

Table of contents

Dodge® Torque-Arm

| | |
|---------------|---|
| G3-3 | Features and benefits |
| G3-5 | Torque-Arm accessories |
| G3-7 | Application flexibility |
| G3-8 | Screw conveyor drives |
| G3-10 | Hydroil drives |
| G3-11 | Specifications |
| G3-11 | General specifications |
| G3-12 | Nomenclature |
| G3-14 | Selection |
| G3-14 | Easy selection |
| G3-16 | Selection guide: TXT |
| G3-17 | Application classification and class numbers |
| G3-17 | Torque-Arm breather technology |
| G3-18 | Class I selection table TXT reducers |
| G3-20 | Class II selection table TXT reducers |
| G3-22 | Class III selection table TXT reducers |
| G3-24 | Selection and dimensions |
| G3-24 | TXT – TDT |
| G3-66 | Modifications and accessories |
| G3-67 | Motor mounts |
| G3-71 | Belt guards |
| G3-73 | Backstops |
| G3-74 | Auxiliary seal kits |
| G3-75 | Cooling fan assemblies |
| G3-76 | Selection |
| G3-76 | Screw conveyor shaft mount |
| G3-77 | Screw conveyor shaft mount |
| G3-78 | Selection guide: SCXT screw conveyor drive |
| G3-79 | Easy selection |
| G3-79 | Class I selection table SCXT reducers |
| G3-82 | Class II selection table SCXT reducers |
| G3-84 | Class III selection table SCXT reducers |
| G3-86 | Selection and dimensions |
| G3-86 | Screw conveyor drives, reducers and accessories |
| G3-86 | SCXT – Double reduction conveyor drives |
| G3-116 | Modifications and accessories |
| G3-116 | Screw conveyor shaft mount speed reducers |
| G3-116 | SCXT Screw conveyor adapters |
| G3-117 | SCXT Screw conveyor drive optional drive shafts |
| G3-120 | Slotted metal panel belt guards for SCXT reducers |

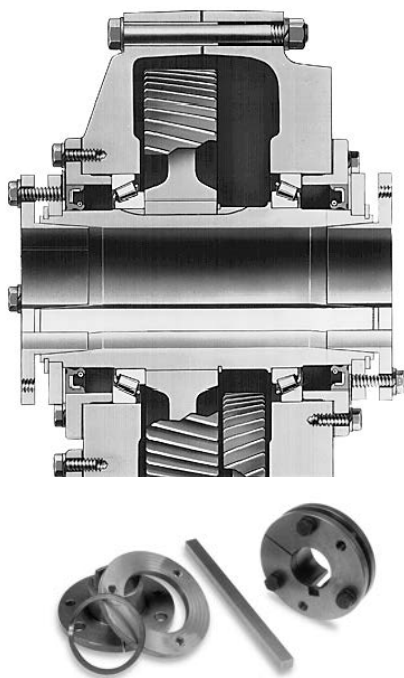
Table of contents

| | |
|---------------|---|
| G3-123 | Selection |
| G3-123 | HXT – Easy selection for hydraulic motors |
| G3-124 | Easy selection – HXT |
| G3-124 | Class I selections – double reduction |
| G3-128 | Class II selections – double reduction |
| G3-132 | Class III selections – double reduction |
| G3-136 | Class I selections – single reduction |
| G3-137 | Class II selections – single reduction |
| G3-138 | Class III selections – single reduction |
| G3-139 | Definition of requirements |
| G3-140 | Selection and dimensions |
| G3-140 | Hydroil Torque-Arm shaft mount speed reducers |
| G3-147 | Hydroil vane motors |
| G3-148 | Related products |
| G3-148 | Char-Lynn compatible 6B spline reducer |
| G3-150 | Harsh duty accessories |
| G3-154 | TXT-ABHS Reducers |
| G3-155 | TXT-ABHS Reducers |
| G3-156 | Bio-disc reducer |
| G3-157 | V-drives for Torque-Arm reducers |
| G3-158 | Nominal sheave ratios |
| G3-160 | Nominal sheave speeds |
| G3-161 | Protection plan and rebuild kits |
| G3-164 | Engineering and technical |
| G3-164 | Lubrication of Torque-Arm reducers |
| G3-167 | Viscosity classification equivalents |
| G3-168 | Flange mounting pads |
| G3-169 | Drilling dimensions and clearance dimensions |
| G3-170 | Optional rod mounting positions |
| G3-171 | Machining dimensions for installation of taconite auxiliary seal kits |
| G3-173 | TXT and SCXT maximum input and driven speeds |
| G3-173 | TXT output shaft overhung load ratings |
| G3-173 | TXT WR ² at high speed shaft |
| G3-174 | Thrust capacity of screw conveyor drive reducers |
| G3-175 | Guidelines for long-term storage |
| G3-176 | Troubleshooting guide |
| G3-177 | TXT series replacement interchange |
| G3-178 | Backstop interchange |
| G3-179 | TXT series replacement interchange |
| G3-180 | Screw conveyor drive mounting positions based on screw diameter |

Torque-Arm shaft mount speed reducers

Features and benefits

Dodge® twin tapered bushings



Dodge® twin tapered bushings have provided customers over forty 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.

Torque-Arm speed reducers provide positive, easy-on, easy-off mounting for all reducer sizes from fractional to 700hp.

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 every point on its circumference.

The Dodge Torque-Arm speed reducers surpass all other reducers on the market because of its industry proven design and patented features. This powerful line of shaft mounted speed reducers – in 14 case sizes through 700 (Hp) – offers unparalleled torque ratings and is quickly becoming the new industry standard.

Improved features and capabilities include:

- Fourteen reducer sizes with shaft mount accessories
- Seven reducer sizes with screw conveyor accessories
- Meets or exceeds AGMA design standards including 5,000 hour L-10 bearing life, 25,000 average life
- Patented harsh duty oil seals with filter breather
- Numerous steel motor mounts available for most configurations, positions, and motor heights
- Standard product offerings of 5, 9, 15, and 25:1 ratios
- Patented twin tapered bushing systems to accommodate shafts from 1 inch through 10 inches
- Reducers available for shaft mounted, screw conveyor, vertical and flange mounted, and hydraulic applications

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.

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.

Lip seals

Metal cased lip seals keep lubricating oil in, lock dirt and contaminants out. 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.

It's easy to see why Dodge Torque-Arm is America's number one shaft mounted speed reducer.

Features and Benefits

Torque-Arm shaft mount speed reducers

Dodge® Torque-Arm

1. 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
- Ground gear tooth profile for even load distribution
- Smooth quiet operation with several teeth in mesh
- Designed in conformance with AGMA

2. Maximum capacity housing design

- Rugged cast iron and ductile iron
- Rigid bearing support and positive gear alignment
- High corrosion resistance
- Excellent vibration dampening and shock resistance features

3. Reliable anti-friction bearings

- Anti-friction bearing manufacturers association bearing ratings
- Combination ball and tapered roller designs
- Straddle mounted gears for optimum support
- High thrust capacity screw conveyor drive bearings

4. Strong shafts for support

- Precision-machined and 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

5. Proven seals keep oil in and contaminants out

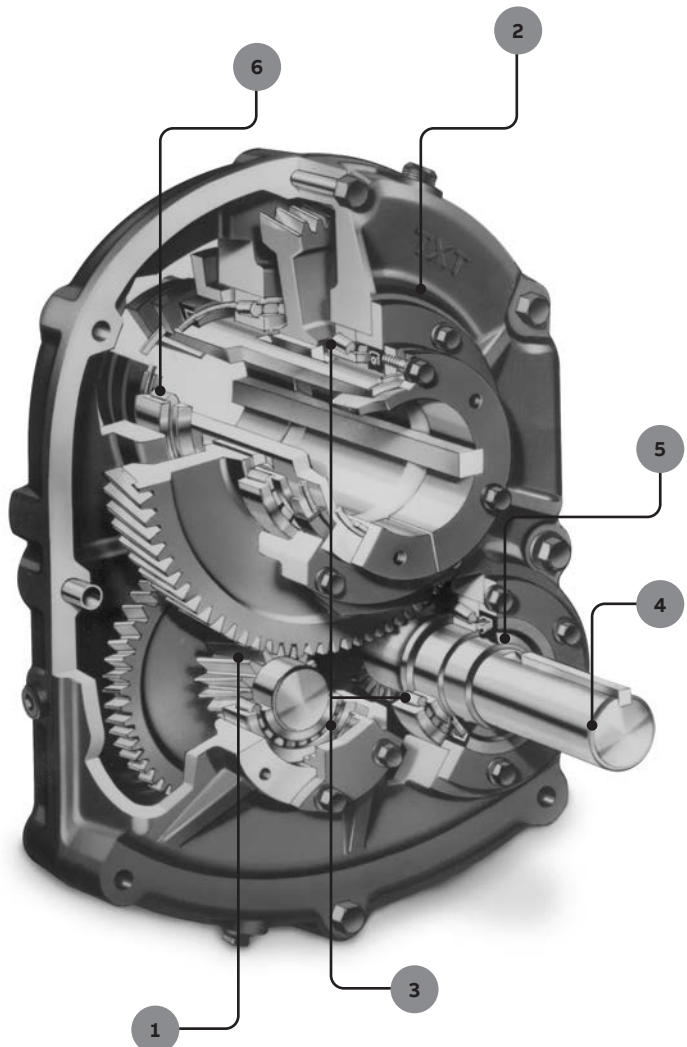
- Lip spring-loaded construction
- Metal reinforcement for strength
- Broad operating range of -20°F to 225°F
- 100% factory-tested before shipment
- Smooth ground shaft surfaces for maximum life
- Seal kits available for all reducer sizes

6. Efficient splash lubrication system

- Generous oil sump for lubricating all gears and bearings
- Standard gear petroleum lubricants are suitable
- Multiple oil plugs for total mounting flexibility
- New breather with baffle and filter
- Magnetic drain plug for protection

Dodge Torque-Arm is America's leading shaft-mount reducer because:

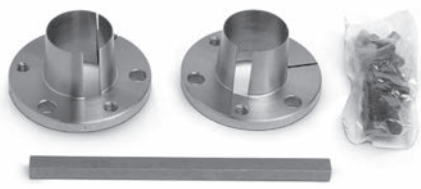




- **Experience** – over 2,000,000 sold
- **Delivery** – nearly 5,000 reducers and 20,000 accessories in stock
- **Quality** – warranties of less than 1/2% of sales
- **Customer preferred** – proven experience since 1949
- **Twin tapered bushings** – reliable installation and removal
- **Performance capability** – applications through 700 Hp
- **Product configurations** – Torque-Arm, screw conveyor, and Hydroil
- **Accessory package** – motor mount, backstop, bushings and auxiliary seals



Features and Benefits

Torque-Arm shaft mount speed reducers
Dodge® Torque-Arm accessories

Torque-Arm accessories

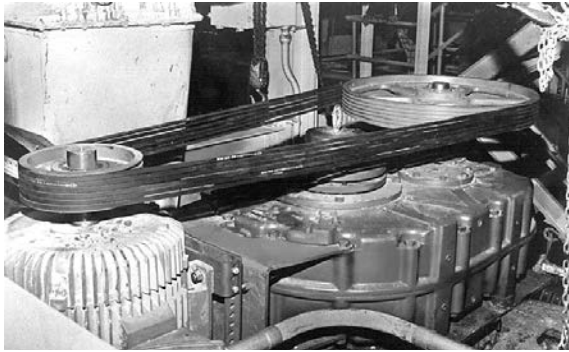
| Accessories | Features | Benefits |
|--|---|---|
| Tapered bushing assemblies  | Securely mounts taper bushed reducer to driven shaft <ul style="list-style-type: none"> • Twin bushings • Full length shaft key • Flanged bushing mount • Removal screws • Fully split bushings • Ductile iron • No setscrews • Clamp fit | <ul style="list-style-type: none"> • Reliably supports both sides of reducer. • Maximum torque and shock load capability. • Fast & simple installation. • Reliable demount of reducer. • Eliminates fretting and 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 <ul style="list-style-type: none"> • Steel or ductile iron • Two bushings • Mount in reducer bore • Original design | <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • All-steel construction • Compactness • Adjustable top plate • Pre-drilled • Economical • Flexible mounting • Interchangeability | <ul style="list-style-type: none"> • Rigid motor support. • Eliminates separate motor bases. • Fast & easy belt tensioning. • Accommodates standard NEMA Motors. • Low cost and eliminates alignment problems. • Pre-drilled for belt guard attachment. • Also fits screw conveyor drives. |
| Auxiliary seal kits  | Provide extra sealing on taper bushed reducers <ul style="list-style-type: none"> • Labyrinth seals • Economical • Simple installation • Lubrication fittings • Air breather | <ul style="list-style-type: none"> • Protection from dust, dirt, & moisture. • Low cost reducer protection. • Can be grease purged for protection. • Filtered air breather included. |
| Backstops  | Prevents reverse of shaft direction <ul style="list-style-type: none"> • Quick installation • Internally mounted • Oil lubricated • Long life • Keyed to reducer • Reversible | <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Slotted metal panel construction • Yellow paint • Mounting hardware • Assembles to reducer and motor mount holes • Flexibility | <ul style="list-style-type: none"> • Light weight, ventilated • Meets safety requirements • Quick easy assembly • No machining needed • One size fits most common sheave diameters • Some sizes have optional long belt guards to accommodate longer v-belt centers |

Features and Benefits

Torque-Arm shaft mount speed reducers
Application flexibility

Vertical shaft application

**Dodge® Torque-Arm
twin tapered bushed vertical speed reducer**

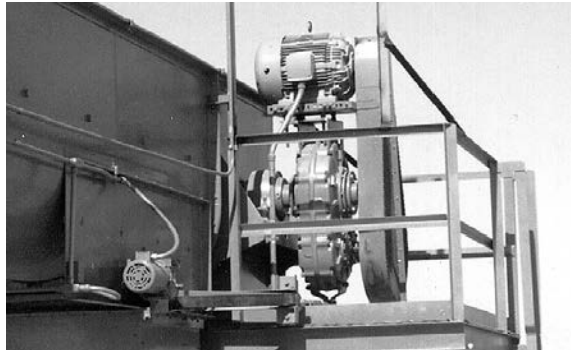


TDT1530T

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 tapered bushed speed reducer**



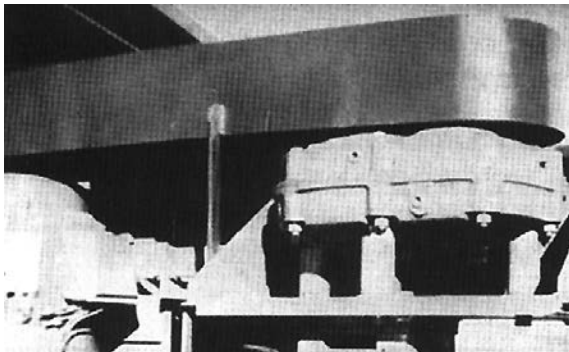
TXT725T X 3-15/16"

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 tapered bushed speed reducer**

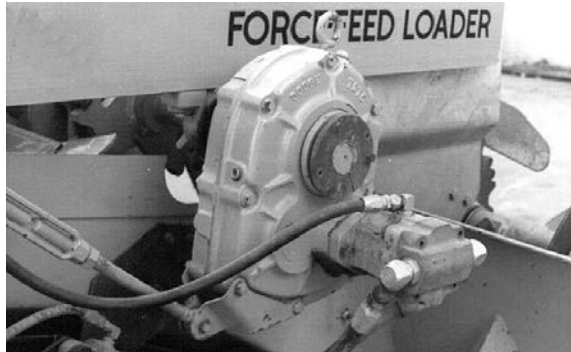


TDT625T

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 tapered bushed speed reducer**

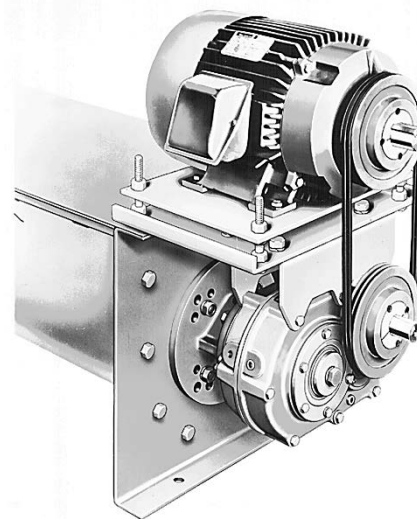
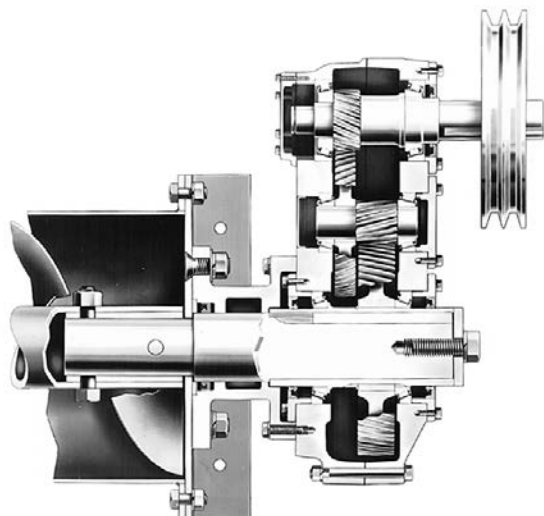


HXT525T with B30 motor

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 and Benefits

Torque-Arm shaft mount speed reducers
Dodge screw conveyor drives



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 adapter kit.

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.

