2475	2426	2387	2355	2329
	Starting Torque	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025
	Running Pressure	1204	1129	1092	1070	1055	1044	1036	1016	1000	986	975
	Flow Rate, GPM	1.7	2.0	2.4	2.7	3.1	3.5	3.8	4.2	4.6	4.9	5.3
HXT-125	OUTPUT HP(RUN)	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.7	1.9	2.1	2.2
	Running Torque	2875	2697	2608	2555	2519	2494	2475	2426	2387	2355	2329
	Starting Torque	2868	2868	2868	2868	2868	2868	2868	2868	2868	2868	2868
	Running Pressure	1690	1585	1533	1501	1480	1465	1454	1426	1403	1384	1369
	Flow Rate, GPM	1.4	1.6	1.8	2.1	2.4	2.6	2.9	3.1	3.4	3.7	3.9
HXT-215	OUTPUT HP(RUN)	0.7	1.0	1.4	1.7	2.1	2.4	2.8	3.1	3.4	3.7	4.0
	Running Torque	4387	4387	4387	4387	4387	4387	4387	4387	4336	4277	4228
	Starting Torque	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697
	Running Pressure	2000	2000	2000	2000	2000	2000	2000	2000	1976	1950	1927
	Flow Rate, GPM	2.2	2.6	2.9	3.3	3.6	4.0	4.3	4.7	5.0	5.3	5.7
HXT-225	OUTPUT HP(RUN)	0.8	1.2	1.5	1.8	2.2	2.5	2.9	3.1	3.4	3.7	4.0
	Running Torque	5175	4874	4723	4633	4573	4530	4498	4408	4336	4277	4228
	Starting Torque	6152	6152	6152	6152	6152	6152	6152	6152	6152	6152	6152
	Running Pressure	1418	1335	1294	1269	1253	1241	1232	1208	1188	1172	1158
	Flow Rate, GPM	2.2	2.8	3.3	3.9	4.4	5.0	5.6	6.2	6.7	7.3	7.9
HXT-315A	OUTPUT HP(RUN)	1.3	1.9	2.4	3.0	3.6	4.2	4.8	5.3	5.8	6.2	6.7
	Running Torque	7927	7781	7708	7664	7635	7614	7599	7413	7265	7144	7043
	Starting Torque	17190	17190	17190	17190	17190	17190	17190	17190	17190	17190	17190
	Running Pressure	1088	1068	1058	1052	1048	1045	1043	1018	997	981	967
	Flow Rate, GPM	4.0	5.1	6.2	7.4	8.5	9.7	10.8	12.0	13.1	14.2	15.4
HXT-325A	OUTPUT HP(RUN)	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.3	5.8	6.2	6.7
	Running Torque	7689	7689	7689	7664	7635	7614	7599	7413	7265	7144	7043
	Starting Torque	6479	6479	6479	6479	6479	6479	6479	6479	6479	6479	6479
	Running Pressure	2000	2000	2000	1994	1986	1981	1977	1928	1890	1858	1832
	Flow Rate, GPM	2.7	3.4	4.0	4.6	5.2	5.8	6.4	7.0	7.6	8.1	8.7
HXT-415A	OUTPUT HP(RUN)	1.9	2.8	3.6	4.5	5.4	6.2	7.1	7.9	8.6	9.4	10.2
	Running Torque	11911	11592	11432	11336	11272	11227	11192	11017	10876	10761	10665
	Starting Torque	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479
	Running Pressure	1608	1565	1543	1530	1522	1516	1511	1487	1468	1453	1440
	Flow Rate, GPM	4.8	5.9	7.0	8.2	9.4	10.5	11.7	12.8	14.0	15.2	16.3
HXT-425A	OUTPUT HP(RUN)	1.9	2.8	3.6	4.5	5.4	6.2	7.1	7.9	8.6	9.4	10.2
	Running Torque	11911	11592	11432	11336	11272	11227	11192	11017	10876	10761	10665
	Starting Torque	28164	28164	28164	28164	28164	28164	28164	28164	28164	28164	28164
	Running Pressure	998	971	958	950	944	941	938	923	911	902	894
	Flow Rate, GPM	5.3	7.2	9.0	10.9	12.8	14.7	16.6	18.5	20.4	22.3	24.1
HXT-515B	OUTPUT HP(RUN)	3.3	4.7	6.1	7.5	8.9	10.3	11.7	12.8	13.8	14.9	15.9
	Running Torque	20537	19624	19168	18894	18711	18581	18483	17890	17415	17027	16703
	Starting Torque	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924
	Running Pressure	1518	1450	1417	1396	1383	1373	1366	1322	1287	1258	1235
	Flow Rate, GPM	8.4	10.3	12.4	14.5	16.6	18.7	20.9	22.9	25.0	27.1	29.1
HXT-525B	OUTPUT HP(RUN)	3.3	4.7	6.1	7.5	8.9	10.3	11.7	12.8	13.8	14.9	15.9
	Running Torque	20537	19624	19168	18894	18711	18581	18483	17890	17415	17027	16703
	Starting Torque	29528	29528	29528	29528	29528	29528	29528	29528	29528	29528	29528
	Running Pressure	1641	1568	1532	1510	1495	1485	1477	1430	1392	1361	1335
	Flow Rate, GPM	6.4	8.3	10.3	12.2	14.2	16.2	18.2	20.1	22.0	24.0	25.9
HXT-615	OUTPUT HP(RUN)	5.1	7.5	9.8	12.1	14.4	16.7	19.0	20.8	22.5	24.3	26.1
	Running Torque	32448	31307	30737	30394	30166	30003	29881	29071	28423	27893	27451
	Starting Torque	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779
	Running Pressure	2409	2325	2282	2257	2240	2228	2219	2158	2110	2071	2038
	Flow Rate, GPM	10.7	12.6	14.7	16.7	18.8	21.0	23.1	25.1	27.1	29.1	31.2
HXT-625	OUTPUT HP(RUN)	5.1	7.5	9.8	12.1	14.4	16.7	19.0	20.8	22.5	24.3	26.1
	Running Torque	32448	31307	30737	30394	30166	30003	29881	29071	28423	27893	27451
	Starting Torque	52094	52094	52094	52094	52094	52094	52094	52094	52094	52094	52094
	Running Pressure	1470	1418	1392	1377	1366	1359	1353	1317	1287	1263	1243
	Flow Rate, GPM	11.0	14.3	17.8	21.3	24.7	28.2	31.7	35.1	38.6	42.0	45.5
HXT-715	OUTPUT HP(RUN)	7.2	10.5	13.7	17.0	20.2	23.5	26.7	29.5	32.4	35.2	38.0
	Running Torque	45591	44040	43264	42798	42488	42266	42100	41384	40811	40342	39951
	Starting Torque	57132	57132	57132	57132	57132	57132	57132	57132	57132	57132	57132
	Running Pressure	1883	1819	1787	1768	1755	1746	1739	1709	1685	1666	1650
	Flow Rate, GPM	11.5	15.2	19.0	22.8	26.6	30.5	34.3	38.1	41.9	45.7	49.5
HXT-725	OUTPUT HP(RUN)	7.2	10.5	13.7	17.0	20.2	23.5	26.7	29.5	32.4	35.2	38.0
	Running Torque	45591	44040	43264	42798	42488	42266	42100	41384	40811	40342	39951
	Starting Torque	50975	50975	50975	50975	50975	50975	50975	50975	50975	50975	50975
	Running Pressure	2110	2039	2003	1981	1967	1956	1949	1916	1889	1867	1849
	Flow Rate, GPM	12.5	15.8	19.1	22.5	25.9	29.3	32.7	36.1	39.4	42.8	46.2

★ See page G1-136 for definition of requirements.

NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-127-G1-128	DIMENSIONS PAGES G1-137-G1-143	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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EASY SELECTION

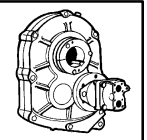


HYDROIL TORQUE-ARM Shaft Mount Speed Reducers

TABLE 13 — CLASS II SELECTION TABLE HXT REDUCERS - DOUBLE REDUCTION (CONT'D)

Reducer Size	Output Speed															
	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
	2.4	2.5	2.7	2.9	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	4.5	4.6
HXT-115	2306	2287	2271	2256	2243	2232	2214	2197	2183	2169	2157	2146	2131	2117	2104	2092
	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025
	966	958	951	945	939	934	927	920	914	908	903	899	892	886	881	876
	5.7	6.1	6.4	6.8	7.2	7.6	7.9	8.3	8.7	9.1	9.4	9.8	10.2	10.6	10.9	11.3
HXT-125	2.4	2.5	2.7	2.9	3.0											
	2306	2287	2271	2256	2243											
	2868	2868	2868	2868	2868											
	1355	1344	1334	1326	1318											
	4.2	4.5	4.7	5.0	5.3											
HXT-215	4.3	4.6	4.9	5.2	5.5	5.8	6.0	6.3	6.6	6.8	7.1	7.4	7.6	7.9	8.2	8.4
	4186	4151	4120	4093	4069	4048	4010	3976	3945	3917	3891	3868	3847	3828	3810	3793
	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697
	1908	1892	1878	1866	1855	1845	1828	1812	1798	1786	1774	1763	1754	1745	1737	1729
	6.0	6.3	6.7	7.0	7.4	7.7	8.0	8.4	8.7	9.0	9.4	9.7	10.1	10.4	10.8	11.1
HXT-225	4.3	4.6	4.9	5.2	5.5											
	4186	4151	4120	4093	4069											
	6152	6152	6152	6152	6152											
	1147	1137	1129	1121	1115											
	8.4	9.0	9.6	10.2	10.7											
HXT-315A	7.2	7.6	8.1	8.6	9.1	9.5	9.9	10.2	10.6	10.9	11.3	11.6	11.9	12.3	12.6	12.9
	6957	6884	6820	6765	6716	6672	6552	6443	6345	6256	6174	6099	6022	5951	5885	5824
	17190	17190	17190	17190	17190	17190	17190	17190	17190	17190	17190	17078	16862	16663	16478	16306
	955	945	936	929	922	916	899	884	871	859	847	837	827	817	808	799
	16.5	17.7	18.8	20.0	21.1	22.2	23.4	24.5	25.7	26.8	27.9	29.1	30.2	31.4	32.5	33.7
HXT-325A	7.2	7.6	8.1	8.6	9.1											
	6957	6884	6820	6765	6716											
	6479	6479	6479	6479	6479											
	1810	1791	1774	1760	1747											
	9.3	9.9	10.5	11.1	11.7											
HXT-415A	10.9	11.7	12.4	13.2	14.0	14.7	15.4	16.1	16.7	17.4	18.0	18.7	19.2	19.0	18.5	18.0
	10584	10515	10455	10402	10355	10314	10211	10118	10034	9957	9887	9823	9693	9211	8637	8103
	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479
	1429	1419	1411	1404	1398	1392	1378	1366	1355	1344	1335	1326	1309	1244	1166	1094
	17.5	18.6	19.8	21.0	22.1	23.3	24.5	25.6	26.8	28.0	29.1	30.3	31.4	32.5	33.6	34.7
HXT-425A	10.9	11.7	12.4	13.2	14.0											
	10584	10515	10455	10402	10355											
	28164	28164	28164	28164	28164											
	887	881	876	871	868											
	26.0	27.9	29.8	31.7	33.6											
HXT-515B	16.9	18.0	19.0	20.1	21.1	22.2	21.7	21.1	20.5	19.8	19.2	18.6	18.0			
	16429	16195	15991	15813	15656	15517	14396	13298	12305	11344	10522	9769	9076			
	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924			
	1214	1197	1182	1169	1157	1147	1064	983	909	838	778	722	671			
	31.2	33.3	35.5	37.6	39.7	41.8	43.8	45.7	47.7	49.6	51.6	53.6	55.6			
HXT-525B	16.9	18.0	19.0	20.1												
	16429	16195	15991	15813												
	29528	29528	29528	29528												
	1313	1294	1278	1264												
	27.9	29.8	31.8	33.8												
HXT-615	27.9	29.7	31.5	33.3	35.1	33.7	31.8	29.8	27.8	25.9	23.9	22.0	20.0			
	27077	26756	26479	26236	26021	23599	21097	18781	16687	14840	13098	11555	10084			
	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779			
	2010	1987	1966	1948	1932	1752	1566	1395	1239	1102	973	858	749			
	33.2	35.3	37.4	39.5	41.6	43.3	44.9	46.6	48.3	50.1	51.9	53.7	55.6			
HXT-625	27.9	29.7	31.5	33.3												
	27077	26756	26479	26236												
	52094	52094	52094	52094												
	1226	1212	1199	1188												
	49.0	52.4	55.9	59.4												
HXT-715	40.9	43.7	46.5	49.3	49.3	47.2	45.0	43.0	41.0	39.0	37.0	35.0				
	39620	39337	39091	38876	36555	33053	29854	27101	24610	22345	20278	18382				
	57132	57132	57132	57132	57132	57132	57132	57132	57132	57132	57132	57132				
	1636	1625	1614	1606	1510	1365	1233	1119	1016	923	837	759				
	53.4	57.2	61.0	64.9	68.5	72.1	75.7	79.3	83.0	86.6	90.3	94.0				
HXT-725	40.9	43.7	46.5													
	39620	39337	39091													
	50975	50975	50975													
	1834	1821	1809													
	49.6	53.0	56.4													

NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-127-G1-128	DIMENSIONS PAGES G1-137-G1-143	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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HYDROIL TORQUE-ARM Shaft Mount Speed Reducers

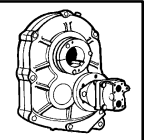
TABLE 14 — CLASS III SELECTION TABLE HXT REDUCERS - DOUBLE REDUCTION

Reducer Size	Requirements ★	Output Speed										
		10	15	20	25	30	35	40	45	50	55	60
HXT-115	OUTPUT HP(RUN)	0.3	0.4	0.6	0.7	0.8	1.0	1.1	1.2	1.3	1.4	1.6
	Running Torque	2013	1888	1826	1788	1763	1746	1732	1698	1671	1649	1630
	Starting Torque	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025
	Running Pressure	843	791	764	749	738	731	725	711	700	690	683
	Flow Rate, GPM	1.4	1.7	2.1	2.5	2.8	3.2	3.6	4.0	4.3	4.7	5.1
HXT-125	OUTPUT HP(RUN)	0.3	0.4	0.6	0.7	0.8	1.0	1.1	1.2	1.3	1.4	1.6
	Running Torque	2013	1888	1826	1788	1763	1746	1732	1698	1671	1649	1630
	Starting Torque	2868	2868	2868	2868	2868	2868	2868	2868	2868	2868	2868
	Running Pressure	1183	1110	1073	1051	1036	1026	1018	998	982	969	958
	Flow Rate, GPM	1.1	1.4	1.6	1.9	2.1	2.4	2.7	2.9	3.2	3.5	3.7
HXT-215	OUTPUT HP(RUN)	0.6	0.8	1.0	1.3	1.5	1.8	2.0	2.2	2.4	2.6	2.8
	Running Torque	3623	3412	3306	3243	3201	3171	3148	3085	3035	2994	2959
	Starting Torque	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697
	Running Pressure	1651	1555	1507	1478	1459	1445	1435	1406	1383	1365	1349
	Flow Rate, GPM	2.0	2.2	2.5	2.9	3.2	3.5	3.9	4.2	4.5	4.9	5.2
HXT-225	OUTPUT HP(RUN)	0.6	0.8	1.0	1.3	1.5	1.8	2.0	2.2	2.4	2.6	2.8
	Running Torque	3623	3412	3306	3243	3201	3171	3148	3085	3035	2994	2959
	Starting Torque	6152	6152	6152	6152	6152	6152	6152	6152	6152	6152	6152
	Running Pressure	993	935	906	889	877	869	863	845	832	820	811
	Flow Rate, GPM	1.9	2.5	3.0	3.6	4.2	4.7	5.3	5.9	6.4	7.0	7.6
HXT-315A	OUTPUT HP(RUN)	0.9	1.3	1.7	2.1	2.5	3.0	3.4	3.7	4.0	4.4	4.7
	Running Torque	5549	5447	5396	5365	5345	5330	5319	5189	5086	5001	4930
	Starting Torque	17190	17190	17190	17190	17190	17190	17190	17190	17190	17190	17190
	Running Pressure	762	748	741	736	734	732	730	712	698	686	677
	Flow Rate, GPM	3.5	4.6	5.8	6.9	8.1	9.2	10.4	11.5	12.6	13.8	14.9
HXT-325A	OUTPUT HP(RUN)	0.9	1.3	1.7	2.1	2.5	3.0	3.4	3.7	4.0	4.4	4.7
	Running Torque	5549	5447	5396	5365	5345	5330	5319	5189	5086	5001	4930
	Starting Torque	6479	6479	6479	6479	6479	6479	6479	6479	6479	6479	6479
	Running Pressure	1443	1417	1403	1396	1390	1386	1384	1350	1323	1301	1282
	Flow Rate, GPM	2.3	2.9	3.5	4.1	4.7	5.3	6.0	6.5	7.1	7.7	8.3
HXT-415A	OUTPUT HP(RUN)	1.3	1.9	2.5	3.1	3.8	4.4	5.0	5.5	6.0	6.6	7.1
	Running Torque	8338	8114	8002	7935	7891	7859	7835	7712	7613	7533	7466
	Starting Torque	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479
	Running Pressure	1126	1095	1080	1071	1065	1061	1058	1041	1028	1017	1008
	Flow Rate, GPM	4.1	5.2	6.3	7.5	8.7	9.8	11.0	12.2	13.3	14.5	15.7
HXT-425A	OUTPUT HP(RUN)	1.3	1.9	2.5	3.1	3.8	4.4	5.0	5.5	6.0	6.6	7.1
	Running Torque	8338	8114	8002	7935	7891	7859	7835	7712	7613	7533	7466
	Starting Torque	28164	28164	28164	28164	28164	28164	28164	28164	28164	28164	28164
	Running Pressure	699	680	670	665	661	658	656	646	638	631	625
	Flow Rate, GPM	4.9	6.7	8.6	10.5	12.4	14.3	16.2	18.1	20.0	21.8	23.7
HXT-515B	OUTPUT HP(RUN)	2.3	3.3	4.3	5.2	6.2	7.2	8.2	8.9	9.7	10.4	11.1
	Running Torque	14376	13737	13417	13226	13098	13007	12938	12523	12191	11919	11692
	Starting Torque	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924
	Running Pressure	1063	1015	992	978	968	961	956	926	901	881	864
	Flow Rate, GPM	7.1	9.2	11.3	13.4	15.5	17.6	19.8	21.9	23.9	26.0	28.2
HXT-525B	OUTPUT HP(RUN)	2.3	3.3	4.3	5.2	6.2	7.2	8.2	8.9	9.7	10.4	11.1
	Running Torque	14376	13737	13417	13226	13098	13007	12938	12523	12191	11919	11692
	Starting Torque	29528	29528	29528	29528	29528	29528	29528	29528	29528	29528	29528
	Running Pressure	1149	1098	1072	1057	1047	1039	1034	1001	974	952	934
	Flow Rate, GPM	5.7	7.6	9.6	11.5	13.5	15.5	17.5	19.4	21.4	23.3	25.3
HXT-615	OUTPUT HP(RUN)	3.6	5.2	6.8	8.4	10.1	11.7	13.3	14.5	15.8	17.0	18.3
	Running Torque	22714	21915	21516	21276	21116	21002	20917	20350	19896	19525	19216
	Starting Torque	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779
	Running Pressure	1686	1627	1598	1580	1568	1559	1553	1511	1477	1450	1427
	Flow Rate, GPM	8.8	10.8	12.8	14.9	17.1	19.2	21.3	23.3	25.4	27.5	29.5
HXT-625	OUTPUT HP(RUN)	3.6	5.2	6.8	8.4	10.1	11.7	13.3	14.5	15.8	17.0	18.3
	Running Torque	22714	21915	21516	21276	21116	21002	20917	20350	19896	19525	19216
	Starting Torque	52094	52094	52094	52094	52094	52094	52094	52094	52094	52094	52094
	Running Pressure	1029	993	975	964	956	951	947	922	901	884	870
	Flow Rate, GPM	9.8	13.2	16.7	20.1	23.6	27.1	30.6	34.1	37.5	41.0	44.5
HXT-715	OUTPUT HP(RUN)	5.1	7.3	9.6	11.9	14.2	16.4	18.7	20.7	22.7	24.6	26.6
	Running Torque	31914	30828	30285	29959	29742	29587	29470	28969	28567	28239	27966
	Starting Torque	57132	57132	57132	57132	57132	57132	57132	57132	57132	57132	57132
	Running Pressure	1318	1273	1251	1237	1228	1222	1217	1196	1180	1166	1155
	Flow Rate, GPM	10.3	14.1	17.9	21.7	25.6	29.4	33.3	37.1	40.9	44.7	48.6
HXT-725	OUTPUT HP(RUN)	5.1	7.3	9.6	11.9	14.2	16.4	18.7	20.7	22.7	24.6	26.6
	Running Torque	31914	30828	30285	29959	29742	29587	29470	28969	28567	28239	27966
	Starting Torque	50975	50975	50975	50975	50975	50975	50975	50975	50975	50975	50975
	Running Pressure	1477	1427	1402	1387	1377	1370	1364	1341	1322	1307	1294
	Flow Rate, GPM	10.8	14.1	17.5	20.9	24.3	27.7	31.2	34.5	37.9	41.3	44.7

★ See page G1-136 for definition of requirements.

NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-127-G1-128	DIMENSIONS PAGES G1-137-G1-143	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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EASY SELECTION



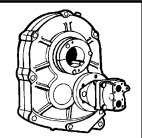
HYDROIL TORQUE-ARM Shaft Mount Speed Reducers

TABLE 14 — CLASS III SELECTION TABLE HXT REDUCERS - DOUBLE REDUCTION (CONT'D)

Reducer Size	Output Speed															
	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
HXT-115	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.7	2.8	2.9	3.0	3.1	3.2	3.3
	1615	1601	1589	1579	1570	1562	1550	1538	1528	1519	1510	1502	1492	1482	1473	1464
	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025
	676	670	666	661	657	654	649	644	640	636	632	629	625	620	617	613
HXT-125	5.5	5.8	6.2	6.6	7.0	7.3	7.7	8.1	8.5	8.9	9.2	9.6	10.0	10.4	10.7	11.1
	1.7	1.8	1.9	2.0	2.1											
	1615	1601	1589	1579	1570											
	2868	2868	2868	2868	2868											
HXT-215	949	941	934	928	923											
	4.0	4.3	4.5	4.8	5.1											
	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.3	5.5	5.7	5.9
	2930	2906	2884	2865	2848	2834	2807	2783	2762	2742	2724	2707	2693	2679	2667	2655
HXT-225	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697
	1336	1324	1315	1306	1298	1292	1280	1269	1259	1250	1242	1234	1228	1221	1216	1210
	5.6	5.9	6.2	6.6	6.9	7.3	7.6	8.0	8.3	8.6	9.0	9.3	9.7	10.0	10.4	10.7
	3.0	3.2	3.4	3.6	3.8											
HXT-315A	2930	2906	2884	2865	2848											
	6152	6152	6152	6152	6152											
	803	796	790	785	780											
	8.2	8.7	9.3	9.9	10.5											
HXT-325A	5.0	5.4	5.7	6.0	6.3	6.7	6.9	7.2	7.4	7.6	7.9	8.1	8.4	8.6	8.8	9.1
	4870	4819	4774	4735	4701	4671	4586	4510	4441	4379	4322	4270	4216	4166	4119	4077
	17190	17190	17190	17190	17190	17190	17190	17190	17190	17190	17190	17078	16862	16663	16478	16306
	668	661	655	650	645	641	630	619	610	601	593	586	579	572	565	560
HXT-415A	16.1	17.2	18.4	19.5	20.7	21.8	23.0	24.1	25.3	26.4	27.6	28.7	29.9	31.0	32.2	33.3
	5.0	5.4	5.7	6.0	6.3											
	4870	4819	4774	4735	4701											
	6479	6479	6479	6479	6479											
HXT-425A	1267	1253	1242	1232	1223											
	8.9	9.5	10.1	10.7	11.3											
	7.6	8.2	8.7	9.2	9.8	10.3	10.8	11.2	11.7	12.2	12.6	13.1	13.5	13.8	14.2	14.6
	7409	7360	7318	7281	7249	7220	7147	7082	7024	6970	6921	6876	6785	6701	6623	6551
HXT-515B	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479
	1000	994	988	983	979	975	965	956	948	941	934	928	916	905	894	884
	16.8	18.0	19.2	20.3	21.5	22.7	23.9	25.0	26.2	27.4	28.5	29.7	30.9	32.0	33.2	34.3
	7.6	8.2	8.7	9.2	9.8											
HXT-525B	7409	7360	7318	7281	7249											
	28164	28164	28164	28164	28164											
	621	617	613	610	607											
	25.6	27.5	29.4	31.3	33.2											
HXT-615	11.9	12.6	13.3	14.1	14.8	15.5	16.1	16.6	17.2	17.7	18.2	18.6	18.0			
	11501	11336	11194	11069	10959	10862	10653	10466	10296	10141	10000	9769	9076			
	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924			
	850	838	827	818	810	803	787	774	761	750	739	722	671			
HXT-715	30.3	32.4	34.5	36.6	38.8	40.9	43.0	45.1	47.3	49.4	51.5	53.6	55.6			
	11.9	12.6	13.3	14.1												
	11501	11336	11194	11069												
	29528	29528	29528	29528												
HXT-725	919	906	895	885												
	27.3	29.2	31.2	33.2												
	19.5	20.8	22.1	23.3	24.6	25.8	26.6	27.5	27.8	25.9	23.9	22.0	20.0			
	18954	18729	18535	18365	18215	18081	17680	17318	16687	14840	13098	11555	10084			
HXT-825	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779			
	1407	1391	1376	1364	1352	1343	1313	1286	1239	1102	973	858	749			
	31.6	33.7	35.8	37.9	40.1	42.2	44.2	46.3	48.3	50.1	51.9	53.7	55.6			
	19.5	20.8	22.1	23.3												
HXT-925	18954	18729	18535	18365												
	52094	52094	52094	52094												
	858	848	840	832												
	48.0	51.5	55.0	58.4												
HXT-1025	28.6	30.6	32.6	34.5	36.5	38.5	40.2	41.9	41.0	39.0	37.0	35.0				
	27734	27536	27364	27213	27080	26962	26663	26394	24610	22345	20278	18382				
	57132	57132	57132	57132	57132	57132	57132	57132	57132	57132	57132	57132				
	1145	1137	1130	1124	1118	1114	1101	1090	1016	923	837	759				
HXT-1125	52.4	56.2	60.1	63.9	67.8	71.6	75.4	79.3	83.0	86.6	90.3	94.0				
	28.6	30.6	32.6													
	27734	27536	27364													
	50975	50975	50975													
HXT-1225	1284	1275	1267													
	48.1	51.5	55.0													

NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-127-G1-128	DIMENSIONS PAGES G1-137-G1-143	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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EASY SELECTION



HYDROIL TORQUE-ARM Shaft Mount Speed Reducers

TABLE 15 — CLASS I SELECTION TABLE - HXT REDUCERS - SINGE REDUCTION

Reducer Size	Requirements ★	Output Speed														
		90	100	110	120	130	140	150	160	180	200	220	250	300	350	400
HXT-105	OUTPUT HP(RUNNING)	3.9	4.2	4.4	4.7	5.0	5.2	5.5	5.7	6.2	6.7	6.9	7.1	7.6	7.9	8.3
	Running Torque	2758	2641	2546	2467	2400	2342	2293	2249	2176	2118	1973	1799	1586	1424	1303
	Starting Torque	5515	5283	5093	4934	4800	4685	4585	4498	4353	4237	3946	3598	3172	2848	2605
	Running Pressure	982	940	907	878	854	834	816	801	775	754	702	640	565	507	464
	Flow Rate, GPM	9.4	10.2	11.0	11.8	12.7	13.5	14.4	15.2	16.9	18.7	20.3	22.9	27.1	31.4	35.7
HXT-205	OUTPUT HP(RUNNING)	6.8	7.1	7.4	7.7	8.0	8.3	8.6	8.9	9.5	10.1	10.5	11.1	12.0	12.9	13.8
	Running Torque	4759	4475	4243	4049	3886	3745	3624	3517	3340	3198	3014	2793	2523	2322	2171
	Starting Torque	6238	6238	6238	6238	6238	6238	6238	6238	6238	6238	6028	5586	5046	4644	4342
	Running Pressure	1800	1693	1605	1532	1470	1417	1371	1330	1263	1210	1140	1056	954	878	821
	Flow Rate, GPM	10.1	10.8	11.5	12.2	12.9	13.7	14.4	15.2	16.7	18.3	19.9	22.2	26.2	30.2	34.2
HXT-305A	OUTPUT HP(RUNNING)	10.1	10.7	11.3	12.0	12.6	13.2	13.8	14.4	15.7	16.9	17.6	17.7	16.8	15.9	15.0
	Running Torque	7074	6758	6499	6284	6102	5946	5810	5692	5495	5337	5056	4462	3529	2863	2363
	Starting Torque	11851	11851	11851	11851	11851	11851	11621	11384	10989	10673	10112	9438	8614	7705	7024
	Running Pressure	1408	1346	1294	1251	1215	1184	1157	1133	1094	1063	1007	888	703	570	471
	Flow Rate, GPM	17.9	19.3	20.7	22.1	23.6	25.1	26.6	28.1	31.1	34.2	37.1	41.5	48.9	56.3	63.9
HXT-405A	OUTPUT HP(RUNNING)	17.7	18.5	19.3	20.1	20.9	21.7	22.5	23.3	24.5	23.8	23.1	22.1	20.4	18.7	17.0
	Running Torque	12387	11655	11056	10557	10135	9773	9459	9185	8578	7500	6618	5571	4286	3367	2679
	Starting Torque	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956
	Running Pressure	2445	2300	2182	2083	2000	1929	1867	1813	1693	1480	1306	1099	846	665	529
	Flow Rate, GPM	20.8	21.9	23.2	24.5	25.9	27.3	28.7	30.1	33.0	35.6	38.3	42.4	49.7	57.1	64.6
HXT-505A	OUTPUT HP(RUNNING)	21.9	23.1	24.3	25.5	26.7	27.9	29.1	30.4	31.3	30.1	28.9	27.1	24.1	21.0	18.0
	Running Torque	15321	14552	13923	13398	12954	12574	12244	11955	10959	9485	8279	6832	5063	3782	2836
	Starting Torque	21713	21713	21713	21713	21713	21713	21713	21713	21713	21713	21529	20748	19794	18659	17808
	Running Pressure	1665	1581	1513	1456	1408	1366	1331	1299	1191	1031	900	742	550	411	308
	Flow Rate, GPM	29.2	31.9	34.6	37.3	40.1	42.9	45.7	48.5	54.0	59.5	64.9	73.2	87.2	101.3	115.4

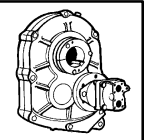
TABLE 16 — CLASS II SELECTION TABLE - HXT REDUCERS - SINGE REDUCTION

Reducer Size	Requirements ★	Output Speed														
		90	100	110	120	130	140	150	160	180	200	220	250	300	350	400
HXT-105	OUTPUT HP(RUNNING)	2.8	3.0	3.2	3.4	3.5	3.7	3.9	4.1	4.4	4.8	4.9	5.1	5.4	5.6	5.9
	Running Torque	1970	1887	1819	1762	1714	1673	1638	1606	1555	1513	1409	1285	1133	1017	930
	Starting Torque	5515	5283	5093	4934	4800	4685	4585	4498	4353	4237	3946	3598	3172	2848	2605
	Running Pressure	701	672	648	627	610	596	583	572	553	539	502	457	403	362	331
	Flow Rate, GPM	8.9	9.8	10.6	11.5	12.3	13.2	14.0	14.9	16.6	18.3	20.0	22.6	26.9	31.2	35.5
HXT-205	OUTPUT HP(RUNNING)	4.9	5.1	5.3	5.5	5.7	5.9	6.2	6.4	6.8	7.2	7.5	7.9	8.6	9.2	9.8
	Running Torque	3399	3197	3031	2892	2775	2675	2588	2512	2386	2284	2153	1995	1802	1659	1551
	Starting Torque	6238	6238	6238	6238	6238	6238	6238	6238	6238	6238	6028	5586	5046	4644	4342
	Running Pressure	1286	1209	1146	1094	1050	1012	979	950	902	864	814	755	682	627	587
	Flow Rate, GPM	9.4	10.1	10.8	11.5	12.3	13.1	13.8	14.6	16.2	17.8	19.4	21.7	25.8	29.8	33.9
HXT-305A	OUTPUT HP(RUNNING)	7.2	7.7	8.1	8.5	9.0	9.4	9.9	10.3	11.2	12.1	12.6	13.4	14.6	15.3	15.0
	Running Torque	5053	4827	4642	4489	4358	4247	4150	4066	3925	3812	3611	3371	3076	2752	2363
	Starting Torque	11851	11851	11851	11851	11851	11851	11621	11384	10989	10673	10112	9438	8614	7705	7024
	Running Pressure	1006	961	924	894	868	846	826	810	781	759	719	671	613	548	471
	Flow Rate, GPM	16.8	18.2	19.7	21.2	22.7	24.2	25.7	27.2	30.3	33.4	36.4	40.9	48.6	56.3	63.9
HXT-405A	OUTPUT HP(RUNNING)	12.6	13.2	13.8	14.4	14.9	15.5	16.1	16.7	17.8	19.0	20.2	22.0	20.4	18.7	17.0
	Running Torque	8848	8325	7897	7541	7239	6981	6757	6561	6234	5973	5776	5541	4286	3367	2679
	Starting Torque	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956
	Running Pressure	1746	1643	1559	1488	1429	1378	1333	1295	1230	1179	1140	1093	846	665	529
	Flow Rate, GPM	18.9	20.2	21.5	22.9	24.4	25.8	27.3	28.7	31.7	34.8	37.8	42.4	49.7	57.1	64.6
HXT-505A	OUTPUT HP(RUNNING)	15.6	16.5	17.4	18.2	19.1	20.0	20.8	21.7	23.4	25.1	26.8	27.1	24.1	21.0	18.0
	Running Torque	10944	10394	9945	9570	9253	8981	8746	8540	8196	7921	7689	6832	5063	3782	2836
	Starting Torque	21713	21713	21713	21713	21713	21713	21713	21713	21713	21713	21529	20748	19794	18659	17808
	Running Pressure	1189	1130	1081	1040	1006	976	950	928	891	861	836	742	550	411	308
	Flow Rate, GPM	28.2	31.0	33.7	36.5	39.3	42.1	44.9	47.8	53.4	59.1	64.8	73.2	87.2	101.3	115.4

★ See page G1-136 for definition of requirements.

NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-127-G1-128	DIMENSIONS PAGES G1-137-G1-143	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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EASY SELECTION



HYDROIL TORQUE-ARM Shaft Mount Speed Reducers

TABLE 17 — CLASS III SELECTION TABLE - HXT REDUCERS - SINGLE REDUCTION

Reducer Size	Requirements ★	Output Speed														
		90	100	110	120	130	140	150	160	180	200	220	250	300	350	400
HXT-105	OUTPUT HP(RUNNING)	2.0	2.1	2.2	2.3	2.5	2.6	2.7	2.9	3.1	3.4	3.4	3.6	3.8	4.0	4.1
	Running Torque	1379	1321	1273	1234	1200	1171	1146	1125	1088	1059	987	899	793	712	651
	Starting Torque	5515	5283	5093	4934	4800	4685	4585	4498	4353	4237	3946	3598	3172	2848	2605
	Running Pressure	491	470	453	439	427	417	408	400	387	377	351	320	282	254	232
	Flow Rate, GPM	8.6	9.5	10.3	11.2	12.0	12.9	13.8	14.6	16.4	18.1	19.8	22.4	26.7	31.0	35.4
HXT-205	OUTPUT HP(RUNNING)	3.4	3.6	3.7	3.9	4.0	4.2	4.3	4.5	4.8	5.1	5.3	5.5	6.0	6.4	6.9
	Running Torque	2380	2238	2121	2025	1943	1873	1812	1759	1670	1599	1507	1397	1262	1161	1086
	Starting Torque	6238	6238	6238	6238	6238	6238	6238	6238	6238	6238	6028	5586	5046	4644	4342
	Running Pressure	900	846	802	766	735	708	685	665	632	605	570	528	477	439	411
	Flow Rate, GPM	8.8	9.5	10.3	11.0	11.8	12.6	13.4	14.2	15.8	17.4	19.0	21.4	25.5	29.5	33.6
HXT-305A	OUTPUT HP(RUNNING)	5.1	5.4	5.7	6.0	6.3	6.6	6.9	7.2	7.8	8.5	8.8	9.4	10.3	10.7	11.1
	Running Torque	3537	3379	3250	3142	3051	2973	2905	2846	2747	2668	2528	2359	2153	1926	1756
	Starting Torque	11851	11851	11851	11851	11851	11851	11621	11384	10989	10673	10112	9438	8614	7705	7024
	Running Pressure	704	673	647	626	607	592	578	567	547	531	503	470	429	384	350
	Flow Rate, GPM	16.0	17.5	19.0	20.5	22.0	23.5	25.0	26.6	29.7	32.7	35.8	40.4	48.1	55.8	63.6
HXT-405A	OUTPUT HP(RUNNING)	8.8	9.2	9.6	10.1	10.5	10.9	11.3	11.7	12.5	13.3	14.1	15.4	17.5	18.7	17.0
	Running Torque	6194	5828	5528	5279	5068	4887	4730	4592	4364	4181	4043	3879	3677	3367	2679
	Starting Torque	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956
	Running Pressure	1222	1150	1091	1042	1000	964	933	906	861	825	798	765	726	665	529
	Flow Rate, GPM	17.5	18.9	20.3	21.7	23.2	24.7	26.2	27.7	30.7	33.8	36.9	41.5	49.3	57.1	64.6
HXT-505A	OUTPUT HP(RUNNING)	10.9	11.5	12.1	12.8	13.4	14.0	14.6	15.2	16.4	17.6	18.8	20.6	23.6	21.0	18.0
	Running Torque	7661	7276	6961	6699	6477	6287	6122	5978	5737	5545	5382	5187	4948	3782	2836
	Starting Torque	21713	21713	21713	21713	21713	21713	21713	21713	21713	21713	21529	20748	19794	18659	17808
	Running Pressure	832	791	756	728	704	683	665	650	623	603	585	564	538	411	308
	Flow Rate, GPM	27.5	30.3	33.1	35.9	38.7	41.5	44.4	47.2	52.9	58.6	64.3	72.9	87.2	101.3	115.4

★ Requirements:

Output HP—Horsepower rating of the reducer/motor under continuous operation after load has been started.

Running Torque—Continuous output torque rating of reducer/motor (in.-lbs.)