Note: Guards have been removed for photographic purposes


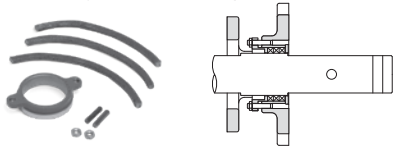
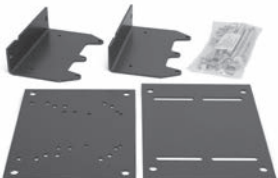
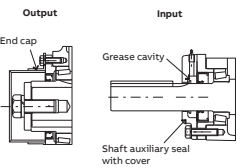


Typical industry applications

| | |
|------------|-------------|
| Food | Agriculture |
| Grain | Soaps |
| Aggregates | Lumber |
| Chemicals | Stone |
| Minerals | Clay |
| Coal | Glass |

Features and Benefits

Torque-Arm shaft mount speed reducers
Dodge screw conveyor drives

Torque-Arm accessories

| Accessories | Features | Benefits |
|---|---|--|
| CEMA adapter  | <p>Securely mounts reducer to CEMA screw conveyor end trough</p> <p>The CEMA bolt-on screw conveyor adapter features double-lip seals on both surfaces. The adapter center is open for contaminate drop out for optimized sealing.</p> | <ul style="list-style-type: none"> • Reliably supports reducer, motor, and v-belt drive • Maximum torque and shock load capability • Fast & simple installation • Heavy duty cast iron construction |
| Optional adjustable packing kit  | <p>Additional sealing for harsh duty applications</p> <p>Adjustable packing kit bolts to the standard adapter and provides a proven sealing option for hostile environments.</p> | <ul style="list-style-type: none"> • Waterproof braided packing rings • Cast iron compression ring • Packing material can be re-tightened for sealing over time |
| Motor mounts  | <p>Provide a compact and economical method of mounting electric motors on Torque-Arm Reducers</p> <p>Rugged, all-steel Dodge motor mounts bolt directly to the screw conveyor drive reducer. They're available in numerous 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.</p> | <ul style="list-style-type: none"> • Rigid motor support • Eliminates separate motor bases • Fast & easy belt tensioning • Accommodates standard NEMA Motors • Low cost and eliminates alignment problems |
| Auxiliary seal kits  | <p>Provide extra sealing on taper bushed reducers</p> <p>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 and output shaft end cap.</p> | <ul style="list-style-type: none"> • Protection from dust, dirt, & moisture • Low cost reducer protection • Can be grease purged for protection • Filtered air breather included |
| Driveshaft  | <p>Driveshaft Transmits final torque to screw</p> <p>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. Wide range of diameters from 1-1/2 to 3-7/16 inches to choose from.</p> | <ul style="list-style-type: none"> • Easy installation and maintenance • Different diameters for each size reducer • Stainless steel available • Three-hole CEMA drive shafts available |
| Torque-Arm belt guards  | <p>Enclose and protect belt drive</p> <p>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.</p> | <ul style="list-style-type: none"> • Light weight, ventilated • Meets safety requirements • Highly visible yellow paint • Quick easy assembly • No machining needed • One size fits most common sheave diameters • Some sizes have optional long belt guards to accommodate longer v-belt centers |

Features and 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.



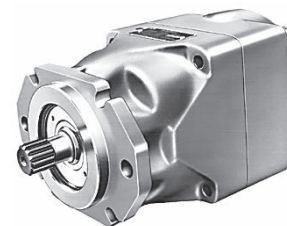
Hydroil vane motor
A10 and A20



Hydroil vane motor
B30



Hydroil vane motor
B40



Hydroil vane motor
B50



Specifications

Torque-Arm shaft mount speed reducers General specifications

Torque-Arm speed reducers

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

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

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

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

All seals shall be of the lip, spring loaded type, made of a premium harsh duty, heat resistant material.

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

Screw conveyor drives

The drive shall be a belt driven enclosed, adapter mounted unit with a single or double reduction ratio. The drive shall consist of a standard speed reducer; a cast iron, bolt on, four bolt mounting adapter with double lip seals on both ends, an optional bolt on adjustable packing kit, and a drive shaft machined from a high quality alloy steel. The drive shall conform to Conveyor Equipment Manufacturers Association (CEMA) standards. Optional all steel motor mount adjusts to various belt center distances and supports the motor.

The reducer housing shall be constructed of two-piece corrosion resistant, class 30 gray iron. All housings shall be doweled and precision machined to assure accurate alignment of all gear sets.

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

Reducer output bearings shall be of the tapered roller type, to absorb thrust loads from the screw conveyor. All bearings shall provide 25,000 hour minimum average life, 5,000 L-10 AGMA Class I standard.

All seals shall be of the lip, spring loaded type, made of a premium harsh duty, heat resistant material.

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, class 30 gray iron. All housings shall be doweled and precision machined to assure accurate alignment for all gear sets.

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

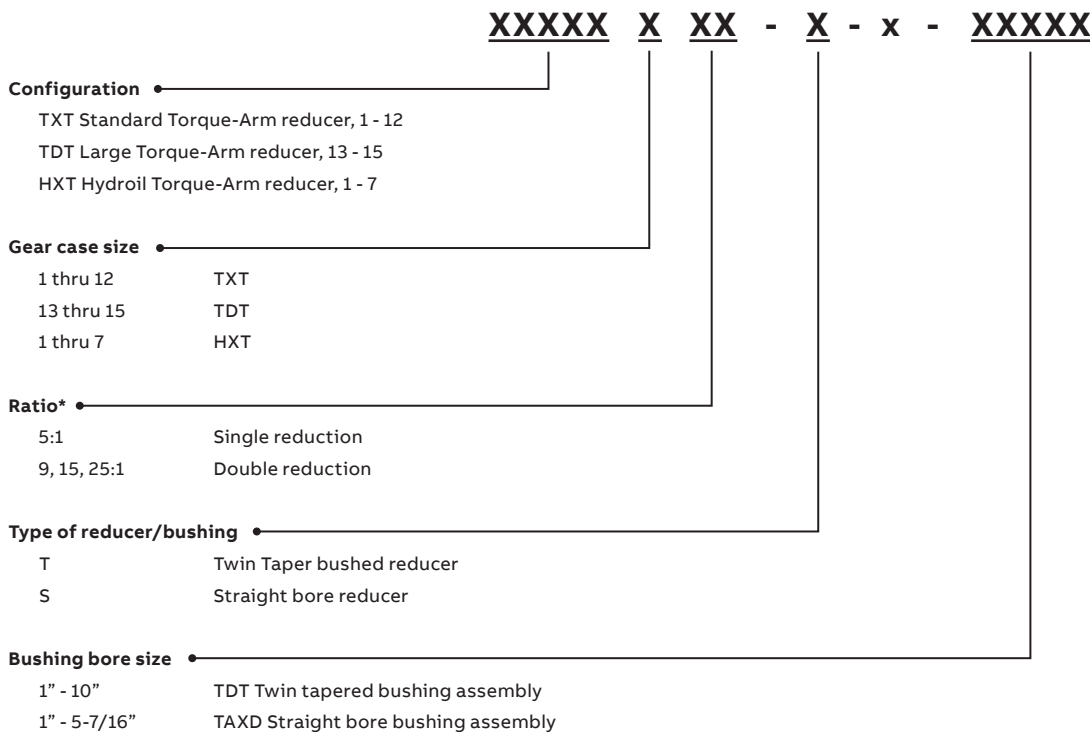
Reducer bearings shall be of the ball or tapered roller type and provide a 25,000 hour minimum average life, 5,000 L-10 AGMA Class I standard.

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

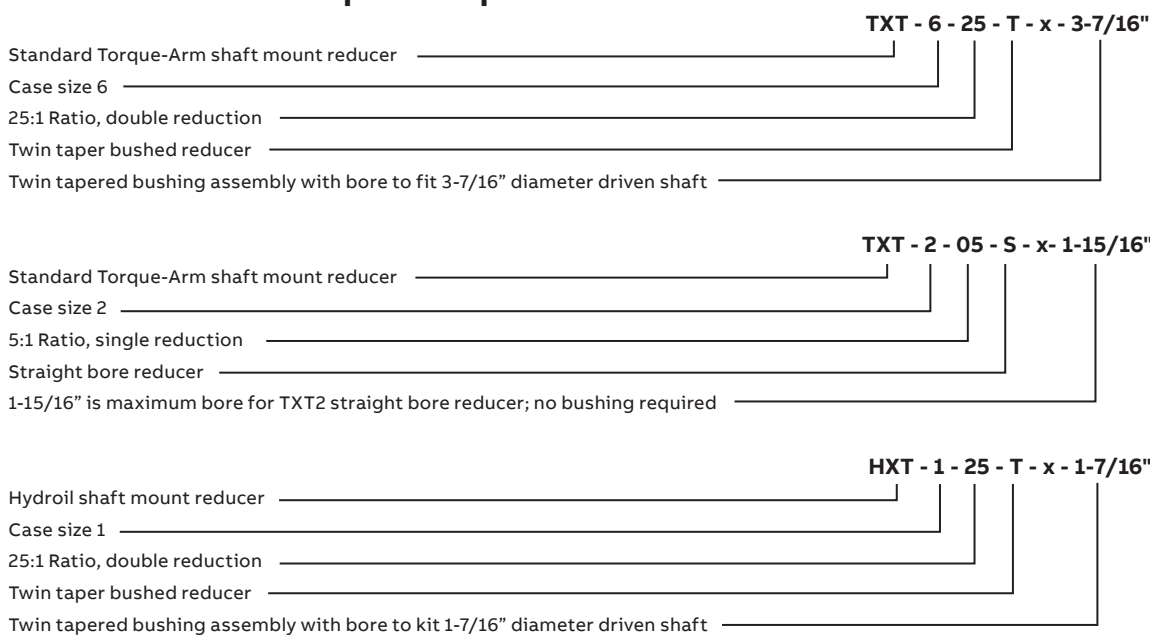
Reducer installation shall be accomplished by using ductile iron, fully split, two bushing system. Reducer removal shall be accomplished by providing jack screw holes in the bushing flanges to mechanically remove the tapered assembly.

Nomenclature

Torque-Arm shaft mount speed reducers
 Nomenclature: Torque-Arm reducers



Nomenclature example: Torque-Arm reducers

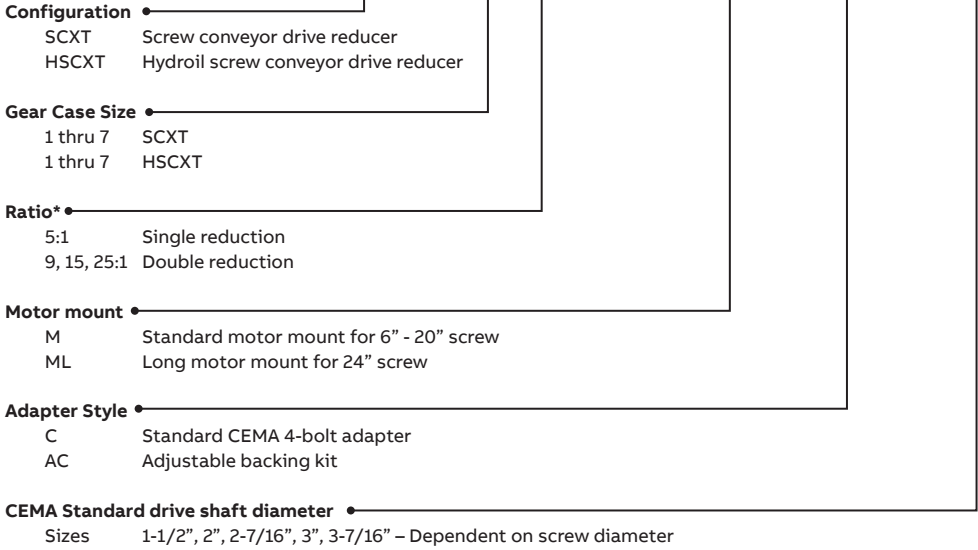


* Note: "A", "B" or "C" in nomenclature after ratio denotes latest reducer design

Nomenclature

Torque-Arm shaft mount speed reducers
 Nomenclature: Screw conveyor drive reducers

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

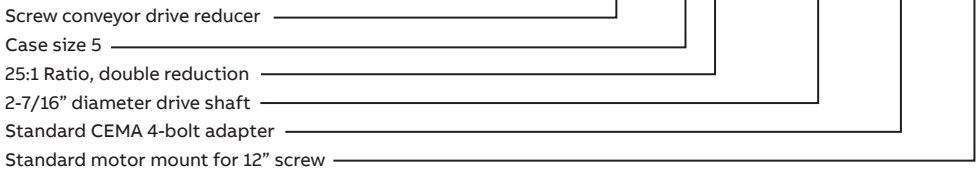


Nomenclature example: Screw conveyor drive reducers

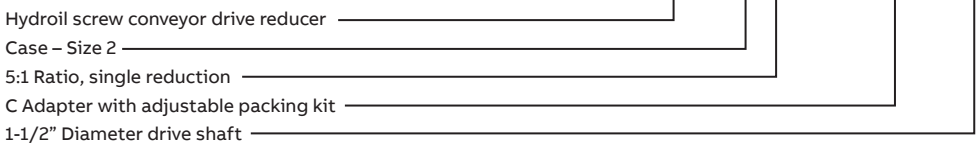
SCXT - 7 25 - x - 3-7/16" - C - M724L



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



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



* Note: "A", "B" or "C" in nomenclature after ratio denotes latest reducer design

Selection

Torque-Arm shaft mount speed reducers

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) 284-5700.

How to select

- **Step 1: Determine class of service** – See “Application Classification” table, page G1-6, 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 G3-18 thru G3-29. Class I, II or III selection tables, 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 on page G3-173 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 and Dimensions” section, pages G3-24 thru G3-65 for reducer dimensions, weights and part numbers. See “Engineering and Technical” section, page G3-166 for reducer mounting positions. For optional Torque-Arm rod mounting positions, see page G3-170.
- **Step 5: Select a belt drive arrangement** – From the Sheave Ratio table, pages G3-158 through G3-160, 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 the NEMA motor information table on page G3-57. 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 and Accessories” section, pages G3-73 thru G3-81, 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
 - Auxiliary end covers

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.

Selection

Torque-Arm shaft mount speed reducers

Examples: 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 “Application Classification” table, page G1-6, 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 Class II Application table, page G3-20, 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 G3-37, 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 and Dimensions” section, for reducer dimensions, weights, part numbers and other pertinent drive dimensions. See “Engineering and Technical” section, for information on mounting positions.

Step 5: Select a belt drive arrangement – From the sheave ratio table on page G3-164, 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 the sheave diameters table on page G3-163.

Step 6: Select accessories – See “Modifications and 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

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 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 reducers, accessories and belt drive.

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 (i.e.,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 ration 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 _____

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

Torque-Arm shaft mount speed reducers

Application classification and class, and Torque-Arm family breather technology

For Application class and service, please see G1-6 – G1-12.

Torque-Arm family breather technology

1. Standard breather is a filter breather

- Cotton filter media
- Screen to support filter
- Chamber to allow oil to collect and return to reducer
- Non captured filter (should not clog and block air exit)



2. Hydra-Lock desiccant breather

- Built in standpipe
- 3 micron filter media top and bottom
- Desiccant material changes color from blue (good) to pink (replace)
- Check valve system, so breather is only open to atmosphere under pressure or vacuum. Closed when not running.



3. Fully enclosed canister breather

- Allows no outside air
- Excellent protections for extreme wet environments



Selection

Torque-Arm shaft mount speed reducers

Class I selection (1.0 service factor) table TXT reducers ★

| Hp | Output RPM | Reducer selection | |
|-------|------------|-------------------|-----------------|
| | | Single | Double |
| 1/4 | 4-70 | - | TXT125A TXT115A |
| | 71-85 | - | TXT115A TXT125A |
| | 86-115 | - | TXT115A TXT109A |
| | 116-140 | TXT105 | TXT109A TXT115A |
| | 141-200 | TXT105 | TXT109A |
| | 201-400 | TXT105 | - |
| 1/3 | 5-70 | - | TXT125A TXT115A |
| | 71-85 | - | TXT115A TXT125A |
| | 86-115 | - | TXT115A TXT109A |
| | 116-140 | TXT105 | TXT109A TXT115A |
| | 141-200 | TXT105 | TXT109A |
| | 201-400 | TXT105 | - |
| 1/2 | 4-6 | - | TXT225A |
| | 7-70 | - | TXT125A TXT115A |
| | 71-85 | - | TXT115A TXT125A |
| | 86-115 | - | TXT115A TXT109A |
| | 116-140 | TXT105 | TXT109A TXT115A |
| | 141-200 | TXT105 | TXT109A |
| 3/4 | 201-400 | TXT105 | - |
| | 4-5 | - | TXT325B |
| | 6-10 | - | TXT225A |
| | 11-70 | - | TXT125A TXT115A |
| | 71-85 | - | TXT115A TXT125A |
| | 86-115 | - | TXT115A TXT109A |
| 1 | 116-140 | TXT105 | TXT109A TXT115A |
| | 141-200 | TXT105 | TXT109A |
| | 201-400 | TXT105 | - |
| | 4-5 | - | TXT425B |
| | 6-7 | - | TXT325B |
| | 8-15 | - | TXT225A |
| 1-1/2 | 16-70 | - | TXT125A TXT115A |
| | 71-85 | - | TXT115A TXT125A |
| | 86-115 | - | TXT115A TXT109A |
| | 116-140 | TXT105 | TXT109A TXT115A |
| | 141-200 | TXT105 | TXT109A |
| | 201-400 | TXT105 | - |
| 2 | 4 | - | TXT525C |
| | 5-7 | - | TXT425B |
| | 8-12 | - | TXT325B |
| | 13-23 | - | TXT225A |
| | 24-70 | - | TXT125A TXT115A |
| | 71-85 | - | TXT115A TXT125A |
| 3 | 86-115 | - | TXT115A TXT109A |
| | 116-140 | TXT105 | TXT109A TXT115A |
| | 141-200 | TXT105 | TXT109A |
| | 201-400 | TXT105 | - |
| | 4-6 | - | TXT525C |
| | 7-10 | - | TXT425B |
| 4 | 11-17 | - | TXT325B |
| | 18-32 | - | TXT225A TXT215A |
| | 33-70 | - | TXT125A TXT115A |
| | 71-85 | - | TXT115A TXT125A |
| | 86-115 | - | TXT115A TXT109A |
| | 116-140 | TXT105 | TXT109A TXT115A |