Starting Torque—Momentary output torque available for starting (in.-lbs.)

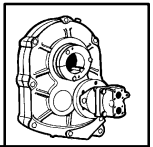
Running Pressure—Motor pressure required to generate running torque. This will start loads not to exceed 75% of the running load. For greater starting requirements, motor pressure may be increased—see table 18. (PSI)

Flow Rate—Flow required for given output RPM. With oil viscosity of 300SUS @ 100°F. for A10 and A20 motors, and 200SUS @ 100°F. for B30, B40 and B50 motors.

Table 18 — Maximum Hydraulic Motor Pressures Available for Starting

Double Reduction	Single Reduction	Maximum Hydraulic Pressure
---	HXT105	2500 psi
---	HXT205	
HXT315A	HXT305A	
HXT415A, 425A	HXT405A	
HXT515B, 525B	HXT505A	
HXT615, 625	---	
HXT715, 725	---	
HXT115, 125	---	
HXT215, 225	---	2000 psi
HXT325A	---	

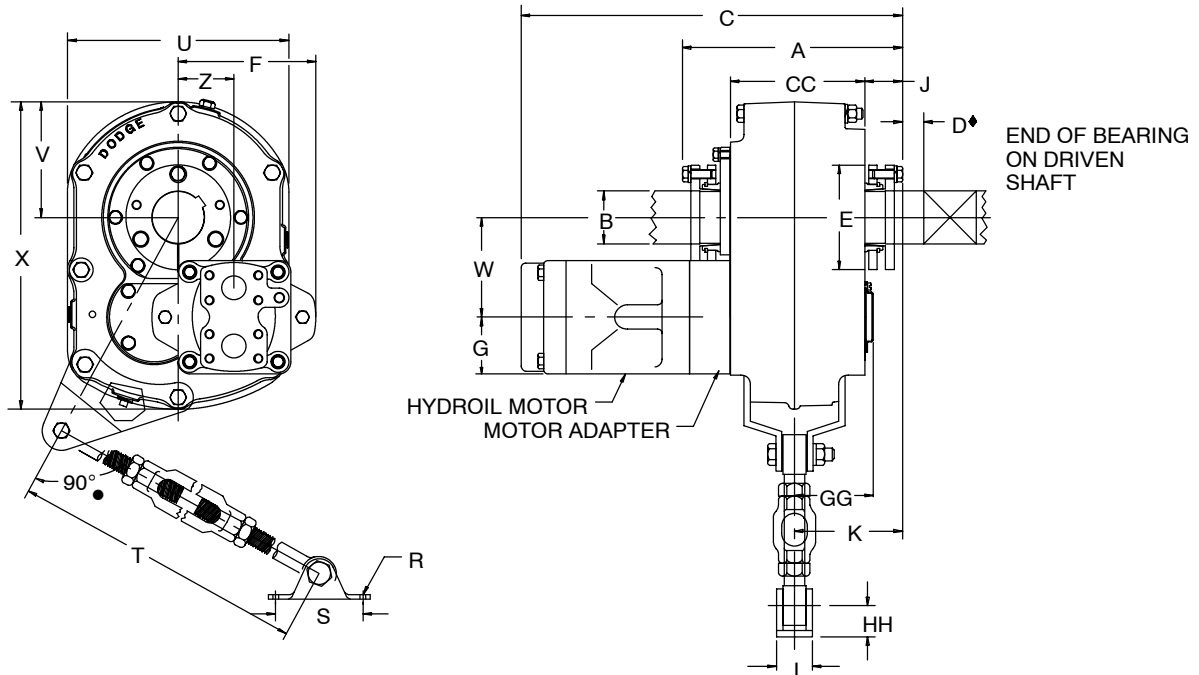
NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-127-G1-128	DIMENSIONS PAGES G1-137-G1-143	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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SELECTION/DIMENSIONS

HYDROIL TORQUE-ARM Shaft Mount Speed Reducers

HXT1 THRU HXT7 TAPER BUSHED REDUCERS



- ◆ Recommended minimum distance to loosen bushing using bushing screws as jack screws.

Reducer will operate satisfactorily at 90° or 180° from normal position shown in front view by relocating breather and drain plugs.

- The ideal position for the TORQUE-ARM is at right angles to a line between the point of attachment of the TORQUE-ARM to the reducer and the output shaft. This may vary up to 30° either way. **CAUTION:** Exceeding the ±30° variance of the TORQUE-ARM could result in excessive reaction load and result in damage to the equipment.

HXT1 thru HXT7 HYDROIL Double Reduction Taper Bushed TORQUE-ARM Speed Reducers

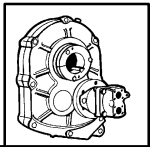
Reducer Size		AGMA Code		Gear Ratio		Part Number		Wt.	HYDROIL Motor		A	B Max. Bore ♥	C	D	E	F	G	J	K
15:1	25:1	15:1	25:1	15:1	25:1	15:1	25:1		Size	Wt.									
.....	HXT125	.....	107H25	.....	25.64	.....	241070	49	A10	11	7.06	1.44	13.22	1.25	3.25	4.47	2.41	1.28	3.53
HXT115	.....	.....	107H15	.....	15.35	.....	241069♣	.....	A20	11	7.31	1.94	13.38	1.25	4.06	4.69	2.41	1.38	3.66
HXT215	HXT225	115H15	115H25	14.10	23.46	242086	242087♣	65	A20	11	7.31	1.94	13.38	1.25	4.06	4.69	2.41	1.38	3.66
.....	HXT325A	.....	205H25	.....	24.71	.....	243508	112	A20	11	9.22	2.19	14.64	1.50	4.38	4.88	2.41	1.58	4.44
HXT315A	.....	.....	203H15	.....	14.88	.....	243507	.....	B30	30	10.00	2.44	15.45	1.75	4.81	5.75	2.38	1.81	4.75
HXT415A	HXT425A	207H15	207H25	15.13	24.38	244532	244533	143	B30	30	10.00	2.44	16.13	1.75	4.81	6.19	2.38	1.81	4.75
.....	HXT525B	.....	215H25	.....	25.56	.....	245558	212	B30	30	10.50	2.94	16.88	1.81	5.63	6.50	2.38	1.94	5.50
HXT515B	.....	.....	215H15	.....	15.40	.....	245557	.....	B40	55	10.50	2.94	17.63	1.81	5.63	7.25	3.06	1.94	5.50
HXT615	HXT625	307H15	307H25	15.33	25.13	246154	246155	293	B40	55	11.50	3.44	18.58	1.81	6.13	8.28	3.06	1.94	5.70
.....	HXT725	.....	315H25	.....	24.59	.....	247165	470	B40	55	12.81	3.94	19.16	2.06	7.25	9.30	3.06	2.16	6.34
HXT715	.....	.....	315H15	.....	15.23	.....	247164	.....	B50	106	12.81	3.94	22.75	2.06	7.25	9.30	3.69	2.16	6.34
Reducer Size	L	R Bolt	S	T		U	V	W	X	Z	CC	GG	HH						
				Min.	Max.														
HXT1	1.06	0.38	2.50	23.81	29.63	7.13	3.75	3.19	9.94	1.91	4.50	2.66	0.94						
HXT2	1.25	0.44	3.00	26.94	32.94	8.38	4.13	3.75	11.41	2.13	4.56	2.94	1.06						
HXT3A	1.25	0.44	3.00	26.94	32.94	9.25	4.81	4.19	12.88	2.31	6.38	3.25	1.06						
HXT4A	1.44	0.50	4.00	29.19	35.19	10.38	5.50	4.78	15.13	2.75	6.88	3.38	1.75						
HXT5B	1.44	0.50	4.00	29.19	35.19	13.13	6.56	5.69	18.31	3.06	7.06	4.50	1.75						
HXT6	2.75	0.63	4.75	29.19	35.19	15.13	7.56	6.75	21.31	4.09	7.63	4.56	2.00						
HXT7	2.75	0.63	4.75	29.44	35.44	18.75	9.38	8.31	25.94	5.13	8.13	4.69	2.00						

Note: All reducers on this page require bushings. HYDROIL TORQUE-ARM reducers for vertical or inclined shafts are available on order—consult DODGE. Reducer includes motor adapter.

- ♥ See pages G1-26 thru G1-51 for bore and keyseat information and bushing part numbers.

- ◆ Made to order.

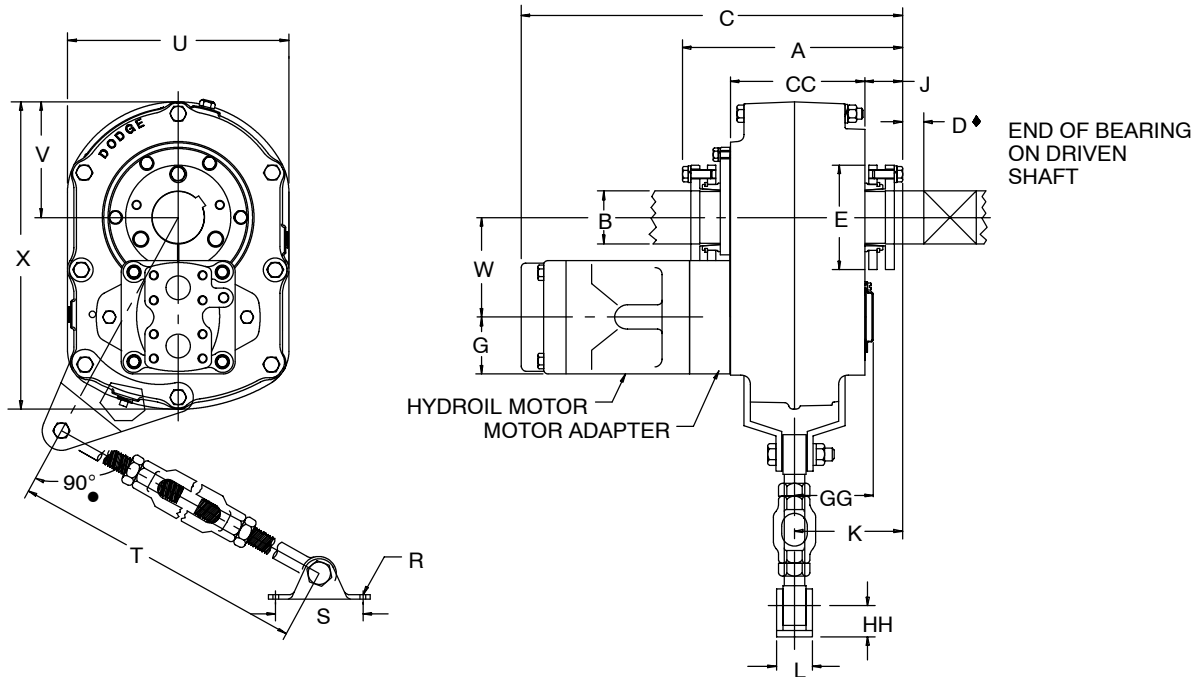
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SELECTION/DIMENSIONS

HYDROIL TORQUE-ARM Shaft Mount Speed Reducers

HXT105 THRU HXT505A TAPER BUSHED REDUCERS



Reducer will operate satisfactorily at 90° or 180° from normal position shown in front view by relocating breather and drain plugs.

- ◆ Recommended minimum distance to loosen bushing using bushing screws as jack screws.

- The ideal position for the TORQUE-ARM is at right angles to a line between the point of attachment of the TORQUE-ARM to the reducer and the output shaft. This may vary up to 30° either way. **CAUTION:** Exceeding the ±30° variance of the TORQUE-ARM could result in excessive reaction load and result in damage to the equipment.

HXT105 thru HXT505A HYDROIL Single Reduction Taper Bushed TORQUE-ARM Speed Reducers

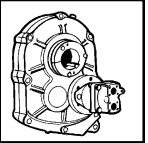
Reducer Size	AGMA Code	Gear Ratio	Part Number	Reducer Wt.	HYDROIL Motor		A	B Max. Bore ♥	C	D	E	G	J	K	L
					Size	Wt.									
HXT105	107H05	5.62	241085	44	B30	30	5.63	1.44	14.97	1.25	3.25	2.38	1.28	3.53	1.06
HXT205	115H05	5.29	242251	56	B30	30	5.81	1.94	15.25	1.25	4.06	2.38	1.38	3.66	1.25
HXT305A	203H05	5.60	253153	90	B40	55	6.88	2.19	17.66	1.50	4.38	3.06	1.58	4.44	1.25
HXT405A	207H05	5.65	254202	126	B40	55	7.81	2.44	18.69	1.75	4.81	3.06	1.81	4.75	1.44
HXT505A	215H05	5.67	255202♣	186	B50	106	8.38	2.94	22.00	1.81	5.63	3.69	1.92	4.13	1.44
Reducer Size	R Bolt	S	T		U	V	W	X	CC	GG	HH				
			Min.	Max.											
HXT105	0.38	2.50	23.81	29.63	7.13	3.75	3.25	9.94	4.50	2.64	0.94				
HXT205	0.44	3.00	26.94	32.94	8.50	4.13	3.88	11.41	4.56	2.83	1.06				
HXT305A	0.44	3.00	26.94	32.94	9.25	4.81	4.28	12.88	6.38	3.25	1.06				
HXT405A	0.50	4.00	29.19	35.19	10.38	5.50	4.88	15.13	6.88	3.38	1.75				
HXT505A	0.50	4.00	29.19	35.19	13.13	6.56	5.88	18.31	7.06	4.50	1.75				

Note: All reducers on this page require bushings. HYDROIL TORQUE-ARM reducers for vertical or inclined shafts are available on order—consult DODGE. Reducer includes motor adapter.

- ♥ See pages G1-26 thru G1-51 for bore and keyseat information and bushing part numbers.

- ♣ Made to order.

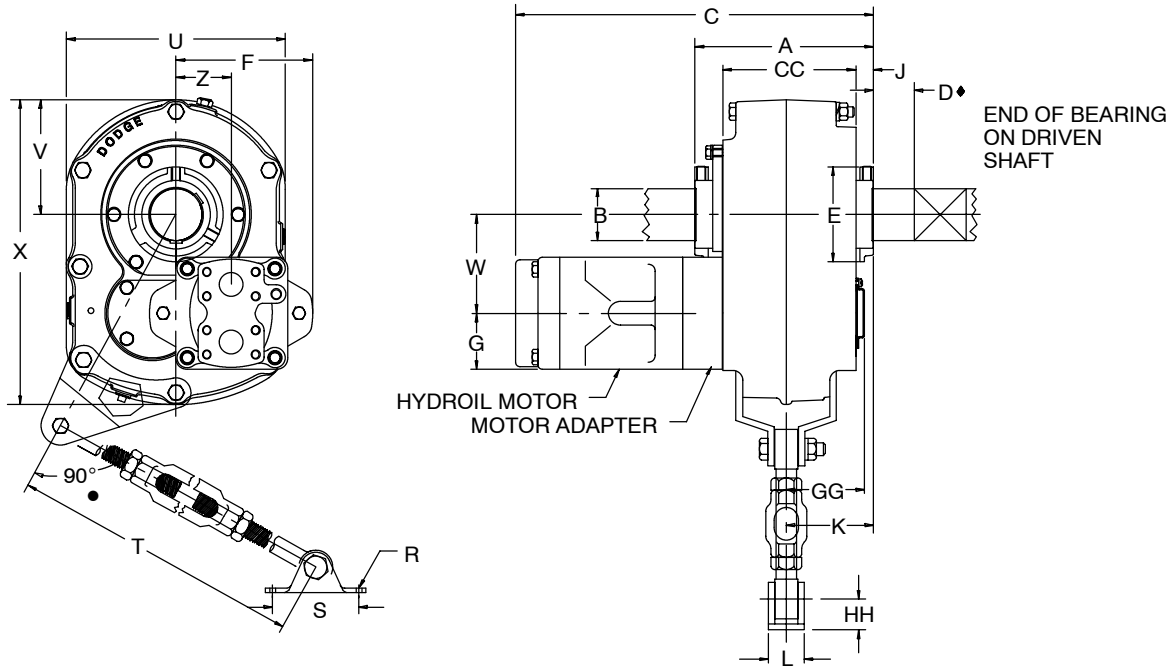
NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-127-G1-136	ENGINEERING/TECHNICAL PAGES G1-187-G1-201	
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SELECTION/DIMENSIONS

HYDROIL TORQUE-ARM Shaft Mount Speed Reducers

HXT1 THRU HXT7 STRAIGHT BORE REDUCERS



Reducer will operate satisfactorily at 90° or 180° from normal position shown in front view by relocating breather and drain plugs.

- The ideal position for the TORQUE-ARM is at right angles to a line between the point of attachment of the TORQUE-ARM to the reducer and the output shaft. This may vary up to 30° either way. **CAUTION:** Exceeding the $\pm 30^\circ$ variance of the TORQUE-ARM could result in excessive reaction load and result in damage to the equipment.

HXT1 thru HXT7 HYDROIL Double Reduction Straight Bore TORQUE-ARM Speed Reducers

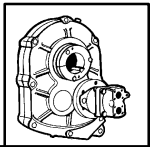
Reducer Size		AGMA Code		Gear Ratio		Part Number		Wt.	HYDROIL Motor		A	B Max. Bore ▼	C	E	F	G	J	K	L
15:1	25:1	15:1	25:1	15:1	25:1	15:1	25:1		Size	Wt.									
..... HXT115	 HXT125	 107H15	 107H25	 15.35	 25.64	 241077❖	 241078❖	49	A10 A20	11	5.63	1.44	12.50	3.19	4.47	2.41	0.56	2.81	1.06
..... HXT215	 HXT225	 115H15	 115H25	 14.10	 23.46	 242094	 242095❖	65	A20	11	5.81	1.94	12.63	3.56	4.69	2.41	0.63	2.91	1.25
..... HXT315A	 HXT325A	 203H15	 203H25	 14.88	 24.71	 243519	 243520	112	A20 B30	11 30	7.81	2.19	13.69 14.50	4.00	4.88 5.75	2.41 2.38	0.63	2.47	1.25
..... HXT415A	 HXT425A	 207H15	 207H25	 15.13	 24.38	 244544	 244545	143	B30	30	8.22	2.44	15.16	4.38	6.19	2.38	0.84	3.88	1.44
..... HXT515B	 HXT525B	 215H15	 215H25	 15.40	 25.56	 245569	 245570	212	B30 B40	30 55	8.66	2.94	15.94 16.69	5.13	6.50 7.25	2.38 3.06	1.00	4.13	1.44
..... HXT615	 HXT625	 307H15	 307H25	 15.33	 25.13	 246162	 246163	293	B40	55	9.63	3.44	17.69	5.63	8.28	3.06	1.00	4.81	2.75
..... HXT715	 HXT725	 315H15	 315H25	 15.23	 24.59	 247172	 247173	470	B40 B50	55 106	10.78	3.94	18.19 21.50	6.69	9.31 8.38	3.06 3.69	1.14	5.39	2.75
Reducer Size	R Bolt	S	T		U	V	W	X	Z	CC	GG	HH							
			Min.	Max.															
HXT1	0.38	2.50	23.81	29.63	7.13	3.75	3.19	9.94	1.91	4.50	2.66	0.94							
HXT2	0.44	3.00	26.94	32.94	8.38	4.13	3.75	11.41	2.13	4.56	2.94	1.06							
HXT3A	0.44	3.00	26.94	32.94	9.25	4.81	4.19	12.88	2.31	6.38	3.25	1.06							
HXT4A	0.50	4.00	29.19	35.19	10.38	5.50	4.78	15.13	2.75	6.88	3.38	1.75							
HXT5B	0.50	4.00	29.19	35.19	13.13	6.56	5.69	18.31	3.06	7.06	4.50	1.75							
HXT6	0.63	4.75	29.19	35.19	15.13	7.50	6.75	21.31	4.09	7.63	4.56	2.00							
HXT7	0.63	4.75	29.44	35.44	18.75	9.38	8.31	25.94	5.13	8.50	4.69	2.00							

Note: HYDROIL TORQUE-ARM reducers for vertical or inclined shafts are available on order—consult DODGE. Reducer includes motor adapter.

- ▼ No bushings required for these bores. See pages G1-26 thru G1-51 for bore and keyseat information and bushing part numbers for other bores.

- ♣ Made to order.

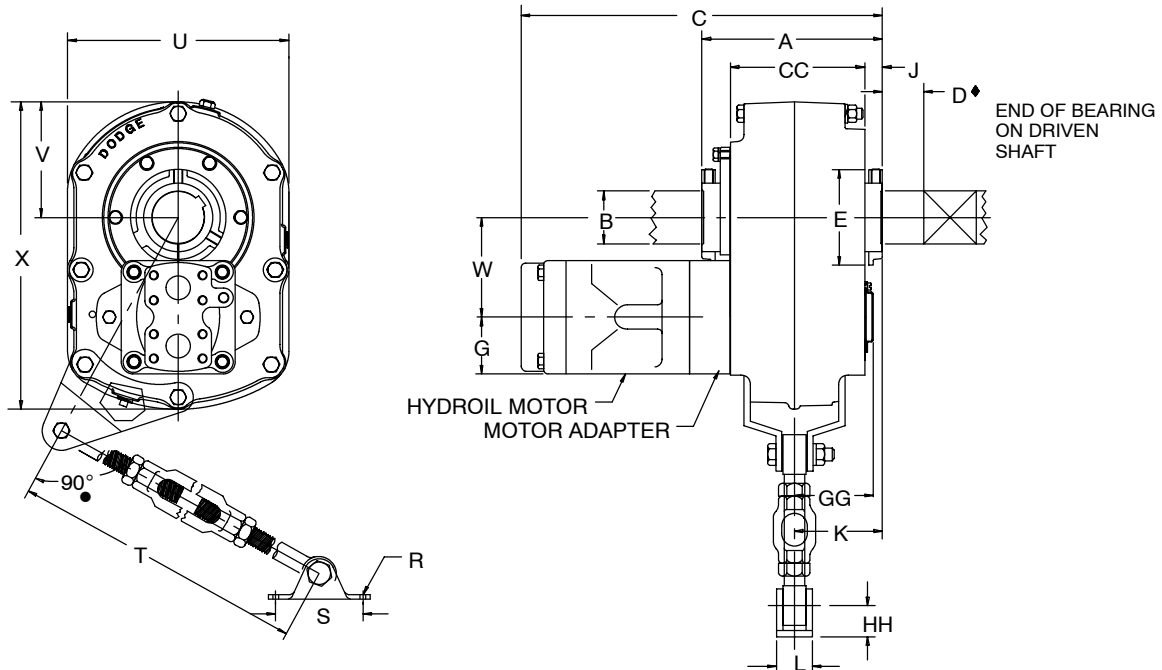
NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-127-G1-136	ENGINEERING/TECHNICAL PAGES G1-187-G1-201	
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SELECTION/DIMENSIONS

HYDROIL TORQUE-ARM Shaft Mount Speed Reducers

HXT105 THRU HXT505A STRAIGHT BORE REDUCERS



Reducer will operate satisfactorily at 90° or 180° from normal position shown in front view by relocating breather and drain plugs.

- The ideal position for the TORQUE-ARM is at right angles to a line between the point of attachment of the TORQUE-ARM to the reducer and the output shaft. This may vary up to 30° either way. **CAUTION:** Exceeding the ±30° variance of the TORQUE-ARM could result in excessive reaction load and result in damage to the equipment.

HXT105 thru HXT505A HYDROIL Single Reduction Straight Bore TORQUE-ARM Speed Reducers

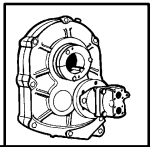
Reducer Size	AGMA Code	Gear Ratio	Part Number	Reducer Wt.	HYDROIL Motor		A	B Max. Bore ♥	C	E	G	J	K	L
					Size	Wt.								
HXT105	107H05	5.62	241089♣	44	B30	30	5.63	1.44	14.25	3.19	2.38	0.56	2.81	1.06
HXT205	115H05	5.29	242255	56	B30	30	5.81	1.94	14.50	3.56	2.38	0.63	2.91	1.25
HXT305A	203H05	5.60	253157	90	B40	55	7.41	2.19	16.69	4.00	3.06	0.63	4.44	1.25
HXT405A	207H05	5.65	254206♣	126	B40	55	8.22	2.44	17.72	4.38	3.06	0.84	4.75	1.44
HXT505A	215H05	5.67	255206♣	186	B50	106	8.66	2.94	21.06	5.13	3.69	1.00	4.13	1.44
Reducer Size	R Bolt	S	T		U	V	W	X	CC	GG	HH			
			Min.	Max.										
HXT105	0.38	2.50	23.81	29.63	7.13	3.75	3.25	9.94	4.50	2.64	0.94			
HXT205	0.44	3.00	26.94	32.94	8.50	4.13	3.88	11.41	4.56	2.83	1.06			
HXT305A	0.44	3.00	26.94	32.94	9.25	4.81	4.29	12.88	6.38	3.25	1.06			
HXT405A	0.50	4.00	29.19	35.19	10.38	5.50	4.88	15.13	6.88	3.38	1.75			
HXT505A	0.50	4.00	29.19	35.19	13.13	6.56	5.88	18.31	7.06	4.15	1.75			

Note: HYDROIL reducers for vertical or inclined shafts are available on order—consult DODGE. Reducer includes motor adapter.

- ♥ No bushings required for these bores. See pages G1-26 thru G1-53 for bore and keyseat information and bushing part numbers for other bores.

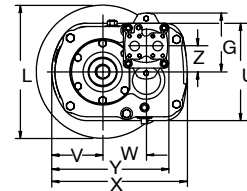
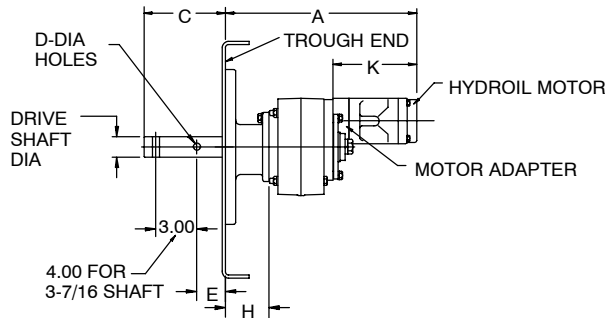
- ♣ Made to order.

NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-127-G1-136	ENGINEERING/TECHNICAL PAGES G1-187-G1-201	
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SELECTION/DIMENSIONS

HYDROIL Screw Conveyor Shaft Mount Speed Reducers



HSCXT1 THRU HSCXT7 DOUBLE REDUCTION HYDROIL SCREW CONVEYOR DRIVES†

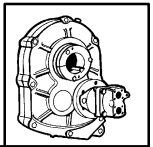
Reducer Size	Drive Shaft Dia.	To Fit Screw Dia.	Hydroil Motor		Parts When Ordering Separately												
					Reducer ■			CEMA Drive Shaft ★							Adapter Assy. ▲		
					Part Number		Wt.	Size	Part No.	Wt.	C	D	E	Size	Part No.	Wt.	
Size	Wt.	15:1	25:1														
HSCXT115	1-1/2	6, 9	A20	11	♣ 351191	♣ 351192	46	C1 x 1-1/2	351094	7.2	6.00	0.52	2.13	C1A	351086	17	
HSCXT125	2	9, 12	A10				46	C1 x 2	351095	9.1	6.00	0.64	2.13	C1B	351087	22	
	2-7/16	12, 14					C1 x 2-7/16	351096	12.5	6.69	0.64	2.75					
HSCXT215	3	12 thru 20	A20	11	♣ 352191	♣ 352192	58	C1 x 3	351097	17.4	6.88	0.77	2.88	C2A	352052	20	
	1-1/2	6, 9					C2 x 1-1/2	352090	11.4	6.00	0.52	2.13	C2B	352053	25		
HSCXT225	2	9, 12					58	C2 x 2	352091	13.8	6.00	0.64				2.13	2.75
	2-7/16	12, 14	58	C2 x 2-7/16	352092	17.3	6.69	0.64	2.75	2.88							
HSCXT315A	3	12 thru 20	B30	11	♣ 243528	♣ 243529	90	C3A x 1-1/2	243562	13.5	6.00	0.52	2.13	C3	353047	27	
	1-1/2	9						C3A x 2	243563	16.0	6.00	0.64	2.13				
HSCXT325B	2	9, 12						A20	30	C3A x 2-7/16	243564	19.5	6.69				0.64	2.75	2.88
	2-7/16	12, 14	C3A x 3	243565	26.0	6.88	0.77			2.88							
HSCXT415A	1-1/2	9	B30	30	♣ 244553	♣ 244554	113	C4A x 1-1/2	244594	19.0	6.00	0.52	2.13	C4	354121	31	
	2	9, 12						C4A x 2	244595	20.8	6.00	0.64	2.13				
HSCXT425A	2-7/16	12, 14						3	18 thru 20	C4A x 2-7/16	244596	24.3	6.69				0.64	2.75	2.88
	3	12 thru 20	C4A x 3	244597	29.2	6.88	0.77			2.88							
HSCXT515B	3-7/16	18 thru 24	B40	30	♣ 245578	♣ 245579	165	C4A x 3-7/16	244598	29.3	9.13	0.89	3.88	C5	355072	43	
	2	9, 12						C5B x 2	355175	29.4	6.00	0.64	2.13				
HSCXT525B	2-7/16	12, 14						B30	55	C5B x 2-7/16	355176	33.0	6.69				0.64	2.75	2.88
	3	12 thru 20	C5B x 3	355177	37.9	6.88	0.77			2.88							
HSCXT615	3-7/16	18 thru 24	B40	55	♣ 356291	♣ 356292	225	C5B x 3-7/16	355178	48.3	9.13	0.89	3.88	C6	356055	56	
	2-7/16	12, 14						C6 x 2-7/16	356042	47.7	6.69	0.64	2.75				
HSCXT625	3	12 thru 20						B50	55	C6 x 3	356043	52.7	6.88				0.77	2.88	3.88
	3-7/16	18 thru 24	C6 x 3-7/16	356044	63.0	9.13	0.89			3.88							
HSCXT715	2-7/16	12, 14	B40	106	♣ 356296	♣ 356297	390	C7 x 2-7/16	356182	65.0	6.69	0.64	2.75	C7	356187	72	
	3	12 thru 20						C7 x 3	356183	70.0	6.88	0.77	2.88				
HSCXT725	3-7/16	18 thru 24										C7 x 3-7/16	356184				80.3
Reducer Size	Actual Ratio		Max. RPM of Shaft				A	G	H	K	L	U	V	W	X	Y	Z
	15:1	25:1	Input		Driven												
			15:1	25:1	15:1	25:1											
HSCXT1	15.35	....	2149	....	140	....	15.34	4.47	3.22	7.44	♥	7.13	3.75	3.38	♥	9.34	1.91
	....	25.64	....	2179	....	85											
HSCXT2	14.97	24.92	2096	2118	140	85	15.94	4.69	3.56	7.44	♦	8.38	4.09	3.77	♦	10.27	2.14
HSCXT3A	15.26	....	2136	....	140	....	17.81	5.75								11.39	
	....	25.34	....	2155	....	85	17.00	4.88	3.69	7.44	11.38	9.25	4.84	4.17	13.72	11.42	2.33
HSCXT4A	15.30	24.64	2142	2094	140	85	18.44	6.19	4.00	7.38	11.38	10.38	5.50	4.78	15.31	12.66	2.75
HSCXT5B	15.38	....	1919	....	125	....	20.56	7.25								14.30	
	....	25.54	....	2043	....	80	19.81	6.50	4.25	7.75	11.38	13.13	6.56	5.67	18.31	14.61	3.05
HSCXT6	15.33	25.13	1895	1985	125	80	21.81	8.28	5.50	9.31	11.38	15.13	7.56	6.73	21.31	17.36	4.09
HSCXT7	15.23	....	1767	....	116	....	26.28	8.38								22.11	
	....	24.59	....	1844	....	75	23.00	9.31	6.31	10.56	11.38	18.75	9.38	8.30	25.94	20.36	5.11

- † Complete drive consists of reducer, CEMA drive shaft with key, and adapter assembly. Drive is shipped unassembled.
- ▲ Includes adapter, necessary mounting bolts and seal retainer. Both lip type and braided type seals included for customer's choice of application.
- ★ CEMA drive shaft and key furnished unless otherwise specified. See pages G1-120 thru G1-122 for optional drive shafts available from DODGE.

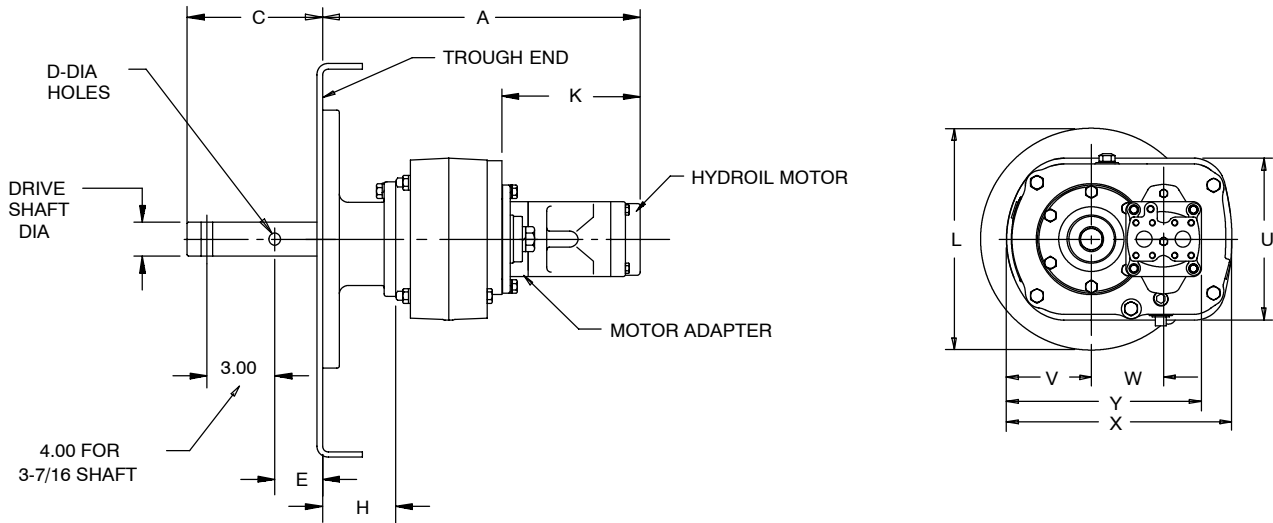
- Reducer includes HYDROIL motor adapter.
- ♥ L=7", X=9.94" when using a C1A adapter; L=11.38", X=11.88" when using a C1B adapter.
- ♦ L=7", X=11.41" when using a C2A adapter; L=11.38", X=13" when using a C2B adapter.
- ♣ Made to order.

NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-127-G1-136	ENGINEERING/TECHNICAL PAGES G1-187-G1-201	
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SELECTION/DIMENSIONS



HYDROIL Screw Conveyor Shaft Mount Speed Reducers



HSCXT105 THRU HSCXT505A SINGLE REDUCTION HYDROIL SCREW CONVEYOR DRIVES†

Reducer Size	Drive Shaft Dia.	To Fit Screw Dia.	Hydroil Motor		Parts When Ordering Separately										Adapter Assy. ▲	
					Reducer ■		CEMA Drive Shaft ★									
			Size	Wt.	Part No.	Wt.	Size	Part No.	Wt.	C	D	E	Size	Part No.	Wt.	
HSCXT105	1-1/2	6, 9	B30	30	☼ 351190	41	C1 x 1-1/2	351094	7.2	6.00	0.52	2.13	C1A	351086	17	
	2	9, 12				C1 x 2	351095	9.1	6.00	0.64	2.13	C1B	351087	22		
	2-7/16	12, 14				C1 x 2-7/16	351096	12.5	6.69	0.64	2.75					
	3	12 thru 20				C1 x 3	351097	14.4	6.88	0.77	2.88					
HSCXT205	1-1/2	6, 9	B30	30	☼ 352190	53	C2 x 1-1/2	352090	11.4	6.00	0.52	2.13	C2A	352052	20	
	2	9, 12				C2 x 2	352091	13.8	6.00	0.64	2.13	C2B	352053	25		
	2-7/16	12, 14				C2 x 2-7/16	352092	17.3	6.69	0.64	2.75					
	3	12 thru 20				C2 x 3	352093	22.1	6.88	0.77	2.88					
HSCXT305A	1-1/2	9	B40	55	☼ 253160	79	C3A x 1-1/2	243562	13.5	6.00	0.52	2.13	C3	353047	27	
	2	9, 12				C3A x 2	243563	16.0	6.00	0.64	2.13					
	2-7/16	12, 14				C3A x 2-7/16	243564	19.5	6.69	0.64	2.75					
	3	12 thru 20				C3A x 3	243565	26.0	6.88	0.77	2.88					
HSCXT405A	1-1/2	9	B40	55	☼ 254209	101	C4A x 1-1/2	244594	19.0	6.00	0.52	2.13	C4	354121	31	
	2	9, 12				C4A x 2	244595	20.8	6.00	0.64	2.13					
	2-7/16	12, 14				C4A x 2-7/16	244596	24.3	6.69	0.64	2.75					
	3	12 thru 20				C4A x 3	244597	29.2	6.88	0.77	2.88					
HSCXT505A	3-7/16	18 thru 24	B50	106	☼ 255209	160	C4A x 3-7/16	244598	39.3	9.13	0.89	3.88	C5	356072	43	
	2	9, 12				C5B x 2	355175	29.4	6.00	0.64	2.13					
	2-7/16	12, 14				C5B x 2-7/16	355176	33.0	6.69	0.64	2.75					
	3	12 thru 20				C5B x 3	355177	37.9	6.88	0.77	2.88					
	3-7/16	18 thru 24					C5B x 3-7/16	355178	48.3	9.13	0.89	3.88				
Reducer Size	Actual Ratio	Max. RPM of Shaft		A	H	K	L	U	V	W	X	Y				
		Input	Driven													
HSCXT105	5.62	2246	400	16.28	3.22	8.38	♥	7.13	3.75	3.27	♥	9.39				
HSCXT205	5.62	2246	400	16.50	3.56	8.50	◆	8.38	4.09	3.86	◆	10.33				
HSCXT305A	5.31	2124	400	20.00	3.69	10.31	11.38	9.25	4.84	4.28	13.72	12.19				
HSCXT405A	5.27	2108	400	21.00	4.00	10.63	11.38	10.38	5.50	4.88	15.94	16.50				
HSCXT505A	5.69	2275	400	22.00	4.25	11.72	11.38	13.00	6.56	5.86	18.31	16.86				

† Complete drive consists of reducer, CEMA drive shaft with key, and adapter assembly. Drive is shipped unassembled.

▲ Includes adapter, necessary mounting bolts and seal retainer. Both lip type and braided type seals included for customer's choice of application.

★ CEMA drive shaft and key furnished unless otherwise specified. See pages G1-120 thru G1-122 for optional drive shafts available from DODGE.

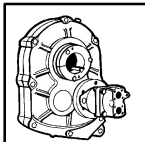
■ Reducer includes HYDROIL motor adapter.

♥ L=7", X=9.94" when using a C1A adapter; L=11.38", X=11.88" when using a C1B adapter.

♦ L=7", X=11.41" when using a C2A adapter; L=11.38", X=13" when using a C2B adapter.

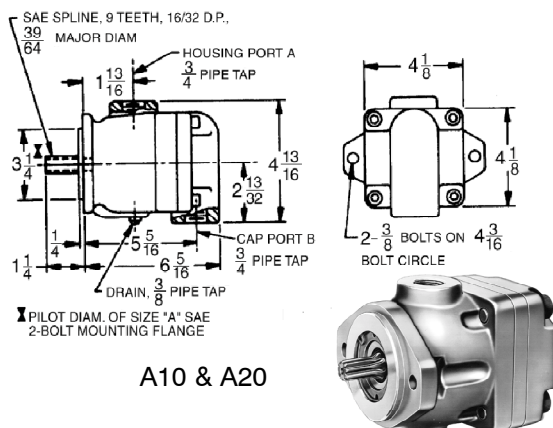
♣ Made to order.

NOMENCLATURE PAGES G1-10-G1-11	SELECTION PAGES G1-127-G1-136	ENGINEERING/TECHNICAL PAGES G1-187-G1-201	
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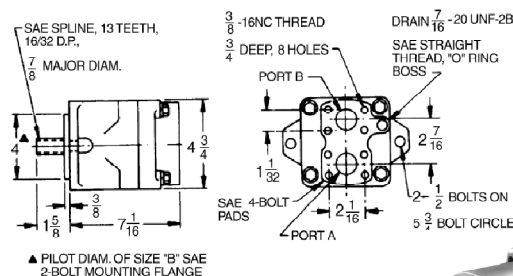


SELECTION/DIMENSIONS

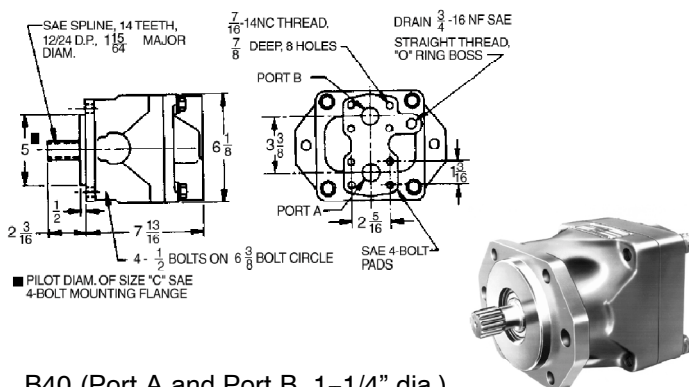
HYDROIL TORQUE-ARM Shaft Mount Speed Reducers HYDROIL VANE MOTORS



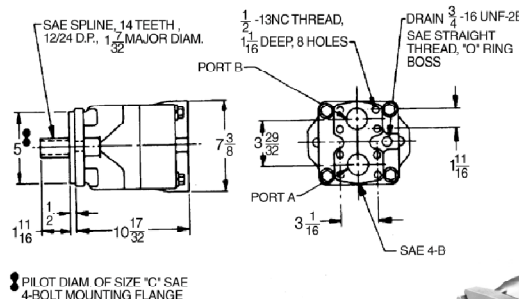
A10 & A20



B30 (Port A and Port B, 1" dia.)



B40 (Port A and Port B, 1-1/4" dia.)



B50 (Port A and Port B, 2" dia.)

HYDROIL Vane Motors—are superior single stage vane type fluid motor. A series of internal ports admit oil to and carry it from the power element. Complete hydraulic balance of the assembly contributes to the mechanical efficiency and long life of these motors as well as to their unusually quiet operation. Other exclusive features assure a minimum of friction and efficient valving action regardless of operating speeds.

HYDROIL Vane Motors can be run in either direction of rotation. Flow into port A (see drawing) will result in clockwise rotation as viewed from shaft end of motor. Flow into port B will result in counterclockwise rotation.

Inlet and outlet ports on sizes A10 and A20 will accommodate standard tapered pipe fittings. Larger sizes will accommodate SAE split flanges.

Drains should be connected to tank with connections and hoses capable of withstanding 50 psi. No drain is required on sizes A10 and A20 if the housing port is the low pressure port and is never subjected to more than 20 psi, in which case the motor drains internally.

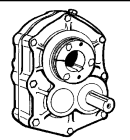
HYDROIL Vane Motors for HXT Reducers

Motor Size	Part Number	Wt. (lbs)
A10	444049	11
A20	444050	11
B30	444054	30
B40	444055	55
B50	444056	106

NOTE: HXT1 thru HXT7 reducers are available in selected ratios to accommodate H, S, T and 2000-Series 6B spline, SAE "A" 2-bolt motors. See Related Products section for information on the HXT6B spline reducers.

SELECTION PAGES G1-127-G1-136	DIMENSIONS PAGES G1-137-G1-142	ENGINEERING/TECHNICAL PAGES G1-187-G1-201	
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RELATED PRODUCTS



HYDROIL TORQUE-ARM Shaft Mount Speed Reducers

CHAR-LYNN* COMPATIBLE 6B SPLINE REDUCER

New hydraulically powered DODGE TORQUE-ARM Twin Taper bushed speed reducers with 6B spline, SAE "A" 2-bolt motor flange. Suitable for Char-Lynn H, S, T and 2000 series motors or equal. This is a modified version of the famous TORQUE-ARM speed reducer with the same quality features and ease of installation.

- Twin Tapered Mounting
- Material Cost Savings
- Installed Cost Savings
- Simple Installation
- No Periodic Maintenance Cost Associated with Chain Drives
- Eliminate V-Drives
- Compact Drive Design
- Infinitely Adjustable Speeds/Torque
 - Driven machinery can be inched/jogged
 - Direction of rotation can be reversed
 - Low speed, high torque capability
- Shock Resistant Helical Gearing
- Reduced Motor Costs
- Optimized Pressure, Ratio and Flow
- No Motor Drain

Specifications

Reducer will be modified on the input section to facilitate the mounting of a basic Char-Lynn hydraulic motor or equivalent. This modification allows the mounting of H, S, T and 2000 series motors which must be equipped with a two-bolt SAE "A" flange (3.25 pilot diameter) and a 6B spline shaft (other comparably equipped motor brands will also work).

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

*Char-Lynn is a registered trademark of EATON

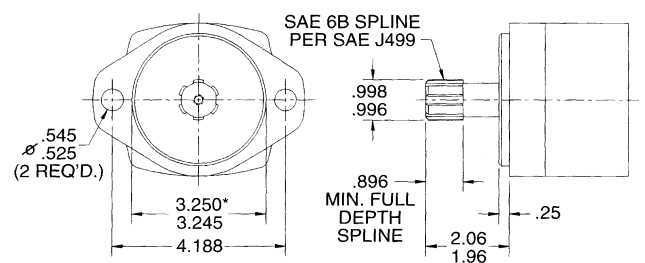
Maximum RPM

Reducer Size	Double Reduction					Single Reduction		
	Input		Driven			Reducer Size	Input	Driven
	15	25	9	15	25			
HXT3 6B	–	2100	200	140	85	HXT105 6B	2246	400
HXT4 6B	2118	2072	200	140	85	HXT205 6B	2116	400
HXT5 6B	–	2044	200	125	80	HXT305 6B	2240	400
HXT6 6B	–	2010	200	125	80	HXT405 6B	2280	400
HXT7 6B	–	1844	200	125	75	HXT505 6B	2287	400

TORQUE-ARM Hydraulic Taper Bushed Speed Reducers

Reducer Size	Part Number	Exact Ratios	Max. Bore
HXT105T C/L 6B	251140	5.62	1.44
HXT205T C/L 6B	252140	5.29	1.94
HXT305AT C/L 6B	253140	5.60	2.19
HXT405AT C/L 6B	254140	5.65	2.44
HXT505AT C/L 6B	255160	5.67	2.94
HXT325AT CL 6B	243571	24.71	2.19
HXT415AT C/L 6B	244556	15.13	2.44
HXT425AT C/L 6B	244557	24.38	2.44
HXT525BT C/L 6B	245640	25.56	2.94
HXT625T C/L 6B	246520	25.13	3.44
HXT725T C/L 6B	247520	24.59	3.94

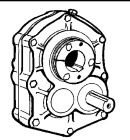
Motor Mounting Dimensions



* PILOT DIA. OF SIZE "A" SAE TWO-BOLT MOUNTING FLANGE

SELECTION PAGES G1-12-G1-25	DIMENSIONS PAGES G1-26-G1-67	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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RELATED PRODUCTS



HYDROIL TORQUE-ARM Shaft Mount Speed Reducers

- Class I – Refer to pages G1-15 – G1-16 to determine appropriate drive service factor for your specific application and duty cycle. Refer to tables below for reducer Class I ratings.
- Class II – Refer to pages G1-15 – G1-16 to determine appropriate drive service factor for your specific application and duty cycle. To obtain Class II reducer ratings, divide Class I ratings from the tables below by 1.4.
- Class III – Refer to pages G1-15 – G1-16 to determine appropriate drive service factor for your specific application and duty cycle. To obtain Class III reducer ratings, divide Class I ratings from the tables below by 2.0.

Continuous Input Horsepower – Class I*

Output RPM	Reducer Size										
	HXT105 C/L	HXT205 C/L	HXT305A C/L	HXT405A C/L	HXT505A C/L	HXT325A C/L	HXT415A C/L	HXT425A C/L	HXT525B C/L	HXT625 C/L	HXT725 C/L
1	0.06	0.11	0.16	0.22	0.33	0.17	0.26	0.26	0.44	0.69	1.00
5	0.26	0.52	0.72	1.01	1.55	0.84	1.29	1.29	2.18	3.46	4.98
10	0.50	0.99	1.41	1.96	3.04	1.68	2.52	2.52	4.35	6.89	9.66
20	0.98	1.95	2.45	3.88	6.05	3.30	4.98	4.98	8.38	13.37	18.68
30	1.47	2.90	4.14	5.78	8.74	4.90	7.33	7.33	12.24		
40	1.95	3.85	5.51	7.64	11.13		9.52				
50	2.43	4.81	6.88	9.55	13.51		11.57				
60	2.70	5.34	7.92	11.07							
70	2.95	5.86	8.97	12.46							
80	3.22	6.38	10.01	13.85							
90	3.48	6.92	11.06	15.29							
100	3.75	7.44	12.10	16.83							
110	3.77	7.48	12.53								
120	3.98	7.92	13.46								
130	4.21	8.37	14.41								
140	4.42	8.81									
150	4.66	9.27									
160	4.87	9.71									

* INPUT HP-HP rating of reducer at input shaft under continuous operation after load has been started.

Continuous Output Torque – Class I**

Output RPM	Reducer Size										
	HXT105 C/L	HXT205 C/L	HXT305A C/L	HXT405A C/L	HXT505A C/L	HXT325A C/L	HXT415A C/L	HXT425A C/L	HXT525B C/L	HXT625 C/L	HXT725 C/L
1	3470	6980	9580	13500	20100	10400	16000	16000	27000	42700	61600
5	3200	6380	8950	12500	19200	10400	16000	16000	27000	42700	61600
10	3100	6140	8700	12100	18800	10400	15600	15600	26900	42600	59700
20	3040	6020	8580	12000	18700	10200	15400	15400	25900	41300	57700
30	3020	5980	8530	11900	18000	10100	15100	15100	25200		
40	3010	5950	8510	11800	17200		14700				
50	3000	5940	8500	11800	16700		14300				
60	2780	5500	8160	11400							
70	2600	5170	7920	11000							
80	2490	4930	7730	10700							
90	2390	4750	7590	10500							
100	2320	4600	7480	10400							
110	2120	4200	7040								
120	2050	4080	6930								
130	2000	3980	6850								
140	1950	2890									
150	1920	3820									
160	1880	3750									

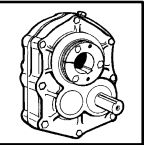
** OUTPUT TORQUE – Continuous output torque rating of reducer (in-lbs)

PEAK HP – Momentarily, peak horsepower may be very high. For example, in applications with high inertia loads, oversize or high torque motors, etc. Where this momentary peak exceeds 200% of normal (100% overload) the equivalent HP may be obtained by dividing the peak HP by two. If the results exceed the horsepower obtained from a consideration of service and duty, it should be used to select the reducer size.

NOTE: Below 15 RPM output speed, oil level must be adjusted to reach highest oil level plug (P).

SELECTION PAGES G1-12-G1-25	DIMENSIONS PAGES G1-26-G1-67	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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RELATED PRODUCTS



TORQUE-ARM Shaft Mount Speed Reducers

HARSH DUTY ACCESSORIES

XT CORROSION RESISTANCE

Epoxy Paints

Standard factory paint is a high quality true two-part epoxy suitable for incidental food contact by the USDA. This enhancement coating offers excellent chemical resistance, salt spray resistance and resists hostile elements of washdown or harsh outdoor environments. Color options for this coating offered are black and white. Factory cycle item.

Zinc Plated Fasteners

Includes all housing and Torque-Arm rod fasteners. Factory assembled.

Teflon Coated Tapered Bushings*

All exposed surfaces coated for tough, resilient protection with black Teflon (DODGE S293D). Zinc plated fasteners included. Tested 1,000,000 starts & stops, outdoors in caustic spray. Factory cycle item.

*Patented or patents pending

CEMA Stainless Steel Drive Shafts for Screw Conveyor Drives

Thirteen stock sizes, #316 stainless steel, three hole construction or use two holes.

C1X1-1/2, C1X2, C2X1-1/2, C2X2, C3AX2, C3AX2-7/16, C4AX2, C4AX2-7/16, C4AX3, C5BX2-7/16, C5BX3, C6X3, C7X3-7/16

XT HOSTILE ENVIRONMENTS

Filter Breather

Optional 40 micron filter with cap. Combats dust, dirt and wet environments. Replaces standard breather assembly. Stock item.

Enclosed Breather Chamber

Elastic diaphragm enclosed in steel chamber provides closed system. Protects reducer components and lubricant in wet, dusty or hot environments. Install in new reducer installations only. Mounts in uppermost position and replaces standard breather. Stock item.

Oil Sump Heater

110 volt, single phase, AC cartridge heater, threads into standard tapped drain hole. Provides approximately 70°F temperature rise in one hour for cold climates. Simple time phased on/off construction. Standard oil sump heater does not come with thermostat. Factory cycle item.

CEMA AC Packing gland Adaptor

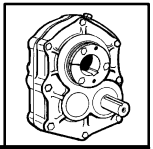
For tough, abrasive environments. Protects reducer from contamination. Open center cavity for dropout. Multiple braided felt seal rings. Repack without removal. Stock item.

Long Term Storage

Preparation for long storage or delayed job start-up. Reducer is protected internally with a vapor phase corrosion inhibiting oil. Breather removed and reducer sealed with pipe plug. Factory cycle item.

SELECTION PAGES G1-12-G1-25	DIMENSIONS TXT PAGES G1-26-G1-67	DIMENSIONS SCXT PAGES G1-90-G1-126	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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RELATED PRODUCTS



TORQUE-ARM Shaft Mount Speed Reducers

HARSH DUTY ACCESSORIES

XT SAFETY & SEALING

Metal End Covers, Open, Closed and Split

- Protection for oil seal areas and from rotating components. Enhances seal life.
- Closed or open for input shaft side. Two piece split for backstop side.
- Simply position on reducer, drill holes and insert self tapping screws. Stock item.

Oil Filter System (TXT 4A-12)*

Oil cycles through standard filter several times daily. Simply bolt kit to backstop area and connect to standard drain. Reduces maintenance, extends lubricant life and minimizes wear factors. No pumps required. Mounting position B only. Stock item.

*Patented or patents pending.

New Dual Lip Oil Seals, All Sizes Standard

Increased nitrile content for wear resistance, spring loaded, precision double lip construction, rubber outside diameter. Standard feature.

Extended life high temperature and abrasion resistant XT harsh duty oil seals (TXT 5B-10 double reduction.) Stocked individually or installed to order. Optional feature.

The addition of lithium sterate aluminate to the XT harsh duty seal compound acts as a friction-reducing, antiwear additive resulting in extended service life. XT harsh duty seals provide 4 to 6 times the abrasion resistance of standard nitrile seals, resulting in lower seal life and less unscheduled downtime.

As oil temperature increases, seal life may be reduced. With standard nitrile seals, the increase in temperature from 200°F to 225°F can reduce seal life up to 50% as the seal lip gets brittle and cracks. XT harsh duty seals will handle up to 350°F (176°C), a 40% increase in temperature capability over standard nitrile seals.

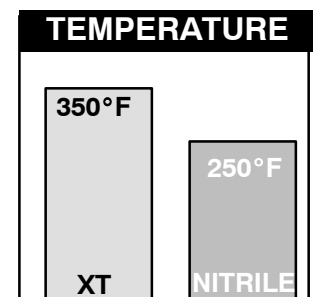
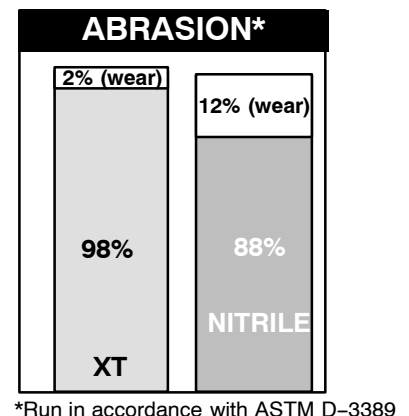
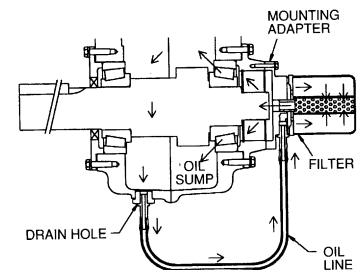
Note: Contact DODGE if oil sump temperature exceeds 200°F maximum with petroleum lubricants.

Belt Guards, Backstops

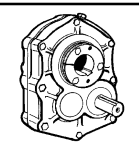
Stock items. Rugged slotted metal construction with welded straps. No drilling required to install. Includes mounting hardware and bolts to reducer and motor mount. Backstops prevent reversing and allow for either direction of operation.

Input Auxiliary Seal

Metal cover with internal V-Seal/Labyrinth construction. Complete with lubrication filling or no-lub plug. Combats dust, dirt and moisture. Protects high speed oil seal. Stock item.



SELECTION PAGES G1-12-G1-25	DIMENSIONS PAGES G1-26-G1-67	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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RELATED PRODUCTS

TORQUE-ARM Shaft Mount Speed Reducers

HARSH DUTY ACCESSORIES

XT LUBRICATION

- Oil level sight gauge. Stock item
- New DODGE/AGMA/ISO viscosity standards
- New higher viscosity lubricant selections
- Brand options

Maximizing productivity and uptime is paramount in today's industry. By following some simple recommendations on lubrication, OEMs and users can improve product performance and reduce downtime. Remember, the purpose of speed reducer lubrication is to minimize frictional forces, eliminate wear and dissipate heat.

The American Gear Manufacturing Association (AGMA) and ISO have recently changed their lubrication standards.

This change was necessitated by the increased horsepower that helical gearing is asked to transmit. As a result, higher ISO viscosity grades have been selected. The proper oil viscosity is based upon ambient temperature and gearing pitch line velocity. DODGE has converted pitch line velocity into reducer output speed (RPM).

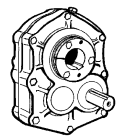
RECOMMENDED LUBRICANTS FOR TORQUE-ARM REDUCERS +					
With or Without Backstop			EP Oils Without Backstops		
EXXON					
150	Teresstic	150	Spartan EP	150	
220		220		220	
320		320		320	
CHEVRON					
150	Machine	150	Gear Compound EP	150	
220		220		220	
320		320		320	
UNICAL					
150	Turbine Oil	150	Extra Duty HL Gear Lube	141	
220		220		207	
320		320		300	
MOBIL SYNTHETIC					
150	SHC	629	SHC	629	
220		630		630	
320		632		632	
MOBIL					
150	Mobil DTE Extra Heavy	BB AA	Mobil Gear	629	
220				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.					

For further lubrication information, refer to DODGE TORQUE-ARM lubrication Manual 499336 or individual product manuals.

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

SELECTION PAGES G1-12-G1-25	DIMENSIONS PAGES G1-26-G1-67	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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RELATED PRODUCTS

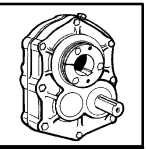


TORQUE-ARM Shaft Mount Speed Reducers

HARSH DUTY & SENSORIZED ACCESSORIES

Product	Part #	Product	Part #
TXT4 Oil Filter Kit	244698	TXT505A Taconite Aux Seal Kit	255230
TXT5 Oil Filter Kit	245698	TXT5B Taconite Aux Seal Kit	245635
TXT6 Oil Filter Kit	246698	TXT6 Taconite Aux Seal Kit	272450
TXT7 Oil Filter Kit	247698	TXT7 Taconite Aux Seal Kit	272451
TXT8 Oil Filter Kit	248488	TXT8 Taconite Aux Seal Kit	272452
TXT9 Oil Filter Kit	249488	TXT9 Taconite Aux Seal Kit	272453
TXT10 Oil Filter Kit	250448	TXT10 Taconite Aux Seal Kit	272454
TXT12 Oil Filter Kit	252198	TXT12 Taconite Aux Seal Kit	272455
TXT Encl Breather Sys. Sm (1-10)	240050	TDT 13 Taconite Aux Seal Kit	272456
TXT Encl Breather Sys. Lg (12-15)	240051	TDT14 Taconite Aux Seal Kit	272457
TXT 5D Harsh Duty Input Seal	245543	TDT15 Taconite Aux Seal Kit	272458
TXT 6D, 7D, 705 XT Duty Input Seal	246543	3/8 Sight Oil Level Gauge (TXT1-4)	•430121
TXT8-10D, 805, 905, XT Duty I/P Seal	248443	1/2 Sight Oil Level Gauge (TXT5-6)	•430139
TXT 5D Harsh Duty Output Seal	245444	3/4 Sight Oil Level Gauge (TXT7-TDT15)	•430159
TXT 6D Harsh Duty Output Seal	246444	C1x1-1/2 3 H SS Drive Shaft	351025
TXT 7D Harsh Duty Output Seal	247444	C1x2 3H SS Drive Shaft	351026
TXT 8D Harsh Duty Output Seal	248444	C2x1-1/2 3H SS Drive Shaft	352186
TXT 9D Harsh Duty Output Seal	249444	C2x2 3H SS Drive Shaft	352187
TXT 10D Harsh Duty Output Seal	250444	C3Ax2 3H SS Drive Shaft	353181
3/8 Filter Breather Plug	430048	C3Ax2-7/16 3H SS Drive Shaft	353182
1/2 Filter Breather Plug	430049	C4Ax2 3H SS Drive Shaft	354352
Pressure Breather Vent Plug	•6-030657	C4Ax2-7/16 3H SS Drive Shaft	354353
TXT 1-4 Immersion Heater	241103	C4Ax3 3H SS Drive Shaft	354354
TXT 5-6 Immersion Heater	241104	C5Bx2-7/16 3H SS Drive Shaft	355226
TXT 7-10 Immersion Heater	241105	C5Bx3 3H SS Drive Shaft	355227
TXT1 SS Cls Aux Cvr Asy	246601	C6x3 3H SS Drive Shaft	356276
TXT1 SS Opn Aux Cvr Asy	246602	C7x3-7/16 3H SS Drive Shaft	356283
TXT1 BS Split Aux Cvr Asy	246603	AC1B Adj. Pack Adpt Asy	356168
TXT2 SS Cls Aux Cvr Asy	246604	AC2B Adj Pack Adpt Asy	356112
TXT2 SS Opn Aux Cvr Asy	246605	AC3B Adj Pack Adpt Asy	356163
TXT2 BS Split Aux Cvr Asy	246606	AC4 Adj Pack Adpt Asy	356149
TXT3A SS Cls Aux Cvr Asy	246607	AC5 Adj Pack Adpt Asy	356158
TXT3A SS Opn Aux Cvr Asy	246608	AC6 Adj Pack Adpt Asy	356154
TXT3A BS Split Aux Cvr Asy	246609	AC7 Adj Pack Adpt Asy	356192
TXT4A SS Cls Aux Cvr Asy	246610	SCXT1 Taconite Aux Seal Kit	272721
TXT4A SS Opn Aux Asy	246611	SCXT2 Taconite Aux Seal Kit	272722
TXT4A BS Split Aux Cvr Asy	246612	SCXT3A Taconite Aux Seal Kit	243582
TXT 5B SS Cls Aux Cvr Asy	246616	SCXT4A Taconite Aux Seal Kit	244677
TXT5B SS Opn Aux Cvr Asy	246617	SCXT5B, 505A Taconite Aux Seal Kit	245637
TXT5B SS BS Split Aux Cvr Asy	246618	SCXT6 Taconite Aux Seal Kit	272726
TXT6 SS Cls Aux Cvr Asy	246619	SCXT7 Taconite Aux Seal Kit	272727
TXT6 SS Opn Aux Cvr Asy	246620	TXT/SCXT 1 Input Taconite Seal	241102
TXT6 BS Split Aux Cvr Asy	246621	TXT/SCXT 2 Input Taconite Seal	242102
TXT7 SS Cls Aux Cvr Asy	246622	TXT/SCXT 3A Input Taconite Seal	243108
TXT7 SS Opn Aux Cvr Asy	246623	TXT/SCXT 4A Input Taconite Seal	244117
TXT7 BS Split Aux Cvr Asy	246624	TXT/SCXT 5B Input Taconite Seal	245104
TXT8 SS Cls Aux Cvr Asy	246625	TXT/SCXT 6, 605 Input Taconite Seal	246102
TXT8 SS Opn Aux Cvr Asy	246625	TXT/SCXT 7, 705 Input Taconite Seal	247102
TXT8 BS Split Aux Cvr Asy	246627	TXT 8, 805 Input Taconite Seal	248102
TXT9 SS Cls Aux Cvr Asy	246628	TXT 9, 905 Input Taconite Seal	249102
TXT9 SS Opn Aux Cvr Asy	246629	TXT 10 Input Taconite Seal	250102
TXT9 SS Split Aux Cvr Asy	246630	TXT 12 Input Taconite Seal	252102
TXT10 SS Cls Aux Cvr Asy	246631	TXT/SCXT 105 Input Taconite Seal	241109
TXT10 SS Opn Aux Cvr Asy	246632	TXT/SCXT 205 Input Taconite Seal	242109
TXT10 BS Split Aux Cvr Asy	246633	TXT/SCXT 305A Input Taconite Seal	243109
TXT12 SS Cls Aux Cvr Asy	246634	TXT/SCXT 405A Input Taconite Seal	244159
TXT12 SS Opn Aux Cvr Asy	246635	TXT/SCXT 505A Input Taconite Seal	245106
TXT12 SS Split Aux Cvr Asy	246636	TXT Temperature Switch	N/A
TXT105 BS SPL Aux Cvr Asy	246613	TXT Service Hour Meter	N/A
TXT205 BS SPL Aux Cvr Asy	246614	TXT Thermocouple/Transmitter	N/A
TXT305 BS SPL Aux Cvr Asy	246615	TXT Breather Pressure Switch	N/A
TXT1 Taconite Aux Seal Kit	272515	TXT Temp Switch or Brthr Switch Alarm Monitor	063524
TXT105 Taconite Aux Seal Kit	272521	Transmitter Only	N/A
TXT2 Taconite Aux Seal Kit	272446	TXT Accelerometer	N/A
TXT205 Taconite Aux Seal Kit	272459	TXT1-TXT3 Sensor Bracket	N/A
TXT305A Taconite Aux Seal Kit	253186	TXT4-TXT6 Sensor Bracket	N/A
TXT3A Taconite Aux Seal Kit	243577	TXT7-TXT10 Sensor Bracket	N/A
TXT405A Taconite Aux Seal Kit	254267	TXT12 Sensor Bracket	N/A
TXT4A Taconite Aux Seal Kit	244676	• Available as Renewal Parts	

SELECTION PAGES G1-12-G1-25	DIMENSIONS PAGES G1-26-G1-67	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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RELATED PRODUCTS

TORQUE-ARM Shaft Mount Speed Reducers

XT OPERATIONAL SENSING•

ACCELEROMETER*

- Shock resistant Piezo electric element
- Sensitivity 100mV/g
- Range $\pm 50g$
- Frequency response $\pm 3dB$, .5 – 10,000 Hz
- Temperature range $-65^{\circ}F - 185^{\circ}F$
- Full scale output $\pm 5V$
- Single axis monitor
- Compatible with most vibration monitoring equipment
- Factory installed

How it Works

When powered by the vibration transmitter, a signal between +5 and -5 volts, which is representative of the vibration seen by the sensor, is generated. This signal then can be analyzed for any change in the amplitude of the various frequencies to assist in the identification of potential problems. The accelerometer is mounted on the inside of a protective cast enclosure.

THERMOCOUPLE/TRANSMITTER*

- Type J thermocouple
- Temperature $0^{\circ}F - 250^{\circ}F$
- 4–20 milliampere output or regular thermocouple output
- Reverse polarity protected
- Accuracy $\pm .5^{\circ}F$
- Pre-adjusted zero and span
- Transmitter supply voltage 8.5 volts to 35 volts DC
- Factory Installed

How it Works

The iron/constantan thermocouple is epoxied inside a thermwell that is threaded to the reducer housing oil drain hole and the thermwell is in constant contact with the oil sump. The thermocouple generates a voltage signal proportional to the reducer oil temperature. The transmitter when powered with DC power supply will generate a 4–20 milliampere current proportional to the reducer oil temperature.

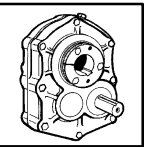


* Mounting bracket for each size reducer accommodates one or all of the above

- Patented or patents pending

SELECTION PAGES G1-12-G1-25	DIMENSIONS PAGES G1-26-G1-67	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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RELATED PRODUCTS



TORQUE-ARM Shaft Mount Speed Reducers

XT OPERATIONAL SENSING•

BREATHER PRESSURE SWITCH*

- Normally open switch
- Operation at 6V, 12V, 24DC and 120V AC
- Current capability 15 ampere at 6 VDC to .5 ampere at 240 VAC
- Temperature range -40°F to 250°F
- Factory installed

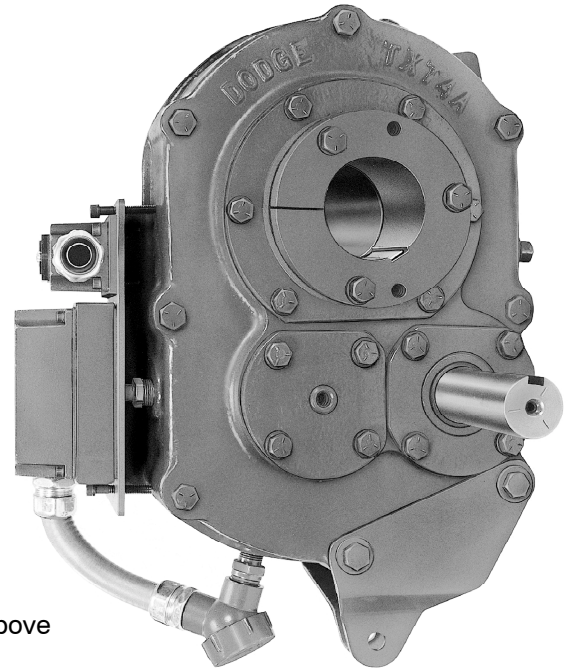
How it Works

Pressure switch senses the internal reducer pressure. If the reducer breather is plugged, the internal pressure rises. As the pressure inside the reducer reaches the threshold of the pressure switch, the switch closes. The switch can be made to activate an alarm and/or a light to attract attention to the high pressure condition before the oil pressure becomes excessive and causes oil leakage. The switch can also be connected to a PLC for continuous monitor.

Note: Not required or compatible when using enclosed breather chamber.

*Mounting bracket for each size reducer accommodates one or all of the above

- Patented or patents pending



TEMPERATURE SWITCH

- Normally open
- AC voltage up to 250V 50/60 Hz
- Standard closure temperature 203°F ± 9°F
- Contact resistance <.04 Ohm
- Current capability up to 10 amperes
- Factory assembled
- Factory installed

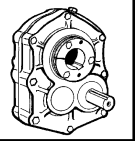
How it Works

A temperature switch is epoxied inside thermwell that is threaded to the reducer housing drain hole. The thermwell is in contact with the oil in the reducer. When the oil temperature exceeds the temperature switch threshold, the switch closes. The switch can be used to activate an alarm circuit. the optional alarm monitor consists of a warning light and high-pitched buzzer, which draws attention to the overheated condition. The switch can also be used to interface to a PLC for continuous monitoring.



* Mounting bracket for each size reducer accommodates one or all of the above

SELECTION PAGES G1-12-G1-25	DIMENSIONS PAGES G1-26-G1-67	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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RELATED PRODUCTS

TORQUE-ARM Shaft Mount Speed Reducers

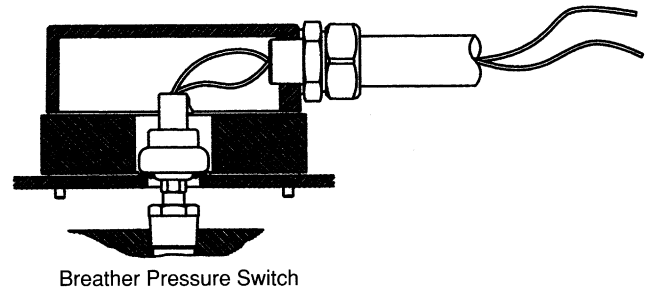
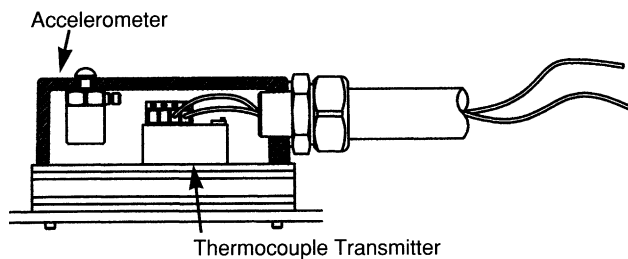
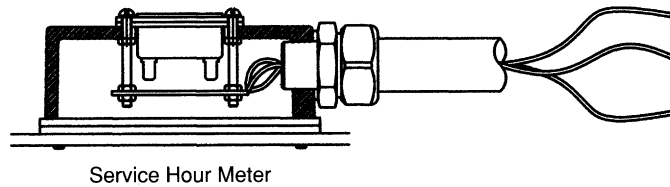
XT OPERATIONAL SENSING

SERVICE HOUR METER*

- Solid state operation
- Resolution .1 hour
- Options include 460V, 230V, and 120 VAC 50/60 Hz
- Operating temperature – 40°C to 85°C
- Factory Assembled

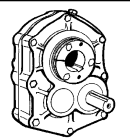
How it Works

The service hour meter measures the running time or service life of the reducer and equipment. This is accomplished by connecting the hour meter to the electric motor that drives the reducer. As the motor is started, the hour meter starts displaying the total hours the reducer or system has been in operation. By monitoring the total hours, scheduled maintenance can be implemented more readily.



* Mounting bracket for each size reducer accommodates one or all of the above.

SELECTION PAGES G1-12-G1-25	DIMENSIONS PAGES G1-26-G1-67	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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RELATED PRODUCTS

TORQUE-ARM Shaft Mount Speed Reducers

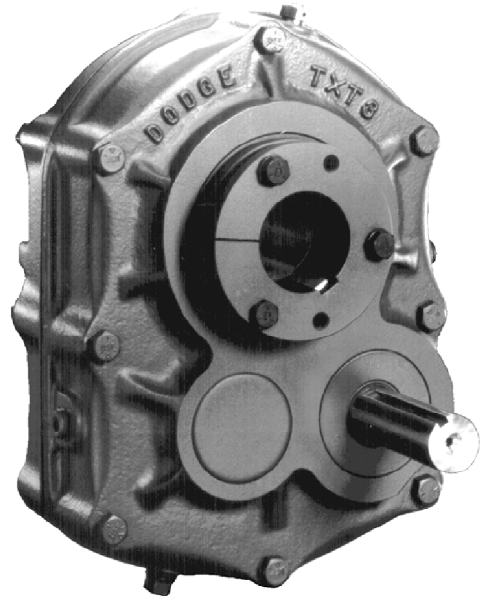
METRIC TORQUE-ARM REDUCERS

- Performance Capability thru 300kW
- Bushes Provide Reliable Installation and Easy Removal
- Case Carburized Helical Gearing 98.5% Efficient per Gear Stage
- Metric Bore Bushes and Input Shaft

General Description

DODGE TORQUE-ARM is the complete shaft mount speed reducer system. Its balanced design adds up to quality and long life.

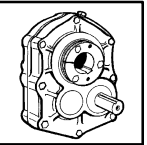
The reducer mounts directly on the driven shaft, eliminating the need for a coupling or chain drive, sliding motor base and support structure. There is no alignment problem. It is available in standard TORQUE-ARM reducer, screw conveyor drive and HYDROIL configurations.



TYPICAL FEATURES	USER BENEFITS
• Precision high quality gearing • Rugged cast-iron housing • Reliable anti-friction bearings • Strong high alloy steel shafts • Proven double lip seals • Efficient splash lubrication • Exclusive bushes	• Smooth quiet operation, long life, 98.5% efficient per gear stage • Corrosion resistant, vibration dampening and shock resistant • Straddle mounted gears for maximum support • Total reliability, maximum torsional load • Keeps oil in, locks dirt and contaminants out • Allows for mounting flexibility • Improved shaft mounting, easy installation and removal, eliminates wobble and eccentricity

SELECTION PAGES G1-154-G1-157	DIMENSIONS PAGES G1-158-G1-160	MODIFICATIONS/ACCESSORIES PAGES G1-161-G1-165	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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RELATED PRODUCTS



TORQUE-ARM Shaft Mount Speed Reducers

SELECTION AND GENERAL MOUNTING PROCEDURE FOR METRIC TORQUE-ARM SPEED REDUCERS

- Select application service factor from Table 1 on page G1-15. For extreme shock or high energy loads which must be absorbed, such as encountered when stalling, or for power source other than electric motor, consult DODGE.
- Multiply the power required by the system by the service factor. If the power required by the system is not known, multiply the motor power by the service factor.
- Check peak power required. Certain applications have peak power requirements because of high torque loads, oversized motors, or high inertia motors. When this momentary peak exceeds 200% of normal (100% overload) the equivalent power may be obtained by dividing by two.
- Larger of B or C is required power.
- Using required power from Step D and output speed, select reducer size from Power Rating Tables on pages G1-155 thru G1-157. Select reducer that provides required power or greater.