| Hp | Output RPM | Reducer selection | | |
|-------|---------------|-------------------|-----------------|---------|
| | | Single | Double | |
| 2 | 141-200 | TXT105 | TXT109A | |
| | cont. 201-400 | TXT105 | - | |
| | 3 | 4-5 | - | TXT625A |
| | | 6-10 | - | TXT525C |
| | | 11-15 | - | TXT425B |
| | | 16-26 | - | TXT325B |
| 27-51 | | - | TXT225A TXT215A | |
| 52-70 | | - | TXT125A TXT115A | |
| 5 | 71-85 | - | TXT115A TXT125A | |
| | 86-115 | - | TXT115A TXT109A | |
| | 116-140 | TXT105 | TXT109A TXT115A | |
| | 141-200 | TXT105 | TXT109A | |
| | 201-400 | TXT105 | - | |
| | 7-1/2 | 5-6 | - | TXT725A |
| 7-9 | | - | TXT625A | |
| 10-17 | | - | TXT525C | |
| 18-26 | | - | TXT425B TXT415B | |
| 27-46 | | - | TXT325B TXT315B | |
| 47-70 | | - | TXT225A TXT215A | |
| 10 | 71-85 | - | TXT215A TXT225A | |
| | 86-92 | - | TXT109A TXT215A | |
| | 93-115 | - | TXT115A TXT109A | |
| | 116-119 | - | TXT109A TXT115A | |
| | 120-140 | TXT105 | TXT109A TXT115A | |
| | 141-200 | TXT105 | TXT109A | |
| 15 | 201-400 | TXT105 | - | |
| | 4-6 | - | TXT825A | |
| | 7-9 | - | TXT725A | |
| | 10-15 | - | TXT625A | |
| | 16-26 | - | TXT525C | |
| | 27-40 | - | TXT425B TXT415B | |
| 20 | 41-70 | - | TXT325B TXT315B | |
| | 71-74 | - | TXT315B TXT325B | |
| | 75-85 | - | TXT215A TXT225A | |
| | 86-95 | - | TXT215A TXT209A | |
| | 96-140 | TXT205 | TXT209A TXT215A | |
| | 141-200 | TXT205 | TXT209A | |
| 25 | 201-231 | TXT205 | - | |
| | 232-400 | TXT105 | - | |
| | 5 | - | TXT926A | |
| | 6-8 | - | TXT825A | |
| | 9-12 | - | TXT725A | |
| | 13-20 | - | TXT625A | |
| 30 | 21-36 | - | TXT525C TXT515C | |
| | 37-56 | - | TXT425B TXT415B | |
| | 57-70 | - | TXT325B TXT315B | |
| | 71-85 | - | TXT315B TXT325B | |
| | 86-103 | - | TXT315B TXT309B | |
| | 104-115 | - | TXT215A TXT209A | |
| 40 | 116-140 | TXT305A | TXT215A | |
| | 141-158 | TXT305A | TXT309B | |
| | 159-200 | TXT305A | TXT309B | |
| | 201-400 | TXT205 | - | |

| Hp | Output RPM | Reducer selection | |
|-----|------------|-------------------|---------------------|
| | | Single | Double |
| 15 | 5-6 | - | TXT1024A |
| | 7-8 | - | TXT926A |
| | 9-13 | - | TXT825A |
| | 14-19 | - | TXT725A |
| | 20-32 | - | TXT625A TXT615A |
| | 33-56 | - | TXT525C TXT515C |
| 20 | 57-70 | - | TXT425B TXT415B |
| | 71-85 | - | TXT415B TXT425B |
| | 86-93 | - | TXT415B TXT409B |
| | 94-115 | - | TXT309B + TXT315B |
| | 116-140 | TXT405A | TXT315B TXT309B + |
| | 141-145 | TXT405A | TXT309B + |
| 25 | 146-200 | TXT305A | TXT309B + |
| | 201-400 | TXT305A | - |
| | 4-6 | - | TXT1225 |
| | 7-8 | - | TXT1024A |
| | 9-12 | - | TXT926A |
| | 13-18 | - | TXT825A |
| 30 | 19-26 | - | TXT725A TXT715A |
| | 27-45 | - | TXT625A TXT615A |
| | 46-70 | - | TXT525C TXT515C |
| | 71-78 | - | TXT515C TXT525C |
| | 79-85 | - | TXT415B TXT425B |
| | 86-115 | - | TXT415B TXT409B + |
| 40 | 116-140 | TXT405A | TXT409B + TXT415B + |
| | 141-200 | TXT405A | TXT309B + |
| | 201-241 | TXT405A | - |
| | 242-400 | TXT305A + | - |
| | 5-7 | - | TXT1225 |
| | 8-10 | - | TXT1024A |
| 50 | 11-15 | - | TXT926A |
| | 16-23 | - | TXT825A |
| | 24-33 | - | TXT725A TXT715A |
| | 34-59 | - | TXT625A TXT615A |
| | 60-70 | - | TXT525C + TXT515C + |
| | 71-80 | - | TXT515C + TXT525C + |
| 60 | 81-101 | - | TXT515C + TXT509C + |
| | 102-132 | TXT505A | TXT415B + TXT409B + |
| | 133-140 | TXT505A | TXT409B + TXT415B + |
| | 141-163 | TXT505A | TXT409B + |
| | 164-200 | TXT405A + | TXT409B + |
| | 201-400 | TXT405A + | - |
| 80 | 4-5 | - | TDT1425 |
| | 6-9 | - | TXT1225 |
| | 10-13 | - | TXT1024A |
| | 14-19 | - | TXT926A |
| | 20-28 | - | TXT825A TXT815A |
| | 29-41 | - | TXT725A TXT715A |
| 100 | 42-70 | - | TXT625A TXT615A |
| | 71-75 | - | TXT615A TXT625A |
| | 76-115 | - | TXT515C + TXT509C + |
| | 116-125 | TXT605 | TXT509C + TXT515C + |
| | 126-131 | TXT605 | TXT409B + |

★ See page G3-165 for lubrication for 15 RPM and slower

+ Fan cooling required – see page G3-75

* Heat exchanger required – see page G3-75.

Selection

Torque-Arm shaft mount speed reducers

Class I selection (1.0 service factor) table TXT reducers ★

| Hp | Output RPM | Reducer selection | |
|---------|------------|-------------------|---------------------|
| | | Single | Double |
| 40 | 132-200 | TXT505A | TXT409B + |
| | 201-215 | TXT505A + | - |
| | 216-400 | TXT405A + | - |
| | 5-6 | - | TDT1425 |
| | 7 | - | TDT1325 |
| | 8-12 | - | TXT1225 |
| | 13-18 | - | TXT1024A |
| | 19-25 | - | TXT926A TXT915A |
| | 26-38 | - | TXT825A TXT815A |
| | 39-57 | - | TXT725A TXT715A |
| | 58-70 | - | TXT625A TXT615A |
| | 71-81 | - | TXT615A + TXT625A + |
| | 82-114 | TXT605 | TXT615A + TXT609A + |
| | 115-125 | TXT605 | TXT515C + TXT509C + |
| | 126-200 | TXT605 | TXT509C + |
| | 201-241 | TXT605 | - |
| | 242-400 | TXT505A + | - |
| | 50 | 3-5 | - |
| 6-8 | | - | TDT1425 |
| 9 | | - | TDT1325 |
| 10-15 | | - | TXT1225 |
| 16-22 | | - | TXT1024A |
| 23-32 | | - | TXT926A TXT915A |
| 33-49 | | - | TXT825A TXT815A |
| 50-70 | | - | TXT725A TXT715A |
| 71-74 | | - | TXT715A TXT725A |
| 75-125 | | - | TXT615A + TXT709A + |
| 126-163 | | TXT605 + | TXT709A + |
| 164-200 | | TXT605 + | TXT609A + |
| 60 | 201-400 | TXT605 + | - |
| | 4-6 | - | TDT1530 |
| | 7-11 | - | TDT1425 |
| | 12 | - | TDT1325 |
| | 13-18 | - | TXT1225 |
| | 19-27 | - | TXT1024A TXT1015A |
| | 28-39 | - | TXT926A TXT915A |
| | 40-60 | - | TXT825A TXT815A |
| | 61-70 | - | TXT725A + TXT715A + |
| | 71-120 | - | TXT715A + TXT709A + |
| | 121-131 | TXT705 | TXT709A + |
| | 132-200 | TXT605 + | TXT709A + |
| 201-400 | TXT605 + | - | |
| 75 | 5-8 | - | TDT1530 |
| | 9-13 | - | TDT1425 |
| | 14-15 | - | TDT1325 |
| | 16-23 | - | TXT1225 |
| | 24-34 | - | TXT1024A TXT1015A |
| | 35-50 | - | TXT926A TXT915A |
| cont. | 51-70 | - | TXT825A TXT815A |
| | 71-78 | - | TXT815A + |
| | 79-120 | - | TXT715A + TXT709A + |
| | 121-200 | TXT705 | TXT709A + |
| | 201-210 | TXT705 | - |

| Hp | Output RPM | Reducer selection | | |
|---------|------------|-------------------|-----------------------|---------|
| | | Single | Double | |
| 100 | 211-400 | TXT605 + | - | |
| | 6-11 | - | TDT1530 | |
| | 12-17 | - | TDT1425 | |
| | 18-22 | - | TDT1325 | |
| | 23-31 | - | TXT1225 TXT1215 | |
| | 32-46 | - | TXT1024A TXT1015A | |
| | 47-69 | - | TXT926A + TXT915A + | |
| | 70-120 | - | TXT815A + | |
| | 121-123 | TXT805 + | TXT709A + | |
| | 124-200 | TXT705 + | TXT709A + | |
| | 201-400 | TXT705 + | - | |
| | 125 | 8-14 | - | TDT1530 |
| 15-22 | | - | TDT1425 | |
| 23-29 | | - | TDT1325 | |
| 30-40 | | - | TXT1225 TXT1215 | |
| 41-59 | | - | TXT1024A TXT1015A | |
| 60-70 | | - | TXT915A + TXT926A + | |
| 71-90 | | - | TXT915A + | |
| 91-123 | | - | TXT815A + | |
| 124-172 | | TXT805 + | - | |
| 173-400 | | TXT705 + | - | |
| 150 | | 9-17 | - | TDT1530 |
| | | 18-27 | - | TDT1425 |
| | 28-36 | - | TDT1325 | |
| | 37-49 | - | TXT1225 TXT1215 | |
| | 50-70 | - | TXT1024A TXT1015A | |
| | 71-75 | - | TXT1015A + TXT1024A + | |
| | 76-80 | - | TXT1015A + | |
| | 81-120 | - | TXT915A + | |
| | 121-165 | TXT905 | - | |
| | 166-400 | TXT805 + | - | |
| | 200 | 12-23 | - | TDT1530 |
| | | 24-36 | - | TDT1425 |
| 37-51 | | - | TDT1325 + | |
| 52-68 | | - | TXT1225* TXT1215* | |
| 69-120 | | - | TXT1015A + | |
| 212-400 | | TXT905 + | - | |
| 16-30 | | - | TDT1530 | |
| 31-46 | | - | TDT1425 + | |
| 47-67 | | - | TDT1325 + | |
| 68-75 | | - | TXT1225* TXT1215* | |
| 76-120 | | - | TXT1215* | |
| 250 | | 19-36 | - | TDT1530 |
| | 37-58 | - | TDT1425* | |
| | 59-70 | - | TDT1325 + | |
| | 71-75 | - | TDT1325* | |
| | 83-120 | - | TXT1215* | |
| | 23-43 | - | TDT1530 + | |
| 350 | 44-69 | - | TDT1425* | |
| | 70-75 | - | TDT1325* | |
| | 27-50 | - | TDT1530 + | |
| 400 | 51-75 | - | TDT1425* | |

| Hp | Output RPM | Reducer selection | |
|-----|------------|-------------------|-----------|
| | | Single | Double |
| 450 | 30-31 | - | TDT1530* |
| | 32-57 | - | TDT1530 + |
| | 59-75 | - | TDT1425* |
| 500 | 34-57 | - | TDT1530* |
| | 66-75 | - | TDT1425* |
| 600 | 41-57 | - | TDT1530* |
| 700 | 50-57 | - | TDT1530* |

★ See page G3-165 for lubrication for 15 RPM and slower

+ Fan cooling required – see page G3-75

* Heat exchanger required – see page G3-75.

Selection

Torque-Arm shaft mount speed reducers

Class II selection (1.4 service factor) table TXT reducers ★

| Hp | Output RPM | Reducer selection | |
|---------|------------|-------------------|-----------------|
| | | Single | Double |
| 1/4 | 5-70 | - | TXT125A TXT115A |
| | 71-85 | - | TXT115A TXT125A |
| | 86-115 | - | TXT115A TXT109A |
| | 116-140 | TXT105 | TXT109A TXT115A |
| | 141-200 | TXT105 | TXT109A |
| | 201-400 | TXT105 | - |
| 1/3 | 4-6 | - | TXT225A |
| | 7-70 | - | TXT125A TXT115A |
| | 71-85 | - | TXT115A TXT125A |
| | 86-115 | - | TXT115A TXT109A |
| | 116-140 | TXT105 | TXT109A TXT115A |
| | 141-200 | TXT105 | TXT109A |
| 201-400 | TXT105 | - | |
| 1/2 | 4-5 | - | TXT325B |
| | 6-9 | - | TXT225A |
| | 10-70 | - | TXT125A TXT115A |
| | 71-85 | - | TXT115A TXT125A |
| | 86-115 | - | TXT115A TXT109A |
| | 116-140 | TXT105 | TXT109A TXT115A |
| 141-200 | TXT105 | TXT109A | |
| 201-400 | TXT105 | - | |
| 3/4 | 4-5 | - | TXT425B |
| | 6-8 | - | TXT325B |
| | 9-16 | - | TXT225A |
| | 17-70 | - | TXT125A TXT115A |
| | 71-85 | - | TXT115A TXT125A |
| | 86-115 | - | TXT115A TXT109A |
| 116-140 | TXT105 | TXT109A TXT115A | |
| 141-200 | TXT105 | TXT109A | |
| 201-400 | TXT105 | - | |
| 1 | 5-7 | - | TXT425B |
| | 8-11 | - | TXT325B |
| | 12-22 | - | TXT225A |
| | 23-70 | - | TXT125A TXT115A |
| | 71-85 | - | TXT115A TXT125A |
| | 86-115 | - | TXT115A TXT109A |
| 116-140 | TXT105 | TXT109A TXT115A | |
| 141-200 | TXT105 | TXT109A | |
| 201-400 | TXT105 | - | |
| 1-1/2 | 5-6 | - | TXT525C |
| | 7-11 | - | TXT425B |
| | 12-18 | - | TXT325B |
| | 19-34 | - | TXT225A TXT215A |
| | 35-70 | - | TXT125A TXT115A |
| | 71-85 | - | TXT115A TXT125A |
| 86-115 | - | TXT115A TXT109A | |
| 116-140 | TXT105 | TXT109A TXT115A | |
| 141-200 | TXT105 | TXT109A | |
| 201-400 | TXT105 | - | |
| 2 | 4-5 | - | TXT625A |
| | 6-9 | - | TXT525C |

| Hp | Output RPM | Reducer selection | |
|---------|------------|-------------------|-----------------|
| | | Single | Double |
| 2 cont. | 10-14 | - | TXT425B |
| | 15-24 | - | TXT325B TXT315B |
| | 25-47 | - | TXT225A TXT215A |
| | 48-70 | - | TXT125A TXT115A |
| | 71-85 | - | TXT115A TXT125A |
| | 86-115 | - | TXT115A TXT109A |
| 3 | 116-140 | TXT105 | TXT109A TXT115A |
| | 141-200 | TXT105 | TXT109A |
| | 201-400 | TXT105 | - |
| | 4-5 | - | TXT725A |
| | 6-8 | - | TXT625A |
| | 9-14 | - | TXT525C |
| 5 | 15-22 | - | TXT425B TXT415B |
| | 23-38 | - | TXT325B TXT315B |
| | 39-70 | - | TXT225A TXT215A |
| | 71-75 | - | TXT215A TXT225A |
| | 76-85 | - | TXT115A TXT125A |
| | 86-115 | - | TXT115A TXT109A |
| 7-1/2 | 116-140 | TXT105 | TXT109A TXT115A |
| | 141-200 | TXT105 | TXT109A |
| | 201-400 | TXT105 | - |
| | 4-6 | - | TXT825A |
| | 7-8 | - | TXT725A |
| | 9-14 | - | TXT625A |
| 10 | 15-24 | - | TXT525C |
| | 25-37 | - | TXT425B TXT415B |
| | 38-69 | - | TXT325B TXT315B |
| | 70-85 | - | TXT215A TXT225A |
| | 86-89 | - | TXT215A TXT209A |
| | 90-136 | TXT205 | TXT209A TXT215A |
| 10 | 137-140 | TXT205 | TXT115A TXT209A |
| | 141-191 | TXT205 | TXT109A |
| | 192-200 | TXT105 | TXT109A |
| | 201-400 | TXT105 | - |
| | 5 | - | TXT926A |
| | 6-9 | - | TXT825A |
| 10 | 10-13 | - | TXT725A |
| | 14-21 | - | TXT625A |
| | 22-38 | - | TXT525C TXT515C |
| | 39-59 | - | TXT425B TXT415B |
| | 60-70 | - | TXT325B TXT315B |
| | 71-85 | - | TXT315B TXT325B |
| 10 | 86-110 | - | TXT315B TXT309B |
| | 111-122 | - | TXT215A |
| | 123-140 | TXT305A | TXT209A TXT215A |
| | 141-183 | TXT305A | TXT209A |
| | 184-200 | TXT205 | TXT209A |
| | 201-400 | TXT205 | - |
| 10 | 4 | - | TXT1225 |
| | 5 | - | TXT1024A |
| | 6-7 | - | TXT926A |

| Hp | Output RPM | Reducer selection | |
|----------|------------|-------------------|---------------------|
| | | Single | Double |
| 10 cont. | 8-12 | - | TXT825A |
| | 13-18 | - | TXT725A |
| | 19-29 | - | TXT625A TXT615A |
| | 30-52 | - | TXT525C TXT515C |
| | 53-70 | - | TXT425B TXT415B |
| | 71-84 | - | TXT415B TXT425B |
| 15 | 85-130 | - | TXT315B TXT309B |
| | 131-140 | TXT305A | TXT315B TXT309B |
| | 141-200 | TXT305A | TXT309B |
| | 201-353 | TXT305A | - |
| | 354-400 | TXT205 | - |
| | 4-6 | - | TXT1225 |
| 15 | 7-9 | - | TXT1024A |
| | 10-12 | - | TXT926A |
| | 13-19 | - | TXT825A |
| | 20-27 | - | TXT725A |
| | 28-47 | - | TXT625A TXT615A |
| | 48-70 | - | TXT525C TXT515C |
| 15 | 71-82 | - | TXT515C TXT525C |
| | 83-117 | - | TXT415B TXT409B |
| | 118-140 | TXT405A | TXT409B TXT415B |
| | 141-150 | TXT405A | TXT409B |
| | 151-200 | TXT405A | TXT309B + |
| | 201-269 | TXT405A | - |
| 20 | 270-400 | TXT305A | - |
| | 5 | - | TDI1325 |
| | 6-8 | - | TXT1225 |
| | 9-12 | - | TXT1024A |
| | 13-17 | - | TXT926A |
| | 18-26 | - | TXT825A |
| 20 | 27-38 | - | TXT725A TXT715A |
| | 39-68 | - | TXT625A TXT615A |
| | 69-80 | - | TXT515C TXT525C |
| | 81-89 | - | TXT515C |
| | 90-117 | - | TXT515C + TXT509C + |
| | 118-125 | TXT505A | TXT409B + TXT415B + |
| 25 | 126-200 | TXT505A | TXT409B + |
| | 201-400 | TXT405A + | - |
| | 4-6 | - | TDI1425 |
| | 7-10 | - | TXT1225 |
| | 11-15 | - | TXT1024A |
| | 16-22 | - | TXT926A |
| 25 | 23-33 | - | TXT825A TXT815A |
| | 34-49 | - | TXT725A TXT715A |
| | 50-80 | - | TXT615A TXT625A |
| | 81-94 | - | TXT615A TXT609A |
| | 95-125 | TXT605 | TXT509C + TXT515C + |
| | 126-174 | TXT605 | TXT509C + |
| 25 | 175-200 | TXT505A | TXT409B + |
| | 201-270 | TXT505A | - |
| | 271-400 | TXT405A + | - |

★ See page G3-165 for lubrication for 15 RPM and slower

+ Fan cooling required – see page G3-75

* Heat exchanger required – see page G3-75.