EXAMPLE:

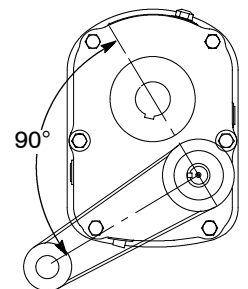
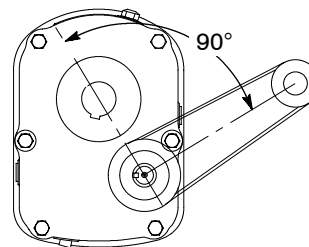
4 kW, 1440 RPM motor driving a 20 RPM head shaft of a bucket elevator, 16 hours per day. From Table 1 on page G1-15 note this is a Class II application. Using the 4 kW power x 1.4 service factor gives 5.6 kW to size the reducer. The power rating table on page G1-157 indicates a TXT M5B with a 15:1 or 25:1 ratio will transmit the load. A more economical belt drive can be selected if the TXT M5B with a 25:1 ratio is used.

Reducer Mounting Positions—The normal mounting position is shown in drawing on page G1-158. The reducer may be mounted at 90° or 180° from normal position, with a $\pm 20^\circ$ tolerance, by relocating breather and drain plugs to suit the application. For other positions, an oil level gauge is recommended.

TORQUE-ARM Positions—The ideal position for the TORQUE-ARM is at right angles (90°) to a line between the point of attachment to the reducer and the output shaft with a $\pm 20^\circ$ tolerance.

V-belt Drives—Pulleys used on the reducer input shaft of a drive should not be smaller than "G" pitch diameter given in the tables on the dimensional pages. The input shaft speed should not exceed the figures shown.

The V-belt drive may be located in any convenient position regardless of the location of the torque-arm. The most common locations, however, are shown in the diagrams below (90° to a line between the input and output shafts). These locations permit control of belt tension with a minimum adjustment of the torque-arm turnbuckle.



Ordering Instructions

Size—Specify reducer size and part number. Page G1-158 shows available bores. **Example:** TXT M415A, No. 264706

Bushes—All taper bushed reducers require bushes. Specify bush size number, bore required and part number

Backstop—Specify by reducer size and part number. They are packaged separately and may be found in the tables on page G1-163.

Motor Mounts—Specify, if desired. Give Motor Mount

from page G1-158. **Example:** TXT M4 x 50mm tapered bush assembly, 244372.

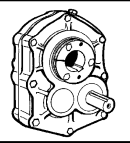
Torque-Arm—Furnished in price of the reducer; complete with fulcrum and turnbuckle.

size number and part number. They are packaged separately. For Torque-Arm Motor Mounts, see pages G1-164 and G1-165.

Oil—Reducers are shipped without oil.

SELECTION PAGES G1-154-G1-157	DIMENSIONS PAGES G1-158-G1-160	MODIFICATIONS/ACCESSORIES PAGES G1-161-G1-165	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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RELATED PRODUCTS



TORQUE-ARM Shaft Mount Speed Reducers

METRIC TORQUE-ARM REDUCERS

TXT M Speed Reducers

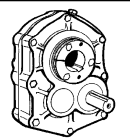
Power Ratings (kW) 5:1 Units

RPM	TXT M105 kW	TXT M205 kW	TXT M305A kW	TXT M405A kW	TXT M505A kW	TXT M605 kW	TXT M705 kW	TXT M805 kW	TXT M905 kW
90	3.16	5.42	8.10	14.2	17.5	35.8	60.5	78.4	96.2
100	3.35	5.75	8.73	14.6	18.7	38.5	65.2	82.8	104.5
110	3.54	6.04	9.33	15.1	19.9	40.5	69.2	87.3	110.3
120	3.73	6.34	9.89	15.8	21.1	42.4	73.2	91.7	116.1
130	3.94	6.57	10.44	16.4	22.3	44.4	77.2	96.1	121.9
140	4.14	6.79	10.95	17.1	23.2	46.4	81.2	100.6	127.8
150	4.35	6.94	11.45	17.7	24.0	48.4	85.3	104.9	133.6
160	4.56	7.24	11.91	18.4	24.8	49.7	88.9	109.3	139.3
170	4.77	7.46	12.36	19.1	25.7	51.0	92.5	113.7	146.3
180	4.97	7.76	12.79	19.8	26.5	52.3	96.0	118.1	153.2
190	5.18	7.91	13.18	20.5	27.4	53.6	99.6	122.5	160.2
200	5.39	8.13	13.58	21.2	28.2	54.9	103.2	126.9	167.1
210	5.46	8.28	13.89	22.0	29.1	55.9	105.7	130.6	174.0
220	5.52	8.43	14.22	22.7	29.9	56.8	108.3	134.3	181.0
230	5.59	8.58	14.56	23.3	30.9	57.8	110.8	138.1	185.6
240	5.66	8.73	14.88	24.0	31.9	58.7	113.4	141.8	189.9
250	5.72	8.88	15.17	24.7	32.9	59.7	115.9	145.5	194.3
260	5.78	9.03	15.46	25.4	33.9	60.6	118.7	149.3	199.1
270	5.85	9.18	15.72	26.1	34.9	61.4	121.5	153.0	201.8
280	5.92	9.33	15.97	26.7	35.8	62.3	124.3	156.7	204.5
290	5.99	9.48	16.21	27.4	36.8	63.1	127.1	160.4	207.2
300	6.05	9.63	16.43	28.1	37.7	64.0	130.0	164.2	209.8
310	6.10	9.78	16.64	28.8	38.6	64.9	132.5	167.9	212.8
320	6.16	9.93	16.82	29.4	39.5	65.8	135.1	171.6	215.8
330	6.22	10.07	16.99	30.1	40.3	66.7	137.7	175.4	218.7
340	6.28	10.22	17.15	30.7	41.2	67.6	140.3	179.1	221.7
350	6.34	10.37	17.31	31.3	42.0	68.5	142.8	181.0	224.7
360	6.40	10.52	17.38	31.9	42.9	69.4	144.6	182.8	227.6
370	6.46	10.67	17.53	32.5	43.7	70.3	146.3	184.7	230.8
380	6.51	10.82	17.64	33.1	44.6	71.2	148.0	186.6	234.0
390	6.57	10.97	17.76	33.7	45.0	72.1	149.8	188.4	237.2
400	6.63	11.04	17.86	34.3	45.3	73.1	151.5	190.3	240.3

Shaded area indicates fan cooling may be required. Consult DODGE.

SELECTION PAGES G1-154-G1-157	DIMENSIONS PAGES G1-158-G1-160	MODIFICATIONS/ACCESSORIES PAGES G1-161-G1-165	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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RELATED PRODUCTS



TORQUE-ARM Shaft Mount Speed Reducers

METRIC TORQUE-ARM REDUCERS

TXT M Speed Reducers

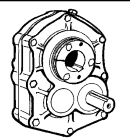
Power Ratings (kW) 9:1 Units

OUTPUT RPM	TXT M109 kW	TXT M209 kW	TXT M309A kW	TXT M409A kW	TXT M509B kW	TXT M609 kW	TXT M709 kW
126	4.84	8.01	13.74	22.45	31.77	51.53	82.40
128	4.89	8.12	13.90	22.67	32.14	51.90	83.37
130	4.94	8.23	14.05	22.97	32.59	52.27	84.34
132	5.00	8.34	14.20	23.19	32.96	52.57	85.23
134	5.05	8.46	14.35	23.49	33.33	52.94	86.20
136	5.09	8.56	14.50	23.79	33.71	53.24	87.17
138	5.15	8.67	14.65	24.01	34.15	53.62	88.07
140	5.20	8.78	14.80	24.31	34.53	53.91	88.96
142	5.24	8.89	14.97	24.53	34.90	54.14	89.86
144	5.29	8.99	15.14	24.76	35.27	54.44	90.75
146	5.34	9.10	15.30	25.06	35.64	54.73	91.65
148	5.39	9.21	15.47	25.28	36.02	54.96	92.47
150	5.44	9.31	15.62	25.50	36.39	55.18	93.36
152	5.49	9.42	15.79	25.80	36.76	55.41	94.18
154	5.53	9.52	15.94	26.02	37.14	55.55	95.00
156	5.59	9.63	16.11	26.25	37.51	55.78	95.90
158	5.63	9.73	16.26	26.47	37.88	56.00	96.64
160	5.68	9.84	16.42	26.70	38.18	56.15	97.46
162	5.73	9.94	16.57	26.92	38.55	56.37	98.28
164	5.77	10.04	16.73	27.14	38.93	56.60	99.03
166	5.82	10.14	16.88	27.37	39.22	56.75	99.85
168	5.87	10.25	17.03	27.59	39.60	56.97	100.59
170	5.91	10.34	17.18	27.81	39.97	57.20	101.34
172	5.96	10.45	17.33	28.04	40.27	57.34	101.94
174	6.00	10.54	17.47	28.26	40.64	57.57	102.53
176	6.06	10.65	17.62	28.49	40.94	57.79	103.13
178	6.10	10.75	17.76	28.71	41.24	57.94	103.73
180	6.14	10.84	17.91	28.56	41.61	58.16	104.32
182	6.19	10.95	18.05	28.78	41.91	58.31	104.92
184	6.23	11.04	18.20	29.01	42.21	58.46	105.59
186	6.28	11.14	18.33	29.23	42.58	58.61	106.19
188	6.32	11.24	18.47	29.46	42.88	58.76	106.78
190	6.37	11.33	18.61	29.68	43.18	58.91	107.38

Shaded area indicates fan cooling may be required. Consult DODGE.

SELECTION PAGES G1-154-G1-157	DIMENSIONS PAGES G1-158-G1-160	MODIFICATIONS/ACCESSORIES PAGES G1-161-G1-165	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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RELATED PRODUCTS



TORQUE-ARM Shaft Mount Speed Reducers

METRIC TORQUE-ARM REDUCERS

TXT M Speed Reducers

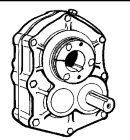
Power Ratings (kW) 15:1 and 25:1 units

RATIO	OUTPUT RPM	TXT M1 kW	TXT M2 kW	TXT M3A kW	TXT M4A kW	TXT M5B kW	TXT M6 kW	TXT M7 kW	TXT M8 kW	TXT M9 kW	TXT M10 kW	TXT M12 kW
25:1	10	0.52	0.94	1.44	2.2	3.7	5.9	8.2	12.7	17.2	24.3	37.7
	12	0.60	1.10	1.72	2.6	4.4	7.0	9.8	14.8	20.3	29.0	43.8
	14	0.69	1.25	2.00	3.0	5.1	8.1	11.3	17.0	23.4	33.7	49.9
	16	0.78	1.40	2.28	3.4	6.2	9.2	12.9	19.1	26.6	38.5	56.0
	18	0.87	1.56	2.56	3.8	6.5	10.3	14.4	21.2	29.7	43.2	61.3
	20	0.95	1.72	2.84	4.2	7.2	11.4	15.9	23.4	32.8	47.9	66.6
	22	1.03	1.87	3.11	4.6	7.8	12.5	17.4	25.7	36.0	52.5	72.0
	24	1.12	2.03	3.39	5.0	8.5	13.5	18.9	27.9	39.3	57.1	77.4
	26	1.20	2.18	3.66	5.4	9.2	14.6	20.4	30.1	42.4	61.6	83.1
	28	1.29	2.34	3.93	5.8	9.8	15.7	21.8	32.4	45.5	66.1	88.7
	30	1.37	2.49	4.20	6.2	10.4	16.7	23.3	34.6	48.7	70.5	94.3
	32	1.46	2.65	4.47	6.6	11.0	17.7	24.8	36.7	51.8	74.9	100.0
	34	1.54	2.81	4.73	6.9	11.6	18.7	26.2	38.9	54.9	79.3	105.6
	36	1.63	2.96	5.00	7.3	12.3	19.7	27.7	41.0	58.1	83.7	111.2
	38	1.72	3.11	5.26	7.7	12.8	20.7	29.1	43.2	61.1	88.0	116.9
	40	1.80	3.27	5.52	8.1	13.4	21.7	30.6	45.3	64.2	92.2	122.5
	42	1.87	3.40	5.78	8.5	14.0	22.7	32.0	47.4	67.2	96.5	127.2
	44	1.95	3.54	6.04	8.9	14.6	23.6	33.4	49.5	70.3	100.7	131.9
	46	2.02	3.67	6.30	9.2	15.1	24.6	34.8	51.5	73.3	104.9	136.6
	48	2.10	3.81	6.55	9.6	15.7	25.5	36.2	53.6	76.3	109.0	141.4
	50	2.17	3.94	6.81	10.0	16.2	26.5	37.6	55.6	79.3	113.1	146.1
15:1	52	2.25	4.07	7.06	10.3	16.8	27.4	38.9	57.7	82.2	117.2	150.8
	54	2.32	4.21	7.31	10.7	17.3	28.3	40.3	59.7	85.2	121.1	155.5
	56	2.40	4.34	7.56	11.1	17.8	29.2	41.6	61.7	88.1	125.1	160.2
	58	2.47	4.48	7.81	11.4	18.4	30.1	43.0	63.6	91.1	129.1	164.9
	60	2.54	4.61	8.05	11.8	18.8	31.0	44.3	65.6	94.0	133.0	169.6
	62	2.61	4.75	8.25	12.1	19.3	31.9	45.6	67.5	96.9	136.9	174.4
	64	2.69	4.88	8.42	12.5	19.9	32.8	46.9	69.5	99.8	140.7	179.0
	66	2.76	5.01	8.62	12.9	20.3	33.6	48.2	71.4	102.7	144.6	183.8
	68	2.84	5.14	8.83	13.2	20.7	34.5	49.5	73.3	105.5	148.3	188.5
	70	2.91	5.28	9.03	13.6	21.2	35.4	50.8	75.2	108.4	152.0	193.2
	72	2.99	5.41	9.21	13.9	21.6	36.2	52.0	77.0	111.2	155.7	197.9
	74	3.06	5.54	9.41	14.3	22.1	37.1	53.3	78.9	114.0	159.4	202.7
	76	3.13	5.68	9.60	14.7	22.5	37.9	54.5	80.7	116.8	163.0	207.4
	78	3.21	5.81	9.79	15.0	23.0	38.8	55.8	82.5	119.6	166.6	212.1
	80	3.28	5.95	9.98	15.4	23.4	39.6	57.0	84.4	122.4	170.1	216.8
	90	3.65	6.62	10.86	17.2	25.4	42.2	63.0	93.1	136.0	185.4	240.1
	100	3.99	7.22	11.70	18.6	27.1	45.1	68.7	101.5	149.2	200.7	261.2
	110	4.34	7.83	12.51	20.0	29.0	47.7	74.1	109.6	162.1	216.0	282.3
	120	4.68	8.43	13.30	21.1	30.7	50.4	79.6	116.5	174.6	231.3	303.4
	130	5.00	9.04	14.06	22.6							
	140	5.32	9.65	14.81	23.8							

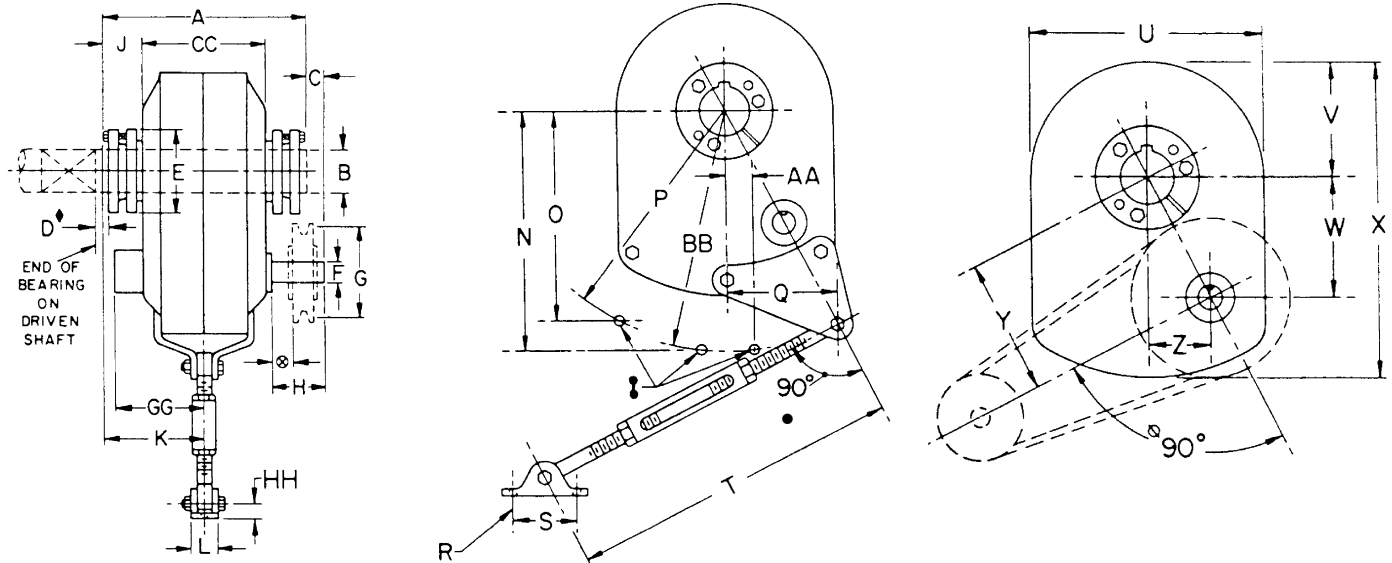
Shaded area indicates fan cooling may be required. Consult DODGE.

SELECTION PAGES G1-154-G1-157	DIMENSIONS PAGES G1-158-G1-160	MODIFICATIONS/ACCESSORIES PAGES G1-161-G1-165	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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RELATED PRODUCTS



TORQUE-ARM Shaft Mount Speed Reducers



- ◆ Recommended minimum distance to loosen bushing using bushing screws as jack screws.

- ⊗ Keep as close as possible.

Reducer will operate satisfactorily 90° or 180° from normal position shown in front view by relocating breather and drain plugs.

- The ideal position for the TORQUE-ARM is at right angles to a line between the point of attachment of the TORQUE-ARM to the reducer and the output shaft. This may vary up to 30° either way. **CAUTION:** Exceeding the ±30° variance of the TORQUE-ARM could result in excessive reaction load and result in damage to the equipment.

- Optional locations for attaching TORQUE-ARM.

- ⊗ The V-belt drive may be located in any convenient position if the TORQUE-ARM is to be used to tighten the belts. The drive should be at about 90° to a line between the input and output shafts.

TXT M1 thru TXT M10

Double Reduction Metric Taper Bushed TORQUE-ARM Speed Reducers

Reducer Size					Actual Ratio			Part Number			Wt. Kg.	A	B Max. Bore	C	D	E	F and Keyseat	G ★		H		
9:1	15:1	25:1	9:1	15:1	25:1	9:1	15:1	25:1	9	15,25												
TXT M109	TXT M115	TXT M125	9.44	15.35	25.64	264877	264875	264876	20	180	35	51	32	83	19	6x3.5x68	102	76	84			
TXT M209	TXT M215	TXT M225	9.25	14.10	23.46	264881	264879	264880	26	186	50	50	32	103	28	8x4x63	127	76	92			
TXT M309A	TXT M315A	TXT M325A	8.91	14.88	24.71	264701	264702	264703	44	234	55	60	38	111	30	8x4x73	127	102	92			
TXT M409A	TXT M415A	TXT M425A	9.68	15.13	24.38	264705	264706	264707	63	254	60	87	45	122	35	10x5x103	165	117	121			
TXT M509B	TXT M515B	TXT M525B	8.96	15.40	25.56	264709	264710	264711	94	267	75	87	46	143	48	14x5.5x114	178	130	140			
TXT M609	TXT M615	TXT M625	9.21	15.33	25.13	264897	264895	264896	129	292	85	95	46	156	55	16x6x114	178	157	138			
TXT M709	TXT M715	TXT M725	9.62	15.23	24.59	264901	264899	264900	210	326	100	95	53	184	60	18x7x121	178	157	141			
—	TXT M815	TXT M825	—	15.08	24.62	—	264903	264904	287	357	110	108	53	197	60	18x7x136	—	157	161			
—	TXT M915	TXT M926	—	15.12	25.66	—	264906	264907	345	356	125	168	62	223	60	18x7x196	—	203	225			
—	TXT M1015	TXT M1024	—	15.16	24.30	—	264909	264910	463	390	130	166	62	257	65	18x7x200	—	216	223			
Red. Size	J	K	L	N	O	P Rad.	Q	R	S	T		U	V	W	X	Y	Z	AA	BB Rad.	CC	GG	HH
										Min.	Max.											
TXT M1	33	90	27	—	184	203	87	10	63.5	605	752	181	95	81	252	95	48	—	—	114	68	24
TXT M2	35	93	32	227	191	222	114	10	76.2	684	837	213	105	95	290	110	54	21	229	116	75	27
TXT M3A	40	113	32	262	225	258	125	10	76.2	684	837	235	122	106	327	122	59	25	269	162	83	27
TXT M4A	46	121	37	299	256	291	140	12	101.6	741	893	264	140	122	384	141	70	28	301	175	86	45
TXT M5B	50	129	37	355	307	349	168	12	101.6	741	893	333	167	145	465	164	78	25	356	179	115	45
TXT M6	50	145	70	402	346	399	197	16	120.6	741	893	384	192	172	541	200	104	24	403	194	116	51
TXT M7	55	161	70	478	403	462	227	16	120.6	747	900	476	238	211	659	248	130	32	479	216	119	51
TXT M8	63	178	102	543	497	534	194	20	177.8	762	915	514	257	241	718	286	153	—	543	232	147	79
TXT M9	74	180	102	600	524	577	241	20	177.8	762	915	575	287	275	805	321	168	—	600	225	145	79
TXT M10	67	195	102	649	598	640	227	20	177.8	762	915	648	324	318	889	359	167	—	649	256	176	79

Note: All reducers on this page require bushes. When ordering bushes separately, see page G1-161.

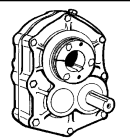
★ Pitch diameter of driven sheave should not be less than G to prevent overloading reducer bearings.

- Input shaft keys are not supplied with TXTM metric TORQUE-ARM reducers

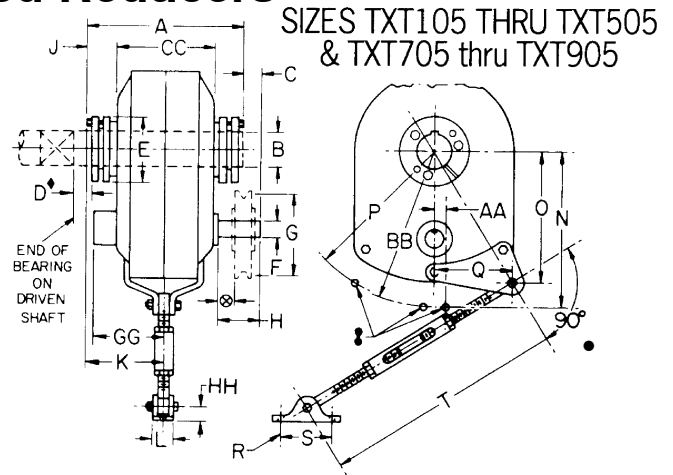
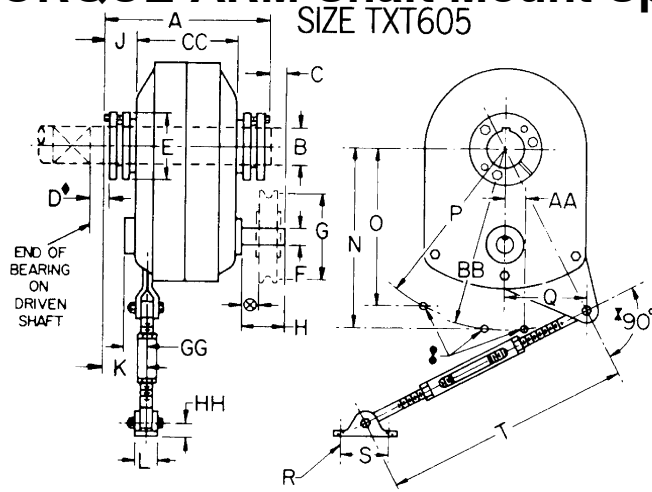
Note: All dimensions are in millimeters.

SELECTION PAGES G1-154-G1-157	DIMENSIONS PAGES G1-158-G1-160	MODIFICATIONS/ACCESSORIES PAGES G1-161-G1-165	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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RELATED PRODUCTS



TORQUE-ARM Shaft Mount Speed Reducers

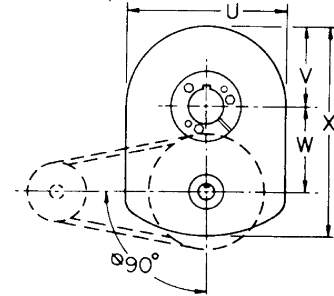


- ◆ Recommended minimum distance to loosen bushing using bushing screws as jack screws.
- The ideal position for the TORQUE-ARM is at right angles to a line between the point of attachment of the TORQUE-ARM to the reducer and the output shaft. This may vary up to 30° either way. CAUTION: Exceeding the $\pm 30^\circ$ variance of the TORQUE-ARM could result in excessive reaction load and result in damage to the equipment.

- ⊗ Keep as close as possible.
- ⊘ The V-belt drive may be located in any convenient position. If the TORQUE-ARM is to be used to tighten belts, the drive should be at about 90° to a line between the input and output shafts.

Reducer will operate satisfactorily at 90° or 180° from normal position shown in front view by relocating breather and drain plugs.

Optional locations for attaching TORQUE-ARM.



TXT M105 thru TXT M905

Single Reduction Metric Taper Bushed TORQUE-ARM Speed Reducers

Reducer Size	Actual Ratio	Part Number	Wt. Kg.	A	B Max. Bore	O	D	E	F and Keyseat		G ★	H	J	K	L	N
TXT M105	5.62	264878	18	179	35	51	32	83	25	8x4x50	102	84	33	90	27	—
TXT M205	5.29	264882	24	186	50	57	32	103	35	10x5x60	76	92	35	93	32	227
TXT M305A	5.60	264700	39	232	55	64	38	111	40	12x5x70	178	92	40	113	32	262
TXT M405A	5.65	264704	55	254	60	88	45	122	48	14x5x96	191	131	46	120	37	300
TXT M505A	5.67	264708	83	267	75	100	46	143	55	16x6x114	241	140	49	129	37	375
TXT M605	5.67	264898	114	292	85	95	46	156	55	16x6x114	165	138	49	72	70	442
TXT M705	5.36	264902	186	326	100	94	52	184	60	18x7x120	190	138	55	161	70	478
TXT M805	5.50	264905	253	357	110	108	52	197	60	18x7x136	235	162	63	179	102	543
TXT M905	5.38	264908	303	358	125	168	62	223	60	18x7x196	240	226	66	180	102	600
Reducer Size	O	P Rad.	Q Bolt	R	S	T		U	V	W	X	AA	BB Rad.	CC	GG	HH
						Min.	Max.									
TXT M105	184	203	112	10	63.5	605	752	181	95	83	252	—	—	114	67	24
TXT M205	191	222	114	10	76.2	684	837	213	105	98	290	21	229	116	72	27
TXT M305A	225	258	125	10	76.2	684	837	235	122	108	327	25	264	162	83	27
TXT M405A	256	291	140	12	101.6	741	893	264	140	124	384	28	301	175	86	45
TXT M505A	320	369	184	12	101.6	741	893	333	167	149	465	23	376	179	105	45
TXT M605	361	418	209	16	120.6	741	893	384	192	175	541	22	423	194	43	51
TXT M705	403	462	227	16	120.6	741	900	476	238	211	659	32	479	216	119	51
TXT M805	497	534	191	24	177.8	762	915	514	257	245	718	—	543	232	148	79
TXT M905	524	577	241	24	178.6	762	915	575	287	279	805	—	600	225	185	79

Note: All reducers on this page require bushes. When ordering bushes separately, see page G1-161.

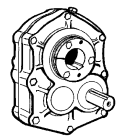
★ Pitch diameter of driven sheave should not be less than G to prevent overloading reducer bearings.

• Input shaft keys are not supplied with TXTM metric TORQUE-ARM reducers

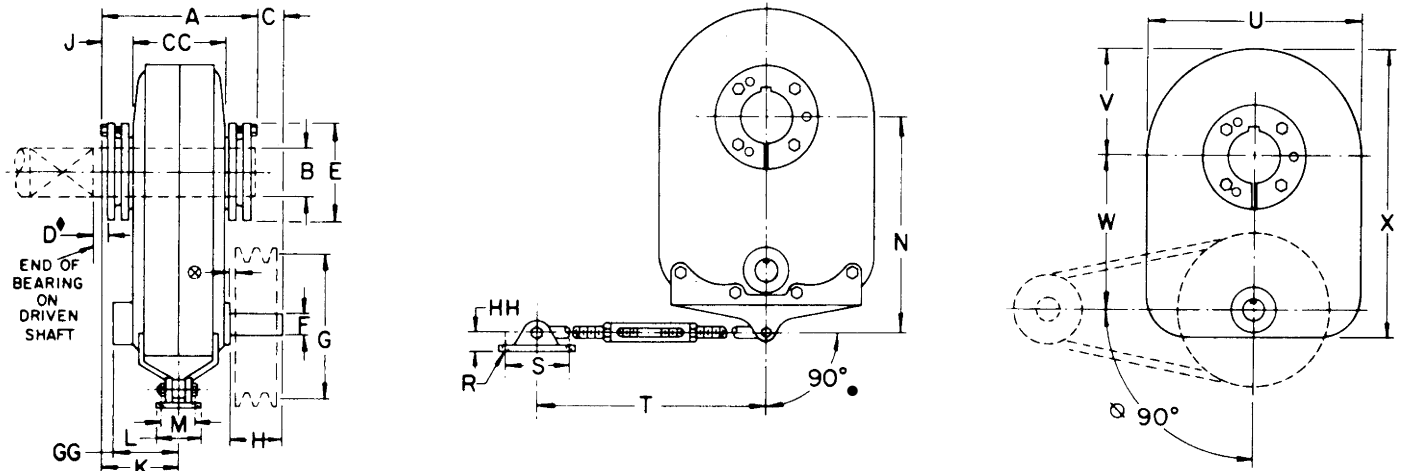
NOTE: All dimensions are in millimeters.

SELECTION PAGES G1-154-G1-157	DIMENSIONS PAGES G1-158-G1-160	MODIFICATIONS/ACCESSORIES PAGES G1-161-G1-165	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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RELATED PRODUCTS



TORQUE-ARM Shaft Mount Speed Reducers



- ⊗ Keep as close as possible.

Reducer will operate satisfactorily at 90° or 180° from normal position shown in front view by relocating breather and drain plugs.

- ◆ Recommended minimum distance to loosen bushing using bushing screws as jack screws.

- The ideal position for the TORQUE-ARM is at right angles to a line between the point of attachment of the TORQUE-ARM to the reducer and the output shaft. This may vary up to 30° either way. **CAUTION:** Exceeding the $\pm 30^\circ$ variance of the TORQUE-ARM could result in damage to the equipment.

- ⊘ The V-belt drive may be located in any convenient position. If the TORQUE-ARM is to be used to tighten the belts, the drive should be at about 90° to a line between the input and output shafts.

TXT M12

Double Reduction Metric Taper Bushed TORQUE-ARM Reducers

Reducer Size			Actual Ratio		Part Number			Wt. Kg.	A	B Max. Bore	C	D	E	F and Keyseat •			
15:1	25:1		15:1	25:1	15:1	25:1											
TXT M1215	TXT M1225		14.89	24.65	264911	264912		848	481	160	156	68	273	65	18x7x187		
Reducer Size	G ★	H	J	K	L	N	R Bolt ◆	S	T		U	V	W	X	CC	GG	HH
									Min.	Max.							
TXT M12	241	212	70	235	125	867	25	214.3	775	927	800	391	582	1105	329	211	86

Note: All reducers on this page require bushes. When ordering bushes separately, see page G1-161.

★ Pitch diameter of driven sheave should not be less than G to prevent overloading reducer bearings.

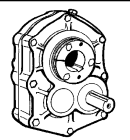
• Input shaft keys are not supplied with TXTM metric TORQUE-ARM reducers

◆ Two bolts required for TXT12.

Note: All dimensions are in millimeters.

SELECTION PAGES G1-154-G1-157	DIMENSIONS PAGES G1-158-G1-160	MODIFICATIONS/ACCESSORIES PAGES G1-161-G1-165	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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RELATED PRODUCTS



TORQUE-ARM Shaft Mount Speed Reducers

METRIC BORE TAPERED BUSH ASSEMBLIES FOR METRIC TORQUE-ARM REDUCERS

TORQUE-ARM Reducer Tapered Bush Assemblies include two bushes, keys and mounting bolts. Bush assemblies are not included with the reducer. However, they

may be ordered separately, from the table below, by specifying part number, bore desired and bush or reducer size.

TAPERED BUSH ASSEMBLIES

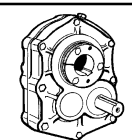
Reducer Size	Bore	Shaft Keyseat †	Part Number	Wt. Kg.	Reducer Size	Bore	Shaft Keyseat †	Part Number	Wt. Kg.
TXT M105	25 mm	8x4x164	241370	1.0	TXT M605	60 mm	18x7x272	246490	5.44
TXT M109	30 mm	10x5x164	241371	.95	TXT M609	65 mm	18x7x272	246491	5.22
TXT M115	32 mm	10x5x164	241372	.95	TXT M615	70 mm	20x7.5x272	246492	4.50
TXT M125	35 mm	10x5x164	241373	.68	TXT M625	75 mm	20x7.5x272	246493	4.26
TXT M205	32 mm	10x5x170	242370	1.63		80 mm	22x9x272	246494	3.40
TXT M209	35 mm	10x5x170	242371	1.58		85 mm	22x9x272	246495	2.27
TXT M215	38 mm	12x5x170	242372	1.50	TXT M705	80 mm	22x9x301	247490	9.90
TXT M225	40 mm	12x5x170	242373	1.50	TXT M709	85 mm	22x9x301	247491	9.07
	42 mm	12x5x170	242374	1.40	TXT M715	90 mm	25x9x301	247492	8.16
	45 mm	14x5.5x170	242375	1.36	TXT M725	95 mm	25x9x301	247493	6.80
	50 mm	14x5.5x170	264729	1.30		100 mm	28x10x301	247494	5.94
TXT M305A	38 mm	12x5x205	243486	2.27	TXT M805	90 mm	25x9x332	248490	11.75
TXT M309A	40 mm	12x5x205	243487	2.27	TXT M815	95 mm	25x9x332	248491	9.98
TXT M315A	42 mm	12x5x205	243488	2.27	TXT M825	100 mm	28x10x332	248492	9.52
TXT M325A	45 mm	14x5.5x205	243489	1.9		110 mm	28x10x332	248493	6.8
	50 mm	14x5.5x205	243490	1.68	TXT M905	110 mm	28x10x329	249490	12.7
	55 mm	16x6x205	243491	1.58	TXT M915	120 mm	32x11x329	249491	9.98
TXT M405A	42 mm	12x5x229	244370	4.17	TXT M926	125 mm	32x11x329	249492	8.89
TXT M409A	45 mm	14x5.5x229	244371	3.81	TXT M1015	120 mm	32x11x357	250370	19.64
TXT M415A	50 mm	14x5.5x229	244372	3.72	TXT M1024	125 mm	32x11x357	250371	16.1
TXT M425A	55 mm	16x6x229	244373	3.22		130 mm	32x11x357	250372	14.06
	60 mm	18x7x229	244374	2.45	TXT M1215	150 mm	36x12x440	272670	21.7
TXT M505A	55 mm	16x6x238	245275	4.80	TXT M1225	160 mm	40x13x440	272671	17.4
TXT M509B	60 mm	18x7x238	245276	4.08					
TXT M515B	65 mm	18x7x238	245277	3.95					
TXT M525B	70 mm	20x7.5x238	245278	2.95					
	75 mm	20x7.5x238	245279	2.90					

† Shaft keys are furnished.

Bushes are also available in inch sizes. Consult DODGE.

Note: All dimensions are in millimeters.

SELECTION PAGES G1-154-G1-157	DIMENSIONS PAGES G1-158-G1-160	MODIFICATIONS/ACCESSORIES PAGES G1-161-G1-165	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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RELATED PRODUCTS

TORQUE-ARM Shaft Mount Speed Reducers

COOLING FAN ASSEMBLIES FOR METRIC TORQUE-ARM REDUCERS

Cooling fans are optional for use in cooling reducers shown in selection tables on pages G1-155 thru G1-157.

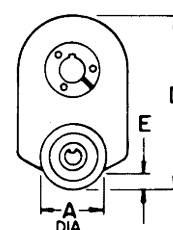
Installation is accomplished simply by attaching formed steel mounting straps to the reducer input shaft seal carrier. The fan assembly, fastened to the reducer input shaft, is compact enough to allow installation of the V-belt drive originally designed for the reducer. The fan housing is

attached to the outer edges of the straps which are spaced to allow free circulation of air at the back of the housing as well as through the front of the unit.

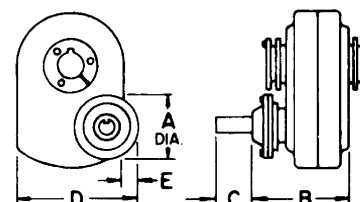
The fan blade design offers a radial streamline air flow which means smaller fans yet a more efficient movement of air.

NOTE: See page G1-194 for maximum input shaft speeds

Cooling Fan No.	Reducer Size	Part Number	Wt. Kg.	A Dia.	B	C	D	E
TXT M305A	TXT M305A	264726	1.4	100	222	48	—	—
TXT M3A	TXT M309A TXT M315A TXT M325A	264724	1.4	124	200	54	283	3
TXT M405A	TXT M405A	264744	1.4	119	236	75	—	—
TXT M4A	TXT M409A TXT M415A TXT M425A	264856	1.4	149	241	75	—	—
TXT M505A	TXT M505A	264746	1.4	146	246	85	—	—
TXT M5B	TXT M509B TXT M515B TXT M525B	264728	1.4	200	246	85	—	—
TXT M6	TXT M609 TXT M615 TXT M625	264858	1.4	241	251	87	418	33
TXT M7	TXT M705 TXT M709 TXT M715 TXT M725	264859	2.7	305	272	94	521	44
TXT M8	TXT M805 TXT M815 TXT M825	264860	2.7	305	296	106	564	49
TXT M905	TXT M905	264862	2.7	305	292	168	805	—
TXT M9	TXT M915 TXT M925	264861	6.8	406	300	160	659	84
TXT M10	TXT M1015 TXT M1025	264863	6.8	406	333	156	694	46
TXT M12	TXT M1215 TXT M1225	264864	6.8	406	406	149	1176	71



TXT M12
TXT M305A -M505A
TXT M705-M905



TXT M3A thru M10
(9, 15 & 25:1 Ratios)

Note: All dimensions are in millimeters.

FILTER BREATHERS FOR TORQUE-ARM SPEED REDUCERS



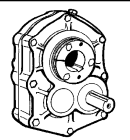
Filter Breathers

Reducer Size	Part Number
TXT M1 to TXT M4	430048
TXT M5 to TXT M10	430049

Filter air breathers are designed for use in dusty atmospheres where the standard TORQUE-ARM breather may become clogged and inoperative. The 40 micron mesh opening allows the reducer to breathe, yet keep dust out, under the most extreme conditions. Clean oil is necessary for proper service and long gear and bearing life. Breathers may be used in all reducers and screw conveyor drives. When ordering, specify reducer size.

SELECTION PAGES G1-154-G1-157	DIMENSIONS PAGES G1-158-G1-160	MODIFICATIONS/ACCESSORIES PAGES G1-161-G1-165	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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RELATED PRODUCTS



TORQUE-ARM Shaft Mount Speed Reducers BACKSTOP ASSEMBLIES

Reducer Size	Nominal Ratio	Part Number	Weight (Kg)
TXT M1	5, 9, 15, 25	242101	.27
TXT M2	5, 9, 15, 25	252101	.45
TXT M3A	9, 15, 25	243106	.27
TXT M3A	5	252101	.45
TXT M4A	9, 15, 25	244106	.54
TXT M4A	5	244148	.41
TXT M5B	9, 15, 25	245154	1.0
TXT M5A	5	246101	.82
TXT M6	5, 9, 15, 25	246092	1.1
TXT M7	5, 9, 15, 25	247260	1.3
TXT M8	15, 25	249260	1.7
TXT M8	5	250260	2.5
TXT M9	15, 26	249260	1.7
TXT M9	5	272259	3.0
TXT M10	15, 24	250260	2.5
TXT M12	15, 25	250260	2.5



Backstops are offered for service conditions that require the prevention of reverse direction. They can be quickly installed by removing cover plate and slipping the backstop over the input shaft. After cover is replaced, backstop becomes completely sealed inside the reducer case. Since the reducer lubricates the backstop, no additional lubrication is required.

When ordering a backstop assembly, specify by reducer size. They are priced separately. Keys are included.

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 lifts, amusement rides, etc., where the safety of persons or property is dependent on their function. On such applications, other safety devices should be provided.

V-BELT DRIVE — NOMINAL PULLEY RATIOS

The table below lists the pulley ratios for nominal gearbox ratios and output speeds when driven by 1450 and 960 RPM motors. If greater accuracy is required the following equation should be used:

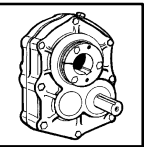
$$\text{Actual Pulley Ratio} = \frac{\text{Exact Motor Speed}}{\text{Exact Gear Drive Ratio} \times \text{Required Output Speed}}$$

5:1 Drive			9:1 Drive			15:1 Drive			25:1 Drive		
Reducer Output RPM	Motor RPM		Reducer Output RPM	Motor RPM		Reducer Output RPM	Motor RPM		Reducer Output RPM	Motor RPM	
	1450	960		1450	960		1450	960		1450	960
400	1.38	2.08	190	1.18	1.78	140	1.45	2.19	85	1.47	2.21
390	1.34	2.03	188	1.17	1.76	135	1.40	2.11	80	1.36	2.08
380	1.31	1.98	186	1.15	1.74	130	1.34	2.03	75	1.29	1.95
370	1.28	1.93	184	1.14	1.73	125	1.29	1.95	70	1.21	1.82
360	1.24	1.88	182	1.13	1.71	120	1.24	1.88	65	1.12	1.69
350	1.21	1.82	180	1.12	1.69	115	1.19	1.80	60	1.03	1.56
340	1.17	1.77	178	1.10	1.67	110	1.14	1.72	55	1.05	1.43
330	1.14	1.72	176	1.09	1.65	105	1.09	1.64	50	1.16	1.30
320	1.10	1.67	174	1.08	1.63	100	1.03	1.56	45	1.29	1.17
310	1.07	1.61	172	1.07	1.61	95	1.02	1.48	40	1.45	1.04
300	1.03	1.56	170	1.06	1.59	90	1.07	1.41	35	1.66	1.10
290	1.00	1.51	168	1.04	1.58	85	1.14	1.33	30	1.93	1.28
280	1.04	1.46	166	1.03	1.56	80	1.21	1.25	25	2.32	1.54
270	1.07	1.41	164	1.02	1.54	75	1.29	1.17	20	2.90	1.92
260	1.12	1.35	162	1.01	1.52	70	1.38	1.09	15	3.87	2.56
250	1.16	1.30	160	1.01	1.50	65	1.49	1.02	10	—	3.84
240	1.21	1.25	158	1.02	1.48	60	1.61	1.07	5	—	—
230	1.26	1.20	156	1.03	1.46	55	1.76	1.16	1	—	—
220	1.32	1.15	154	1.05	1.44	50	1.93	1.28			
210	1.38	1.09	152	1.06	1.43	45	2.15	1.42			
200	1.45	1.04	150	1.07	1.41	40	2.42	1.60			
190	1.53	1.01	148	1.09	1.39	35	2.76	1.83			
180	1.61	1.07	146	1.10	1.37	30	3.22	2.13			
170	1.71	1.13	144	1.12	1.35	25	3.87	2.56			
160	1.81	1.20	142	1.13	1.33	20	4.83	3.20			
150	1.93	1.28	140	1.15	1.31	15	—	4.27			
140	2.07	1.37	138	1.17	1.29	10	—	—			
130	2.23	1.48	136	1.18	1.28	5	—	—			
120	2.42	1.60	134	1.20	1.26	1	—	—			
110	2.64	1.75	132	1.22	1.24						
100	2.90	1.92	130	1.24	1.22						
90	3.22	2.13	128	1.26	1.20						
			126	1.28	1.18						

Note: Shaded areas indicate speeds where the pulleys are arranged as speed increasing drive. See page G1-165 for DODGE Motor Mount center distances.

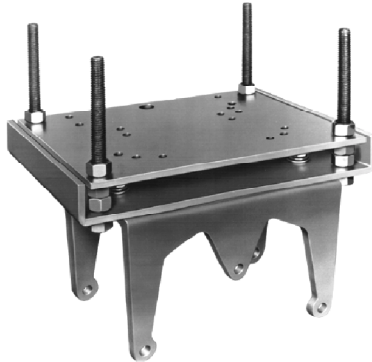
SELECTION PAGES G1-154-G1-157	DIMENSIONS PAGES G1-158-G1-160	MODIFICATIONS/ACCESSORIES PAGES G1-161-G1-165	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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RELATED PRODUCTS



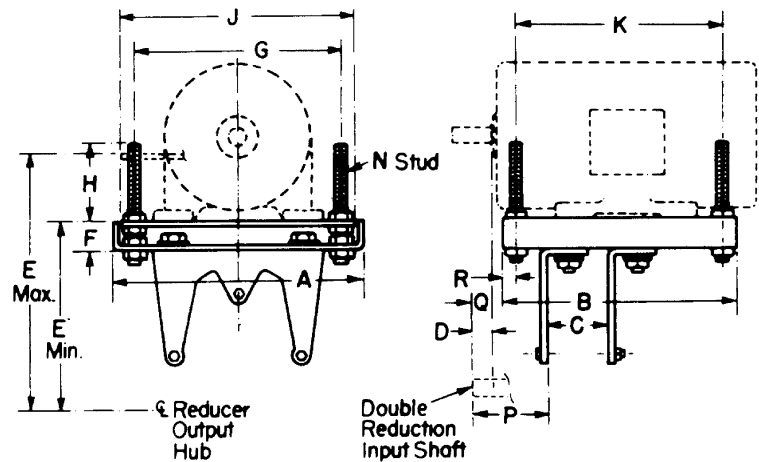
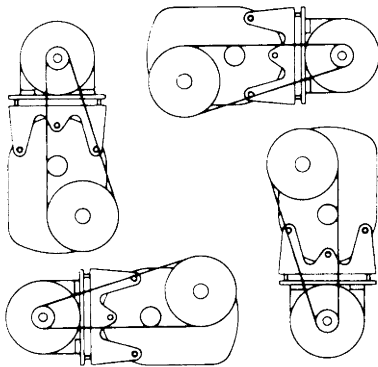
TORQUE-ARM Shaft Mount Speed Reducers

T-A M MOTOR MOUNTS



The T-A Motor Mount is a rugged all steel unit which requires no drilling and no foundation. It bolts directly to the top of the TORQUE-ARM reducer and can be located in any position around the shaft. It permits easy belt tensioning.

All motor mounts are supplied with zinc-plated fasteners as standard.

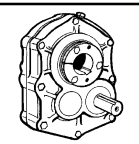


T-A M Metric Motor Mounts — TA M1M thru TA M7M

Motor Mount No. ■	Part Number ●	Wt. Kg.	Reducer Size	Metric Motor Frame	A	B	C Nom.	D	E ♦		F	G	H
									Min.	Max.			
TA M1M	264988	16.0	TXT M109-115-125-105	80B, 90S, 100L, 112M 132S, 132M	371.5	279.4	79.4	49.2	254.4	347.7	40.5	304.8	123.4
			TXT M209-215-225-205						269.1	362.4			
TA M3M	264990	17.0	TXT M309-315-325-305A		371.5	279.4	108.0	69.1	294.5	422.3	40.5	304.8	123.4
TA M4M	264991	31.3	TXT M409-415-425A	80B, 90S, 100L, 112M, 132S, 132M, 160M, 160L, 180M, 180L	473.1	431.8	117.5	73.8	304.1	432.6	45.2	393.7	141.7
			TXT M405A										
TA M5M	264992	31.3	TXT M509-515-525B	80B, 90S, 100L, 112M, 132S, 132M, 160M, 160L, 180M, 180L	473.1	431.8	104.8	66.7	318.3	446.9	45.2	393.7	141.7
			TXT M505A											66.7	318.3	446.9	45.2	393.7	141.7
TA M6M	264993	40.0	TXT M609-615-625	80B, 90S, 100L, 112M, 132S, 132M, 160M, 160L, 180M, 180L, 200L, 225S	520.7	469.9	114.3	65.1	369.9	551.7	46.8	444.5	140.1
			TXT M605											469.9	114.3	74.7	369.9	551.7	46.8	444.5	140.1
TA M7M	264994	40.0	TXT M709-715-725		520.7	469.9	120.7	69.9	431.0	548.5	46.8	444.5	140.1
			TXT M705										
Motor Mount No.	J	K	N-Stud		P	Q	R	■ Can be used with any ratio TORQUE-ARM Reducer (5, 9, 15, 25). ● Necessary Mounting Bolts are included. ♦ Provides for V-Belt adjustment.					
			Dia.	Lgth.									
TA M1M	342.9	235.0	15.9	177.8	102.4	62.3	22.2						
TA M3M	342.9	235.0	15.9	177.8	123.8	66.3	22.2						
TA M4M	342.9	362.0	19.1	203.2	155.5	65.9	25.4						
TA M5M	444.5	362.0	19.1	203.2	180.9	99.2	25.4						
TA M6M	444.5	419.1	19.1	203.2	185.7	111.1	25.4						
TA M7M	489.0	419.1	19.1	203.2	198.4	125.8	25.4						

Note: All dimensions are in millimeters.

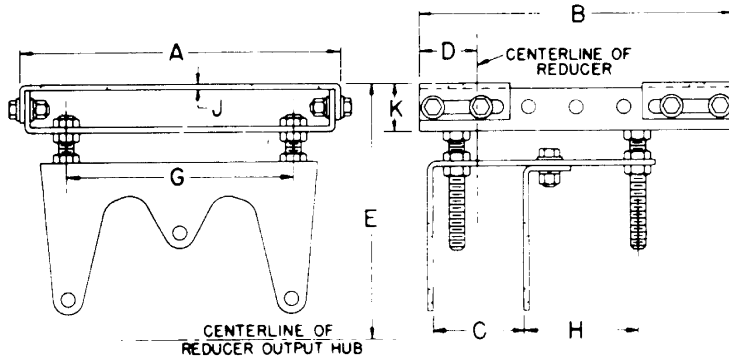
SELECTION PAGES G1-154-G1-157	DIMENSIONS PAGES G1-158-G1-160	MODIFICATIONS/ACCESSORIES PAGES G1-161-G1-165	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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RELATED PRODUCTS

TORQUE-ARM Shaft Mount Speed Reducers

T-A M MOTOR MOUNTS



T-A M Metric Motor Mounts — TA M8 thru TA M12

Motor Mount No. ■	Part Number ●	Wt. Kg.	Reducer Size	Metric Motor Frame	A	B	C Nom.	D	E ♦		G	H	J	K
									Min.	Max.				
TA M8	248401	33	TXT M815-825	132S, 132M, 160M 160L, 180M, 180L, 200L, 225S	471	483	133	76	491	602	279	117	9.5	108
			TXT M805											
TA M9	249401	34	TXT M915-926	132S, 132M, 160M 160L, 180M, 180L, 200L, 225S	471	483	133	76	521	632	279	117	9.5	108
			TXT M905											
TA M10	250401	34	TXT M1015-1024	160M, 160L, 180M, 180L, 200L, 225S	471	483	152	86	571	682	279	98	9.5	108
TA M12	272310	108	TXT M1215	180M, 180L, 200L, 225S	635	610	194	152	652	790	470	133	13	97
			TXT 1225											

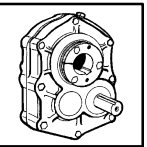
V-Belt Drive Center Distances for T-A M Motor Mounts

Motor Mount No.	Reducer Size	Center Distances of Various IEC Motor Frames											
		80 & 90		100 & 112		132		160		180		200 & 225	
		Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
TA M1M	TXT M109-115-125-105	419	508	439	528	471	560	....	....	....	....	....	....
	TXT M209-215-225-205	448	537	468	557	500	589	....	....	....	....	....	....
TA M3M	TXT M309-315-325-305A	498	586	518	606	549	638	....	....	....	....	....	....
TA M4M	TXT M409-415-425A	511	600	531	620	563	652	591	680	611	700	....	....
	TXT M405A	....	....										
TA M5M	TXT M509-515-525B	549	663	569	683	601	715	629	743	649	763	....	....
	TXT M505A	....	....										
TA M6M	TXT M609-615-625	631	745	651	766	683	797	711	826	731	846	751	866
	TXT M605	....	....										
TA M7M	TXT M705-715-725	735	849	741	856	787	901	815	929	835	949	855	869
	TXT M705	....	....	728	843	774	888	802	916	822	936	842	956
Motor Mount No.	Reducer Size	Center Distances of Various IEC Motor Frames											
		132		160		180		200 & 225					
		Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.				
TA M8	TXT M815-825	886	997	914	1025	934	1045	954	1065	■ Can be used with any ratio TORQUE-ARM Reducer (5, 9, 15, 25) ● Necessary Mounting Bolts are included. ♦ Provides for V-Belt adjustment.			
	TXT M805	....	....	902	1013	922	1033	942	1053				
TA M9	TXT M915-926	952	1063	980	1091	1000	1111	1020	1131				
	TXT M905	....	....	....	....	986	1098	1006	1118				
TA M10	TXT M1015-1024	....	....	1070	1181	1090	1201	1110	1221				
TA M12	TXT M1215-1225	....	....	....	....	1413	1552	1433	1572				

Note: All dimensions are in millimeters.

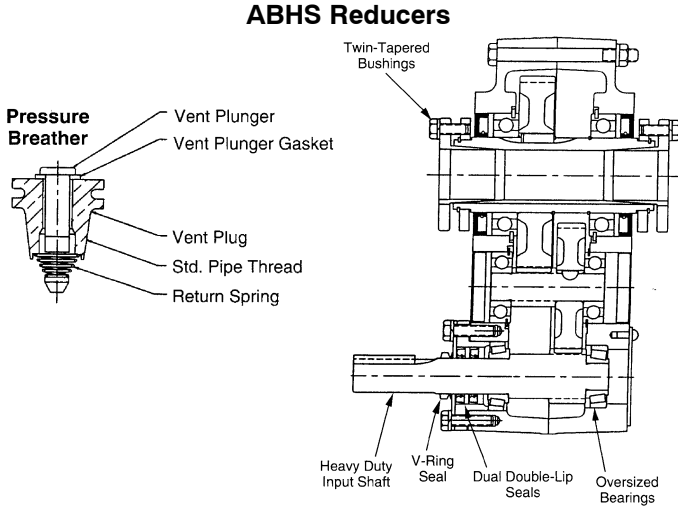
SELECTION PAGES G1-154-G1-157	DIMENSIONS PAGES G1-158-G1-160	MODIFICATIONS/ACCESSORIES PAGES G1-161-G1-165	ENGINEERING/TECHNICAL PAGES G1-187-G1-201
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RELATED PRODUCTS



TORQUE-ARM Shaft Mount Speed Reducers

AIRPORT BAGGAGE HANDLING SYSTEM REDUCER FOR AIRLINE DUTY BAGGAGE CONVEYORS



SHAFT MOUNT CONCEPT

Direct Twin Tapered Mounting to the Driven Shaft

1. Material Cost Savings
 - Eliminates support structures
 - Eliminates chain, sprockets and coupling
2. Installed Cost Savings
 - No installation and alignment of chains or coupling
 - Simple installation and alignment of prime mover
 - No periodic maintenance cost associated with chain drives
3. Compact Drive Design
 - Space Saving
 - Reducer mounts 360° around the shaft
4. Flexibility to Change Output Speed
 - Ease of changing V-belt drives
 - Economical to change speeds
 - Ability to fine tune speeds at a later date
5. Efficiency
 - 98.5% per gear stage
6. Hollow Bore
 - Exclusive Twin Tapered bushings
 - Wide range of bore sizes
7. Performance
 - Oversized input bearings and shaft for dependable long service life
 - Additional sealing protection for continuous duty operation
 - Interchanges with standard DODGE TXT dimensions and ratios
 - 36/12 Warranty
 - Meets AGMA standards
 - 100% factory tested and shipped with premium lubricant

GENERAL SPECIFICATIONS

DODGE ABHS TORQUE-ARM 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 to the support structure or foundation.

The reducer housing shall be constructed of two piece corrosion resistant, gray or ductile iron and be ribbed for added strength. All housings shall be doweled and precision machined to assure accurate alignment for all gear sets.

All gearing shall be of helical or spur design, and crown shaved to provide an ellipsoid tooth to eliminate tooth end bearing and assure meshing at the strongest tooth area. All gears shall be case carburized to insure a high surface durability with a resilient tooth core for greater impact resistance and longer service life. Gears shall be supported between bearings to maintain proper alignment of gear meshes, to maximize load carrying capabilities, and to eliminate overhung loads imposed on bearings.

Reducer bearings shall be of the ball or tapered roller type, and shall provide a 100,000 L-10 hour input shaft bearing life.

All seals shall be of the double lip, spring loaded type, made of nitrile rubber. Dual seals and V-ring seal on input.

Reducer gears and bearings shall be splash lubricated using a premium lubricant.

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

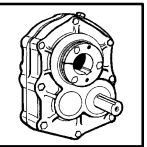
ABHS TORQUE-ARM Reducers ■★▲

Size	Part Number
TXT 125T ABHS Reducer	241153+
TXT 115T ABHS Reducer	241155+
TXT 109T ABHS Reducer	241154+
TXT 105T ABHS Reducer	251120
TXT 225T ABHS Reducer	242258
TXT 215T ABHS Reducer	242257
TXT 209T ABHS Reducer	242259
TXT 205T ABHS Reducer	252120
TXT 1 ABHS TA Assembly	241213
TXT 2 ABHS TA Assembly	242280

- + 15/16 diameter input shaft. 1610 x 15/16" T-L Bushing included.
- ▲ Backstops not available for ABHS Reducers.
- See pages G1-26 thru G1-33 for stock TDT1 and TDT2 Tapered Bushing assemblies for use with ABHS TORQUE-ARM reducers.
- ★ TA (Torque-Arm) assembly does not come with the ABHS Reducer. It must be ordered separately by the above part number.

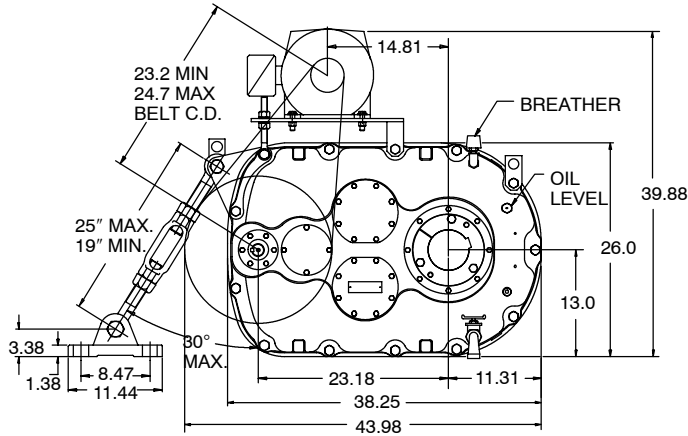


RELATED PRODUCTS

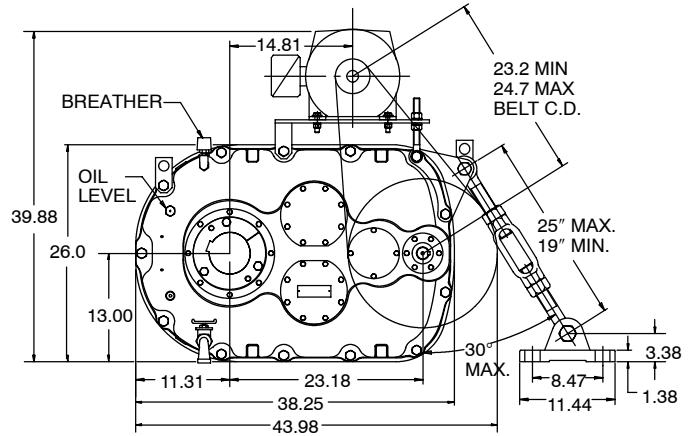


TORQUE-ARM Shaft Mount Speed Reducers

DODGE BIOLOGICAL CONTACT DRIVE (BIO-DISC) INDUSTRIAL DRIVE FOR WASTEWATER TREATMENT INDUSTRY



#188 L.H. BIO-DISC ASSY



#188 R.H. BIO-DISC ASSY

PRODUCT SPECIFICATION

The speed reducer shall be either a belt driven or direct coupled enclosed shaft mount type unit with a triple reduction ratio of 170.44:1. The reducer shall mount directly on the driven shaft and utilize an adjustable TORQUE-ARM that attaches to the support structure or foundation.

The reducer housing shall be constructed of two-piece corrosion resistant, gray iron and be ribbed for added strength. All housings shall be doweled and precision machined to assure accurate alignment for all gear sets. The reducer housing shall be painted with primer plus two (2) coats of epoxy ester enamel to minimize corrosion.

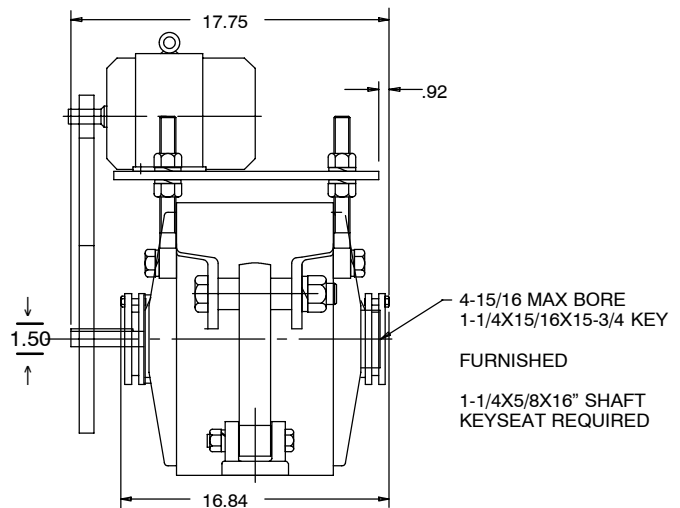
All gearing shall be of helical or spur design, and crown shaved to provide an elliptoid tooth to eliminate tooth end bearing and assure meshing at the strongest tooth area. All gears shall be case carburized to ensure a high surface durability with a resilient tooth core for greater impact resistance and long service life. Gears shall be supported between bearings to maintain proper alignment on gear meshes, to maximize load carrying capabilities, and eliminate overhung loads imposed on bearings. The gears shall be rated for 7-1/2 horsepower at 1.5 RPM — Class I service and 5 horsepower at 1.5 RPM — Class II Service.

Reducer bearings shall be of the straight or tapered roller type and provide a 5,000 hour minimum L-10 life at the 7-1/2 HP Class I rating.

All seals shall be of the double lip, spring loaded type, made of nitrile rubber.

Reducer gears and bearings shall be splash lubricated using a quality petroleum base oil, containing anti-foamants and rust inhibitors.

Reducer installation shall be accomplished by using ductile iron, fully split twin-tapered bushings. The maximum and preferred bore shall be 4-15/16 inch. Reducer removal shall be accomplished by providing jack screw holes in the bushing flanges to mechanically remove the tapered assembly.



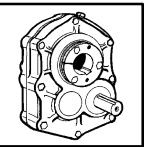
DODGE 188D BIO-DISC DRIVE PRODUCTS		
PRODUCT DESCRIPTION	PART NO.	WEIGHT LBS.
188D BIO DISC REDUCER LH ASSEMBLY	259166 *	1392.0
188D BIO DISC REDUCER RH ASSEMBLY	259164 *	1392.0
188D BIO DISC REDUCER REPLACEMENT BUSHING ASSY	021832	20.8
BIO DISC REDUCER V-DRIVE KIT	BIO DR KIT **	50.0
188D LH BELT GUARD ASSEMBLY	259023	125.0
188D RH BELT GUARD ASSEMBLY	259024	125.0

* Consists of Reducer, Tapered Bushing Assembly and Motor Mount.

** Consists of 3/3V4.12/3V19.0/3VX850 V-drive with Taper Lock bushings.



RELATED PRODUCTS



TORQUE-ARM Shaft Mount Speed Reducers

DODGE V-BELT DRIVES FOR TORQUE-ARM REDUCERS AND SCREW CONVEYOR DRIVE REDUCERS

These are typical drives for average service conditions. For other conditions, output speeds or motor speeds, see reducer specifications for minimum driven sheave diameter and use V-belt drive selection tables.

For adequate horsepower, 3v, 5v, and 8v sheaves require 3VX, 5VX and 8VX belts; and A, B, C and D sheaves require AX, BX, CX and DX belts.

Keep driven sheave as close to reducer housing as possible.

The belt drive may be located in any convenient position. If the torque-arm is to be used to tighten the belts, the drive should be at about 90° to a line between the input and output shafts.

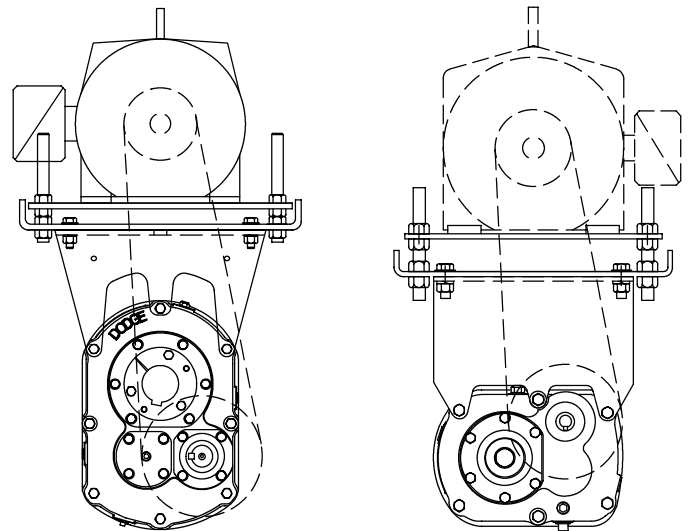
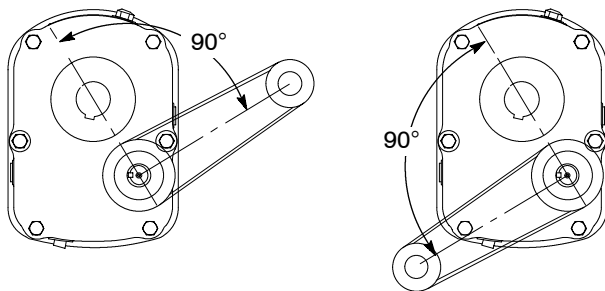


TABLE 19 - NEMA MOTOR INFORMATION (1750 RPM)

Horsepower	Nema Motor Frame	Shaft Diameter	Minimum Sheave Diameters
1	143T	7/8	2.2
1-1/2	145T	7/8	2.4
2	145T	7/8	2.4
3	182T	1-1/8	2.4
5	184T	1-1/8	3.0
7-1/2	213T	1-3/8	3.0
10	215T	1-3/8	3.8
15	254T	1-5/8	4.4
20	256T	1-5/8	4.4
25	284T	1-7/8	4.4
30	286T	1-7/8	5.2
40	324T	2-1/8	6.0
50	326T	2-1/8	6.8
60	364T	2-3/8	7.4
75	365T	2-3/8	8.6
100	+405T	2-7/8	8.6
125	+444T	3-3/8	10.5
150	+445T	3-3/8	10.5
200	+447T	3-3/8	13.2

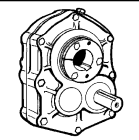
+ Energy Efficient (TEFC-XE) Frame.

TABLE 20 - MINIMUM SHEAVE DIAMETERS FOR DODGE TORQUE-ARM REDUCERS

TXT, SCXT Reducer	Single Reduction		Double Reduction			
	Shaft Diameter	5:1	Shaft Diameter	9:1	15:1	25:1
1	1-1/8	4.0	3/4	4.0	3.0	3.0
2	1-7/16	3.0	1-1/8	5.0	3.0	3.0
3	1-5/8	7.0	1-1/4	5.0	4.0	4.0
4	1-15/16	7.5	1-7/16	6.5	4.6	4.6
5	2-3/16	9.5	1-15/16	7.0	5.4	5.4
6	2-3/16	6.5	2-3/16	7.0	6.2	6.2
7	2-7/16	7.5	2-7/16	7.0	6.2	6.2
8	2-7/16	9.2	2-7/16		6.2	6.2
9	2-7/16	9.5	2-7/16		8.0	8.0
10			2-11/16		8.5	8.5
12			2-11/16		9.5	9.5
13			2-15/16			12.0
14			2-15/16			15.0
15			3-7/16			20.0

SELECTION TXT PAGES G1-12-G1-25	DIMENSIONS TXT PAGES G1-26-G1-67	SELECTION SCXT PAGES G1-81-G1-89	DIMENSIONS SCXT PAGES G1-90-G1-117
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RELATED PRODUCTS



TORQUE-ARM Shaft Mount Speed Reducers

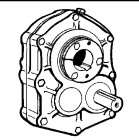
TABLE 21 — NOMINAL SHEAVE RATIOS REQUIRED FOR DODGE TORQUE-ARM REDUCERS

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		
	Motor Speed				Motor Speed				Motor Speed				Motor Speed		
	1750	1450	1170		1750	1450	1170		1750	1450	1170		1750	1450	1170
400.00	1.14	1.38	1.71	200.00	1.03	1.24	1.54	120.00	1.03	1.24	1.54	76.00	1.09	1.31	1.62
395.00	1.13	1.36	1.69	198.00	1.02	1.23	1.52	118.00	1.01	1.22	1.51	74.00	1.06	1.28	1.58
390.00	1.11	1.34	1.67	196.00	1.01	1.22	1.51	116.00	1.01	1.20	1.49	72.00	1.03	1.24	1.54
385.00	1.10	1.33	1.65	194.00	1.00	1.20	1.49	114.00	1.02	1.18	1.46	70.00	1.00	1.21	1.50
380.00	1.09	1.31	1.62	192.00	1.01	1.19	1.48	112.00	1.04	1.16	1.44	68.00	1.03	1.17	1.45
375.00	1.07	1.29	1.60	190.00	1.02	1.18	1.46	110.00	1.06	1.14	1.41	66.00	1.06	1.14	1.41
370.00	1.06	1.28	1.58	188.00	1.03	1.17	1.45	108.00	1.08	1.12	1.38	64.00	1.09	1.10	1.37
365.00	1.04	1.26	1.56	186.00	1.05	1.15	1.43	106.00	1.10	1.10	1.36	62.00	1.13	1.07	1.32
360.00	1.03	1.24	1.54	184.00	1.06	1.14	1.42	104.00	1.12	1.08	1.33	60.00	1.17	1.03	1.28
355.00	1.01	1.22	1.52	182.00	1.07	1.13	1.40	102.00	1.14	1.06	1.31	58.00	1.21	1.00	1.24
350.00	1.00	1.21	1.50	180.00	1.08	1.12	1.38	100.00	1.17	1.03	1.28	56.00	1.25	1.04	1.20
345.00	1.01	1.19	1.47	178.00	1.09	1.10	1.37	98.00	1.19	1.01	1.26	54.00	1.30	1.07	1.15
340.00	1.03	1.17	1.45	176.00	1.10	1.09	1.35	96.00	1.22	1.01	1.23	52.00	1.35	1.12	1.11
335.00	1.04	1.16	1.43	174.00	1.12	1.08	1.34	94.00	1.24	1.03	1.21	50.00	1.40	1.16	1.07
330.00	1.06	1.14	1.41	172.00	1.13	1.07	1.32	92.00	1.27	1.05	1.18	48.00	1.46	1.21	1.03
325.00	1.08	1.12	1.39	170.00	1.14	1.06	1.31	90.00	1.30	1.07	1.15	46.00	1.52	1.26	1.02
320.00	1.09	1.10	1.37	168.00	1.16	1.04	1.29	88.00	1.33	1.10	1.13	44.00	1.59	1.32	1.06
315.00	1.11	1.09	1.35	166.00	1.17	1.03	1.28	86.00	1.36	1.12	1.10	42.00	1.67	1.38	1.11
310.00	1.13	1.07	1.32	164.00	1.19	1.02	1.26	84.00	1.39	1.15	1.08	40.00	1.75	1.45	1.17
305.00	1.15	1.05	1.30	162.00	1.20	1.01	1.25	82.00	1.42	1.18	1.05	38.00	1.84	1.53	1.23
300.00	1.17	1.03	1.28	160.00	1.22	1.01	1.23	80.00	1.46	1.21	1.03	36.00	1.94	1.61	1.30
295.00	1.19	1.02	1.26	158.00	1.23	1.02	1.22	78.00	1.50	1.24	1.00	34.00	2.06	1.71	1.38
290.00	1.21	1.00	1.24	156.00	1.25	1.03	1.20	76.00	1.54	1.27	1.03	32.00	2.19	1.81	1.46
285.00	1.23	1.02	1.22	154.00	1.26	1.05	1.18	74.00	1.58	1.31	1.05	30.00	2.33	1.93	1.56
280.00	1.25	1.04	1.20	152.00	1.28	1.06	1.17	72.00	1.62	1.34	1.08	28.00	2.50	2.07	1.67
275.00	1.27	1.05	1.18	150.00	1.30	1.07	1.15	70.00	1.67	1.38	1.11	26.00	2.69	2.23	1.80
270.00	1.30	1.07	1.15	148.00	1.31	1.09	1.14	68.00	1.72	1.42	1.15	24.00	2.92	2.42	1.95
265.00	1.32	1.09	1.13	146.00	1.33	1.10	1.12	66.00	1.77	1.46	1.18	22.00	3.18	2.64	2.13
260.00	1.35	1.12	1.11	144.00	1.35	1.12	1.11	64.00	1.82	1.51	1.22	20.00	3.50	2.90	2.34
255.00	1.37	1.14	1.09	142.00	1.37	1.13	1.09	62.00	1.88	1.56	1.26	18.00	3.89	3.22	2.60
250.00	1.40	1.16	1.07	140.00	1.39	1.15	1.08	60.00	1.94	1.61	1.30	16.00	4.38	3.63	2.93
245.00	1.43	1.18	1.05	138.00	1.41	1.17	1.06	58.00	2.01	1.67	1.34	14.00	5.00	4.14	3.34
240.00	1.46	1.21	1.03	136.00	1.43	1.18	1.05	56.00	2.08	1.73	1.39	12.00	5.83	4.83	3.90
235.00	1.49	1.23	1.00	134.00	1.45	1.20	1.03	54.00	2.16	1.79	1.44	10.00	7.00	5.80	4.68
230.00	1.52	1.26	1.02	132.00	1.47	1.22	1.02	52.00	2.24	1.86	1.50	8.00	8.75	7.25	5.85
225.00	1.56	1.29	1.04	130.00	1.50	1.24	1.00	50.00	2.33	1.93	1.56	6.00	11.67	9.67	7.80
220.00	1.59	1.32	1.06	128.00	1.52	1.26	1.02	48.00	2.43	2.01	1.63				
215.00	1.63	1.35	1.09	126.00	1.54	1.28	1.03	46.00	2.54	2.10	1.70				
210.00	1.67	1.38	1.11	124.00	1.57	1.30	1.05	44.00	2.65	2.20	1.77				
205.00	1.71	1.41	1.14	122.00	1.59	1.32	1.07	42.00	2.78	2.30	1.86				
200.00	1.75	1.45	1.17	120.00	1.62	1.34	1.08	40.00	2.92	2.42	1.95				
195.00	1.79	1.49	1.20	118.00	1.65	1.37	1.10	38.00	3.07	2.54	2.05				
190.00	1.84	1.53	1.23	116.00	1.68	1.39	1.12	36.00	3.24	2.69	2.17				
185.00	1.89	1.57	1.26	114.00	1.71	1.41	1.14	34.00	3.43	2.84	2.29				
180.00	1.94	1.61	1.30	112.00	1.74	1.44	1.16	32.00	3.65	3.02	2.44				
175.00	2.00	1.66	1.34	110.00	1.77	1.46	1.18	30.00	3.89	3.22	2.60				
170.00	2.06	1.71	1.38	108.00	1.80	1.49	1.20	28.00	4.17	3.45	2.79				
165.00	2.12	1.76	1.42	106.00	1.83	1.52	1.23	26.00	4.49	3.72	3.00				
160.00	2.19	1.81	1.46	104.00	1.87	1.55	1.25	24.00	4.86	4.03	3.25				
155.00	2.26	1.87	1.51	102.00	1.91	1.58	1.27	22.00	5.30	4.39	3.55				
150.00	2.33	1.93	1.56	100.00	1.94	1.61	1.30	20.00	5.83	4.83	3.90				
145.00	2.41	2.00	1.61					18.00	6.48	5.37	4.33				
140.00	2.50	2.07	1.67					16.00	7.29	6.04	4.88				
135.00	2.59	2.15	1.73					14.00	8.33	6.90	5.57				
130.00	2.69	2.23	1.80					12.00	9.72	8.06	6.50				
125.00	2.80	2.32	1.87					10.00	11.67	9.67	7.80				
120.00	2.92	2.42	1.95												
115.00	3.04	2.52	2.03												
110.00	3.18	2.64	2.13												
105.00	3.33	2.76	2.23												
100.00	3.50	2.90	2.34												

Speed Increase Ratios are shown in bold type.