Selection

Torque-Arm shaft mount speed reducers

Class II selection (1.4 service factor) table TXT reducers ★

| Hp | Output RPM | Reducer selection | | |
|---------|------------|-------------------|-----------|-----------|
| | | Single | Double | |
| 30 | 5-7 | - | TDT1425 | |
| | 8 | - | TDT1325 | |
| | 9-12 | - | TXT1225 | |
| | 13-19 | - | TXT1024A | |
| | 20-27 | - | TXT926A | TXT915A |
| | 28-41 | - | TXT825A | TXT815A |
| | 42-60 | - | TXT725A | TXT715A |
| | 61-76 | - | TXT625A | TXT615A |
| | 77-89 | - | TXT615A | TXT609A |
| | 90-125 | TXT605 | TXT615A + | TXT609A + |
| 126-200 | TXT605 | TXT509C + | | |
| 201-233 | TXT605 | - | - | |
| 234-349 | TXT505A + | - | - | |
| 350-400 | TXT405A + | - | - | |
| 40 | 4-6 | - | TDT1530 | |
| | 7-9 | - | TDT1425 | |
| | 10-11 | - | TDT1325 | |
| | 12-17 | - | TXT1225 | |
| | 18-25 | - | TXT1024A | |
| | 26-36 | - | TXT926A | TXT915A |
| | 37-56 | - | TXT825A | TXT815A |
| | 57-75 | - | TXT725A | TXT715A |
| | 76-88 | - | TXT715A | |
| | 89-114 | - | TXT615A + | TXT609A + |
| 115-120 | - | TXT615A + | TXT609A + | |
| 121-200 | TXT605 | TXT609A + | | |
| 201-347 | TXT605 + | - | - | |
| 348-400 | TXT505A + | - | - | |
| 50 | 5-8 | - | TDT1530 | |
| | 9-12 | - | TDT1425 | |
| | 13-14 | - | TDT1325 | |
| | 15-21 | - | TXT1225 | |
| | 22-32 | - | TXT1024A | TXT1015A |
| | 33-46 | - | TXT926A | TXT915A |
| | 47-70 | - | TXT825A | TXT815A |
| | 71-72 | - | TXT815A | TXT825A |
| | 73-95 | - | TXT715A + | |
| | 96-110 | TXT705 | TXT709A | TXT715A + |
| 111-120 | TXT705 | TXT709A + | TXT715A + | |
| 121-179 | TXT705 | TXT709A + | | |
| 180-200 | TXT605 + | TXT609A + | | |
| 201-400 | TXT605 + | - | - | |
| 60 | 5-9 | - | TDT1530 | |
| | 10-14 | - | TDT1425 | |
| | 15-18 | - | TDT1325 | |
| | 19-26 | - | TXT1225 | |
| | 27-39 | - | TXT1024A | TXT1015A |
| | 40-56 | - | TXT926A | TXT915A |
| | 57-70 | - | TXT825A | TXT815A |
| | 71-75 | - | TXT815A | TXT825A |
| | 76-89 | - | TXT815A | |

| Hp | Output RPM | Reducer selection | | |
|--------|---------------|-------------------|------------|------------|
| | | Single | Double | |
| 60 | 90-120 | TXT705 | TXT715A + | TXT709A + |
| | 121-200 | TXT705 | TXT709A + | |
| | cont. 201-285 | TXT705 | - | - |
| | 286-400 | TXT605 + | - | - |
| | 7-12 | - | TDT1530 | |
| | 13-18 | - | TDT1425 | |
| | 19-24 | - | TDT1325 | |
| | 25-33 | - | TXT1225 | TXT1215 |
| | 34-49 | - | TXT1024A | TXT1015A |
| | 50-73 | - | TXT926A | TXT915A |
| 75 | 74-75 | - | TXT815A | TXT825A |
| | 76-120 | TXT805 | TXT815A + | |
| | 121-133 | TXT805 | TXT709A + | |
| | 134-200 | TXT705 | TXT709A + | |
| | 201-400 | TXT705 | - | - |
| | 8-16 | - | TDT1530 | |
| | 17-25 | - | TDT1425 | |
| | 26-33 | - | TDT1325 | |
| | 34-45 | - | TXT1225 | TXT1215 |
| | 46-67 | - | TXT1024A | TXT1015A |
| 100 | 68-75 | - | TXT915A + | TXT926A + |
| | 76-103 | - | TXT915A + | |
| | 104-120 | TXT905 | TXT815A + | |
| | 121-149 | TXT905 | - | - |
| | 150-180 | TXT805 | - | - |
| | 181-200 | TXT805 | TXT709A | |
| | 201-204 | TXT805 | - | - |
| | 205-246 | TXT705 | - | - |
| | 247-400 | TXT705 + | - | - |
| | 11-20 | - | TDT1530 | |
| 125 | 21-31 | - | TDT1425 | |
| | 32-43 | - | TDT1325 | |
| | 44-58 | - | TXT1225 | TXT1215 |
| | 59-75 | - | TXT1024A | TXT1015A |
| | 76-85 | - | TXT1015A | |
| | 86-120 | - | TXT915A + | |
| | 145-209 | TXT905 | - | - |
| | 210-303 | TXT805 + | - | - |
| | 304-400 | TXT705 + | - | - |
| | 13-25 | - | TDT1530 | |
| 150 | 26-38 | - | TDT1425 | |
| | 39-54 | - | TDT1325 | |
| | 55-72 | - | TXT1225 + | TXT1215 + |
| | 73-75 | - | TXT1015A + | TXT1024A + |
| | 76-120 | - | TXT1015A + | |
| | 184-279 | TXT905 + | - | - |
| | 280-400 | TXT805 + | - | - |
| | 18-33 | - | TDT1530 | |
| | 34-53 | - | TDT1425 + | |
| | 200 | 54-75 | - | TDT1325 + |
| 77-120 | | - | TXT1215* | |

| Hp | Output RPM | Reducer selection | |
|-----|------------|-------------------|-----------|
| | | Single | Double |
| 250 | 23-42 | - | TDT1530 |
| | 43-46 | - | TDT1425 + |
| | 47-69 | - | 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 G3-165 for lubrication for 15 RPM and slower

+ Fan cooling required – see page G3-75

* Heat exchanger required – see page G3-75.

Selection

Torque-Arm shaft mount speed reducers

Class III selection (2.0 service factor) table TXT reducers ★

| Hp | Output RPM | Reducer selection | |
|---------|------------|-------------------|-----------------|
| | | Single | Double |
| 1/4 | 4-6 | - | TXT225A |
| | 7-70 | - | TXT125A TXT115A |
| | 71-85 | - | TXT115A TXT125A |
| | 86-89 | - | TXT115A TXT109A |
| | 90-115 | - | TXT115A TXT109A |
| | 116-140 | TXT105 | TXT109A TXT115A |
| | 141-200 | TXT105 | TXT109A |
| | 201-400 | TXT105 | - - |
| 1/3 | 5-9 | - | TXT225A |
| | 10-70 | - | TXT125A TXT115A |
| | 71-85 | - | TXT115A TXT125A |
| | 86-115 | - | TXT115A TXT109A |
| | 116-140 | TXT105 | TXT109A TXT115A |
| | 141-200 | TXT105 | TXT109A |
| | 201-400 | TXT105 | - - |
| | 1/2 | 4-5 | - |
| 6-7 | | - | TXT325B |
| 8-15 | | - | TXT225A |
| 16-70 | | - | TXT125A TXT115A |
| 71-85 | | - | TXT115A TXT125A |
| 86-115 | | - | TXT115A TXT109A |
| 116-140 | | TXT105 | TXT109A TXT115A |
| 141-200 | | TXT105 | TXT109A |
| 3/4 | 201-400 | TXT105 | - - |
| | 4 | - | TXT525C |
| | 5-7 | - | TXT425B |
| | 8-12 | - | TXT325B |
| | 13-23 | - | TXT225A |
| | 24-70 | - | TXT125A TXT115A |
| | 71-85 | - | TXT115A TXT125A |
| | 86-115 | - | TXT115A TXT109A |
| 1 | 116-140 | TXT105 | TXT109A TXT115A |
| | 141-200 | TXT105 | TXT109A |
| | 201-400 | TXT105 | - - |
| | 4-6 | - | TXT525C |
| | 7-10 | - | TXT425B |
| | 11-17 | - | TXT325B |
| | 18-32 | - | TXT225A |
| | 33-70 | - | TXT125A TXT115A |
| 1-1/2 | 71-85 | - | TXT115A TXT125A |
| | 86-115 | - | TXT115A TXT109A |
| | 116-140 | TXT105 | TXT109A TXT115A |
| | 141-200 | TXT105 | TXT109A |
| | 201-400 | TXT105 | - - |
| | 4-5 | - | TXT625A |
| | 6-10 | - | TXT525C |
| | 11-15 | - | TXT425B |
| 1-1/2 | 16-26 | - | TXT325B |
| | 27-51 | - | TXT225A TXT215A |
| | 52-70 | - | TXT125A TXT115A |
| | 71-85 | - | TXT115A TXT125A |

| Hp | Output RPM | Reducer selection | |
|-------------|------------|-------------------|-----------------|
| | | Single | Double |
| 1-1/2 cont. | 86-115 | - | TXT115A TXT109A |
| | 116-140 | TXT105 | TXT109A TXT115A |
| | 141-200 | TXT105 | TXT109A |
| | 201-400 | TXT105 | - - |
| | 5-7 | - | TXT625A |
| | 8-13 | - | TXT525C |
| | 14-21 | - | TXT425B |
| | 22-36 | - | TXT325B TXT315B |
| 2 | 37-71 | - | TXT225A TXT215A |
| | 72-85 | - | TXT115A TXT125A |
| | 86-115 | - | TXT115A TXT109A |
| | 116-140 | TXT105 | TXT109A TXT115A |
| | 141-200 | TXT105 | TXT109A |
| | 201-400 | TXT105 | - - |
| | 4-5 | - | TXT825A |
| | 6-7 | - | TXT725A |
| 3 | 8-12 | - | TXT625A |
| | 13-20 | - | TXT525C |
| | 21-32 | - | TXT425B TXT415B |
| | 33-57 | - | TXT325B TXT315B |
| | 58-70 | - | TXT225A TXT215A |
| | 71-85 | - | TXT215A TXT225A |
| | 86-89 | - | TXT215A TXT209A |
| | 90-113 | TXT205 | TXT215A TXT209A |
| 5 | 114-140 | TXT205 | TXT109A TXT115A |
| | 141-155 | TXT205 | TXT109A |
| | 156-200 | TXT105 | TXT109A |
| | 201-400 | TXT105 | - - |
| | 5 | - | TXT926A |
| | 6-8 | - | TXT825A |
| | 9-12 | - | TXT725A |
| | 13-20 | - | TXT625A |
| 7-1/2 | 21-36 | - | TXT525C TXT515C |
| | 37-56 | - | TXT425B TXT415B |
| | 57-70 | - | TXT325B TXT315B |
| | 71-85 | - | TXT315B TXT325B |
| | 86-103 | - | TXT315B TXT309B |
| | 104-114 | TXT305A | TXT215A TXT309B |
| | 115-140 | TXT305A | TXT209A TXT215A |
| | 141-167 | TXT305A | TXT209A |
| 7-1/2 | 168-200 | TXT205 | TXT209A |
| | 201-400 | TXT205 | - - |
| | 5-6 | - | TXT1024A |
| | 7-8 | - | TXT926A |
| | 9-13 | - | TXT825A |
| | 14-19 | - | TXT725A |
| | 20-32 | - | TXT625A TXT615A |
| | 33-56 | - | TXT525C TXT515C |
| 7-1/2 | 57-70 | - | TXT425B TXT415B |
| | 71-85 | - | TXT415B TXT425B |
| | 86-93 | - | TXT415B TXT409B |

| Hp | Output RPM | Reducer selection | |
|-------------|------------|-------------------|---------------------|
| | | Single | Double |
| 7-1/2 cont. | 94-140 | TXT405A | TXT309B TXT315B |
| | 141-144 | TXT405A | TXT309B |
| | 145-200 | TXT305A | TXT309B |
| | 201-400 | TXT305A | - - |
| | 4-6 | - | TXT1225 |
| | 7-8 | - | TXT1024A |
| | 9-12 | - | TXT926A |
| | 13-18 | - | TXT825A |
| 10 | 19-26 | - | TXT725A TXT715A |
| | 27-45 | - | TXT625A TXT615A |
| | 46-70 | - | TXT525C TXT515C |
| | 71-78 | - | TXT515C TXT525C |
| | 79-92 | - | TXT415B |
| | 93-105 | - | TXT415B TXT409B |
| | 106-141 | TXT405A | TXT409B TXT415B |
| | 142-200 | TXT405A | TXT309B |
| 15 | 201-241 | TXT405A | - - |
| | 242-400 | TXT305A | - - |
| | 4-5 | - | TDT1425 |
| | 6-9 | - | TXT1225 |
| | 10-13 | - | TXT1024A |
| | 14-19 | - | TXT926A |
| | 20-28 | - | TXT825A TXT815A |
| | 29-41 | - | TXT725A TXT715A |
| 20 | 42-70 | - | TXT625A TXT615A |
| | 71-75 | - | TXT615A TXT625A |
| | 76-93 | - | TXT515C |
| | 94-115 | - | TXT515C TXT509C |
| | 116-125 | TXT605 | TXT509C TXT515C |
| | 126-131 | TXT605 | TXT509C |
| | 132-200 | TXT505A | TXT409B |
| | 201-215 | TXT505A | - - |
| 25 | 216-400 | TXT405A | - - |
| | 5-6 | - | TDT1425 |
| | 7 | - | TDT1325 |
| | 8-12 | - | TXT1225 |
| | 13-18 | - | TXT1024A |
| | 19-25 | - | TXT926A TXT915A |
| | 26-38 | - | TXT825A TXT815A |
| | 39-57 | - | TXT725A TXT715A |
| 25 | 58-70 | - | TXT625A TXT615A |
| | 71-114 | - | TXT615A TXT609A |
| | 115-125 | TXT605 | TXT509C + TXT515C + |
| | 126-200 | TXT605 | TXT509C + |
| | 201-218 | TXT605 | - - |
| | 219-324 | TXT505A | - - |
| | 325-400 | TXT405A + | - - |
| | 4-5 | - | TDT1530 |
| 25 | 6-8 | - | TDT1425 |
| | 9 | - | TDT1325 |
| | 10-15 | - | TXT1225 |

★ See page G3-165 for lubrication for 15 RPM and slower

+ Fan cooling required – see page G3-75

* Heat exchanger required – see page G3-75.

Selection

Torque-Arm shaft mount speed reducers

Class III selection (2.0 service factor) table TXT reducers ★

| Hp | Output RPM | Reducer selection | | |
|-------------|---------------|-------------------|-------------------|-----------|
| | | Single | Double | |
| 25 cont. | 16-22 | - | TXT1024A | |
| | 23-32 | - | TXT926A TXT915A | |
| | 33-49 | - | TXT825A TXT815A | |
| | 50-70 | - | TXT725A TXT715A | |
| | 71-74 | - | TXT715A TXT725A | |
| | 75-104 | - | TXT615A TXT609A | |
| | 105-113 | - | TXT615A + TXT609A | |
| | 114-125 | TXT605 | TXT615A + | TXT609A + |
| | 126-200 | TXT605 | TXT609A + | |
| | 201-294 | TXT605 | - | - |
| | 295-400 | TXT505A + | - | - |
| | 30 | 4-6 | - | TDT1530 |
| 7-10 | | - | TDT1425 | |
| 11-12 | | - | TDT1325 | |
| 13-18 | | - | TXT1225 | |
| 19-27 | | - | TXT1024A TXT1015A | |
| 28-39 | | - | TXT926A TXT915A | |
| 40-60 | | - | TXT825A TXT815A | |
| 61-70 | | - | TXT725A TXT715A | |
| 71-98 | | - | TXT715A | |
| 99-125 | | - | TXT615A + | TXT609A + |
| 126-131 | | TXT705 | TXT609A + | |
| 132-200 | | TXT605 | TXT609A + | |
| 40 | 201-381 | TXT605 | - | |
| | 382-400 | TXT505A + | - | |
| | 5-9 | - | TDT1530 | |
| | 10-14 | - | TDT1425 | |
| | 15-17 | - | TDT1325 | |
| | 18-25 | - | TXT1225 | |
| | 26-37 | - | TXT1024A TXT1015A | |
| | 38-53 | - | TXT926A TXT915A | |
| | 54-70 | - | TXT825A TXT815A | |
| | 71-84 | - | TXT815A | |
| | 85-89 | - | TXT715A TXT709A | |
| | 90-120 | TXT705 | TXT715A + | TXT709A |
| 121-200 | TXT705 | TXT709A + | | |
| 201-249 | TXT705 | - | - | |
| 250-400 | TXT605 + | - | - | |
| 50 | 6-11 | - | TDT1530 | |
| | 12-17 | - | TDT1425 | |
| | 18-22 | - | TDT1325 | |
| | 23-31 | - | TXT1225 TXT1215 | |
| | 32-46 | - | TXT1024A TXT1015A | |
| | 47-69 | - | TXT926A TXT915A | |
| | 70-75 | - | TXT815A TXT825A | |
| | 76-110 | - | TXT815A | |
| | 111-120 | - | TXT715A + | TXT709A + |
| | 121-123 | TXT805 | TXT709A + | |
| | 124-200 | TXT705 | TXT709A + | |
| | 201-400 | TXT705 | - | - |

| Hp | Output RPM | Reducer selection | | | | | |
|---------|---------------|-------------------|-------------------|-----------|-----------|---------|---------|
| | | Single | Double | | | | |
| 60 | 7-14 | - | TDT1530 | | | | |
| | 15-21 | - | TDT1425 | | | | |
| | 22-28 | - | TDT1325 | | | | |
| | 29-38 | - | TXT1225 TXT1215 | | | | |
| | 39-56 | - | TXT1024A TXT1015A | | | | |
| | 57-75 | - | TXT926A TXT915A | | | | |
| | 76-85 | - | TXT915A | | | | |
| | 86-115 | - | TXT815A | | | | |
| | 116-141 | TXT805 | - | - | | | |
| | 142-161 | TXT805 | TXT709A + | | | | |
| | 162-200 | TXT705 | TXT709A + | | | | |
| | 201-400 | TXT705 | | | | | |
| 75 | 9-17 | - | TDT1530 | | | | |
| | 18-26 | - | TDT1425 | | | | |
| | 27-36 | - | TDT1325 | | | | |
| | 37-49 | - | TXT1225 TXT1215 | | | | |
| | 50-72 | - | TXT1024A TXT1015A | | | | |
| | 73-75 | - | TXT915A + | TXT926A + | | | |
| | 76-120 | - | TXT915A + | | | | |
| | 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 | | - | TXT1015A | | | | |
| 175-259 | | TXT905 | - | - | | | |
| 260-387 | | TXT805 + | - | - | | | |
| 388-400 | | TXT705 + | - | - | | | |
| 125 | | 16-30 | - | TDT1530 | | | |
| | | 31-43 | - | TDT1425 | | | |
| | | 44-46 | - | TDT1425 + | | | |
| | | 47-67 | - | TDT1325 | | | |
| | 68-70 | - | TXT1225 + | TXT1215 + | | | |
| | 71-75 | - | TXT1215 + | TXT1225 + | | | |
| | 76-90 | - | TXT1215 + | | | | |
| | 91-120 | - | TXT1015A + | | | | |
| | 150 | 19-36 | - | TDT1530 | | | |
| | | 37-41 | - | TDT1425 | | | |
| | | 42-58 | - | TDT1425+ | | | |
| | | 59-75 | - | TDT1325+ | | | |
| 83-110 | | - | TXT1215 * | | | | |
| 200 | | 27-50 | - | TDT1530 | | | |
| | | 51-75 | - | TDT1425 * | | | |
| | | 250 | 34-57 | - | TDT1530 | | |
| | | | 66-75 | - | TDT1425 * | | |
| | | | 300 | 41-57 | - | TDT1530 | |
| | | | | 350 | 50-57 | - | TDT1530 |