SELECTION TXT PAGES G1-12-G1-25	DIMENSIONS TXT PAGES G1-26-G1-67	SELECTION SCXT PAGES G1-81-G1-89	DIMENSIONS SCXT PAGES G1-90-G1-117
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RELATED PRODUCTS

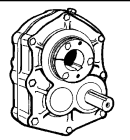


TORQUE-ARM Shaft Mount Speed Reducers

**TABLE 22 — NOMINAL SHEAVE SPEED (RPM) AT INPUT FOR DODGE REDUCERS
1750 RPM 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
400.00	2000	200.00	1800	120.00	1800	76.00	1900
395.00	1975	198.00	1782	118.00	1770	74.00	1850
390.00	1950	196.00	1764	116.00	1740	72.00	1800
385.00	1925	194.00	1746	114.00	1710	70.00	1750
380.00	1900	192.00	1728	112.00	1680	68.00	1700
375.00	1875	190.00	1710	110.00	1650	66.00	1650
370.00	1850	188.00	1692	108.00	1620	64.00	1600
365.00	1825	186.00	1674	106.00	1590	62.00	1550
360.00	1800	184.00	1656	104.00	1560	60.00	1500
355.00	1775	182.00	1638	102.00	1530	58.00	1450
350.00	1750	180.00	1620	100.00	1500	56.00	1400
345.00	1725	178.00	1602	98.00	1470	54.00	1350
340.00	1700	176.00	1584	96.00	1440	52.00	1300
335.00	1675	174.00	1566	94.00	1410	50.00	1250
330.00	1650	172.00	1548	92.00	1380	48.00	1200
325.00	1625	170.00	1530	90.00	1350	46.00	1150
320.00	1600	168.00	1512	88.00	1320	44.00	1100
315.00	1575	166.00	1494	86.00	1290	42.00	1050
310.00	1550	164.00	1476	84.00	1260	40.00	1000
305.00	1525	162.00	1458	82.00	1230	38.00	950
300.00	1500	160.00	1440	80.00	1200	36.00	900
295.00	1475	158.00	1422	78.00	1170	34.00	850
290.00	1450	156.00	1404	76.00	1140	32.00	800
285.00	1425	154.00	1386	74.00	1110	30.00	750
280.00	1400	152.00	1368	72.00	1080	28.00	700
275.00	1375	150.00	1350	70.00	1050	26.00	650
270.00	1350	148.00	1332	68.00	1020	24.00	600
265.00	1325	146.00	1314	66.00	990	22.00	550
260.00	1300	144.00	1296	64.00	960	20.00	500
255.00	1275	142.00	1278	62.00	930	18.00	450
250.00	1250	140.00	1260	60.00	900	16.00	400
245.00	1225	138.00	1242	58.00	870	14.00	350
240.00	1200	136.00	1224	56.00	840	12.00	300
235.00	1175	134.00	1206	54.00	810	10.00	250
230.00	1150	132.00	1188	52.00	780	8.00	200
225.00	1125	130.00	1170	50.00	750	6.00	150
220.00	1100	128.00	1152	48.00	720		
215.00	1075	126.00	1134	46.00	690		
210.00	1050	124.00	1116	44.00	660		
205.00	1025	122.00	1098	42.00	630		
200.00	1000	120.00	1080	40.00	600		
195.00	975	118.00	1062	38.00	570		
190.00	950	116.00	1044	36.00	540		
185.00	925	114.00	1026	34.00	510		
180.00	900	112.00	1008	32.00	480		
175.00	875	110.00	990	30.00	450		
170.00	850	108.00	972	28.00	420		
165.00	825	106.00	954	26.00	390		
160.00	800	104.00	936	24.00	360		
155.00	775	102.00	918	22.00	330		
150.00	750	100.00	900	20.00	300		
145.00	725			18.00	270		
140.00	700			16.00	240		
135.00	675			14.00	210		
130.00	650			12.00	180		
125.00	625			10.00	150		
120.00	600						
115.00	575						
110.00	550						
105.00	525						
100.00	500						

SELECTION TXT PAGES G1-12-G1-25	DIMENSIONS TXT PAGES G1-26-G1-67	SELECTION SCXT PAGES G1-81-G1-89	DIMENSIONS SCXT PAGES G1-90-G1-117
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RELATED PRODUCTS

TORQUE-ARM Shaft Mount Speed Reducers

V-BELT DRIVES FOR TXT415A, TXT425A & SCXT415A, SCXT425A REDUCERS 3VX, 5VX, 8VX, AX, BX, CX AND DX BELTS REQUIRED.

These are typical drives for average service conditions. For other conditions, output speeds or motor speeds see reducer specification for minimum driven sheave diameter and use V-belt selection tables.

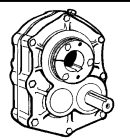
For minimum driven sheave diameter and use V-belt selection tables.

Size 415A Driven by 1750 RPM Motors								Size 425A Driven by 1750 RPM Motors							
Out-put RPM	V-belt Drive Ratio	Sheave Diameters *		Qty & Belt Size	Out-put RPM	V-belt Drive Ratio	Sheave Diameters *		Qty & Belt Size	Out-put RPM	V-belt Drive Ratio	Sheave Diameters *		Qty & Belt Size	
		Driver	Driven				Driver	Driven				Driver	Driven		
12	9.60	2.65	25.00	3-3V	75	1.54	4.80	7.40	4-B	10	6.89	2.80	19.00	2-3V	
13	9.07	2.80	25.00	3-3V	77	1.50	6.00	9.00	4-A	10	6.89	2.80	19.00	2-3V	
15	7.56	3.35	25.00	3-3V	79	1.46	4.75	6.90	5-3V	11	6.42	3.00	19.00	3-3V	
16	7.29	2.65	19.00	3-3V	79	1.47	6.40	9.40	3-B	12	6.11	3.15	19.00	3-3V	
18	6.42	3.00	19.00	3-3V	81	1.43	5.60	8.00	4-3V	12	6.00	3.00	18.00	3-A	
19	6.11	3.15	19.00	3-3V	81	1.43	6.00	8.60	3-B	14	5.07	2.80	14.00	3-3V	
19	6.00	3.00	18.00	3-A	84	1.38	5.00	6.90	4-3V	14	5.00	3.00	15.00	3-A	
21	5.61	4.50	25.00	3-3V	84	1.38	4.80	6.60	4-B	15	4.71	3.00	14.00	3-3V	
21	5.63	3.20	18.00	4-A	86	1.34	6.40	8.60	3-B	15	4.69	3.20	15.00	3-A	
23	5.00	3.00	15.00	4-A	87	1.34	4.50	6.00	5-3V	16	4.50	3.15	14.00	3-3V	
24	4.73	3.00	14.00	4-3V	87	1.33	4.80	6.40	4-B	16	4.41	3.40	15.00	3-A	
24	4.74	3.80	18.00	3-A	88	1.31	7.10	9.25	3-5V	17	4.26	4.50	19.00	2-3V	
26	4.50	3.15	14.00	4-3V	88	1.32	5.00	6.60	4-B	17	4.29	4.20	18.00	2-A	
26	4.41	3.40	15.00	4-A	90	1.29	4.80	6.20	4-B	18	4.06	2.65	10.60	3-3V	
28	4.17	3.60	15.00	4-A	91	1.27	4.75	6.00	5-3V	18	4.00	3.00	12.00	3-A	
29	4.03	4.75	19.00	2-3V	91	1.26	6.80	8.60	3-B	19	3.88	3.65	14.00	2-3V	
29	3.95	3.80	15.00	3-A	92	1.26	5.40	6.80	4-B	19	3.75	3.20	12.00	3-A	
31	3.75	4.00	15.00	4-A	93	1.25	4.80	6.00	5-B	20	3.58	3.00	10.60	4-3V	
32	3.58	3.00	10.60	5-3V	94	1.23	5.30	6.50	5-3V	20	3.53	3.00	10.60	4-A	
32	3.57	4.20	15.00	4-A	94	1.23	6.00	7.40	4-B	21	3.40	3.15	10.60	4-3V	
34	3.40	3.15	10.60	5-3V	96	1.20	5.00	6.00	5-3V	21	3.41	5.40	18.40	2-B	
34	3.41	4.40	15.00	4-A	96	1.21	4.80	5.80	5-B	23	3.18	6.00	19.00	2-3V	
35	3.33	3.60	12.00	4-A	97	1.19	6.20	7.40	4-B	23	3.08	5.00	15.40	2-B	
37	3.13	4.50	14.00	3-3V	98	1.18	4.75	5.60	6-3V	24	2.93	3.65	10.60	3-3V	
37	3.16	3.80	12.00	4-A	98	1.18	5.60	6.60	4-B	24	2.94	3.60	10.60	3-A	
38	3.08	5.00	15.40	3-B	99	1.17	5.80	6.80	4-B	25	2.82	5.00	14.00	2-3V	
39	2.93	3.65	10.60	4-3V	101	1.15	8.50	9.75	3-5V	25	2.85	5.40	15.40	2-B	
39	2.94	3.60	10.60	4-A	101	1.14	5.60	6.40	4-B	26	2.77	6.90	19.00	2-3V	
41	2.82	5.00	14.00	3-3V	103	1.12	5.00	5.60	5-3V	26	2.79	3.80	10.60	3-A	
41	2.85	5.40	15.40	3-B	103	1.13	4.80	5.40	5-B	27	2.69	3.00	8.00	4-3V	
43	2.70	4.60	12.40	4-B	104	1.12	4.75	5.30	6-3V	27	2.65	4.00	10.60	3-A	
44	2.66	5.30	14.00	3-3V	104	1.11	5.60	6.20	4-B	28	2.56	3.15	8.00	4-3V	
44	2.61	4.60	12.00	4-A	105	1.10	5.80	6.40	4-B	28	2.58	4.80	12.40	2-B	
46	2.51	5.60	14.00	3-3V	106	1.09	8.50	9.25	3-5V	29	2.51	5.60	14.00	2-3V	
46	2.50	4.80	12.00	4-A	106	1.09	8.60	9.40	3-B	29	2.48	5.00	12.40	2-B	
48	2.41	4.40	10.60	4-A	108	1.07	5.60	6.00	5-3V	30	2.41	3.35	8.00	3-3V	
49	2.37	4.50	10.60	4-3V	108	1.07	5.80	6.20	4-B	30	2.38	5.20	12.40	2-B	
49	2.38	5.20	12.40	3-B	110	1.05	4.75	5.00	6-3V	32	2.24	4.75	10.60	3-3V	
51	2.25	4.00	9.00	5-A	110	1.06	9.00	9.50	3-C	32	2.28	3.60	8.20	4-A	
52	2.24	4.75	10.60	4-3V	111	1.04	5.00	5.20	5-B	33	2.21	3.65	8.00	4-3V	
52	2.21	5.60	12.40	3-B	116	1.00	5.00	5.00	5-3V	33	2.21	4.80	10.60	3-A	
54	2.13	5.00	10.60	3-3V	116	1.00	5.80	5.80	4-B	34	2.13	5.00	10.60	3-3V	
54	2.14	4.20	9.00	4-A	119	0.97	6.40	6.20	4-B	34	2.12	5.00	10.60	3-A	
55	2.12	5.20	11.00	3-B	120	0.97	5.80	5.60	5-B	35	2.08	3.35	6.90	4-3V	
56	2.07	5.80	12.00	3-A	122	0.95	5.60	5.30	6-3V	35	2.04	4.60	9.40	3-B	
57	2.04	6.90	14.00	3-3V	122	0.94	9.00	8.50	3-C	36	2.02	3.00	6.00	5-3V	
57	2.04	5.40	11.00	3-B	123	0.94	5.30	5.00	6-3V	36	2.00	6.20	12.40	2-B	
59	1.95	4.12	8.00	4-3V	123	0.94	6.80	6.40	4-B	37	1.95	4.12	8.00	3-3V	
59	1.96	4.80	9.40	3-B	125	0.92	6.50	6.00	5-3V	37	1.94	6.40	12.40	2-B	
61	1.90	5.60	10.60	3-3V	125	0.93	5.40	5.00	6-B	38	1.88	3.00	5.60	5-3V	
61	1.90	5.80	11.00	3-B	127	0.91	6.60	6.00	5-B	38	1.88	6.60	12.40	2-B	
62	1.88	5.00	9.40	3-B	128	0.90	6.20	5.60	5-B	39	1.82	6.80	12.40	2-B	
64	1.80	10.60	19.00	2-3V	129	0.90	5.30	4.75	6-3V	40	1.79	4.50	8.00	3-3V	
64	1.81	5.20	9.40	3-B	129	0.90	5.80	5.20	5-B	40	1.77	6.20	11.00	2-B	
66	1.75	8.00	14.00	2-3V	131	0.88	6.00	5.30	6-3V	41	1.75	8.00	14.00	2-3V	
66	1.74	5.40	9.40	3-B	131	0.88	5.20	4.60	6-B	41	1.74	5.40	9.40	3-B	
67	1.72	6.40	11.00	3-B	133	0.87	6.90	6.00	5-3V	43	1.68	4.12	6.90	4-3V	
69	1.67	7.10	11.80	3-5V	133	0.87	6.00	5.20	5-B	43	1.68	7.40	12.40	2-B	
69	1.67	6.60	11.00	3-B	135	0.85	11.00	9.40	3-B	44	1.64	6.50	10.60	3-3V	
70	1.65	5.20	8.60	4-B	136	0.85	6.60	5.60	5-B	44	1.62	5.80	9.40	3-B	
72	1.61	5.00	8.00	4-3V	137	0.85	5.60	4.75	6-3V	45	1.61	5.00	8.00	3-3V	
72	1.62	6.80	11.00	3-B	137	0.84	6.40	5.40	5-B	45	1.59	5.40	8.60	3-B	
73	1.59	5.40	8.60	4-B	138	0.84	7.40	6.20	4-B	46	1.55	5.80	9.00	3-A	
74	1.57	6.00	9.40	3-B	139	0.83	6.00	5.00	6-3V	47	1.51	5.30	8.00	3-3V	
75	1.54	4.50	6.90	5-3V	139	0.83	6.00	5.00	6-B	47	1.54	4.80	7.40	3-B	

Note: These V-belts drives are designed for average service and are based on reducer ratings. Where fire hazards are prevalent and fire prevention laws apply, it is recommended that drives be redesigned using a service factor of 2.0 on the hp rating of the motor — refer to V-belt drive tables or consult DODGE.

* DODGE stock sheaves. Outside diameters shown for DYNA-V (3V); pitch diameters for A & B sheaves. All ratios based on P.D. Sheaves in shaded area represent speed up drives.

SELECTION TXT PAGES G1-12-G1-25	DIMENSIONS TXT PAGES G1-26-G1-67	SELECTION SCXT PAGES G1-81-G1-89	DIMENSIONS SCXT PAGES G1-90-G1-117
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RELATED PRODUCTS

TORQUE-ARM Shaft Mount Speed Reducers

V-BELT DRIVES FOR TXT1015 & TXT1024 REDUCERS 3VX, 5VX, 8VX, AX, BX, CX AND DX BELTS REQUIRED.

These are typical drives for average service conditions. For other conditions, output speeds or motor speeds see reducer specification for minimum driven sheave diameter and use V-belt selection tables.

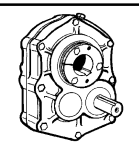
For minimum driven sheave diameter and use V-belt selection tables.

Size 1015 Driven by 1750 RPM Motors										Size 1024 Driven by 1750 RPM Motors									
Out-put RPM	V-belt Drive Ratio	Sheave Diameters *		Qty & Belt Size	Out-put RPM	V-belt Drive Ratio	Sheave Diameters *		Qty & Belt Size	Out-put RPM	V-belt Drive Ratio	Sheave Diameters *		Qty & Belt Size	Out-put RPM	V-belt Drive Ratio	Sheave Diameters *		Qty & Belt Size
		Driver	Driven				Driver	Driven				Driver	Driven						
16	7.13	7.10	50.00	4-5V	58	2.01	14.00	28.00	5-5V	10	7.12	4.75	33.50	6-3V	37	1.95	10.90	21.20	5-5V
17	6.74	7.50	50.00	4-5V	58	2.00	12.00	24.00	6-C	10	7.31	5.20	38.00	6-B	38	1.90	10.50	20.00	6-C
18	6.32	8.00	50.00	4-5V	59	1.95	10.90	21.20	6-5V	11	6.37	5.30	33.50	5-3V	39	1.85	13.00	24.00	5-C
18	6.29	7.00	44.00	6-C	64	1.80	11.80	21.20	6-5V	11	6.55	5.80	38.00	5-B	40	1.79	9.00	16.00	6-5V
19	5.94	8.50	50.00	4-5V	65	1.79	14.00	25.00	6-5V	12	6.03	5.60	33.50	6-3V	40	1.82	11.00	20.00	6-C
20	5.87	7.50	44.00	6-C	68	1.70	12.50	21.20	6-5V	12	5.94	6.40	38.00	5-B	41	1.74	9.25	16.00	6-5V
21	5.61	9.00	50.00	4-5V	72	1.61	13.20	21.20	6-5V	13	5.62	6.00	33.50	5-3V	42	1.70	12.50	21.20	4-5V
21	5.50	8.00	44.00	5-C	76	1.52	14.00	21.20	5-5V	13	5.36	5.60	30.00	6-B	42	1.71	10.50	18.00	6-C
22	5.34	7.10	37.50	5-5V	78	1.47	10.90	16.00	6-5V	14	5.19	6.50	33.50	5-3V	43	1.67	9.00	15.00	6-5V
22	5.14	7.40	38.00	6-B	80	1.45	12.50	18.00	5-8V	14	5.00	6.00	30.00	6-B	43	1.67	12.00	20.00	5-C
23	5.05	7.50	37.50	5-5V	84	1.37	13.20	18.00	5-8V	15	4.88	6.90	33.50	6-3V	44	1.65	9.75	16.00	5-5V
24	4.73	8.00	37.50	5-5V	85	1.36	14.00	19.00	5-8V	15	4.69	6.40	30.00	6-B	44	1.64	11.00	18.00	6-C
24	4.80	7.50	36.00	6-C	89	1.29	13.20	17.00	5-8V	16	4.41	6.80	30.00	6-B	45	1.61	13.20	21.20	4-5V
25	4.63	9.50	44.00	5-C	95	1.21	13.20	16.00	8-5V	17	4.19	6.00	25.00	6-3V	45	1.61	12.40	20.00	8-B
26	4.45	8.50	37.50	4-5V	101	1.14	13.20	15.00	6-5V	17	4.17	6.00	25.00	6-B	46	1.56	10.30	16.00	5-5V
26	4.42	8.60	38.00	6-B	108	1.07	14.00	15.00	6-5V	18	3.99	7.10	28.00	4-5V	47	1.52	9.25	14.00	6-5V
27	4.21	8.00	33.50	3-5V	109	1.06	13.20	14.00	6-5V	18	3.91	6.40	25.00	6-B	47	1.52	10.50	16.00	6-C
27	4.24	8.50	36.00	5-C	115	1.00	13.20	13.20	6-5V	19	3.77	7.50	28.00	4-5V	48	1.50	12.00	18.00	6-C
28	4.09	9.25	37.50	5-5V						19	3.75	8.00	30.00	5-C	49	1.47	10.90	16.00	6-5V
28	4.19	10.50	44.00	5-C						20	3.64	6.90	25.00	8-3V	49	1.48	12.40	18.40	8-B
29	4.02	12.50	50.00	4-5V						20	3.53	8.50	30.00	5-C	50	1.43	14.00	20.00	6-C
29	4.04	9.40	38.00	8-B						21	3.38	7.40	25.00	6-B	52	1.38	10.90	15.00	6-5V
30	3.88	9.75	37.50	4-5V						22	3.32	8.50	28.00	4-5V	52	1.38	13.00	18.00	6-C
30	3.79	9.50	36.00	6-C						22	3.33	9.00	30.00	4-C	53	1.36	11.80	16.00	5-5V
31	3.67	10.30	37.50	4-5V						23	3.14	8.00	25.00	8-3V	54	1.33	12.00	16.00	6-C
31	3.67	12.00	44.00	5-C						23	3.19	9.40	30.00	6-B	56	1.28	12.50	16.00	5-5V
32	3.60	10.00	36.00	5-C						24	3.05	9.25	28.00	4-5V	56	1.29	14.00	18.00	6-C
33	3.46	10.90	37.50	4-5V						24	3.00	8.00	24.00	6-C	57	1.27	11.80	15.00	5-5V
33	3.45	11.00	38.00	8-B						25	2.85	7.50	21.20	5-5V	58	1.24	12.40	15.40	8-B
34	3.43	10.50	36.00	5-C						25	2.91	8.60	25.00	6-B	59	1.21	10.90	13.20	6-5V
35	3.27	11.00	36.00	5-C						26	2.74	10.30	28.00	4-5V	59	1.23	13.00	16.00	6-C
36	3.17	10.60	33.50	4-5V						26	2.82	8.50	24.00	5-C	60	1.20	12.50	15.00	6-5V
36	3.19	9.40	30.00	8-B						27	2.67	8.00	21.20	5-5V	61	1.19	11.80	14.00	6-5V
37	3.13	9.00	28.00	6-5V						27	2.66	9.40	25.00	6-B	63	1.14	14.00	16.00	5-5V
37	3.14	14.00	44.00	5-C						28	2.58	10.90	28.00	4-5V	64	1.12	11.80	13.20	6-5V
38	3.05	9.25	28.00	6-5V						28	2.57	14.00	36.00	4-C	66	1.08	10.90	11.80	8-5V
38	3.00	12.00	36.00	6-C						29	2.53	9.50	24.00	6-C	67	1.07	14.00	15.00	5-5V
40	2.89	9.75	28.00	5-5V						30	2.36	10.60	25.00	6-3V	68	1.06	11.80	12.50	6-5V
40	2.86	10.50	30.00	6-C						30	2.40	10.00	24.00	5-C	72	1.00	11.80	11.80	6-5V
42	2.74	10.30	28.00	5-5V						31	2.31	9.25	21.20	5-5V					
42	2.73	11.00	30.00	6-C						31	2.31	13.00	30.00	4-C					
43	2.69	14.00	37.50	4-5V						32	2.25	12.50	28.00	4-5V					
45	2.58	10.90	28.00	5-5V						32	2.29	10.50	24.00	5-C					
45	2.57	14.00	36.00	5-C						33	2.19	9.75	21.20	4-5V					
46	2.50	12.00	30.00	6-C						33	2.18	11.00	24.00	5-C					
48	2.38	11.80	28.00	5-5V						34	2.13	13.20	28.00	4-5V					
48	2.42	12.40	30.00	6-C						34	2.11	9.50	20.00	5-C					
50	2.31	13.00	30.00	6-C						35	2.07	10.30	21.20	4-5V					
51	2.25	12.50	28.00	5-5V						36	2.01	14.00	28.00	3-5V					
51	2.25	12.00	27.00	6-D						36	2.02	12.40	25.00	6-B					
54	2.13	13.20	28.00	5-5V															
54	2.14	14.00	30.00	6-C															
56	2.08	13.00	27.00	5-D															
57	2.02	12.40	25.00	6-C															

Note: These V-belts drives are designed for average service and are based on reducer ratings. Where fire hazards are prevalent and fire prevention laws apply, it is recommended that drives be redesigned using a service factor of 2.0 on the hp rating of the motor — refer to V-belt drive tables or consult DODGE.

* DODGE stock sheaves. Outside diameters shown for DYNA-V (3V); pitch diameters for A & B sheaves. All ratios based on P.D. Sheaves in shaded area represent speed up drives.

SELECTION TXT PAGES G1-12-G1-25	DIMENSIONS TXT PAGES G1-26-G1-67	SELECTION SCXT PAGES G1-81-G1-89	DIMENSIONS SCXT PAGES G1-90-G1-117
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RELATED PRODUCTS

TORQUE-ARM Shaft Mount Speed Reducers

V-BELT DRIVES FOR TXT1215, TXT1225, TDT1325, TDT1425 & TDT1530 REDUCERS 3VX, 5VX, 8VX, AX, BX, CX AND DX BELTS REQUIRED.

These are typical drives for average service conditions. For other conditions, output speeds or motor speeds see reducer specifications.

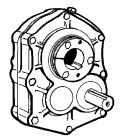
for minimum driven sheave diameter and use V-belt selection tables.

TXT1215 Driven by 1750 RPM Motor					TXT1225 Driven by 1750 RPM Motor					TDT1325 Driven by 1750 RPM Motor					TDT1425 Driven by 1750 RPM Motor				
Out-put RPM	V-belt Drive Ratio	Sheave Diameters *		Qty & Belt Size	Out-put RPM	V-belt Drive Ratio	Sheave Diameters *		Qty & Belt Size	Out-put RPM	V-belt Drive Ratio	Sheave Diameters *		Qty & Belt Size	Out-put RPM	V-belt Drive Ratio	Sheave Diameters *		Qty & Belt Size
		Driver	Driven				Driver	Driven				Driver	Driven				Driver	Driven	
21	5.61	9.00	50.00	5-5V	10	7.13	7.10	50.00	5-5V	10	6.74	7.50	50.00	5-5V	15	4.62	10.90	50.00	6-5V
22	5.45	9.25	50.00	5-5V	11	6.74	7.50	50.00	4-5V	13	5.61	9.00	50.00	5-5V	17	4.26	11.80	50.00	6-5V
23	5.17	9.75	50.00	4-5V	11	6.29	7.00	44.00	6-C	14	4.89	10.30	50.00	4-5V	19	3.81	13.20	50.00	6-5V
24	4.89	10.30	50.00	5-5V	12	5.94	8.50	50.00	4-5V	15	4.62	10.90	50.00	4-5V	20	3.59	14.00	50.00	6-5V
25	4.62	10.90	50.00	5-5V	12	5.87	7.50	44.00	6-C	17	4.20	9.00	37.50	6-5V	23	3.06	13.20	40.00	5-8V
28	4.20	9.00	37.50	6-5V	13	5.61	9.00	50.00	4-5V	17	4.19	10.50	44.00	6-C	24	2.88	14.00	40.00	5-8V
28	4.19	10.50	44.00	8-C	13	5.50	8.00	44.00	6-C	18	4.02	12.50	50.00	4-5V	25	2.85	13.20	37.50	6-5V
29	4.09	9.25	37.50	6-5V	14	5.05	7.50	37.50	5-5V	19	3.81	13.20	50.00	4-5V	26	2.69	14.00	37.50	8-5V
29	4.00	11.00	44.00	6-C	14	5.14	7.40	38.00	10-B	19	3.67	12.00	44.00	6-C	31	2.29	13.20	30.00	6-8V
31	3.81	13.20	50.00	5-5V	15	4.73	8.00	37.50	5-5V	20	3.46	10.90	37.50	5-5V	33	2.13	13.20	28.00	8-5V
32	3.67	12.00	44.00	8-C	15	4.80	7.50	36.00	6-C	21	3.38	13.00	44.00	6-C	35	2.01	14.00	28.00	8-5V
33	3.59	14.00	50.00	5-5V	16	4.45	8.50	37.50	4-5V	22	3.20	11.80	37.50	5-5V	41	1.71	13.20	22.40	8-8V
34	3.46	10.90	37.50	6-5V	16	4.42	8.60	38.00	8-B	23	3.02	12.50	37.50	5-5V					
35	3.38	13.00	44.00	6-C	17	4.20	9.00	37.50	5-5V	25	2.85	13.20	37.50	5-5V					
37	3.20	11.80	37.50	6-5V	17	4.19	10.50	44.00	5-C	26	2.69	14.00	37.50	5-5V	TDT1530 Driven by 1750 RPM Motor				
39	3.02	12.50	37.50	6-5V	18	3.88	9.75	37.50	4-5V	31	2.29	13.20	30.00	5-8V	Out-put RPM	V-belt Drive Ratio	Sheave Diameters *		Qty & Belt Size
41	2.85	13.20	37.50	6-5V	18	4.04	9.40	38.00	8-B	33	2.13	13.20	28.00	6-5V			Driver	Driven	
44	2.69	14.00	37.50	5-5V	19	3.67	10.30	37.50	4-5V	35	2.01	14.00	28.00	6-5V	14	4.06	13.20	53.00	6-8V
45	2.58	10.90	28.00	6-5V	19	3.79	9.50	36.00	6-C	41	1.71	13.20	22.40	6-8V	15	3.81	13.20	50.00	8-5V
49	2.38	11.80	28.00	6-5V	21	3.43	10.50	36.00	5-C	44	1.61	13.20	21.20	8-5V	16	3.59	14.00	50.00	8-5V
54	2.16	14.00	30.00	5-8V	22	3.17	10.60	33.50	5-5V	46	1.52	13.20	20.00	6-8V	19	3.06	13.20	40.00	8-8V
55	2.13	13.20	28.00	6-5V	22	3.16	9.50	30.00	6-C	47	1.52	14.00	21.20	8-5V	20	2.85	13.20	37.50	10-5V
59	2.01	14.00	28.00	6-5V	23	3.13	9.00	28.00	5-5V	49	1.45	13.20	19.00	6-8V	21	2.69	14.00	37.50	10-5V
69	1.71	13.20	22.40	6-8V	23	3.06	12.40	38.00	6-B	52	1.36	14.00	19.00	6-8V					
73	1.61	13.20	21.20	8-5V	24	3.02	12.50	37.50	4-5V	55	1.29	14.00	18.00	6-8V					
77	1.52	14.00	21.20	8-5V	24	3.00	12.00	36.00	6-C	58	1.21	13.20	16.00	6-5V					
					25	2.89	9.75	28.00	5-5V	62	1.14	13.20	15.00	6-5V					
					25	2.86	10.50	30.00	6-C	66	1.07	14.00	15.00	6-5V					
					26	2.74	10.30	28.00	5-5V	67	1.06	13.20	14.00	6-5V					
					26	2.73	11.00	30.00	6-C										
					27	2.58	10.90	28.00	5-5V										
					28	2.50	12.00	30.00	6-C										
					29	2.42	12.40	30.00	8-B										
					30	2.38	11.80	28.00	5-5V										
					31	2.31	13.00	30.00	6-C										
					32	2.25	12.50	28.00	5-5V										
					32	2.25	12.00	27.00	6-D										
					33	2.13	13.20	28.00	5-5V										
					33	2.14	14.00	30.00	6-C										
					34	2.08	13.00	27.00	5-D										
					35	2.01	14.00	28.00	5-5V										
					35	2.02	12.40	25.00	8-B										
					36	1.95	10.90	21.20	6-5V										
					40	1.79	14.00	25.00	6-5V										
					42	1.70	12.50	21.20	6-5V										
					44	1.61	13.20	21.20	6-5V										
					46	1.53	12.50	19.00	5-8V										
					47	1.52	14.00	21.20	5-5V										
					48	1.47	10.90	16.00	6-5V										
					49	1.45	12.50	18.00	5-8V										
					51	1.38	10.90	15.00	6-5V										
					52	1.37	13.20	18.00	5-8V										
					55	1.29	13.20	17.00	5-8V										
					58	1.21	13.20	16.00	6-5V										
					66	1.07	14.00	15.00	6-5V										
					67	1.06	13.30	14.00	6-5V										
					71	1.00	13.20	13.20	8-5V										
					75	0.95	13.50	12.50	8-5V										

Note: These V-belts drives are designed for average service and are based on reducer ratings. Where fire hazards are prevalent and fire prevention laws apply, it is recommended that drives be redesigned using a service factor of 2.0 on the hp rating of the motor — refer to V-belt drive tables or consult DODGE.

* DODGE stock sheaves. Outside diameters shown for DYNA-V (3V); pitch diameters for A & B sheaves. All ratios based on P.D. Sheaves in shaded area represent speed up drives.

SELECTION TXT PAGES G1-12-G1-25	DIMENSIONS TXT PAGES G1-26-G1-67	SELECTION SCXT PAGES G1-81-G1-89	DIMENSIONS SCXT PAGES G1-90-G1-117
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RELATED PRODUCTS

TORQUE-ARM Shaft Mount Speed Reducers

**V-BELT DRIVES FOR TXT105, SCXT105; TXT205, SCXT205; TXT305A, SCXT305A REDUCERS
3VX, 5VX, 8VX, AX, BX, CX AND DX BELTS REQUIRED.**

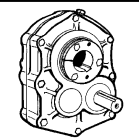
These are typical drives for average service conditions. For other conditions, output speeds or motor speeds see reducer specification for minimum driven sheave diameter and use V-belt selection tables.

Size 105 Driven by 1750 RPM Motor					Size 205 Driven by 1750 RPM Motor					Size 305A Driven by 1750 RPM Motor				
Out-put RPM	V-belt Drive Ratio	Sheave Diameters *		Qty & Belt Size	Out-put RPM	V-belt Drive Ratio	Sheave Diameters *		Qty & Belt Size	Out-put RPM	V-belt Drive Ratio	Sheave Diameters *		Qty & Belt Size
		Driver	Driven				Driver	Driven				Driver	Driven	
100	3.12	3.40	10.60	3-A	100	3.31	3.20	10.60	4-A	100	3.13	4.50	14.00	3-3V
102	3.06	2.65	8.00	3-3V	104	3.20	3.35	10.60	3-3V	100	3.12	4.80	15.00	3-A
102	3.07	6.00	18.40	2-B	104	3.17	5.80	18.40	2-B	105	2.97	4.75	14.00	4-3V
108	2.89	2.80	8.00	3-3V	112	2.97	4.75	14.00	3-3V	105	2.97	6.20	18.40	3-B
108	2.88	5.20	15.00	2-A	112	2.94	3.60	10.60	3-A	111	2.82	5.00	14.00	3-3V
118	2.63	2.65	6.90	3-3V	120	2.77	6.90	19.00	2-3V	111	2.81	6.40	18.00	3-A
118	2.65	4.00	10.60	2-A	120	2.75	5.60	15.40	2-B	118	2.66	5.30	14.00	3-3V
129	2.41	3.35	8.00	3-3V	129	2.56	3.15	8.00	5-3V	118	2.66	5.80	15.40	3-B
129	2.41	4.40	10.60	3-A	129	2.56	3.20	8.20	5-A	121	2.59	4.12	10.60	4-3V
134	2.32	3.00	6.90	4-3V	137	2.41	3.35	8.00	4-3V	121	2.58	4.80	12.40	3-B
134	2.33	3.00	7.00	4-A	137	2.41	4.40	10.60	4-A	124	2.51	5.60	14.00	3-3V
139	2.24	4.75	10.60	3-3V	140	2.37	4.50	10.60	3-3V	124	2.52	4.20	10.60	5-A
139	2.25	4.00	9.00	3-A	140	2.37	3.80	9.00	4-A	131	2.38	8.00	19.00	2-3V
150	2.08	3.35	6.90	3-3V	150	2.21	3.65	8.00	4-3V	131	2.38	5.20	12.40	3-B
150	2.08	7.40	15.40	2-B	150	2.21	4.80	10.60	3-A	139	2.24	4.75	10.60	3-3V
160	1.95	4.12	8.00	3-3V	159	2.08	3.15	6.50	5-3V	139	2.25	4.00	9.00	5-A
160	1.94	3.60	7.00	3-A	159	2.08	7.40	15.40	2-B	147	2.13	5.00	10.60	3-3V
166	1.88	3.00	5.60	4-3V	169	1.95	4.12	8.00	3-3V	147	2.12	5.00	10.60	4-A
166	1.88	5.00	9.40	2-B	169	1.96	4.60	9.00	3-A	156	2.01	5.30	10.60	3-3V
173	1.80	3.35	6.00	3-3V	176	1.88	3.00	5.60	5-3V	156	2.00	6.00	12.00	3-A
173	1.80	3.00	5.40	4-A	176	1.88	6.60	12.40	2-B	160	1.95	4.12	8.00	4-3V
178	1.75	8.00	14.00	2-3V	184	1.80	3.35	6.00	4-3V	160	1.96	4.80	9.40	3-B
178	1.75	3.20	5.60	4-A	184	1.80	5.00	9.00	3-A	164	1.90	5.60	10.60	3-3V
186	1.68	3.00	5.00	4-3V	197	1.68	4.12	6.90	4-3V	165	1.90	5.80	11.00	3-B
186	1.68	5.60	9.40	2-B	197	1.68	5.60	9.40	3-B	174	1.80	10.60	19.00	2-3V
196	1.59	3.35	5.30	3-3V	206	1.61	5.00	8.00	3-3V	174	1.79	4.80	8.60	3-B
196	1.59	5.40	8.60	2-B	206	1.61	4.60	7.40	4-B	178	1.75	8.00	14.00	2-3V
206	1.51	5.30	8.00	2-3V	215	1.54	4.50	6.90	4-3V	179	1.75	4.00	7.00	5-A
206	1.52	6.20	9.40	2-B	215	1.54	4.80	7.40	3-B	186	1.68	4.12	6.90	4-3V
215	1.45	4.50	6.50	3-3V	226	1.46	4.12	6.00	4-3V	186	1.68	7.40	12.40	2-B
215	1.45	6.20	9.00	2-A	226	1.46	5.60	8.20	3-A	195	1.61	5.00	8.00	3-3V
225	1.38	5.00	6.90	2-3V	239	1.38	5.00	6.90	3-3V	195	1.60	4.00	6.40	5-A
225	1.39	6.20	8.60	2-B	239	1.39	6.20	8.60	3-B	203	1.54	6.90	10.60	3-3V
236	1.32	10.60	14.00	2-3V	248	1.34	4.50	6.00	4-3V	203	1.54	4.80	7.40	4-B
236	1.32	5.00	6.60	3-B	248	1.33	4.80	6.40	3-B	206	1.51	5.30	8.00	4-3V
246	1.27	4.75	6.00	3-3V	254	1.30	5.00	6.50	3-3V	206	1.52	6.20	9.40	3-B
246	1.26	6.80	8.60	2-B	254	1.30	4.60	6.00	4-A	213	1.47	6.40	9.40	3-B
254	1.23	5.30	6.50	3-3V	265	1.25	4.50	5.60	4-3V	214	1.46	7.10	10.30	3-5V
254	1.23	4.40	5.40	4-A	265	1.25	4.80	6.00	3-B	218	1.43	5.60	8.00	4-3V
264	1.18	4.50	5.30	3-3V	280	1.18	4.75	5.60	4-3V	218	1.43	6.00	8.60	3-B
264	1.18	5.60	6.60	3-B	280	1.18	4.40	5.20	4-A	230	1.36	14.00	19.00	2-3V
275	1.13	5.30	6.00	3-3V	285	1.16	5.60	6.50	3-3V	230	1.36	7.00	9.50	3-C
275	1.13	6.00	6.80	3-B	285	1.16	7.40	8.60	2-B	236	1.32	10.60	14.00	3-3V
285	1.09	4.12	4.50	4-3V	295	1.12	5.00	5.60	3-3V	236	1.32	5.60	7.40	4-B
285	1.09	8.60	9.40	2-B	295	1.12	6.60	7.40	3-B	246	1.27	7.10	9.00	3-5V
296	1.05	4.75	5.00	3-3V	312	1.06	5.00	5.30	3-3V	246	1.27	7.40	9.40	3-B
296	1.05	3.80	4.00	4-A	312	1.06	6.40	6.80	3-B	253	1.23	6.00	7.40	3-B
312	1.00	4.50	4.50	3-3V	331	1.00	4.12	4.12	4-3V	254	1.23	6.50	8.00	3-3V
312	1.00	6.20	6.20	2-B	331	1.00	8.60	8.60	2-B	260	1.20	7.10	8.50	3-5V
327	0.95	4.20	4.00	4-A	349	0.95	5.00	4.75	4-3V	260	1.20	7.50	9.00	3-C
328	0.95	5.00	4.75	3-3V	349	0.95	3.80	3.60	5-A	269	1.16	6.90	8.00	3-3V
334	0.91	6.00	5.60	3-3V	355	0.93	6.00	5.60	3-3V	269	1.16	7.40	8.60	3-B
334	0.93	6.00	5.60	3-A	355	0.93	6.00	5.60	3-A	277	1.13	7.10	8.00	3-5V
341	0.91	4.50	4.12	3-3V	362	0.91	4.50	4.12	4-3V	277	1.13	11.00	12.40	2-B
341	0.91	9.40	8.60	2-B	362	0.91	9.40	8.60	2-B	294	1.06	8.00	8.50	3-C
349	0.89	5.60	5.00	3-3V	374	0.88	4.12	3.65	5-3V	296	1.06	7.10	7.50	3-5V
349	0.89	7.40	6.60	2-B	374	0.88	5.20	4.60	3-B	330	0.95	7.50	7.10	3-5V
360	0.87	4.75	4.12	3-3V	375	0.88	6.00	5.30	3-3V	332	0.94	8.50	8.00	3-C
360	0.86	7.40	6.40	2-B	375	0.88	6.80	6.00	3-B	342	0.91	9.40	8.60	3-B
368	0.85	5.30	4.50	3-3V	384	0.86	8.00	6.90	3-3V	343	0.91	9.00	8.20	3-A
368	0.85	5.20	4.40	3-A	384	0.86	5.80	5.00	3-B	363	0.86	8.60	7.40	3-B
384	0.81	8.00	6.50	2-3V	391	0.85	5.60	4.75	3-3V	366	0.85	11.00	9.40	3-B
384	0.81	7.40	6.00	2-B	391	0.85	5.20	4.40	4-A	368	0.85	10.60	9.00	3-A
394	0.79	8.60	6.80	2-B	397	0.83	4.80	4.00	4-A	375	0.83	9.00	7.50	3-C
395	0.79	6.00	4.75	3-3V	398	0.83	6.00	5.00	3-3V	397	0.79	9.40	7.40	3-B

Note: These V-belts drives are designed for average service and are based on reducer ratings. Where fire hazards are prevalent and fire prevention laws apply, it is recommended that drives be redesigned using a service factor of 2.0 on the hp rating of the motor — refer to V-belt drive tables or consult DODGE.

* DODGE stock sheaves. Outside diameters shown for DYNA-V (3V); pitch diameters for A & B sheaves. All ratios based on P.D. Sheaves in shaded area represent speed up drives.

SELECTION TXT PAGES G1-12-G1-25	DIMENSIONS TXT PAGES G1-26-G1-67	SELECTION SCXT PAGES G1-81-G1-89	DIMENSIONS SCXT PAGES G1-90-G1-117
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RELATED PRODUCTS

TORQUE-ARM Shaft Mount Speed Reducers

**V-BELT DRIVES FOR TXT605, SCXT605; TXT705, SCXT705; TXT805 & TXT905 REDUCERS
3VX, 5VX, 8VX, AX, BX, CX AND DX BELTS REQUIRED.**

These are typical drives for average service conditions. For other conditions, output speeds or motor speeds see reducer specification for minimum driven sheave diameter and use V-belt selection tables.

For minimum driven sheave diameter and use V-belt selection tables.

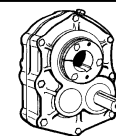
TXT705 Driven by 1750 RPM Motor					TXT805 Driven by 1750 RPM Motor					TXT905 Driven by 1750 RPM Motor				
Out-put RPM	V-belt Drive Ratio	Sheave Diameters *		Qty & Belt Size	Out-put RPM	V-belt Drive Ratio	Sheave Diameters *		Qty & Belt Size	Out-put RPM	V-belt Drive Ratio	Sheave Diameters *		Qty & Belt Size
		Driver	Driven				Driver	Driven				Driver	Driven	
100	3.27	11.00	36.00	4-C	100	3.17	10.60	33.50	8-3V	102	3.20	11.80	37.50	5-5V
103	3.17	10.60	33.50	5-3V	100	3.19	9.40	30.00	10-B	103	3.17	10.60	33.50	10-3V
103	3.16	9.50	30.00	4-V	104	3.05	9.25	28.00	5-5V	103	3.14	14.00	44.00	5-C
115	2.85	7.50	21.20	4-5V	104	3.06	12.40	38.00	6-B	104	3.13	9.00	28.00	6-5V
116	2.82	8.50	24.00	5-C	111	2.85	13.20	37.50	4-5V	108	3.02	12.50	37.50	5-5V
122	2.67	8.00	21.20	5-5V	111	2.86	10.50	30.00	5-C	108	3.00	12.00	36.00	8-C
123	2.66	9.40	25.00	6-B	116	2.74	10.30	28.00	4-5V	114	2.85	13.20	37.50	5-5V
130	2.51	8.50	21.20	4-5V	117	2.73	11.00	30.00	8-B	117	2.77	13.00	36.00	6-C
131	2.50	12.00	30.00	4-C	123	2.58	10.90	28.00	4-5V	121	2.69	14.00	37.50	5-5V
142	2.31	9.25	21.20	4-5V	124	2.57	14.00	36.00	4-C	126	2.58	10.90	28.00	6-5V
142	2.31	13.00	30.00	4-C	133	2.38	11.80	28.00	4-5V	126	2.57	14.00	36.00	6-C
145	2.25	12.50	28.00	3-5V	133	2.40	10.00	24.00	5-C	130	2.50	12.00	30.00	8-C
145	2.25	8.00	18.00	6-C	138	2.31	9.25	21.20	6-5V	134	2.42	12.40	30.00	10-B
153	2.13	13.20	28.00	3-5V	138	2.31	13.00	30.00	5-C	136	2.38	11.80	28.00	5-5V
153	2.14	8.60	18.40	8-B	141	2.25	12.50	28.00	4-5V	141	2.31	13.00	30.00	6-C
162	2.01	7.50	15.00	5-5V	141	2.25	12.00	27.00	5-D	144	2.25	12.50	28.00	5-5V
162	2.02	12.40	25.00	5-B	148	2.14	14.00	30.00	5-C	144	2.25	12.00	27.00	6-D
174	1.88	7.50	14.00	5-5V	149	2.13	13.20	28.00	4-5V	153	2.13	13.20	28.00	6-5V
174	1.88	8.50	16.00	5-C	159	2.01	14.00	28.00	4-5V	162	2.01	14.00	28.00	5-5V
181	1.80	11.80	21.20	3-5V	159	2.00	12.00	24.00	6-C	166	1.95	10.90	21.20	8-5V
181	1.80	10.00	18.00	4-C	167	1.90	10.50	20.00	6-C	180	1.80	11.80	21.20	6-5V
195	1.67	9.00	15.00	5-5V	172	1.85	13.00	24.00	5-C	182	1.79	14.00	25.00	10-3V
195	1.67	11.00	18.40	6-B	177	1.80	10.60	19.00	8-3V	191	1.70	12.50	21.20	6-5V
203	1.61	13.20	21.20	4-5V	178	1.79	9.00	16.00	6-5V	202	1.61	13.20	21.20	6-5V
203	1.61	12.40	20.00	6-B	183	1.74	9.25	16.00	6-5V	213	1.53	12.50	19.00	5-8V
212	1.54	9.75	15.00	5-5V	186	1.71	10.50	18.00	6-C	214	1.52	14.00	21.20	5-5V
212	1.54	13.00	20.00	4-C	190	1.67	9.00	15.00	6-5V	221	1.47	10.90	16.00	8-5V
222	1.47	10.90	16.00	4-5V	190	1.67	11.00	18.40	6-C	225	1.45	12.50	18.00	5-8V
222	1.47	9.50	14.00	5-C	197	1.61	12.40	20.00	8-B	236	1.38	10.90	15.00	8-5V
234	1.39	9.00	12.50	5-5V	198	1.61	13.20	21.20	5-5V	238	1.37	12.50	17.00	5-8V
236	1.38	13.00	18.00	4-C	207	1.54	13.00	20.00	6-C	239	1.36	11.80	16.00	6-5V
248	1.31	9.00	11.80	5-5V	210	1.52	14.00	21.20	5-5V	253	1.28	12.50	16.00	6-5V
248	1.32	9.40	12.40	8-B	214	1.48	12.40	18.40	8-B	255	1.27	11.80	15.00	6-5V
257	1.27	11.80	15.00	4-5V	216	1.47	10.90	16.00	6-5V	268	1.21	10.90	13.20	8-5V
257	1.27	11.00	14.00	5-C	230	1.38	13.00	18.00	6-C	270	1.20	12.50	15.00	6-5V
263	1.24	12.40	15.40	6-B	231	1.38	10.90	15.00	6-5V	274	1.19	11.80	14.00	6-5V
264	1.24	10.50	13.00	5-C	234	1.36	11.80	16.00	5-5V	284	1.14	14.00	16.00	6-5V
272	1.20	12.50	15.00	4-5V	239	1.33	12.00	16.00	6-C	285	1.14	13.20	15.00	5-8V
272	1.20	10.00	12.00	5-C	247	1.29	10.90	14.00	6-5V	286	1.14	13.20	15.00	8-5V
286	1.14	14.00	16.00	3-5V	247	1.29	14.00	18.00	6-C	303	1.07	14.00	15.00	8-5V
286	1.14	10.50	12.00	5-C	256	1.24	12.40	15.40	8-B	306	1.06	13.20	14.00	8-5V
293	1.11	9.25	10.30	5-5V	259	1.23	13.00	16.00	6-C	325	1.00	13.20	13.20	8-5V
296	1.11	9.50	10.50	5-C	263	1.21	12.00	14.50	6-D	343	0.95	13.20	12.50	8-5V
302	1.08	10.90	11.80	4-5V	265	1.20	12.50	15.00	5-5V	345	0.94	14.00	13.20	8-5V
302	1.08	12.00	13.00	5-C	268	1.19	11.80	14.00	5-5V	364	0.89	14.00	12.50	8-5V
310	1.05	9.25	9.75	5-5V	268	1.19	13.50	16.00	5-D	365	0.89	14.00	12.50	6-8V
310	1.05	9.50	10.00	6-C	277	1.15	10.90	12.50	6-5V	386	0.84	14.00	11.80	8-5V
327	1.00	10.30	10.30	4-5V	277	1.15	13.50	15.50	5-D	394	0.82	13.20	10.90	10-5V
327	1.00	11.00	11.00	6-B	283	1.13	12.00	13.50	6-D					
336	0.97	9.25	9.00	5-5V	284	1.12	11.80	13.20	5-5V					
342	0.95	11.00	10.50	5-C	294	1.08	10.90	11.80	5-5V					
345	0.95	9.75	9.25	5-5V	294	1.08	12.00	13.00	8-C					
345	0.95	9.50	9.00	6-C	297	1.07	14.00	15.00	5-5V					
354	0.92	11.80	10.90	4-5V	297	1.07	14.00	15.00	5-D					
354	0.92	13.00	12.00	4-C	306	1.04	13.00	13.50	6-D					
364	0.90	10.30	9.25	5-5V	307	1.04	13.50	14.00	5-D					
365	0.89	9.50	8.50	6-C	318	1.00	12.50	12.50	5-5V					
378	0.86	9.25	8.00	5-5V	318	1.00	13.00	13.00	6-C					
378	0.86	11.00	9.50	5-C	336	0.95	13.20	12.50	6-5V					
386	0.85	10.90	9.25	5-5V	337	0.94	10.90	10.30	8-5V					
386	0.85	13.00	11.00	5-C	356	0.89	10.90	9.75	8-5V					
392	0.83	12.00	10.00	5-C	357	0.89	14.00	12.50	6-5V					
393	0.83	9.00	7.50	6-5V	376	0.85	10.90	9.25	10-5V					
399	0.82	9.75	8.00	5-5V	378	0.84	14.00	11.80	6-5V					
399	0.82	11.00	9.00	5-C	387	0.82	12.50	10.30	8-5V					

Note: These V-belts drives are designed for average service and are based on reducer ratings. Where fire hazards are prevalent and fire prevention laws apply, it is recommended that drives be redesigned using a service factor of 2.0 on the hp rating of the motor — refer to V-belt drive tables or consult DODGE.

* DODGE stock sheaves. Outside diameters shown for DYNA-V (3V); pitch diameters for A & B sheaves. All ratios based on P.D. Sheaves in shaded area represent speed up drives.

SELECTION TXT PAGES G1-12-G1-25	DIMENSIONS TXT PAGES G1-26-G1-67	SELECTION SCXT PAGES G1-81-G1-89	DIMENSIONS SCXT PAGES G1-90-G1-117
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RENEWAL PARTS



TORQUE-ARM Shaft Mount Speed Reducers

RENEWAL PARTS FOR TORQUE-ARM REDUCERS

TORQUE-ARM REDUCER SEAL KITS	
PART NUMBER	SIZE
241340	TD-TDT1 Seal Kit
242340	TD-TDT2 Seal Kit
243340	TD-TDT-TXT3 Seal Kit
244340	TD-TDT4 Seal Kit
245340	TD-TDT-TXT5 Seal Kit
246340	TDT-TXT-C6-SCXT6 Seal Kit
247345	TDT7-TXT7-C7-SCXT7-T17-C17-TXT705 SCXT705 Seal Kit
248340	TDT-TXT8-T18-TXT805 Seal Kit
249340	TD-TDT-TXT9 Seal Kit
272460	TD-TDT-TXT10 Seal Kit
272700	#11 -T11 -TXT105 Seal Kit
272701	#12-T12-TXT205 Seal Kit
272702	#13-T13-TXT305 Seal Kit
272703	#14-T14-TXT405 Seal Kit
272704	#15-T15-TXT505 Seal Kit
272705	T16-C16-TXT605-SCXT605 Seal Kit
272708	T19-TXT905 Seal Kit
272710	C1 Seal Kit
272711	SCXT1 Seal Kit
272712	SCXT2-C2 Seal Kit
272713	SCXT3-C3 Seal Kit
272714	SCXT4-C4 Seal Kit
272715	SCXT5-C5 Seal Kit
272716	SCXT105-C11 Seal Kit
272717	SCXT205-C12 Seal Kit
272718	SCXT305-C13 Seal Kit
272719	SCXT405-C14 Seal Kit
272720	SCXT505-C15 Seal Kit
389720	TXT, SCXT, HXT309A-325A Seal Kit
389721	TXT, SCXT, HXT409A-425A Seal Kit
389722	TXT, SCXT, HXT509B-525B Seal Kit
389726	TXT, SCXT, HXT305A Seal Kit
389727	TXT, SCXT, HXT405A Seal Kit
389728	TXT, SCXT, HXT505A Seal Kit
392119	TXT1 Seal Kit
392120	TXT2 Seal Kit
392121	TXT4 Seal Kit

TORQUE-ARM REDUCER BEARING KITS	
PART NUMBER	SIZE
389900	TDT1 BEARING KIT
389901	TDT2 HT2 BEARING KIT
389902	TDT3 HT3 BEARING KIT
389903	TDT4 HT4 BEARING KIT
389904	TDT5 HT5 BEARING KIT
389905	TXT1 - HXT1 BEARING KIT
389906	TXT2 - HXT2 BEARING KIT
389907	TXT3 - HXT3 BEARING KIT
389908	TXT4 - HXT4 BEARING KIT
389909	TXT5 - HXT5 BEARING KIT
389910	TXT105 - T11 BEARING KIT
389911	TXT205 - HXT205 BEARING KIT
389912	TXT305 - HXT305 - T13 - HT13 BEARING KIT
389913	TXT405 - HXT405 BEARING KIT
389914	TXT505 - HXT505 - T15 - HT15 BEARING KIT
389915	T14 - HT14 BEARING KIT
389916	HXT105 - HT11 BEARING KIT
389587	TXT3A INPUT BEARING KIT
389588	TXT3A COUNTERSHAFT BEARING KIT
389589	TXT3A OUTPUT BEARING KIT
389590	TXT4A INPUT BEARING KIT
389591	TXT4A COUNTERSHAFT BEARING KIT
389592	TXT4A OUTPUT BEARING KIT
389593	TXT509B - 515B INPUT BEARING KIT
389594	TXT525B INPUT BEARING KIT
389595	TXT5B COUNTERSHAFT BEARING KIT
389596	TXT5B OUTPUT BEARING KIT
389597	TXT305A INPUT BEARING KIT
389598	TXT405A INPUT BEARING KIT
389599	TXT505A INPUT BEARING KIT

Drive Shafts for OLD STYLE (Prior to 1992) SCXT 3 - 4 - 5 Reducers

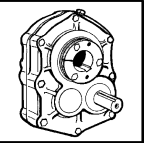
Part Number	Drive Shaft
353042	SCXT 3 x 1-1/2
353043	SCXT 3 x 2
353044	SCXT 3 x 2-7/16
353045	SCXT 3 x 3
354116	SCXT 4 x 1-1/2
354117	SCXT 4 x 2
354118	SCXT 4 x 2-7/16
354119	SCXT 4 x 3
354120	SCXT 4 x 3-7/16
355076	SCXT 5 x 2
355077	SCXT 5 x 2-7/16
355078	SCXT 5 x 3
355079	SCXT 5 x 3-7/16

Parts for HYDROIL Vane Motors

HYDROIL Motor Size	Part Number		
	Motor Shaft	Seal Kit ★	Motor Shaft Seal
A10	391658	391657	391659
A20	391658	391657	391659
B30	444059	444058	.....
B40	444062	444061	.....
B50	.....	.....	.....

★ Seal kit includes motor shaft seal.

DIMENSIONS TXT PAGES G1-26-G1-67	DIMENSIONS SCXT PAGES G1-90-G1-117	DIMENSIONS HXT PAGES G1-137-G1-143	
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TORQUE-ARM Shaft Mount Speed Reducers

DODGE TORQUE-ARM PROTECTION PLAN

Pre-Packaged Rebuild Kits For TXT & SCXT Reducers

The DODGE TORQUE-ARM Reducer is America's #1 Shaft Mount Reducer. TORQUE-ARM reducers are designed to achieve optimum service life from all components. Wear will occur over the service life of the reducer, particularly bearings and seals. To rebuild TORQUE-ARM Reducers to factory tolerances and specifications, use genuine DODGE replacement parts.

SAVE TIME AND MONEY

The new TORQUE-ARM Level I and Level II Rebuild Kits minimize the cost of downtime and maximize productivity by having the parts available before they are needed. A formal preventive

tive maintenance program should include the scheduling of a rebuild before a problem occurs.

Machine downtime usually means lost profits and reduced productivity. Every minute your line is down, production output is reduced, schedules are delayed and return on investment is threatened; consider:

- Time and cost to diagnose failure
- Time and cost to order replacement parts
- Time and cost waiting for parts to arrive
- Time and cost to repair
- Total downtime costs

EASY AND SIMPLE TO ORDER

Selecting the correct Reducer Kit is easy. A DODGE part number has been pre-assigned for each kit. This means fewer parts to select, fewer line items to order and less chance of downtime because of missing parts. Each kit includes complete rebuild instructions and all necessary hardware for making the repair. Shims, gaskets and even gearcase sealant are included. Each part number in the kit is clearly labeled with description and part number. No time is wasted looking for parts. All parts for Rebuild Kits are overpacked and shipped in one box.

Level I Rebuild Kit

- Spring-loaded double-lip input seal
- Complete set of spring-loaded double-lip output seal
- Complete set of input, counter-shaft and output bearings
- Shim kit • Gearcase sealant • Instruction manual

Level II Rebuild Kit

- First stage high speed input shaft and pinion
- First stage mating reduction gear
- Spring-loaded double-lip input seals
- Complete set of spring-loaded double-lip output seals
- Complete set of input, counter-shaft and output bearings
- Shim kit • Gearcase sealant • Instruction manual

LEVEL I KIT

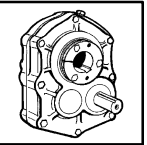
Part #	Size
392270	TXT109, 115, 125
392274	TXT209, 215, 225
392278	TXT & SCXT309A, 315A, 325A
392282	TXT & SCXT409A, 415A, 425A
392286	TXT & SCXT509B, 515B
392287	TXT & SCXT525B
392291	TXT & SCXT609, 615, 625
392295	TXT & SCXT709, 715, 725
392299	TXT815, 825
392302	TXT915, 926
392305	TXT1015, 1024
392308	TXT1215, 1225
392311	TDT1325
392313	TDT1425
392315	TDT1530

LEVEL II KIT

Part #	Size
392271	TXT109
392272	TXT115
392273	TXT125
392275	TXT209
392276	TXT215
392277	TXT225
392279	TXT & SCXT309A
392280	TXT & SCXT315A
392281	TXT & SCXT325A
392283	TXT & SCXT409A
392284	TXT & SCXT415A
392285	TXT & SCXT425A
392288	TXT & SCXT509B
392289	TXT & SCXT515B
392290	TXT & SCXT525B
392292	TXT & SCXT609
392293	TXT & SCXT615
392294	TXT & SCXT625
392296	TXT & SCXT709
392297	TXT & SCXT715
392298	TXT & SCXT725
392300	TXT815
392301	TXT825
392303	TXT915
392304	TXT926
392306	TXT1015
392307	TXT1024
392309	TXT1215
392310	TXT1225
392312	TDT1325
392314	TDT1425
392316	TDT1530

DIMENSIONS
TXT PAGES G1-26-G1-67

DIMENSIONS
SCXT PAGES G1-90-G1-117



TORQUE-ARM Shaft Mount Speed Reducers

LUBRICATION OF TORQUE-ARM REDUCERS

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

Lubrication is extremely important for satisfactory operation. The proper oil level as shown in Table 25, page G1-189, must be maintained at all times. 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 23 and 24 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 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 con-

ditions of extreme dirt or dust. Use only recommended lubricants listed on next page, or equivalent. Special attention should be given to checking of lubricants when any of the following conditions exist:

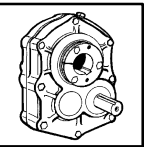
1. High operating temperatures resulting from heavy intermittent loads causes the temperature of the gear case to rise rapidly and then cool.
2. Unusual ambient conditions, which may tend to cause condensation on the inside of the gearcase thereby contaminating the oil.
3. Operating temperatures that would cause oil to approach 200°F continually.
4. Subjection of reducer to unusual vapors or moist atmosphere.
5. 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.

DIMENSIONS TXT PAGES G1-26-G1-67	DIMENSIONS SCXT PAGES G1-90-G1-117	DIMENSIONS HXT PAGES G1-137-G1-143	
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TORQUE-ARM Shaft Mount Speed Reducers

LUBRICATION OF TORQUE-ARM REDUCERS (CONT'D)

**TABLE 23: LUBRICATION RECOMMENDATIONS — ISO GRADES
FOR AMBIENT TEMPERATURES OF 50°F THRU 125°F ***

Output RPM	TXT, SCXT, HXT Reducers														
	1	2	3	4	5	6	7	8	9	10	12	13	14	15	
301-400	320	320	220	220	220	220	220	220	220	220	220	220	220	220	
201-300	320	320	220	220	220	220	220	220	220	220	220	220	220	220	
151-200	320	320	220	220	220	220	220	220	220	220	220	220	220	220	
126-150	320	320	320	220	220	220	220	220	220	220	220	220	220	220	
101-125	320	320	320	320	220	220	220	220	220	220	220	220	220	220	
81-100	320	320	320	320	320	220	220	220	220	220	220	220	220	220	
41-80	320	320	320	320	320	220	220	220	220	220	220	220	220	220	
11-40	320	320	320	320	320	320	320	320	320	320	220	220	220	220	
1-10	320	320	320	320	320	320	320	320	320	320	320	320	320	320	

**TABLE 24: LUBRICATION RECOMMENDATIONS — ISO GRADES
FOR AMBIENT TEMPERATURES OF 15°F THRU 60°F ***

Output RPM	TXT, SCXT, HXT Reducers														
	1	2	3	4	5	6	7	8	9	10	12	13	14	15	
301-400	220	220	150	150	150	150	150	150	150	150	150	150	150	150	
201-300	220	220	150	150	150	150	150	150	150	150	150	150	150	150	
151-200	220	220	150	150	150	150	150	150	150	150	150	150	150	150	
126-150	220	220	220	150	150	150	150	150	150	150	150	150	150	150	
101-125	220	220	220	220	150	150	150	150	150	150	150	150	150	150	
81-100	220	220	220	220	220	150	150	150	150	150	150	150	150	150	
41-80	220	220	220	220	220	150	150	150	150	150	150	150	150	150	
11-40	220	220	220	220	220	220	220	220	220	220	150	150	150	150	
1-10	220	220	220	220	220	220	220	220	220	220	220	220	220	220	

LUBRICANT GRADE EQUIVALENTS

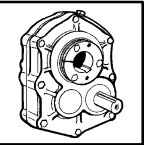
ISO	AGMA
150	4
220	5
320	6

NOTE: Mobile SHC 600 Series oil is recommended for high ambient temperatures.

* NOTES:

- Assumes auxiliary cooling where recommended in the catalog.
- Pour point of lubricant selected should be at least 10°F. lower than expected minimum ambient starting temperature.
- Extreme pressure (EP) lubricants are not recommended for average operating conditions.
- 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.
- Do not use oils containing EP additives such as graphite or molybdenum disulfide in the reducer when backstop is used. These additives will destroy sprag action.
- 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 35 grade (for example - Mobil SHC627). Above 125°F (51.6°C), consult DODGE Gear Application Engineering (864) 288-9050 for lubrication recommendation.

DIMENSIONS TXT PAGES G1-26-G1-67	DIMENSIONS SCXT PAGES G1-90-G1-117	DIMENSIONS HXT PAGES G1-137-G1-143	
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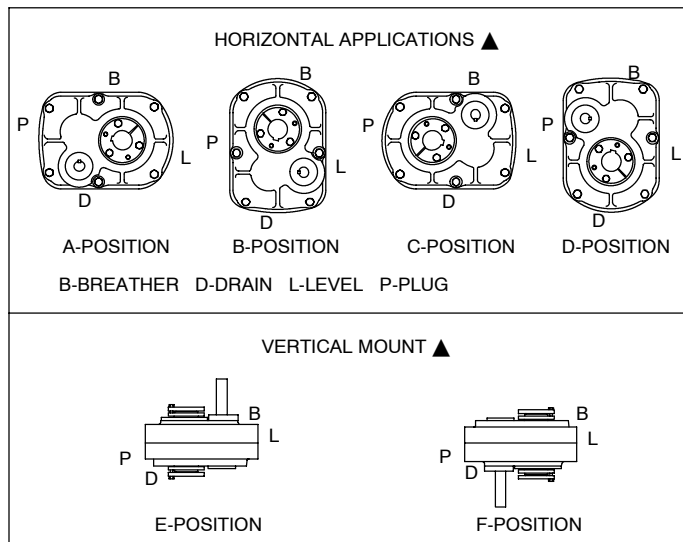
TORQUE-ARM Shaft Mount Speed Reducers

LUBRICATION OF TORQUE-ARM REDUCERS (CONT'D)

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

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

Mounting Positions



▲ Note: Below 15 RPM output speed, oil level must be adjusted to reach the highest oil level plug (P).

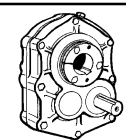
Vertical Installations—Install the filler/ventilation plug in the hole provided in the top face of the reducer housing. Use the hole in the bottom face for the magnetic drain plug. Of the remaining holes on the sides of the reducer, use a plug in the upper housing half for the minimum oil level plug.

Table 25 — Approx. Oil Capacity in Quarts ■ ◆

Reducer Size TXT SCXT HXT	Reducer Positions					
	Horizontal				Vertical	
	A	B	C	D	E	F
109, 115, 125	1/2	1/2	5/8	3/4	1	1-1/4
105	5/8	3/4	5/8	3/4	1-1/8	1-3/8
209, 215, 225	7/8	1	5/8	1	1-5/8	1-3/4
205	3/4	7/8	7/8	7/8	1-3/4	2-1/4
309, 315, 325	1-1/2	1-1/2	3/4	2-1/4	2-5/8	3
305	7/8	1-1/2	1-3/8	1-3/8	2-1/2	3-1/8
409, 415, 425	1-7/8	2-1/4	1-1/4	1-3/4	3-3/8	4-1/4
405	1-1/2	2-1/4	2-1/8	1-7/8	4	4-7/8
509, 515, 525	3-1/4	4	3-1/4	4	7	8-5/8
505	3-3/8	4-1/4	3-7/8	3-3/4	7-3/4	9
609, 615, 625	4-1/4	5	4-1/4	5	8-5/8	9-1/8
605	4-1/2	5-3/4	4-1/2	5	12	11
709, 715, 725	6-1/2	8	7-1/4	9-1/4	15-3/8	16-3/8
705	7-1/2	9	7-1/2	9-1/4	19	17-1/4
815, 825	8-1/2	11	10-1/2	8-1/2	19-1/8	19-1/8
805	6	15	10	8-1/2	22	18-3/4
915, 926	13	13	12-1/2	14-1/4	25-3/8	25-3/8
905	14-3/4	15	16-1/4	13-3/4	31-7/8	31-7/8
1015, 1024	23	14	15-3/4	18-3/4	41	41
1215, 1225	59	38	59	36-1/2	100	100
TDT1325	86	62	86	59	110	110
TDT1425	120	88	120	61	150	150
TDT1530	197	138	192	170	281	281

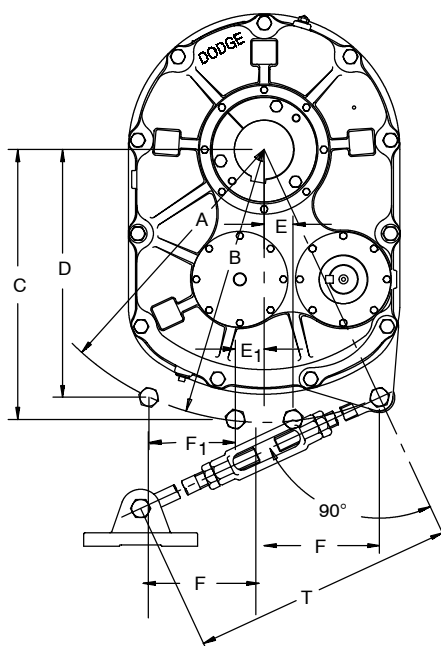
■ U.S. Measure: 1 qt. = 32 fluid oz.

◆ Consult DODGE for proper oil level for reducers with back-stops and which are mounted in C-position or D-position.

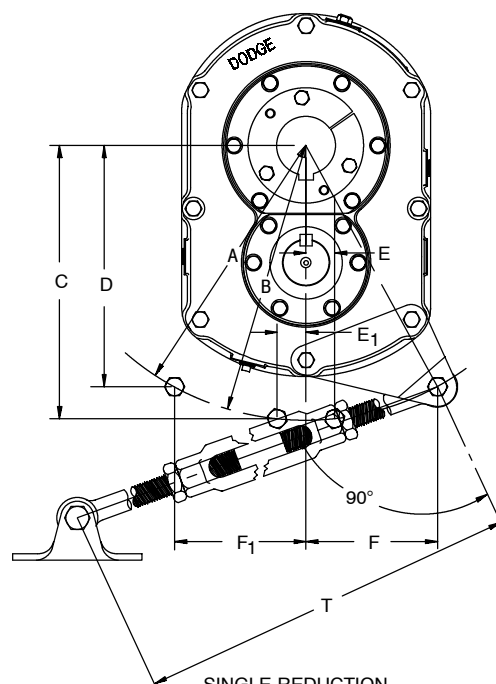


TORQUE-ARM Shaft Mount Speed Reducers

OPTIONAL TORQUE-ARM ROD MOUNTING POSITIONS FOR TORQUE-ARM REDUCERS



DOUBLE REDUCTION
TORQUE-ARM REDUCERS



SINGLE REDUCTION
TORQUE-ARM REDUCERS

**TABLE 26 — TORQUE-ARM ROD OPTIONAL MOUNTING POSITIONS FOR
TXT1 THRU TXT10 DOUBLE REDUCTION REDUCERS**

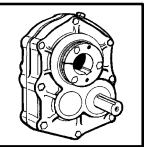
REDUCER SIZE	A-RADIUS	B-RADIUS	C	D	E, E ₁	F, F ₁	T	
							MIN.	MAX.
TXT1	8.00	—	—	7.25	—	3.41	23.81	29.63
TXT2	8.75	9.00	8.94	7.50	.81	4.50	26.94	32.94
TXT3A	10.16	10.38	10.31	8.88	.97	4.94	26.94	32.94
TXT4A	11.47	11.84	11.78	10.06	1.09	5.50	29.19	35.19
TXT5B	13.75	14.03	13.97	12.06	1.00	6.63	29.19	35.19
TXT6	15.69	15.88	15.84	13.63	.94	7.75	29.19	35.19
TXT7	18.19	18.84	18.81	15.88	1.25	8.94	29.44	35.44
TXT8	21.00	21.38	21.38	19.56	—	7.63	30.00	36.00
TXT9	22.72	23.63	23.63	20.63	—	9.50	30.00	36.00
TXT10	25.20	25.56	25.56	23.56	—	8.94	30.00	36.00

**TABLE 27 — TORQUE-ARM ROD OPTIONAL MOUNTING POSITIONS FOR
TXT105 THRU TXT905 SINGLE REDUCTION REDUCERS**

REDUCER SIZE	A-RADIUS	B-RADIUS	C	D	E, E ₁	F, F ₁	T	
							MIN.	MAX.
TXT105	8.00	—	—	7.25	—	3.41	23.81	29.63
TXT205	8.75	9.00	8.94	7.50	.81	4.50	26.94	32.94
TXT305A	10.16	10.38	10.31	8.88	.97	4.94	26.94	32.94
TXT405A	11.47	11.84	11.78	10.06	1.09	5.50	29.19	35.19
TXT505A	14.53	14.81	14.78	12.59	.91	7.25	29.19	35.19
TXT605	16.44	16.66	16.63	14.22	.88	8.22	29.19	35.19
TXT705	18.19	18.84	18.81	15.88	1.25	8.94	29.44	35.44
TXT805	21.00	21.38	21.38	19.56	—	7.63	30.00	36.00
TXT905	22.70	23.63	23.63	20.63	—	9.50	30.00	36.00

It is preferred to mount the TORQUE-ARM rod in tension. However, the design allows mounting in compression as well. If mounted in compression, observe the tolerance $\pm 20^\circ$ to the 90° referenced above, to minimize bending. The housing direction will be opposite to the direction of output or driven shaft rotation.

DIMENSIONS TXT PAGES G1-26-G1-67	DIMENSIONS HXT PAGES G1-137-G1-143		
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TORQUE-ARM Shaft Mount Speed Reducers

TORQUE-ARM SPEED REDUCER FLANGE MOUNTING PADS AND CLEARANCE DIMENSIONS

TXT Taper Bushed and Straight Bore TORQUE-ARM reducers have mounting pads on the back of the housing that can be drilled and tapped to permit bolting the reducer to a supporting framework. It is important that the full depth of the tap not exceed the depth shown in the table below because of breaking

into the housing. If machining facilities are not available to the user, DODGE will drill and tap pads for Flange Mounting at no additional charge. See page G1-194 or consult DODGE for allowable output shaft overhung loads.