★ See page G3-165 for lubrication for 15 RPM and slower

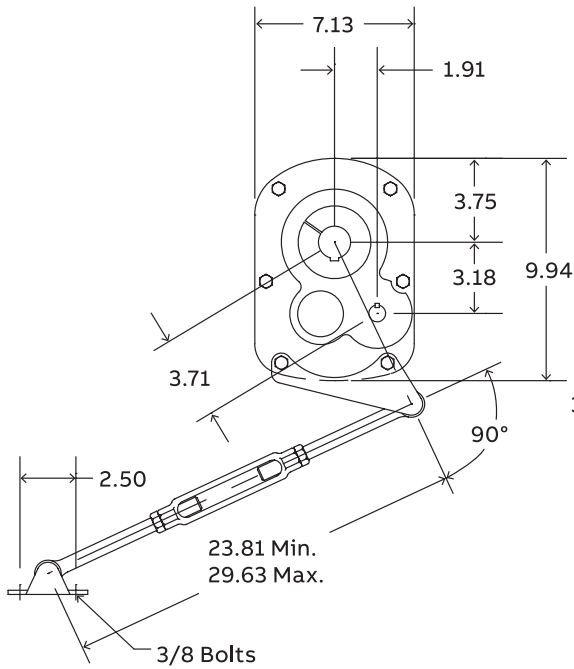
+ Fan cooling required – see page G3-75

* Heat exchanger required – see page G3-75.

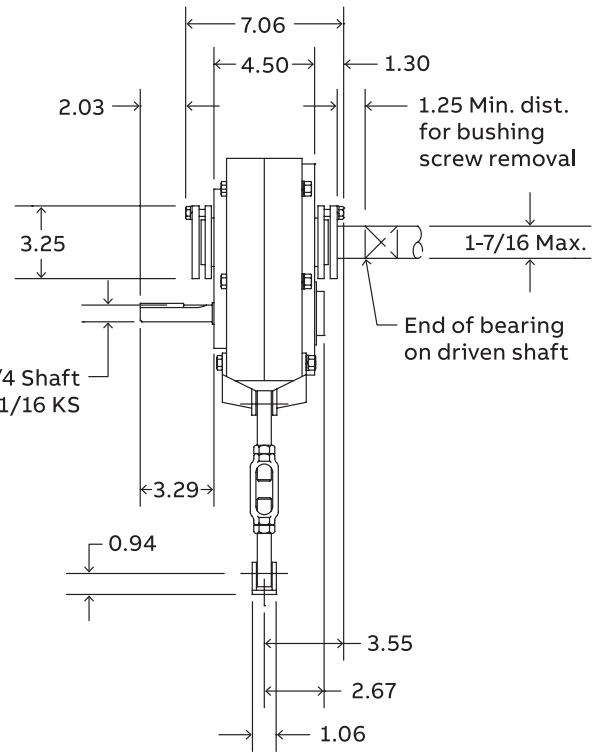
— Notes

Selection and dimensions

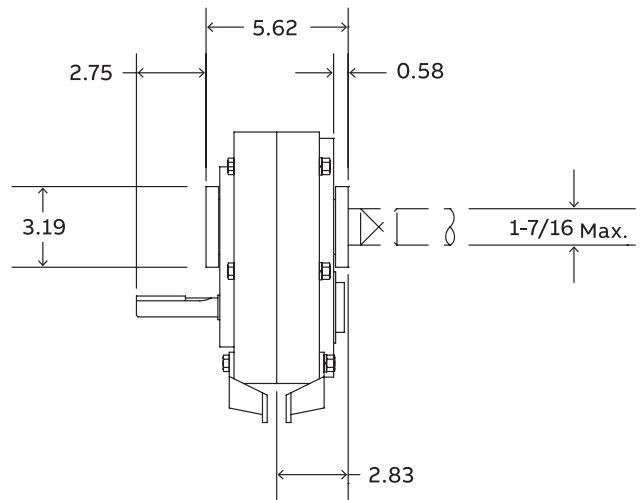
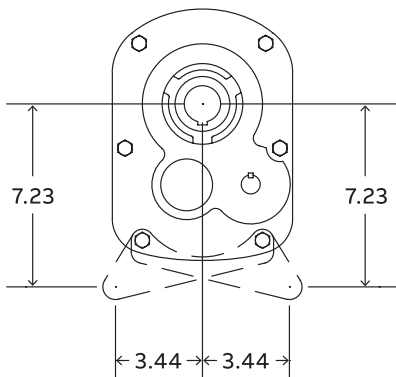
Torque-Arm shaft mount speed reducers
 TXT1A – Double reduction taper bushed



3/16 x 3/32 x 2-11/16 KS



TXT1A – Double reduction straight bore



Selection and dimensions

Torque-Arm shaft mount speed reducers
TXT1A – Double reduction taper bushed

TXT1A Taper bushed reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT109AT | 241092 | 107D09 | 9.44 | 45 |
| TXT115AT | 241065 | 107D15 | 15.35 | 45 |
| TXT125AT | 241066 | 107D25 | 25.64 | 45 |

TXT1A Straight bore reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT109AS | 241327 ♣ | 107D09 | 9.44 | 45 |
| TXT115AS | 241073 | 107D15 | 15.35 | 45 |
| TXT125AS | 241074 | 107D25 | 25.64 | 45 |

Accessories for TXT1A reducers

| Description | Part number | Weight lbs. |
|--|-------------|-------------|
| TA1M Standard Motor Mount (56T-215T) | 241391 | 37.3 |
| TAB1 Bottom Motor Mount (56T-215T) ♣ ♠ | 241421 | 34 |
| TXT1 Backstop Assembly | 242101 | .8 |
| TXT1D TA Reducer Belt Guard (56T-215T) | 241395 | 30 |
| TXT1 Taconite Auxiliary Seal Kit ♥ | 272515 | 4.40 |
| TXT1 Lube Kit | LUBEKITTXT1 | 4.6 |
| Dodge ability sensor | 750000 | 0.5 |

s

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 | 2.0 | – |
| 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 | 0.4 |
| 1-1/4 | ▲ | 241288 | 241346 | 1/4 x 1/8 x 6-7/16 | 1/4 x 1/8 x 2 | 2.0 | 0.6 |
| 1-3/16 | ▲ | 241286 | 241345 | 1/4 x 1/8 x 6-7/16 | 1/4 x 1/8 x 2 | 2.2 | 0.6 |
| 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 | 0.6 |
| 1 | ▲ | 241278 | 241342 | 1/4 x 1/8 x 6-7/16 | 1/4 x 1/8 x 1-3/4 | 2.5 | 1.0 |

♣ Made to order

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

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

○ Stock TXT Reducers are drilled for vertical mounting.

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

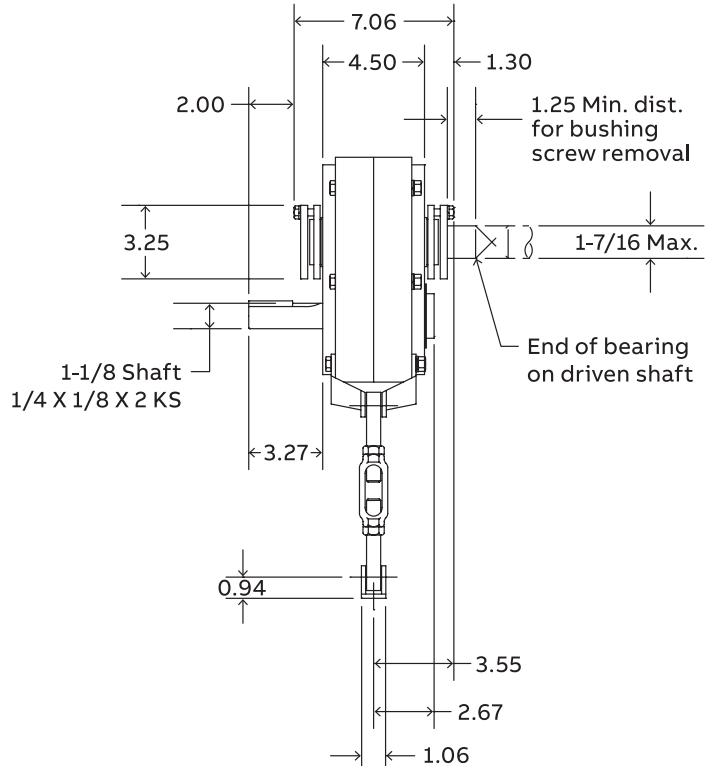
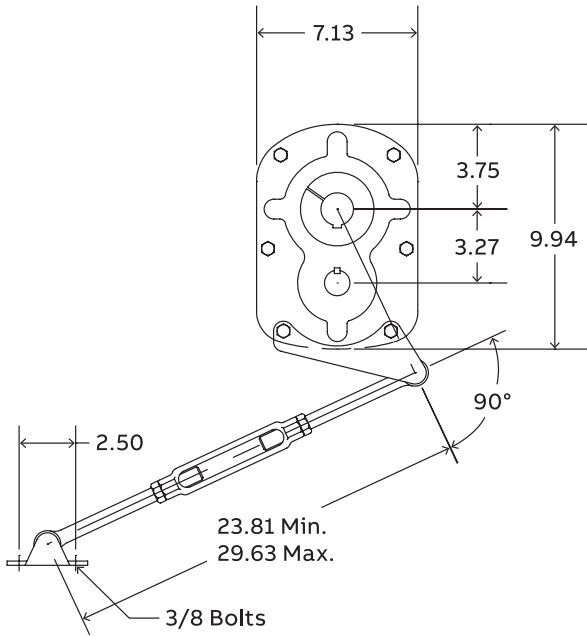
■ See pages G3-168 and G3-169 for reducer part numbers and drill and tap dimensions for flange mount TXT reducers. Available only as special factory order.

● Taper bushed reducers require bushing for all bore sizes.

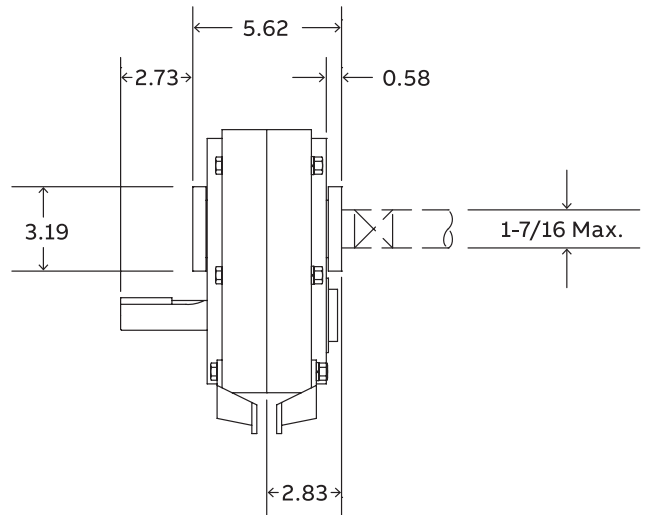
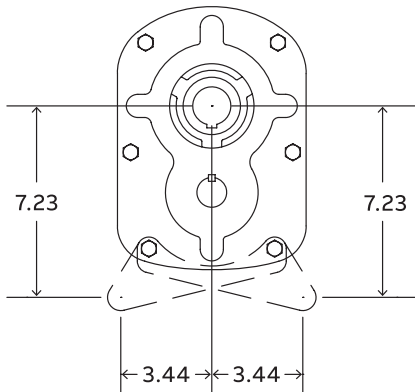
♥ Use with taper bushed reducer only. See pages G3-171 and G3-172 for drill and tap information required to mount to reducer.

Selection and dimensions

Torque-Arm shaft mount speed reducers
 TXT105 – Single reduction taper bushed



TXT105 – Single reduction straight bore



Selection and dimensions

Torque-Arm shaft mount speed reducers
TXT105 – Single reduction taper bushed

TXT105 Taper bushed reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT105T | 241083 | 107S05 | 5.62 | 40 |

TXT105 Straight bore reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT105S | 241087 | 107S05 | 5.62 | 40 |

Accessories for TXT105 reducers

| Description | Part number | Weight lbs. |
|--|---------------|-------------|
| TA1M Standard motor mount (56T-215T) | 241391 | 37.3 |
| TAB1 Bottom motor mount (56T-215T) ♣ ♣ | 241421 | 34 |
| TXT105 Backstop assembly | 242101 | .8 |
| TXT1S TA reducer belt guard (56T-215T) | 241397 | 30 |
| TXT105 Taconite auxiliary seal kit ♥ | 272521 | 5 |
| TXT105 Lube kit | LUBEKITTXT105 | 4.5 |
| Dodge ability sensor | 750000 | 0.5 |

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 | 2.0 | – |
| 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 | 0.4 |
| 1-1/4 | ▲ | 241288 | 241346 | 1/4 x 1/8 x 6-7/16 | 1/4 x 1/8 x 2 | 2.0 | 0.6 |
| 1-3/16 | ▲ | 241286 | 241345 | 1/4 x 1/8 x 6-7/16 | 1/4 x 1/8 x 2 | 2.2 | 0.6 |
| 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 | 0.6 |
| 1 | ▲ | 241278 | 241342 | 1/4 x 1/8 x 6-7/16 | 1/4 x 1/8 x 1-3/4 | 2.5 | 1.0 |

- ♣ Made to order
- † Shaft key furnished.
- ▲ Check the driven shaft and key for strength.
- ◆ Preferred bore. No bushing required for this bore size.
- Stock TXT Reducers are drilled for vertical mounting.
- ♣ Dodge standard belt guards will not fit this motor mount.
- See pages G3-168 and G3-169 for reducer part numbers and drill and tap dimensions for flange mount TXT reducers. Available only as special factory order.
- Taper bushed reducers require bushing for all bore sizes.
- ♥ Use with taper bushed reducer only. See pages G3-171 and G3-172 for drill and tap information required to mount to reducer.

Table of Contents & Reference Guide

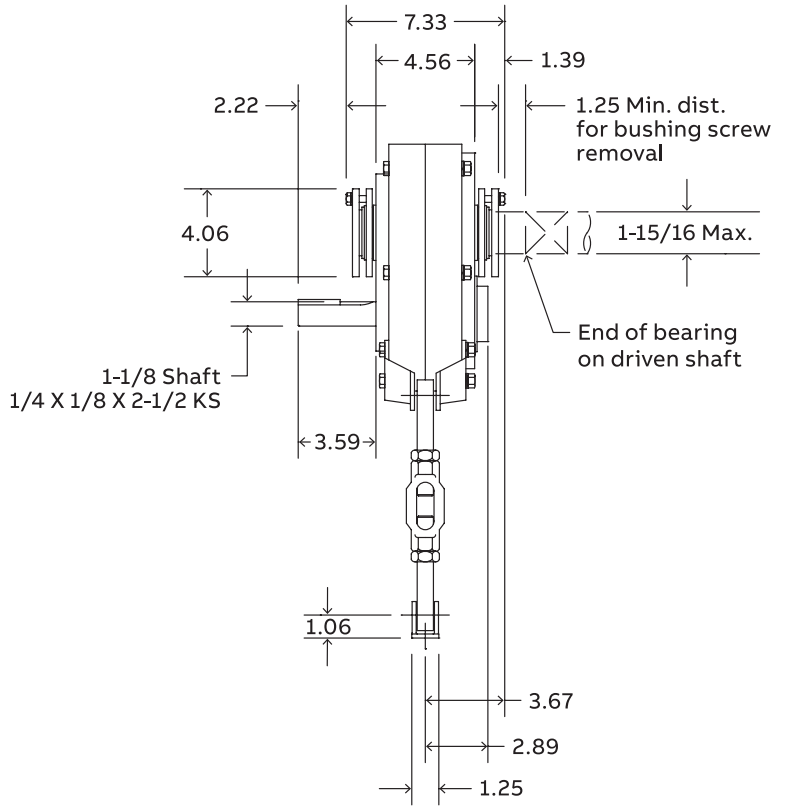
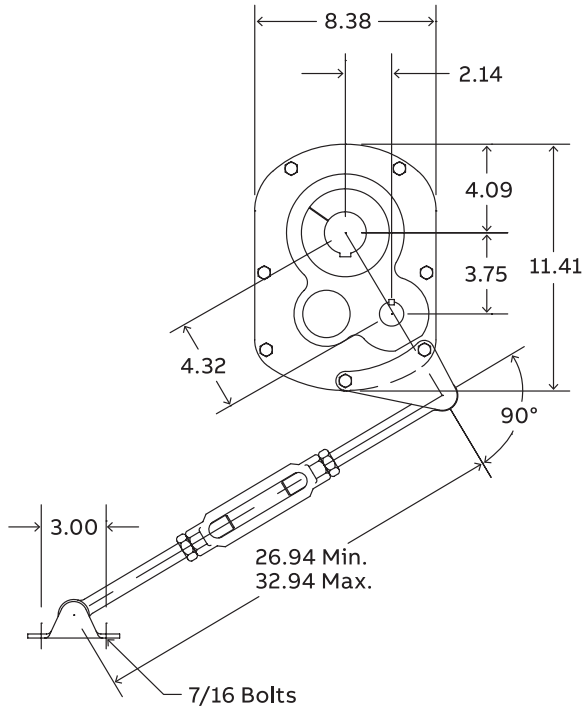
Selection and dimensions

Torque-Arm shaft mount speed reducers
 TXT2A – Double reduction taper bushed

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

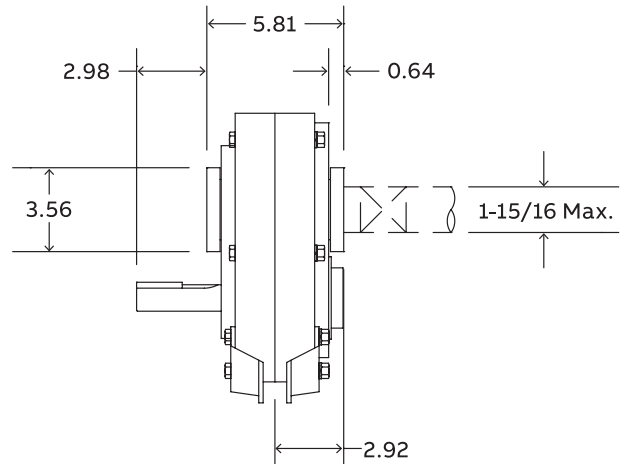
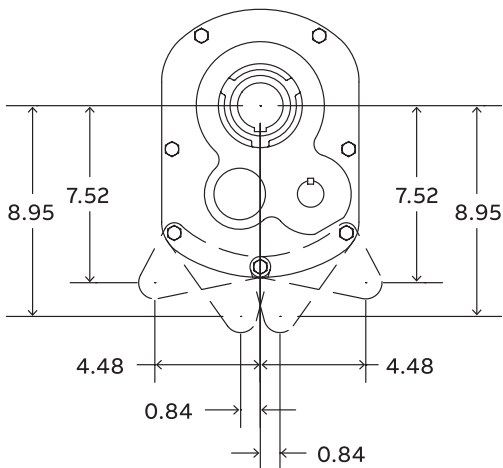


Engineering

TXT2A – Double reduction straight bore

Bulk Material Handling

Part Number Index



Selection and dimensions

Torque-Arm shaft mount speed reducers
TXT2A – Double reduction taper bushed

TXT2A Taper bushed reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT209AT | 242079 | 115D09 | 9.25 | 58 |
| TXT215AT | 242082 | 115D15 | 14.10 | 58 |
| TXT225AT | 242083 | 115D25 | 23.46 | 58 |

TXT2A Straight bore reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT209AS | 242327 ♣ | 115D09 | 9.25 | 58 |
| TXT215AS | 242090 | 115D15 | 14.10 | 58 |
| TXT225AS | 242091 | 115D25 | 23.46 | 58 |

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 | 0.8 |
| 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 | 4.0 | 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 | - |

♣ Made to order

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

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

○ Stock TXT Reducers are drilled for vertical mounting.

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

■ See pages G3-168 and G3-169 for reducer part numbers and drill and tap dimensions for flange mount TXT reducers. Available only as special factory order.

● Taper bushed reducers require bushing for all bore sizes.

▼ Use with taper bushed reducer only. See pages G3-171 and G3-172 for drill and tap information required to mount to reducer.

Accessories for TXT2A reducers

| Description | Part number | Weight lbs. |
|--|-------------|-------------|
| TA1M Standard motor mount (56T-215T) | 241391 | 37.3 |
| TAB2 Bottom motor mount (56T-215T) ♠ ♣ | 242421 | 34 |
| TXT2 Backstop assembly | 252101 | 1 |
| TXT2D TA reducer belt guard (56T-215T) | 242395 | 36 |
| TXT2 Taconite auxiliary seal kit ▼ | 272446 | 5.5 |
| TXT2 Lube kit | LUBEKITTXT2 | 4.6 |
| Dodge ability sensor | 750000 | 0.5 |

Table of Contents & Reference Guide

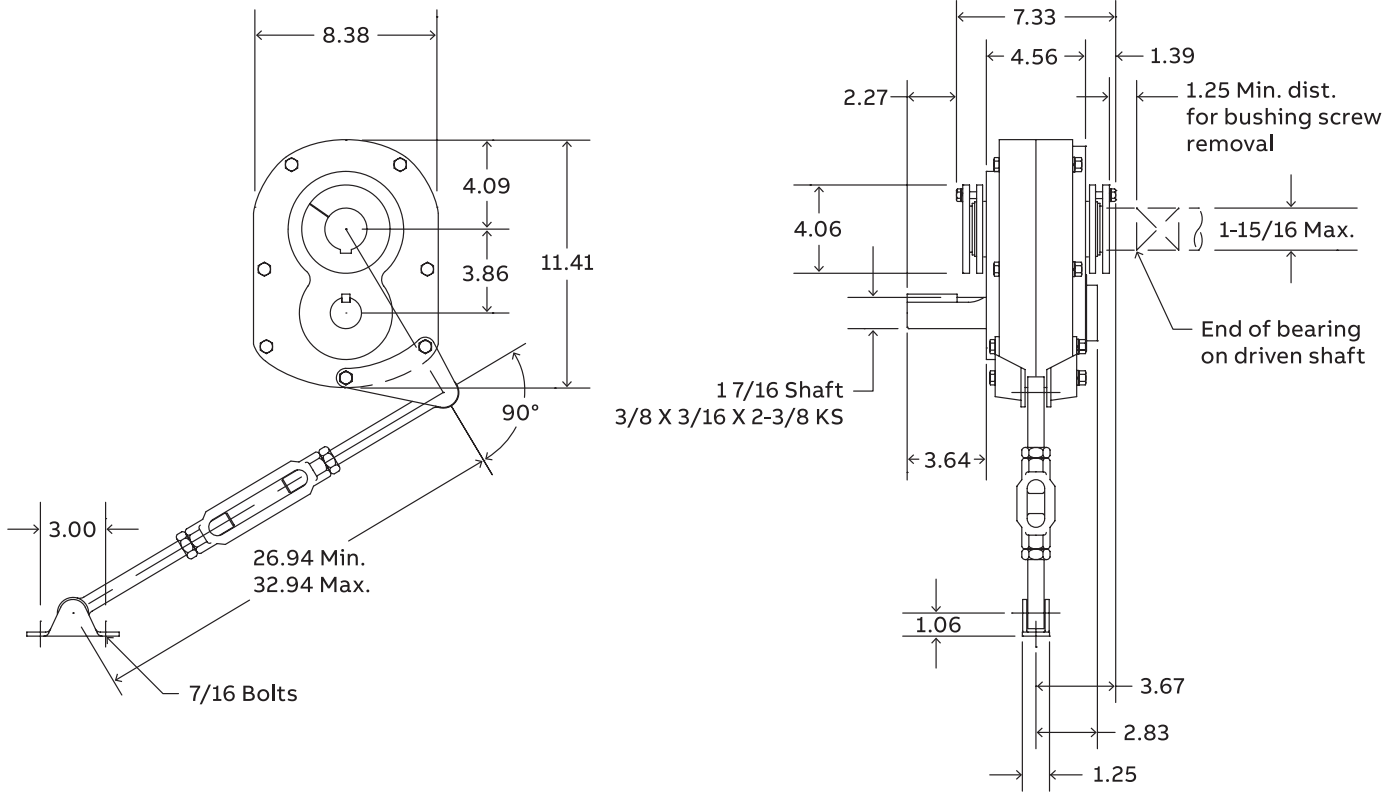
Selection and dimensions

Torque-Arm shaft mount speed reducers
 TXT205 – Single reduction taper bushed

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

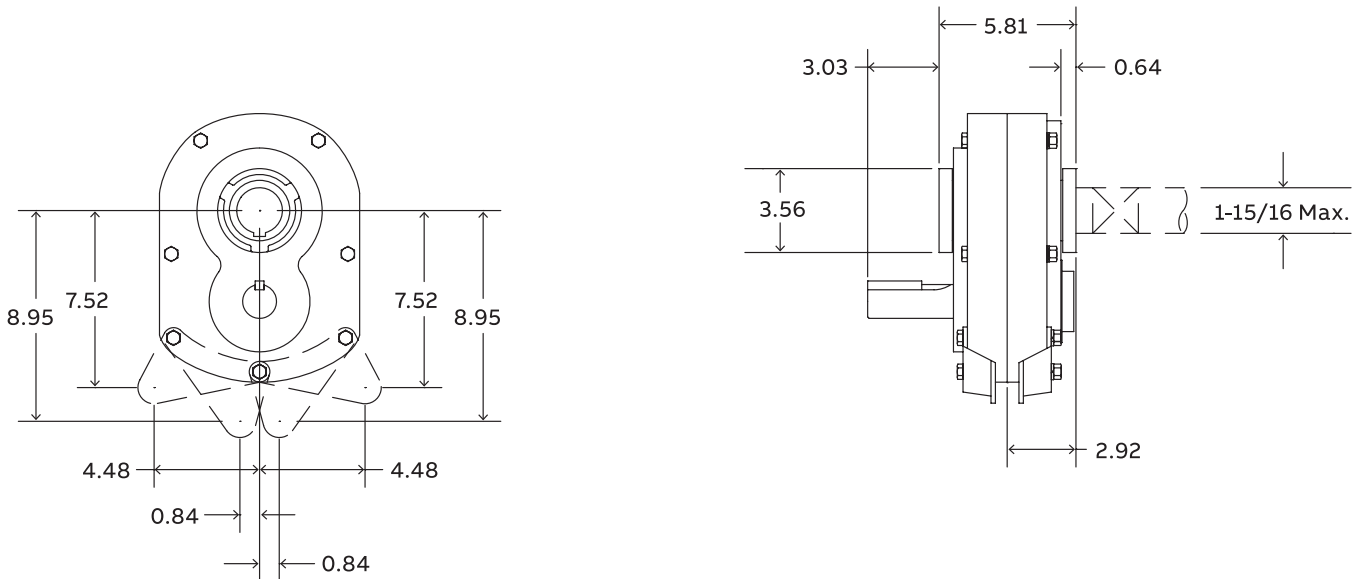


Engineering

TXT205 – Single reduction straight bore

Bulk Material Handling

Part Number Index



All dimensions are in inches.

Selection and dimensions

Torque-Arm shaft mount speed reducers
 TXT205 – Single reduction taper bushed

TXT205 Taper bushed reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT205T | 242249 | 115S05 | 5.29 | 52 |

TXT205 Straight bore reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT205S | 242253 | 115S05 | 5.29 | 52 |

Accessories for TXT205 reducers

| Description | Part number | Weight lbs. |
|--|---------------|-------------|
| TA1M Standard motor mount (56T-215T) | 241391 | 37.3 |
| TAB2 Bottom motor mount (56T-215T) ♠ ♣ | 242421 | 34 |
| TXT205 Backstop assembly | 252101 | 1 |
| TXT2S TA reducer belt guard (56T-215T) | 242397 | 36 |
| TXT205 Taconite auxiliary seal kit ♥ | 272459 | 5.8 |
| TXT205 Lube kit | LUBEKITTXT205 | 6.9 |
| Dodge ability sensor | 750000 | 0.5 |

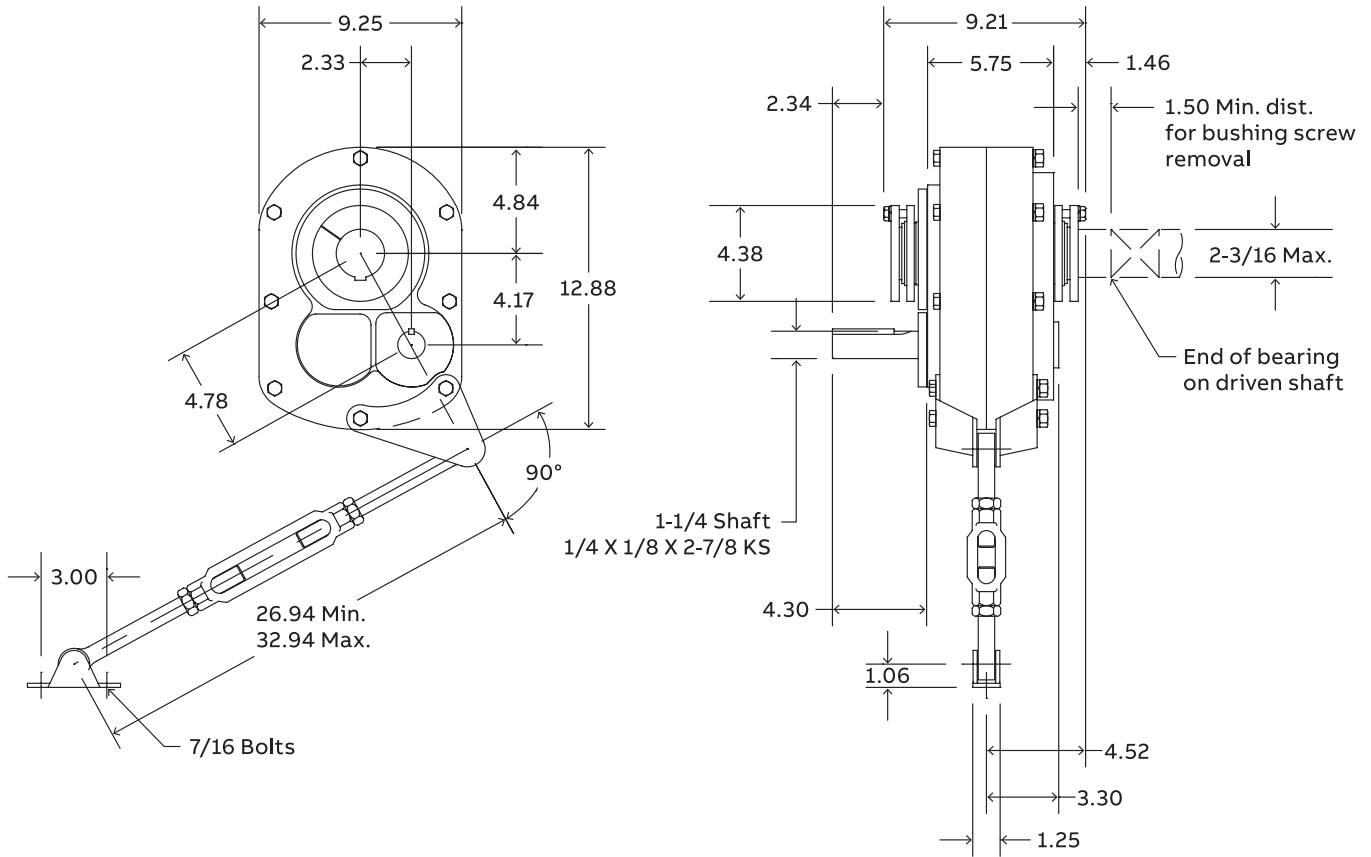
TXT2 Bushing assemblies ●

| 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 | 0.8 |
| 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 | 4.0 | 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 | - |

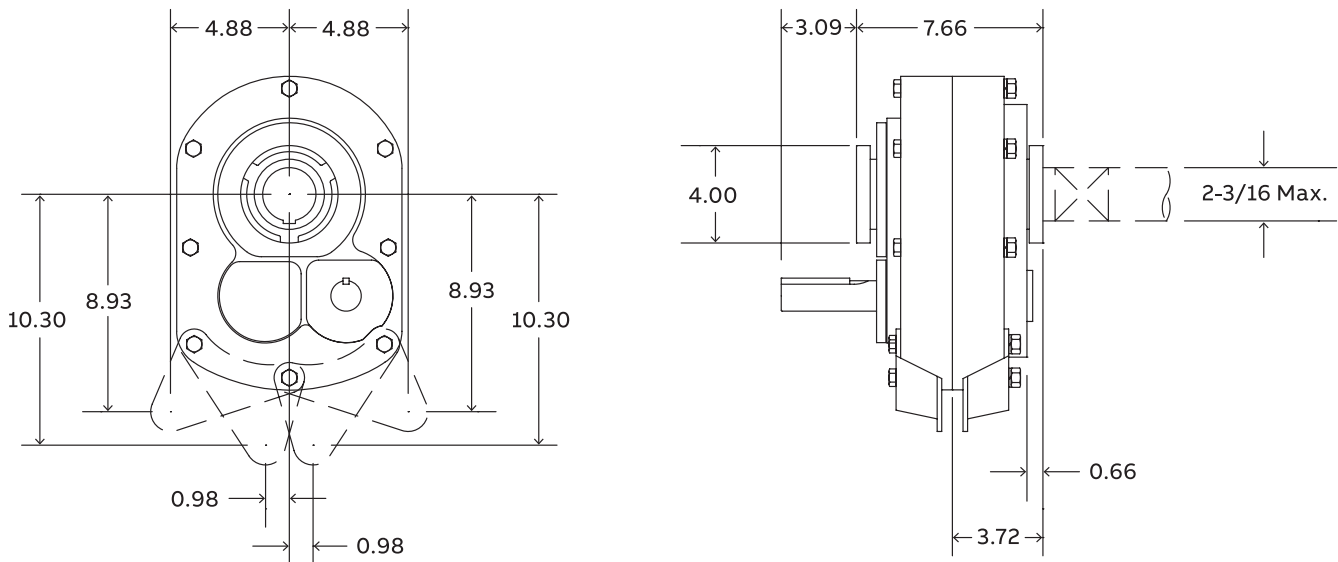
- ♣ Made to order
- † Shaft key furnished.
- ▲ Check the driven shaft and key for strength.
- ◆ Preferred bore. No bushing required for this bore size.
- Stock TXT Reducers are drilled for vertical mounting.
- ♠ Dodge standard belt guards will not fit this motor mount.
- See pages G3-168 and G3-169 for reducer part numbers and drill and tap dimensions for flange mount TXT reducers. Available only as special factory order.
- Taper bushed reducers require bushing for all bore sizes.
- ♥ Use with taper bushed reducer only. See pages G3-171 and G3-172 for drill and tap information required to mount to reducer.

Selection and dimensions

Torque-Arm shaft mount speed reducers
 TXT3B – Double reduction taper bushed



TXT3B – Double reduction straight bore



All dimensions are in inches.