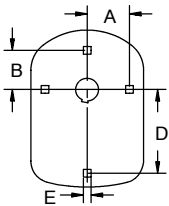


FIG. 1

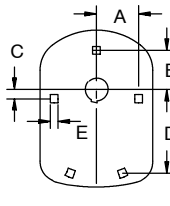


FIG. 2

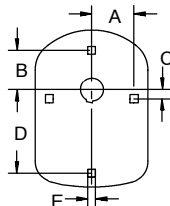


FIG. 3

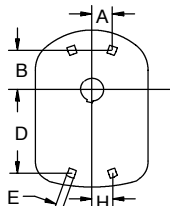


FIG. 4

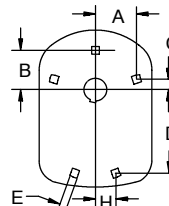


FIG. 5

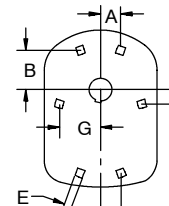


FIG. 6

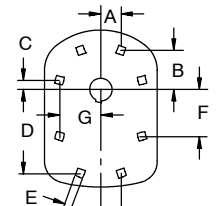


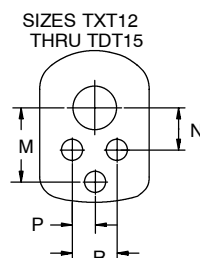
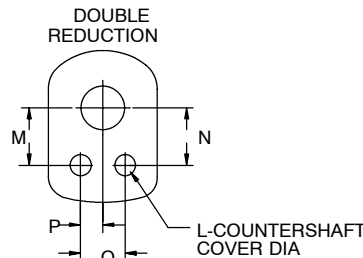
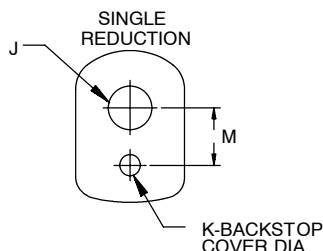
FIG. 7

TABLE 28 — FLANGE MOUNTING DRILLING DIMENSIONS FOR TXT REDUCERS

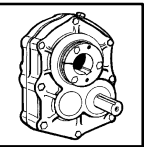
Reducer Size	Nominal Ratio	Reference	A	B	C	D	E	F	G	H	Tap Size	Tap Drill Depth	Tap Depth
TXT1	5, 9, 15, 25	Fig. 1	2-13/16	3	.....	5-1/2	7/8	.....	.....	.....	7/16—14	29/32	17/32
TXT2	9, 15, 25	Fig. 1	3-3/8	3-5/16	.....	5-7/8	13/16	.....	.....	.....	7/16—14	7/8	1/2
TXT2	5	Fig. 2	3-3/8	3-5/16	.....	4-7/8	7/8	.....	.....	2-17/32	7/16—14	7/8	1/2
TXT3	9, 15, 25	Fig. 3	3-5/8	3-5/16	7/8	6-3/16	1-1/4	.....	.....	.....	1/2—13	1	5/8
TXT3	5	Fig. 2	3-7/8	3-5/16	1	5-19/32	3/4	.....	.....	2-11/16	1/2—13	29/32	17/32
TXT4	5, 9, 15, 25	Fig. 3	3-5/8	3-7/8	2	7-5/8	1	.....	.....	.....	1/2—13	1	5/8
TXT5	9, 15, 25	Fig. 3	4-5/8	4-9/16	2-9/32	9-1/2	1-1/4	.....	.....	.....	5/8—11	7/8	7/16
TXT5	5	Fig. 3	4-5/8	4-9/16	2-9/32	9-1/4	1-1/4	.....	.....	.....	5/8—11	7/8	7/16
TXT6	5, 9, 15, 25	Fig. 3	6-3/16	5-1/8	2-3/16	11	1-7/8	.....	.....	.....	5/8—11	1-1/8	11/16
TXT7	5, 9, 15, 25	Fig. 3	5-5/8	6-1/4	2-15/16	13-1/4	2	.....	.....	.....	3/4—10	1-3/8	7/8
TXT8	5, 15, 25	Fig. 3	6-5/16	7	3	15-1/16	2	.....	.....	.....	3/4—10	1-11/32	27/32
TXT9	15, 26	Fig. 4	5-7/16	5-15/16	.....	16-7/8	2	.....	.....	3-3/8	3/4—10	1-1/32	17/32
TXT9	5	Fig. 5	8-1/16	8-1/16	5/8	13-7/8	2	.....	.....	7-15/16	3/4—10	1-1/32	15/16
TXT10	15, 24	Fig. 6	5-13/16	7-15/16	3-1/2	19	2	.....	9-13/16	3-1/8	3/4—10	1-7/32	23/32
TXT12	15, 25	Fig. 6	6-1/8	10-3/4	7-1/4	22-11/16	2-1/2	.....	12-9/16	9-1/16	3/4—10	1-25/32	1-9/32
TDT13	25	Fig. 6	7-5/16	12-3/4	6-1/2	25-3/4	2-1/2	.....	15-3/4	7-5/16	1—8	2-3/8	1-3/4
TDT14	25	Fig. 7	8-1/4	12-3/4	1-1/4	28-1/4	2-1/2	16-3/4	18-1/16	8-1/4	1—8	2-5/8	2
TDT15	30	Fig. 7	11	15-1/8	1-1/4	32-3/8	3-1/2	19-5/8	22	11	1—8	2-5/8	2

TABLE 29 — FLANGE MOUNTING CLEARANCE DIMENSIONS

Re-ducer Size	Nominal Ratio	J	K	L	M	N	P	Q	R	Re-ducer Size	Nominal Ratio	J	K	L	M	N	P	Q	R
TXT1	9, 15, 25	3-1/4	2-9/16	.....	3-3/16	3-3/16	1-29/32	2-17/32	...	TXT7	9, 15, 25	9-1/8	5-1/16	4-11/16	8-5/16	8-5/32	5-1/8	6-3/4	.....
TXT1	5	3-1/4	2-13/16	.....	3-1/4	.....	.....	.....	.....	TXT7	5	9-1/8	5-1/16	.....	8-5/16	.....	.....	.....	.....
TXT2	9, 15, 25	4-1/16	3-1/2	.....	3-3/4	3-3/4	2-1/8	3	...	TXT8	15, 25	9-1/2	7-5/8	6	9-1/2	9-1/2	6-1/32	7-23/32	.....
TXT2	5	4-1/16	3-1/2	.....	3-7/8	.....	.....	.....	...	TXT8	5	9-1/2	7-1/2	.....	9-41/64	.....	.....	.....	.....
TXT3	9, 15, 25	4-3/8	3-1/2	2-11/16	4-3/16	4-3/16	2-5/16	3-5/16	...	TXT9	15, 26	10-15/16	8	8	10-13/16	10-13/16	6-19/32	8-5/8	.....
TXT3	5	4-3/8	3-1/2	.....	4-1/4	.....	.....	.....	...	TXT9	5	10-15/16	8	.....	10-31/32	.....	.....	.....	.....
TXT4	9, 15, 25	4-13/16	3-7/8	3-1/4	4-25/32	4-25/32	2-3/4	3-11/16	...	TXT10	15, 24	12-1/4	8	7-5/8	12-1/2	12-1/2	6-9/16	8-23/32	.....
TXT4	5	4-13/16	4-1/16	.....	4-7/8	.....	.....	.....	...	TXT12	15, 25	14-1/4	8-5/8	9	22-29/32	13-25/32	5-9/16	.....	11-1/8
TXT5	9, 15, 25	5-5/8	4-1/4	3-1/4	5-11/16	5-21/32	3-1/16	4-9/16	...	TDT13	25	15-5/8	8-5/8	10-1/4	24-27/64	14-15/32	6-5/16	.....	12-5/8
TXT5	5	5-5/8	4-3/4	.....	5-7/8	.....	.....	.....	...	TDT14	25	17-5/8	10-3/4	11-3/4	26-9/32	15-5/16	7-1/8	.....	14-1/4
TXT6	9, 15, 25	8-1/8	5-1/16	4	6-3/4	6-23/32	4-3/32	5-5/8	...	TDT15	30	22-1/2	10-3/4	13-1/2	30-9/16	18-1/8	8		16
TXT6	5	8-1/8	5-1/16		6-7/8				...										



DIMENSIONS TXT PAGES G1-26-G1-67			
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TORQUE-ARM Shaft Mount Speed Reducers

MACHINING DIMENSIONS FOR TXT1 THRU TXT5B AND TXT105 THRU TXT505A TACONITE AUXILIARY SEAL KITS

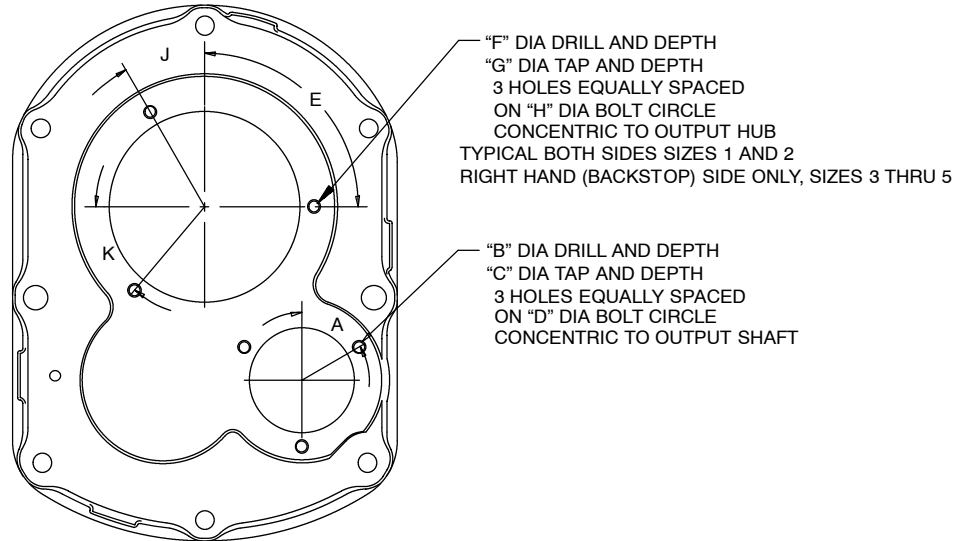


TABLE 30 — REDUCER MACHINING DIMENSIONS FOR TACONITE AUXILIARY SEAL KITS

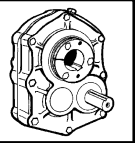
REDUCER SIZE	A (DEGREES)	B▲ (INCHES)	C (INCHES)	D (INCHES)	E (DEGREES)	F▲ (INCHES)	G (INCHES)	H (INCHES)	J (DEGREES)	K (DEGREES)
TXT1	60°	NO. 7 DIA .75 DEEP	1/4-20 .50 DEEP	2.63	120°	NO.7 DIA .75 DEEP	1/4-20 .50 DEEP	4.13	N/A	N/A
TXT2	60°	NO. 7 DIA .81 DEEP	1/4-20 .56 DEEP	2.94	120°	NO.7 DIA .88 DEEP	1/4-20 .56 DEEP	4.75	N/A	N/A
TXT3A	N/A	★	★	★	90°	NO.F DIA .75 DEEP	5/16-18 .53 DEEP	5.25	30°	50°
TXT4A	N/A	★	★	★	30°	5/16 DIA .94 DEEP	3/8-16 .56 DEEP	6.00	90°	130°
TXT5B	N/A	★	★	★	90°	5/16 DIA .94 DEEP	3/8-16 .56 DEEP	6.63	30°	60°
TXT105	60°	NO. 7 DIA .75 DEEP	1/4-20 .50 DEEP	2.94	120°	NO.7 DIA .75 DEEP	1/4-20 .50 DEEP	4.13	N/A	N/A
TXT205	60°	NO. 7 DIA .81 DEEP	1/4-20 .56 DEEP	3.69	120°	NO.7 DIA .88 DEEP	1/4-20 .63 DEEP	4.75	N/A	N/A
TXT305A	N/A	★	★	★	90°	NO.F DIA .75 DEEP	5/16-18 .53 DEEP	5.25	30°	50°
TXT405A	N/A	★	★	★	30°	5/16 DIA .94 DEEP	3/8-16 .56 DEEP	6.00	90°	130°
TXT505A	N/A	★	★	★	90°	5/16 DIA .94 DEEP	3/8-16 .56 DEEP	6.63	30°	60°

▲ DRILL DEPTH IS MAXIMUM AND MUST NOT BE EXCEEDED.

★ PLACE AUXILIARY SEAL COVER ON INPUT SEAL CARRIER USING BOLTS PROVIDED.

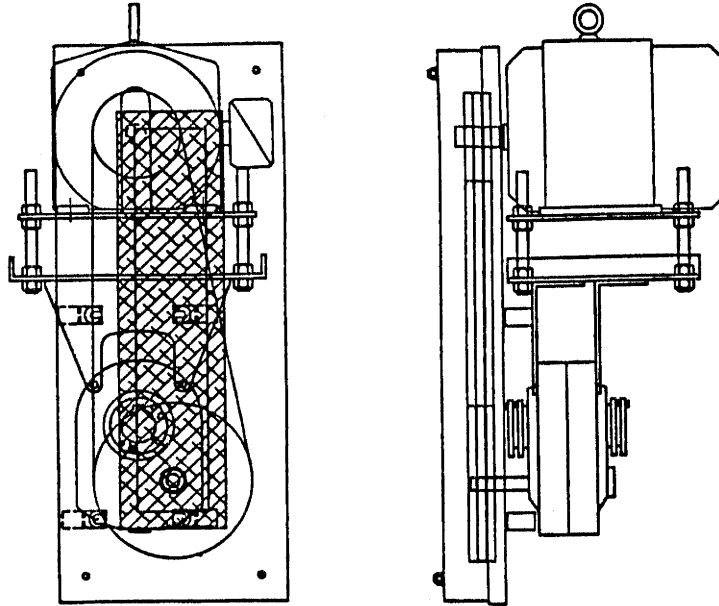
N/A = NOT APPLICABLE

DIMENSIONS TXT PAGES G1-26-G1-67	MODIFICATIONS/ACCESSORIES TXT PAGES G1-68-G1-80	DIMENSIONS SCXT PAGES G1-90-G1-117	MODIFICATIONS/ACCESSORIES SCXT PAGES G1-120-G1-126
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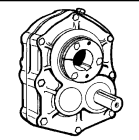
TORQUE-ARM Shaft Mount Speed Reducers

SLOTTED METAL PANEL BELT GUARD SPECIFICATION FOR TXT/SCXT REDUCERS



STYLE:	Rectangular box type Solid metal base, top and side panels. Slotted metal front and bottom panels
MATERIAL TYPE:	Hot-rolled, pickled-in-oil, #A569 Steel sheet metal.
MATERIAL THICKNESS:	Body -- 14 gauge Mounting Straps TXT1 thru TXT7 -- 7 gauge TXT8 thru TXT10 -- 1/4" gauge
FINISH:	One coat yellow paint
MOUNTING:	Mounting straps, welded to outside of back panel, fasten guard to reducer housing and motor mount front support. Threaded studs welded to inside of back panel fasten expanded metal panel into place.
FASTENERS:	Grade 5 steel

DIMENSIONS TXT PAGES G1-26-G1-67	MODIFICATIONS/ACCESSORIES TXT PAGES G1-68-G1-80	DIMENSIONS SCXT PAGES G1-90-G1-117	MODIFICATIONS/ACCESSORIES SCXT PAGES G1-120-G1-126
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TORQUE-ARM Shaft Mount Speed Reducers

Table 31 — Maximum Input and Driven Speeds for TXT and SCXT Reducers

SINGLE REDUCTION			DOUBLE REDUCTION													
Reducer Size	Input	Driven	Reducer Size	Input RPM			Driven RPM			Reducer Size	Input RPM			Driven RPM		
				Nominal Ratio			Nominal Ratio				Nominal Ratio			Nominal Ratio		
				9	15	25	9	15	25		15	25	30	15	25	30
TXT/SCXT1	2248	400								TXT/SCXT8	1809	1847	....	120	75	..
TXT/SCXT2	2116	400								TXT9	1814	1925	....	120	75	..
TXT/SCXT3	2240	400	TXT/SCXT1	1888	2149	2179	200	140	85	TXT10	1819	1823	....	120	75	..
TXT/SCXT4	2260	400	TXT/SCXT2	1850	1974	1994	200	140	85	TXT12	1786	1849	....	120	75	..
TXT/SCXT5	2268	400	TXT/SCXT3	1782	2083	2100	200	140	85	TDT13	....	1855	....	75	..	
TXT/SCXT6	2268	400	TXT/SCXT4	1934	2118	2072	200	140	85	TDT14	....	1860	....	75	..	
TXT/SCXT7	2144	400	TXT/SCXT5	1790	1925	2044	200	125	85	TDT15	....	....	1746	....	57	..
TXT8	2200	400	TXT/SCXT6	1840	1916	2010	200	125	85							
TXT9	2154	400	TXT/SCXT7	1922	1827	1844	200	120	75							

Table 32 — Output Shaft Overhung Load Ratings for Double Reduction TXT Reducers

Reducer Size	Nominal Ratio	Shaft Size	Overhung Load (Lbs.) @ Various RPM's *										
			10	20	30	50	80	100	120	140	160	180	200
TXT1	9,15,25	1-1/4	1990	1520	1300	1100	930	780	760	740	720	700	680
		1-7/16	1700	1300	1110	945	790	665	650	640	630	620	610
TXT2	9,15,25	1-7/16	2000	1510	1270	1010	840	820	720	720	710	710	700
		1-15/16	1750	1320	1110	890	730	710	630	630	620	620	610
TXT3	9,15,25	1-15/16	5400	4250	3680	3050	2620	2440	2310	2210	2110	2040	1980
		2-3/16	5240	4120	3570	2960	2540	2370	2240	2140	2050	1980	1920
TXT4	9,15,25	2-3/16	6520	5180	4510	3800	3230	3000	2830	2710	2600	2510	2430
		2-7/16	6360	5060	4410	3710	3160	2930	2770	2640	2530	2450	2370
TXT5	9,15,25	2-7/16	7460	5860	5080	4280	3690	3450	3270	3110	2980	2880	2790
		2-15/16	7060	5540	4800	4040	3490	3260	3090	2940	2820	2720	2640
TXT6	9,15,25	2-15/16	9100	7100	6100	5000	4100	4050	3700	3550	3400	3300	3200
		3-7/16	8200	6400	5500	4500	3700	3650	3400	3300	3250	3200	3150
TXT7	9,15,25	3-7/16	11,400	9500	7300	5950	4750	5050	4500	4300	4250	4200	4150

* Values shown are for loads applied at one output shaft diameter from reducer bushing. Interpolate for values between RPM's listed.

Table 33 — Output Shaft Overhung Load Ratings for Single Reduction TXT Reducers

Reducer Size	Nominal Ratio	Shaft Size	Overhung Load (Lbs.) @ Various RPM's *						
			100	150	200	250	300	350	400
TXT1	5	1-1/4	775	610	600	500	500	500	490
		1-7/16	660	520	520	430	430	420	420
TXT2	5	1-7/16	760	620	530	530	530	530	520
		1-15/16	665	545	470	470	470	460	460
TXT3	5	1-15/16	2370	2100	1950	1840	1760	1700	1660
		2-3/16	2300	2040	1890	1780	1710	1650	1610
TXT4	5	2-3/16	3030	2720	2490	2310	2170	2060	1970
		2-7/16	2930	2640	2400	2240	2100	1990	1900
TXT5	5	2-7/16	3080	2750	2560	2400	2260	2160	2080
		2-15/16	2920	2610	2430	2270	2140	2050	1980
TXT6	5	2-15/16	4350	3850	3500	3250	3200	3100	3050
		3-7/16	3950	3500	3200	2950	2900	2800	2750
TXT7	5	3-7/16	3800	3650	3300	3450	3500	3400	3300

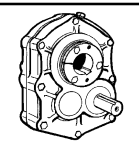
* Values shown are for loads applied at one output shaft diameter from reducer bushing. Interpolate for values between RPM's listed.

Table 34 — WR² (Lb-FT²) At High Speed Shaft for TXT Reducers*

Reducer Size	Nominal Ratio				Reducer Size	Nominal Ratio			
	5:1	9:1	15:1	25:1		5:1	9:1	15:1	25:1
TXT1	.002	.013	.008	.007	TXT9	1.66	...	1.39	.794
TXT2	.013	.027	.011	.007	TXT10	...	...	1.63	.927
TXT3	.034	.059	.026	.013	TXT12	....	...	7.71	3.68
TXT4	.075	.092	.043	.023	TDT13	...	...	...	6.56
TXT5	.150	.233	.099	.067	TDT14	...	...	...	9.00
TXT6	.201	.461	.197	.109	TDT15	...	...	...	11.42
TXT7	.480	1.004	.417	.285					
TXT8	.960	...	.942	.571					

* For WR² at low speed shaft, multiply WR² value listed by (actual ratio)².

SELECTION TXT PAGES G1-12-G1-25	SELECTION SCXT PAGES G1-81-G1-89		
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TORQUE-ARM Shaft Mount Speed Reducers

THRUST CAPACITY OF SCREW CONVEYOR DRIVE REDUCERS

The screw conveyor drive reducer uses tapered roller bearings which take thrust in either direction from the

screw conveyor. This eliminates the need for external thrust bearings commonly used.

TABLE 35 — THRUST CAPACITY OF SCREW CONVEYOR DRIVE REDUCERS (POUNDS) •

Reducer Size	Screw Conveyor RPM						
	80	100	120	140	160	180	200
SCXT109	3986	3765	3588	3434	3303	3192	3092
SCXT209	5389	5025	4742	4505	4304	4138	3990
SCXT309A	5290	4920	4660	4450	4240	4100	3970
SCXT409A	6000	6000	5800	5500	5200	5000	5000
SCXT509B	6000	6000	6000	6000	5800	5700	5500
SCXT609	6000	6000	6000	6000	6000	6000	6000
SCXT709	4863	4527	4244	3959	3713	3520	3335

Reducer Size	Screw Conveyor RPM					
	25	50	75	100	125	140
SCXT115	6000	4840	4220	3820	3540	3414
SCXT215	6000	6000	5440	4920	4560	4380
SCXT315A	6000	6000	5400	4920	4600	4450
SCXT415A	6000	6000	6000	6000	5800	5600
SCXT515B	6000	6000	6000	6000	6000	....
SCXT615	6000	6000	6000	6000	6000	....
SCXT715†	6000	6000	5220	4530	....	....

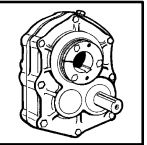
Reducer Size	Screw Conveyor RPM				
	25	50	75	80	85
SCXT125	6000	4840	4220	4130	4040
SCXT225	6000	6000	5440	5320	5000
SCXT325A	6000	6000	5400	5290	5200
SCXT425A	6000	6000	6000	6000	6000
SCXT525B	6000	6000	6000	6000	....
SCXT625	6000	6000	6000	6000	....
SCXT725	6000	6000	5220	....	....

Reducer Size	Screw Conveyor RPM						
	100	150	200	250	300	350	400
SCXT105	6000	5500	5060	4730	4520	4340	4200
SCXT205	5310	4760	4390	4160	3970	3810	3680
SCXT305A	6000	5300	4900	4600	4400	4300	4200
SCXT405A	6000	5900	5500	5000	4600	4500	4500
SCXT505B	6000	6000	6000	6000	5700	5400	5000
SCXT805	6000	6000	6000	6000	6000	6000	6000
SCXT705	5860	5500	4810	4710	4830	4980	4900

† Actual maximum output speed for SCXT715 reducer is 120 rpm.

- Consult DODGE for SCXT8 thrust capacity.

SELECTION PAGES G1-81-G1-89			
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TORQUE-ARM Shaft Mount Speed Reducers

GUIDELINES FOR LONG-TERM STORAGE OF TORQUE-ARM REDUCERS

During periods of long storage (3 months or more), or when awaiting delivery or installation of other equipment, special care should be taken to protect a gear reducer to have it in the best condition when placed into service.

By taking special precautions, problems such as seal leakage and reducer failure due to the lack of lubrication, improper lubrication quantity, or contamination can be avoided. The following precautions will protect gear reducers during periods of extended storage.

PREPARATION

1. Drain the oil from the unit. Add a vapor phase corrosion inhibiting oil such as VCI-105 oil by Daubert Chemical Co.
2. Seal the unit air tight. Replace the vent plug with a standard pipe plug and wire the vent to the unit.
3. Cover the shaft extension with a waxy rust preventive compound that will keep oxygen away from the bare metal such as Non-Rust X-110 by Daubert Chemical Co.

4. The instruction manuals and lubrication tags are paper and must be kept dry. Either remove these documents and store them inside or cover the unit with a durable waterproof cover which can keep moisture away.
5. Protect the reducer from dust, moisture, and other contaminants by storing the unit in a dry area.
6. In damp environments, the reducer should be packed inside a moisture-proof container or an envelope of plastic containing a desiccant material. If the reducer is to be stored outdoors, cover the entire exterior with a rust preventive.
7. Once a month rotate the input shaft at least 30 revolutions to redistribute the weight of gears and shafts and to prevent brinnelling of the bearings and drying of the seal track.

TABLE 36 — VCI #105 OIL FOR TORQUE-ARM REDUCERS

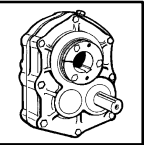
CASE SIZE	QUARTS OR LITERS
TXT1	.1
TXT2	.1
TXT3	.1
TXT4	.2
TXT5	.3
TXT6	.4
TXT7	.5
TXT8	.6
TXT9	.9
TXT10	1.3
TXT11	1.9
TXT12	2.5

VCI #105 & #10 are interchangeable, but VCI #105 is more readily available.

WHEN PLACING THE REDUCER INTO SERVICE

1. Assemble the vent plug into the proper hole.
2. Clean the shaft extensions with petroleum solvents.
3. Fill the unit to the proper oil level using a recommended lubricant. The VCI oil will not affect the new lubricant.
4. Follow the installation instructions provided with the unit.

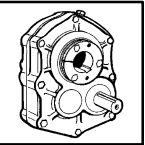
DIMENSIONS TXT PAGES G1-26-G1-67	DIMENSIONS SCXT PAGES G1-90-G1-117	DIMENSIONS HXT PAGES G1-137-G1-143	
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TORQUE-ARM Shaft Mount Speed Reducers

TROUBLE-SHOOTING GUIDE FOR TORQUE-ARM REDUCERS

SYMPTOM	PROBABLE CAUSE	REMEDY
Excessive Noise and Vibration	Improper arm attachment.	Check instructions and correct. Tighten all fasteners properly.
	Low oil level.	Check level. Fill to proper oil capacity per instruction manual.
	Excessive premature gear wear due to improper size reducer.	Reselect reducer in catalog with proper service factor. Replace worn unit.
	Driven shaft undersized.	Replace shaft or remachine to properly fit next smaller bushing size. (Check shaft strength.)
	Driven shaft bent.	Check runout. Replace or straighten shaft.
	Worn gears and bearings.	Replace gears and bearings as necessary.
	Driven shaft not projecting through output bore or bushings.	Reposition reducer on shaft or replace shaft.
	Tapered reducer bushings improperly tightened.	Check instruction manual and tighten per recommended torque values.
	Improper connection to driver and driven equipment.	Check belt tension and V-belt sheave alignment. Check coupling alignment. Check all fasteners and setscrews; tighten properly. Inspect driven shaft key positioning.
	Worn or cracked V-belts.	Replace with new belts.
	Driven equipment noise.	Check for source, reducer may amplify existing noise.
Overheating Reducers (Exceeds 195°F Housing Temperature).	Improper oil level	Check oil and fill to proper oil capacity per instruction manual. Too much oil causes heat due to churning and friction; too little starves components.
	Improper reducer size.	Reselect reducer in catalog. Decrease load or replace reducer with proper unit.
	Excessive V-belt tension.	Tension belts properly. Position sheaves as close to reducer as possible.
	Excessive reducer operating speed.	Check catalog recommendations. If necessary refer all application details to manufacturer.
	Located near high ambient heat source.	Shield reducer from heat source. Relocate reducer. Refer application details to manufacturer.
	No cooling fan installed.	Check catalog recommendation. Install fan if required.
Oil Leakage	Undetermined source of leak.	Clean reducer and dry all surfaces. Run for one hour and inspect for leak from seals, gaskets, covers and plugs.
	Plugged breather air passage.	Clean air passage. Remove air passage tape on new reducers.
	Loose drain, breather or pipe plugs.	Tighten securely. Check oil level.
	Excessive oil level.	Check level. Fill to proper oil capacity per instruction manual.
	Breather plug below oil.	Relocate breather to highest location. Check oil level.
	Premature seal wear due to hostile environment.	Replace seals. Install auxiliary seal kit.
Excessive Backlash	Worn gears.	Replace worn gears in sets.
	Loose bearings.	Check bearing wear, adjustment and replace.
	Worn shaft keys.	Replace worn keys. Check shaft keyways for wear.
	Driven equipment backlash.	Check equipment for backlash.



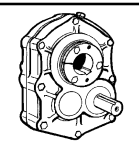
TORQUE-ARM Shaft Mount Speed Reducers

TROUBLE-SHOOTING GUIDE FOR TORQUE-ARM REDUCERS (CONT'D)

SYMPTOM	PROBABLE CAUSE	REMEDY
Excessive Lateral Movement	Worn and loose bearings	Replace bearings.
	Improper bearing adjustment.	Readjust bearing per instruction manual.
	Loose bearing carrier caps.	Check and tighten fasteners.
	Improper reducer mounting.	Check and tighten straight bore reducer set screws to recommended torque values. Check and tighten tapered reducer bearing fasteners to recommended torque values. See instruction manual.
	Reversing duty applications.	Refer application details to manufacturer.
Excessive Reducer Wobble	Driven shaft undersized.	Replace shaft or remachine to properly fit next smaller bushing size. (Check shaft strength.)
	Driven shaft bent.	Check runout. Replace or straighten shaft.
	Improper torque arm attachment.	Check instructions and correct. Tighten all fasteners promptly.
	Driven shaft not projecting through output bore or bushings.	Reposition reducer on shaft or replace shaft.
	Worn or loose driven shaft key.	Check for proper size and replace. Check shaft keyway size.
Reducer Shafts Will Not Rotate	Improper backstop installation.	Remove backstop and install properly. (Rotate end for end.)
	Driven equipment locked.	Check for rotation of driven equipment.
	Damaged gearing	Check gearing and replace. Inspect driven equipment and check for rotation.
Premature Input Bearing Failure	Excessive V-belt tension	Tension V-belts properly.
	Excessive overhung load.	Mount sheave as close to reducer as possible. Check minimum sheave requirement and replace if necessary.
	Improper oil level.	Check oil and fill to proper oil capacity per instruction manual.
	Excessive reducer operating speed.	Check catalog recommendations. If necessary, refer application details to manufacturer.
Premature Backstop Wear or Backstop Slips	Improper oil	Check oil. Avoid lubricants with EP additives, e.g., graphite. Check instruction manual for proper type.
	Backstop wear.	Check wear and replace. Inspect periodically.
	Excessive input shaft lateral movement.	Check for bearing, shaft, and housing wear. Replace components and readjust reducer per instruction manual.
	Excessive V-belt tension.	Tension V-belts properly.
	Excessive overhung load.	Mount sheave as close to reducer as possible. Check minimum sheave requirement and replace if necessary.
	Backstop key not installed	Install key or keys.
	Improper installation.	Check for proper direction of shaft rotation in backstop.
	Improper input bearing adjustment	Readjust bearings per instruction manual.
	Contaminated oil.	Flush reducer and replace oil.
	Excessive reducer operating speed.	Check catalog recommendations. Refer application details to manufacturer.

Consult DODGE for other applications.

DIMENSIONS TXT PAGES G1-26-G1-67	DIMENSIONS SCXT PAGES G1-90-G1-117	DIMENSIONS HXT PAGES G1-137-G1-143	
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TORQUE-ARM Shaft Mount Speed Reducers

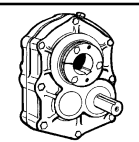
REPLACEMENT INTERCHANGE TXT SERIES EQUIVALENTS

FOUR GENERATIONS OF DODGE TORQUE-ARM REDUCERS											
AGMA CASE SIZE	RATIO										
	5:1			9:1	15:1				25:1		
—	#10	#10	—	—	—	TD015	—	—	TD025	—	—
107	#11	T11	TXT105	TXT109	#1	TD115	TDT115	TXT115	TD125	TDT125	TXT125
115	#12	T12	TXT205	TXT209	#2	TD215	TDT215	TXT215	TD225	TDT225	TXT225
203	#13	T13	TXT305	TXT309	#3	TD315	TDT315	TXT315	TD325	TDT325	TXT325
207	#14	T14	TXT405	TXT409	#4	TD415	TDT415	TXT415	TD425	TDT425	TXT425
215	#15	T15	TXT505	TXT509	#5	TD515	TDT515	TXT515	TD525	TDT525	TXT525
307	#16	T16	TXT605	TXT609	#6	TD615	TDT615	TXT615	TD625	TDT625	TXT625
315	#17	T17	TXT705	TXT709	#7	TD715	TDT715	TXT715	TD725	TDT725	TXT725
407	#18	T18	TXT805	—	#8	TD815	TDT815	TXT815	TD825	TDT825	TXT825
415	#19	T19	TXT905	—	#9	TD915	TDT915	TXT915	TD926	TDT926	TXT926
507	—	—	—	—	—	TD1015	TDT1015	TXT1015	TD1024	TDT1024	TXT1024
—	—	—	—	—	—	—	TDT1115	—	TD1125	TDT1125	—
608	—	—	—	—	—	—	TDT1215	TXT1215	TD1225	TDT1225	TXT1225
700	—	—	—	—	—	—	—	—	TD1325	TDT1325	TDT1325
800	—	—	—	—	—	—	—	—	TD1425	TDT1425	TDT1425
1000	—	—	—	—	—	—	—	—	—	TDT1530	TDT1530

Notes:

1. The “#” series and TD DODGE TORQUE-ARM reducers were manufactured with straight bore mountings only. The TDT and current TXT DODGE TORQUE-ARM reducers were/are manufactured with both straight bore and twin tapered bore bushings.
2. With the increased HP ratings of the TXT reducer, it may be possible to downsize to a smaller gearbox when replacing an old-style DODGE TORQUE-ARM reducer. Be sure to review the application.

DIMENSIONS TXT PAGES G1-26-G1-67			
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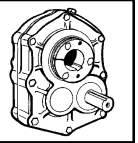


TORQUE-ARM Shaft Mount Speed Reducers

BACKSTOP INTERCHANGE FOR ALL DODGE TORQUE-ARM REDUCERS

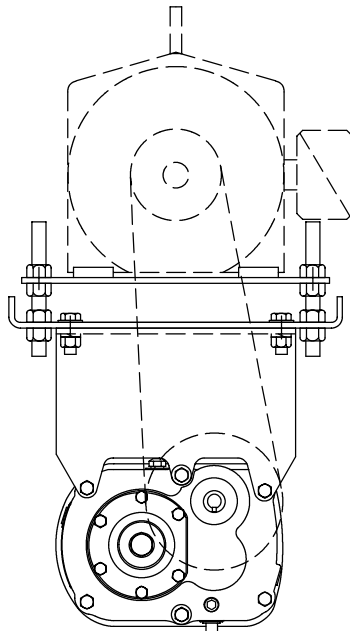
PART NUMBER	NEW TXT SERIES	OLD TXT SERIES	TDT SERIES	TD SERIES	NUMBER SERIES
241101			TDT 115 TDT 125	TD 115 TD 125	No. 1
242101		TXT 105 TXT 109 TXT 115 TXT 125	T11 TDT 215 TDT 225	TD 215 TD 225	No. 2 No. 3 No. 11
243101			TDT 315 TDT 325	TD 315 TD 325	
243102		TXT 309 TXT 315 TXT 325			
243106	TXT 309A TXT 315A TXT 325A				
244092			TDT 415 TDT 425	TD 415 TD 425	
244101					No. 4 No. 5
244106	TXT 409A TXT 415A TXT 425A				
244148	TXT 405A	TXT 405 TXT 409 TXT 415 TXT 425			
245101			TDT 515 TDT 525	TD 515 TD 525	
245154	TXT 509B TXT 515B TXT 525B	TXT 509, TXT 509A TXT 515, TXT 515A TXT 525, TXT 525A			
246092		TXT 605 TXT 609 TXT 615 TXT 625	T16 TDT 615 TDT 625	TD 615, TD 615A TD 625, TD 625A	No. 16A
246101	TXT 505A	TXT 505	T15		No. 6
247092	Use Part Number 247260				
247101					No. 7A
247260		TXT 705 TXT 709 TXT 715 TXT 725	T17 TDT 715 TDT 725	TD 715, TD 715A TD 725, TD 725A	No. 17A
248101	Use Part Number 249260				
249260		TXT 815 TXT 825 TXT 915 TXT 926	TDT 815 TDT 825 TDT 915 TDT 926 TDT 1115 TDT 1125	TD 815, TD 815A TD 825, TD 825A TD 915 TD 926 TD 1115 TD 1125	No. 8 No. 9 No. 18
250101	Use Part Number 250260				
250260		TXT 805 TXT 1015 TXT 1024 TXT 1215 TXT 1225	T18 TDT 1015 TDT 1024 TDT 1215 TDT 1225	TD 1015 TD 1024 TD 1215 TD 1225	
252101	TXT 305A	TXT 205 TXT 209 TXT 215 TXT 225 TXT 305	T12 T13		No. 13
254101			T14		No. 14
255101					No. 15
256101					No. 16
257101					No. 17
272259		TXT 905	TDT 1325, T19		
272293			TDT 1425 TDT 1530		

DIMENSIONS TXT PAGES G1-26-G1-67	MODIFICATIONS/ACCESSORIES PAGES G1-68-G1-80	ENGINEERING/TECHNICAL PAGES G1-187-G1-201	
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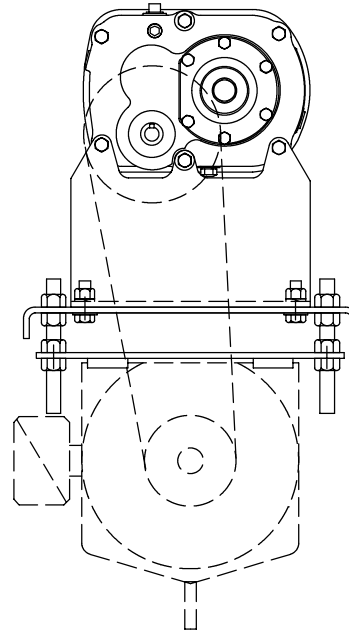


Screw Conveyor Shaft Mount Speed Reducers

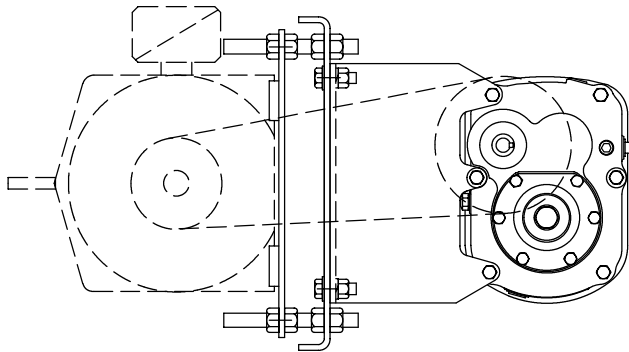
SCREW CONVEYOR DRIVE MOUNTING POSITIONS BASED ON SCREW DIAMETER



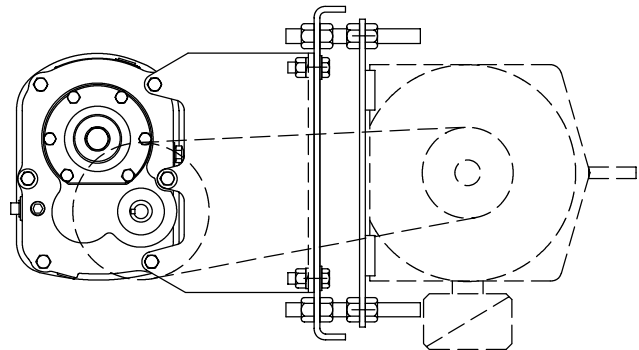
TOP POSITION



BOTTOM POSITION



LEFT SIDE POSITION



RIGHT SIDE POSITION

Table 37 — Screw Conveyor Drive Mounting Positions

Reducer Size	Motor Mount No. ★	For Use on Troughs with Screw Diameters of:	
		Top, Right and Left Side Portions	Bottom Position
SCXT1	M112	6, 9, 12"	6, 9"
SCXT2	M214	6, 9, 12, 14"	6, 9, 12"
SCXT3A	M316	6, 9, 12, 14, 16"	6, 9, 12, 14"
SCXT4A, SCXT5B	M418, M518	9, 12, 14, 16, 18"	9, 12, 14, 16,"
SCXT6, SCXT7	M620, M720	12, 14, 16, 18, 20"	12, 14, 16, 18"

★ Long Series Motor Mount to fit troughs with screws up thru 24" diameter are available from stock. See pages G1-90 thru 117.

SELECTION PAGES G1-81-G1-89	DIMENSIONS PAGES G1-90-G1-117	MODIFICATIONS/ACCESSORIES PAGES G1-120-G1-126	
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