Selection and dimensions

Torque-Arm shaft mount speed reducers
TXT3B – Double reduction taper bushed

TXT3B Taper bushed reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT309BT | 243500 | 203D09 | 8.91 | 98 |
| TXT315BT | 243501 | 203D15 | 14.88 | 98 |
| TXT325BT | 243502 | 203D25 | 24.71 | 98 |

TXT3B Taper bushed reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT309BS | 243512 ♣ | 203D09 | 8.91 | 98 |
| TXT315BS | 243513 | 203D15 | 14.88 | 98 |
| TXT325BS | 243514 | 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 | 1.0 |
| 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.

○ Stock TXT Reducers are drilled for vertical mounting.

♣ Dodge standard belt guards will not fit this motor mount.

■ See pages G3-168 and G3-169 for reducer part numbers and drill and tap dimensions for flange mount TXT reducers. Available only as special factory order.

● Taper bushed reducers require bushing for all bore sizes.

▼ Use with taper bushed reducer only. See pages G3-171 and G3-172 for drill and tap information required to mount to reducer.

Accessories for TXT3B reducers

| Description | Part number | Weight lbs. |
|---|-------------|-------------|
| 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 |
| TXT3D TA reducer belt guard (56T-215T) | 243387 | 43 |
| TXT3D 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 |
| TXT3 Lube kit | LUBEKITTXT3 | 6.9 |
| Dodge ability sensor | 750000 | 0.5 |

Table of Contents & Reference Guide

Selection and dimensions

Torque-Arm shaft mount speed reducers
 TXT305A – Single reduction taper bushed

Motorized Torque-Arm II

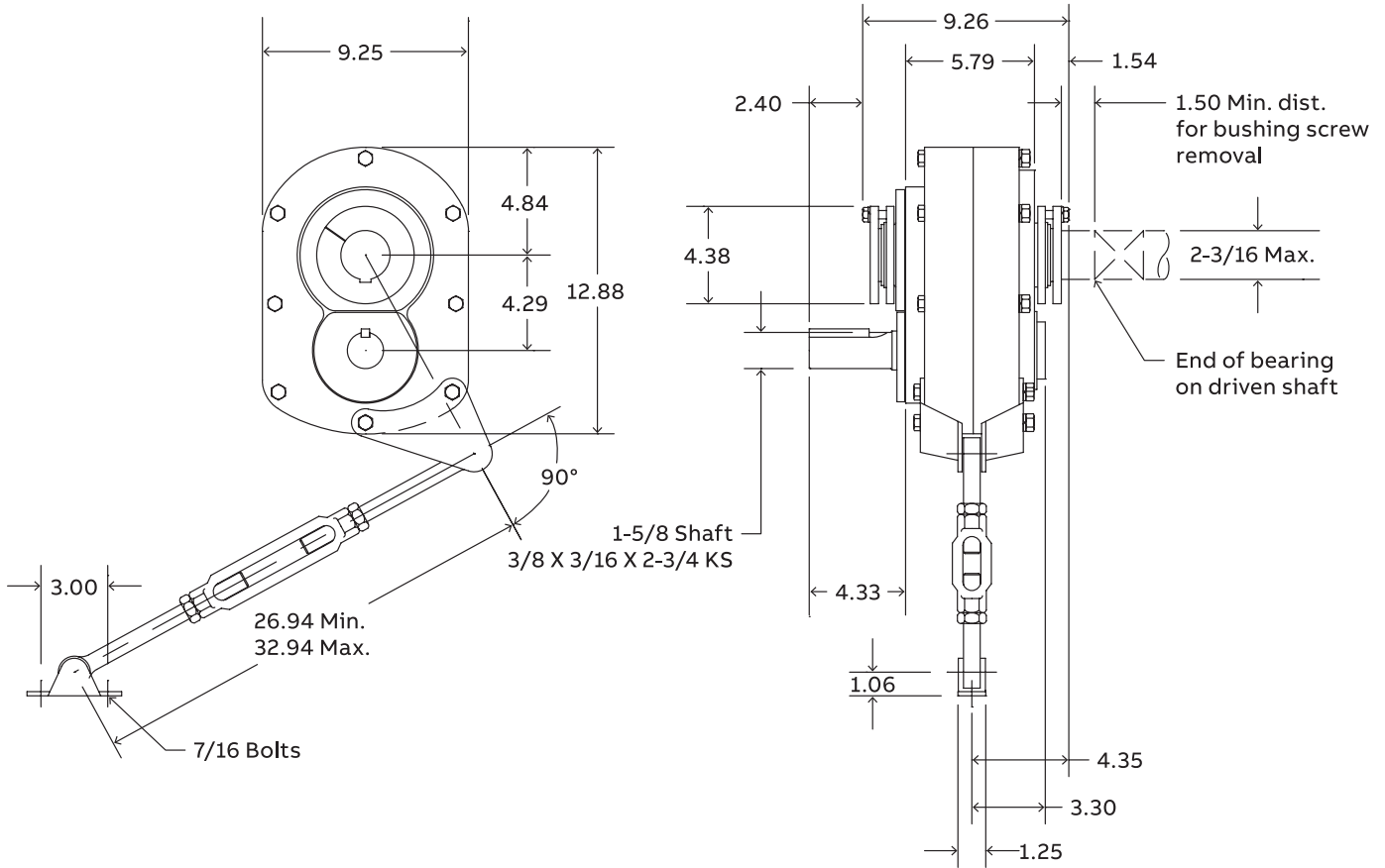
Torque-Arm II

Torque-Arm

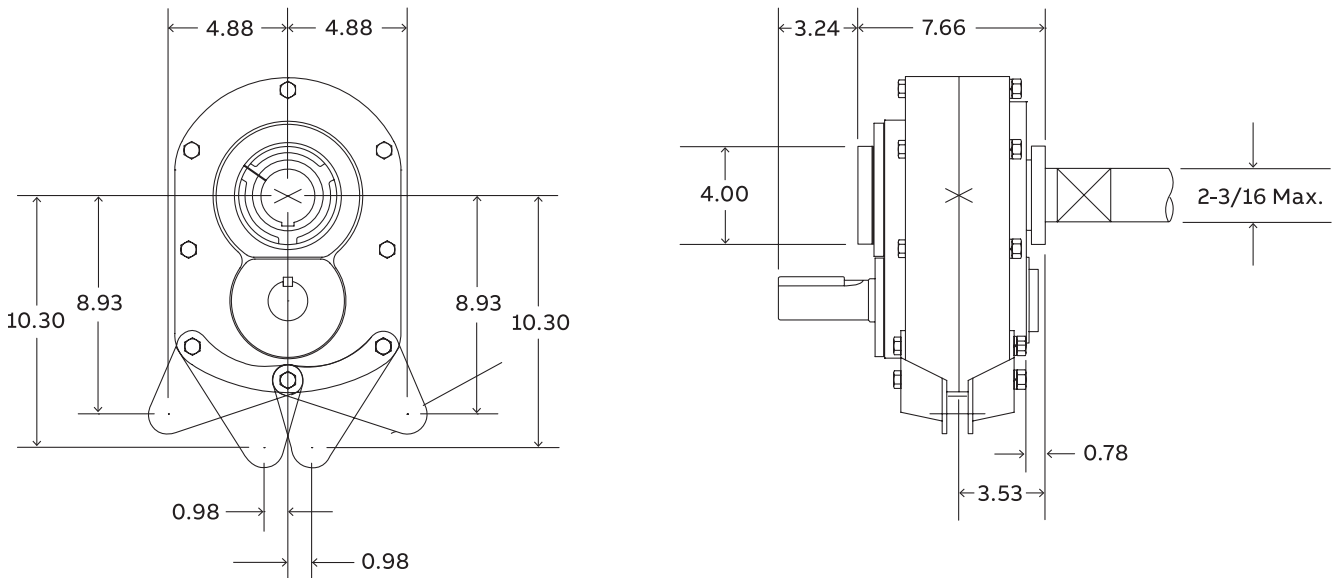
Engineering

Bulk Material Handling

Part Number Index



TXT305A – Single reduction straight bore



All dimensions are in inches.

Selection and dimensions

Torque-Arm shaft mount speed reducers
TXT305A – Single reduction taper bushed

TXT305A Taper bushed reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT305AT | 253151 | 203S05 | 5.60 | 86 |

TXT305A Straight bore reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|---------------|-----------|--------------|-------------|
| TXT305AS | 253155 | 203S05 | 5.60 | 86 |

Accessories for TXT305A reducers

| Description | Part number | Weight lbs. |
|---|---------------|-------------|
| 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 |
| TXT3S TA reducer belt guard (56T-215T) | 243389 | 43 |
| TXT3S 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 |
| TXT305 Lube kit | LUBEKITTXT305 | 8.1 |
| Dodge ability sensor | 750000 | 0.5 |

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 | 1.0 |
| 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.

○ Stock TXT Reducers are drilled for vertical mounting.

♣ Dodge standard belt guards will not fit this motor mount.

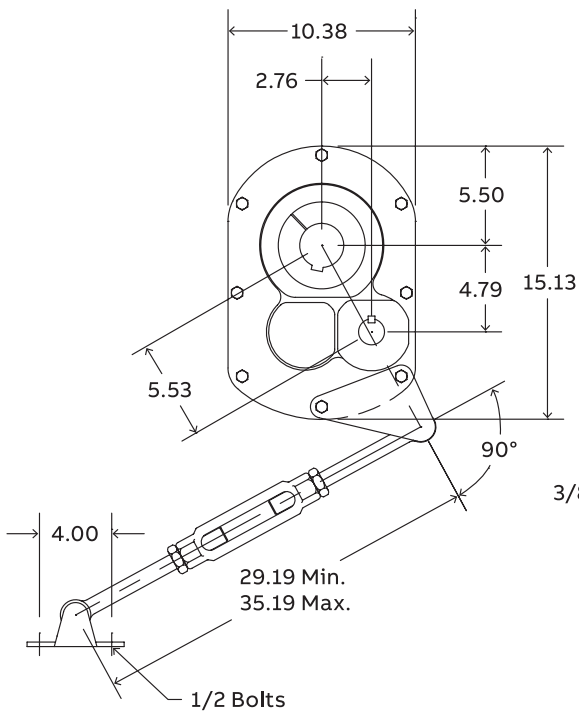
■ See pages G3-168 and G3-169 for reducer part numbers and drill and tap dimensions for flange mount TXT reducers. Available only as special factory order.

● Taper bushed reducers require bushing for all bore sizes.

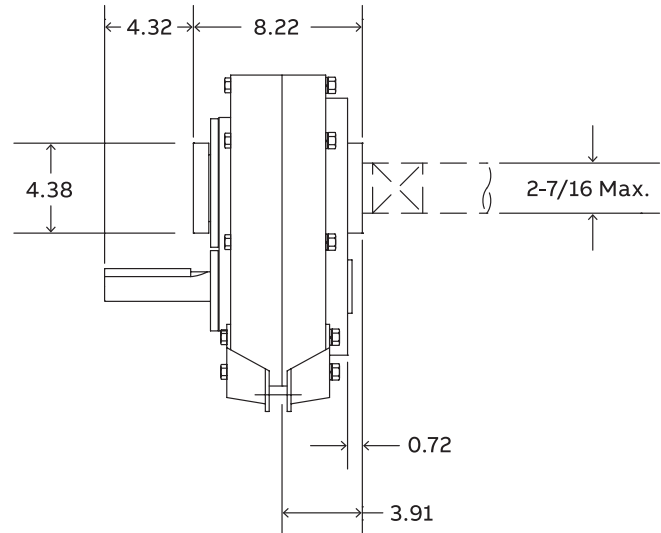
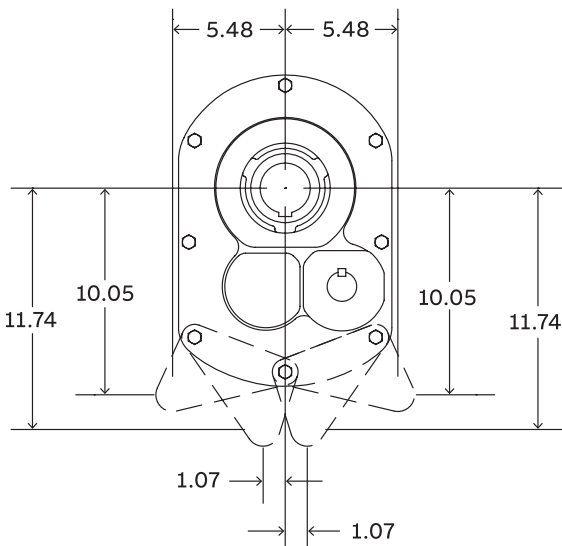
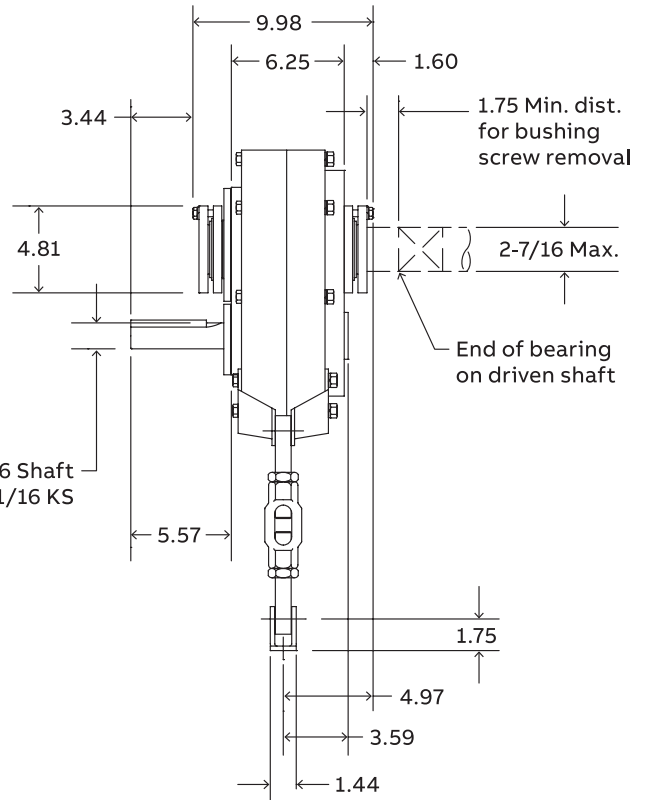
♥ Use with taper bushed reducer only. See pages G3-171 and G3-172 for drill and tap information required to mount to reducer.

Selection and dimensions

Torque-Arm shaft mount speed reducers
 TXT4B – Double reduction taper bushed



1-7/16 Shaft
 3/8 X 3/16 X 4-1/16 KS



Selection and dimensions

Torque-Arm shaft mount speed reducers
TXT4B – Double reduction taper bushed

TXT4B Taper bushed reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT409BT | 244525 | 207D09 | 9.67 | 139 |
| TXT415BT | 244526 | 207D15 | 15.13 | 139 |
| TXT425BT | 244527 | 207D25 | 24.38 | 139 |

TXT4B Straight bore reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT409BS | 244537 ♣ | 207D09 | 9.67 | 139 |
| TXT415BS | 244538 | 207D15 | 15.13 | 139 |
| TXT425BS | 244539 | 207D25 | 24.38 | 139 |

Accessories for TXT4B reducers

| Description | Part number | Weight lbs. |
|--|-------------|-------------|
| 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 |
| TXT4D TA reducer belt guard (143T-286T) | 244395 | 54 |
| TXT4D 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 |
| TXT4 Lube kit | LUBEKITTXT4 | 10.4 |
| Dodge ability sensor | 750000 | 0.5 |

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 | 7.0 | 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 | 8.0 | 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.

○ Stock TXT Reducers are drilled for vertical mounting.

♣ Dodge standard belt guards will not fit this motor mount.

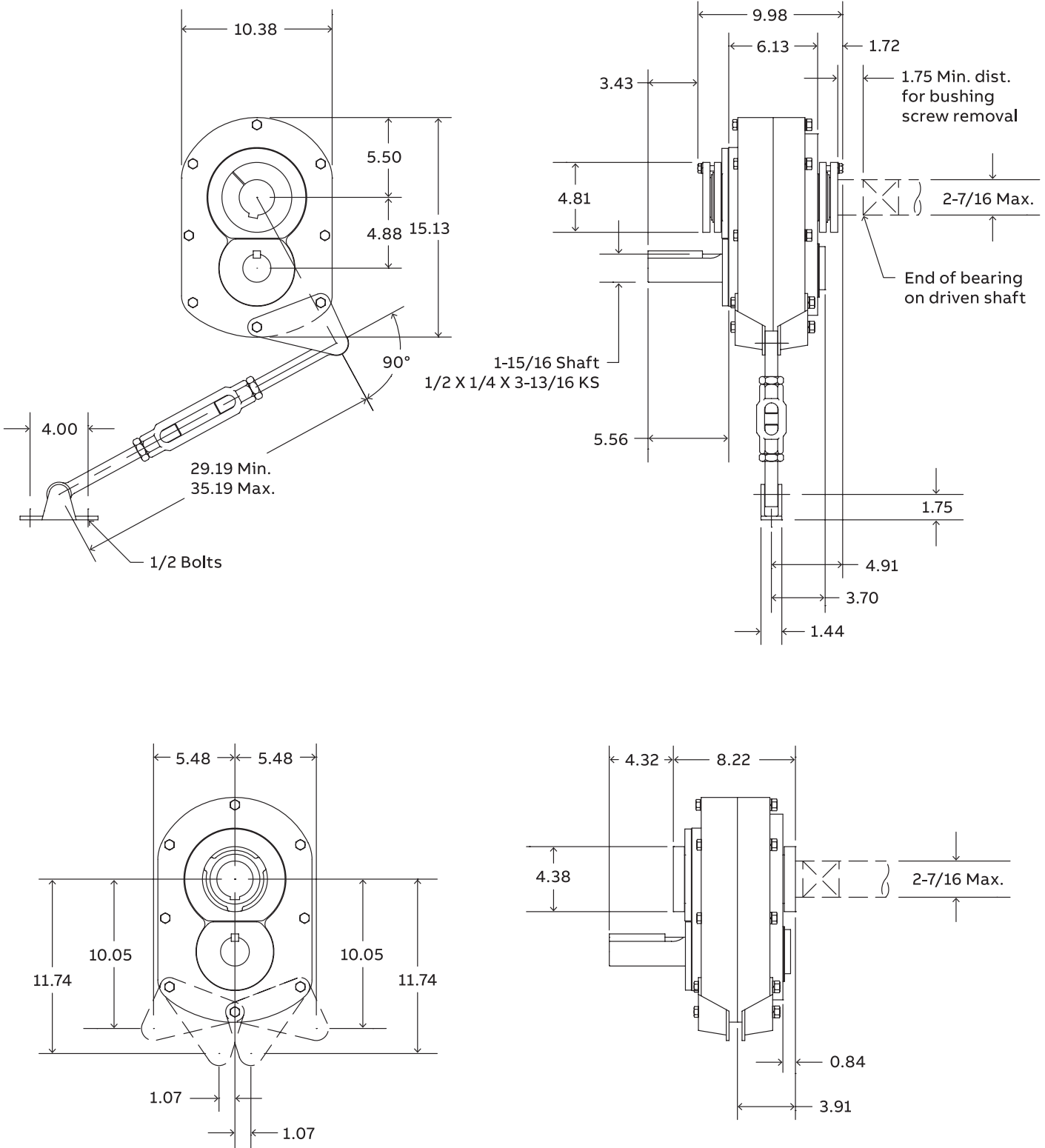
■ See pages G3-168 and G3-169 for reducer part numbers and drill and tap dimensions for flange mount TXT reducers. Available only as special factory order.

● Taper bushed reducers require bushing for all bore sizes.

♥ Use with taper bushed reducer only. See pages G3-171 and G3-172 for drill and tap information required to mount to reducer.

Selection and dimensions

Torque-Arm shaft mount speed reducers
 TXT405A – Single reduction taper bushed



All dimensions are in inches.

Selection and dimensions

Torque-Arm shaft mount speed reducers
TXT405A – Single reduction taper bushed

TXT405A Taper bushed reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT405AT | 254200 | 207S05 | 5.65 | 122 |

TXT405A Straight bore reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT405AS | 254204 | 207S05 | 5.65 | 122 |

Accessories for TXT405A reducers

| Description | Part number | Weight lbs. |
|--|---------------|-------------|
| 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 |
| TXT4S TA reducer belt guard (143T-286T) | 244397 | 54 |
| TXT4S 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 |
| TXT405 Lube kit | LUBEKITTXT405 | 12.7 |
| Dodge ability sensor | 750000 | 0.5 |

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 | 7.0 | 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 | 8.0 | 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.

○ Stock TXT Reducers are drilled for vertical mounting.

♣ Dodge standard belt guards will not fit this motor mount.

■ See pages G3-168 and G3-169 for reducer part numbers and drill and tap dimensions for flange mount TXT reducers. Available only as special factory order.

● Taper bushed reducers require bushing for all bore sizes.

♥ Use with taper bushed reducer only. See pages G3-171 and G3-172 for drill and tap information required to mount to reducer.

Table of Contents & Reference Guide

Selection and dimensions

Torque-Arm shaft mount speed reducers
 TXT5C – Double reduction taper bushed

Motorized Torque-Arm II

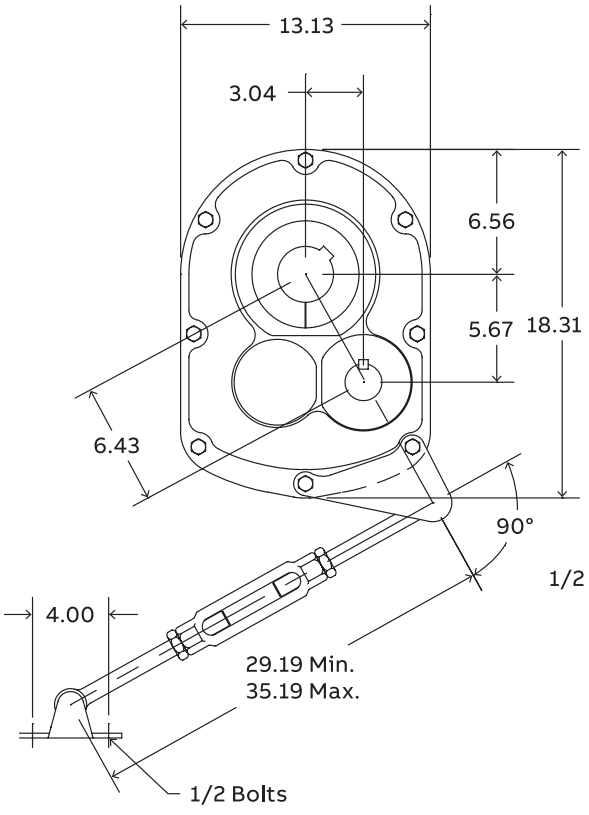
Torque-Arm II

Torque-Arm

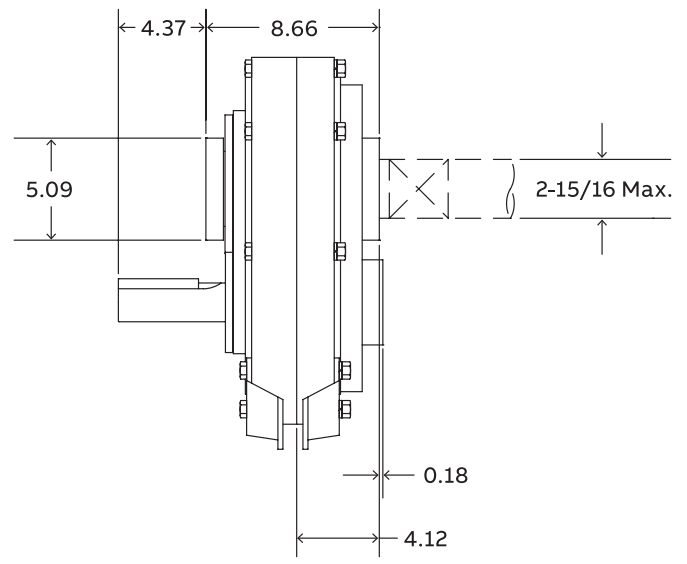
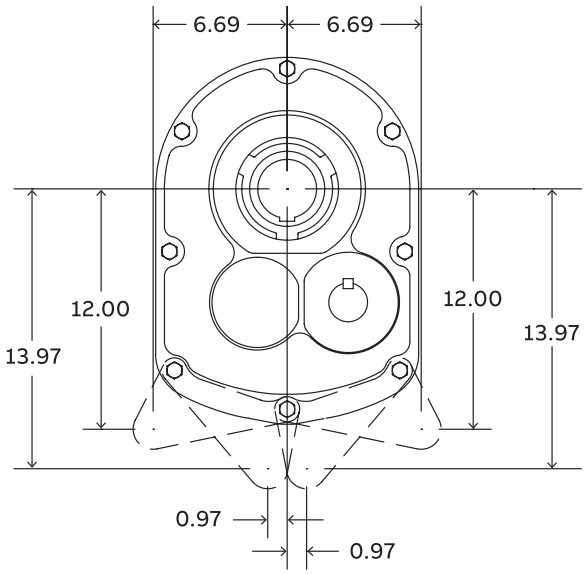
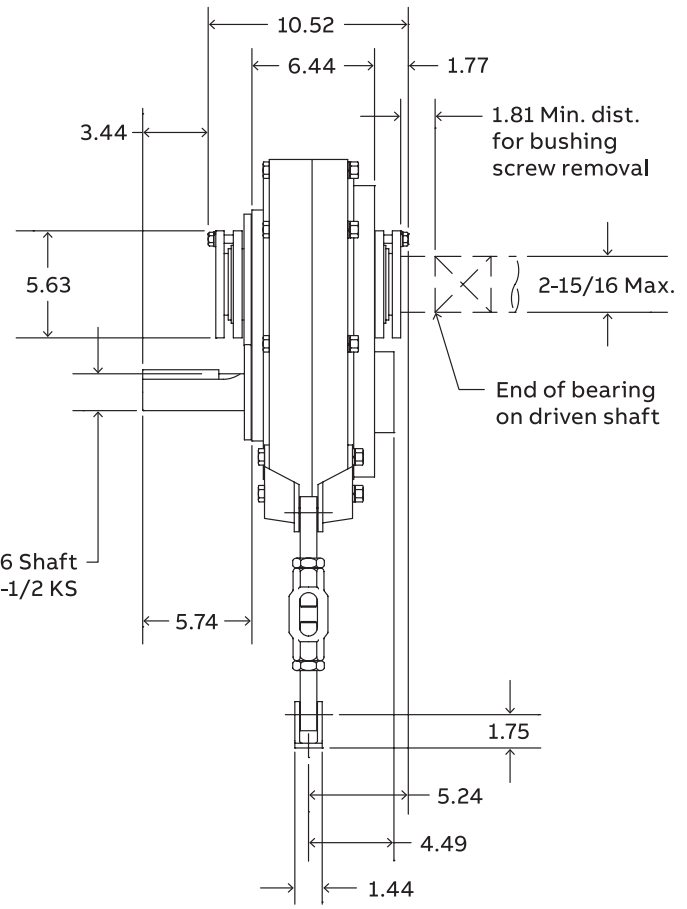
Engineering

Bulk Material Handling

Part Number Index



1-15/16 Shaft
 1/2 X 1/4 X 4-1/2 KS



All dimensions are in inches.

Selection and dimensions

Torque-Arm shaft mount speed reducers
TXT5C – Double reduction taper bushed

TXT5C Taper bushed reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT509CT | 245550 | 215D09 | 8.95 | 207 |
| TXT515CT | 245551 | 215D15 | 15.40 | 207 |
| TXT525CT | 245552 | 215D25 | 25.56 | 207 |

TXT5C Straight bore reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT509CS | 245562 ♣ | 215D09 | 8.95 | 207 |
| TXT515CS | 245563 | 215D15 | 15.40 | 207 |
| TXT525CS | 245564 | 215D25 | 25.56 | 207 |

Accessories for TXT5C reducers

| Description | Part number | Weight lbs. |
|--|-------------|-------------|
| 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 |
| TXT5D TA reducer belt guard (143T-286T) | 245387 | 75 |
| TXT5D 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 |
| TXT5 Lube kit | LUBEKITTXT5 | 18.5 |
| Dodge ability sensor | 750000 | 0.5 |

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 | 3.0 |
| 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 | 10.0 | 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 |

♣ Made to order

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

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

○ Stock TXT Reducers are drilled for vertical mounting.

♣ Dodge standard belt guards will not fit this motor mount.

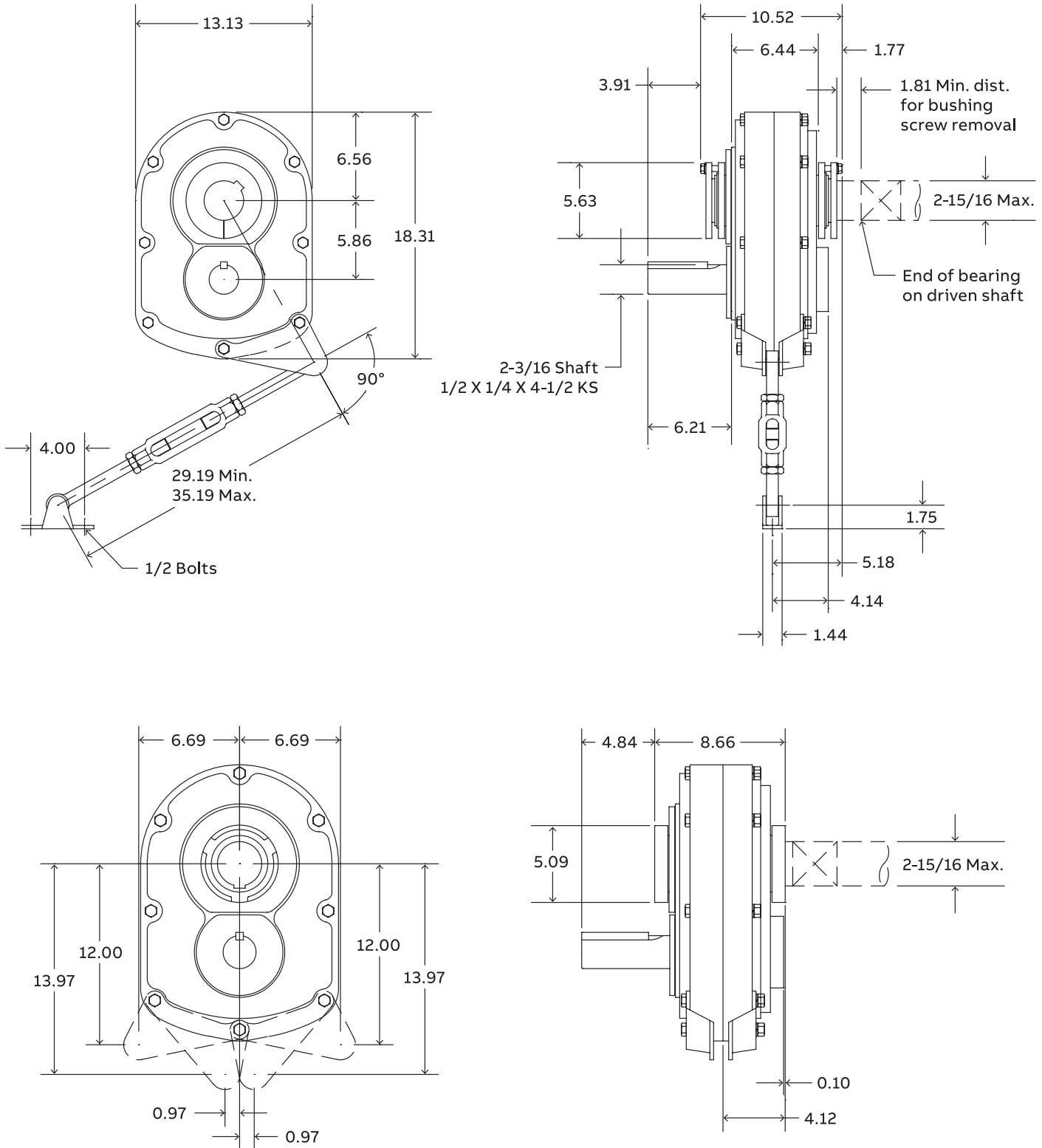
■ See pages G3-168 and G3-169 for reducer part numbers and drill and tap dimensions for flange mount TXT reducers. Available only as special factory order.

● Taper bushed reducers require bushing for all bore sizes.

♥ Use with taper bushed reducer only. See pages G3-171 and G3-172 for drill and tap information required to mount to reducer.

Selection and dimensions

Torque-Arm shaft mount speed reducers TXT505A – Single reduction taper bushed



All dimensions are in inches.

Selection and dimensions

Torque-Arm shaft mount speed reducers
TXT505A – Single reduction taper bushed

TXT505A Taper bushed reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT505AT | 255200 | 215S05 | 5.67 | 182 |

TXT505A Straight bore reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT505AS | 255204 | 215S05 | 5.67 | 182 |

Accessories for TXT505A reducers

| Description | Part number | Weight lbs. |
|--|---------------|-------------|
| 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 |
| TXT5S TA reducer belt guard (143T-286T) | 245389 | 59 |
| TXT5S 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 |
| TXT505 Lube kit | LUBEKITTXT505 | 18.5 |
| Dodge ability sensor | 750000 | 0.5 |

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 | 3.0 |
| 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 | 10.0 | 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 |

♣ Made to order

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

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

○ Stock TXT Reducers are drilled for vertical mounting.

♣ Dodge standard belt guards will not fit this motor mount.

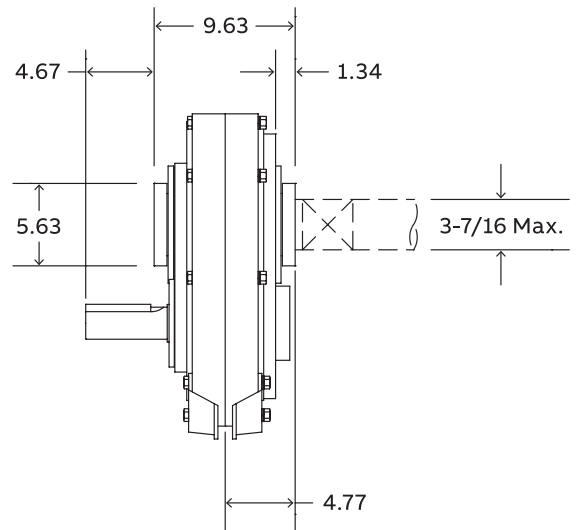
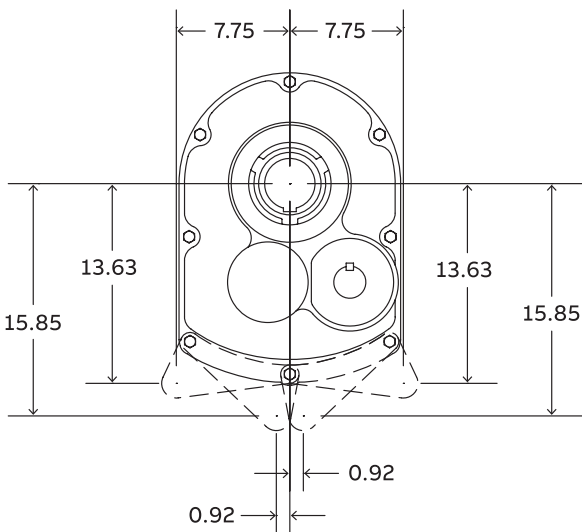
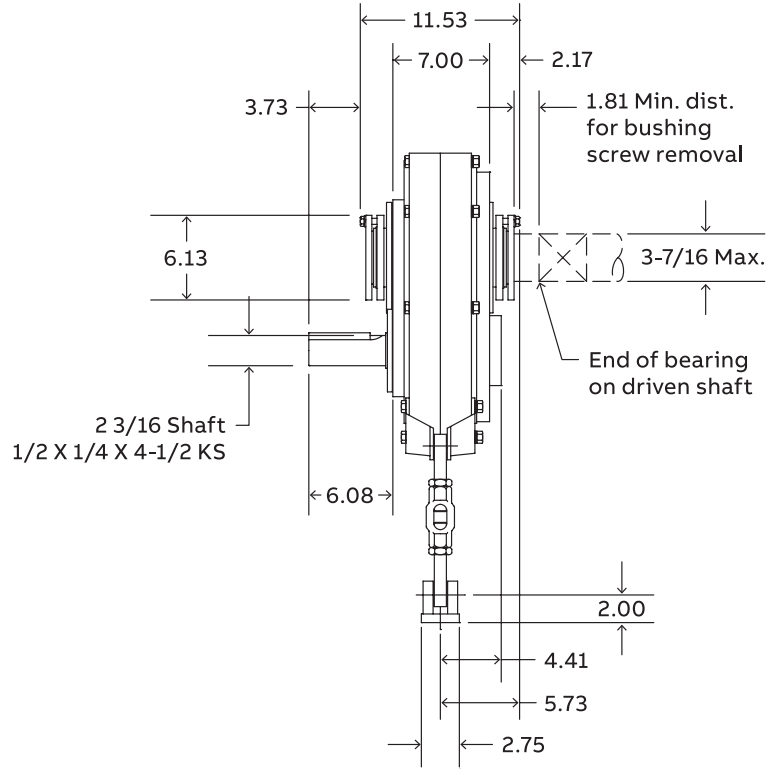
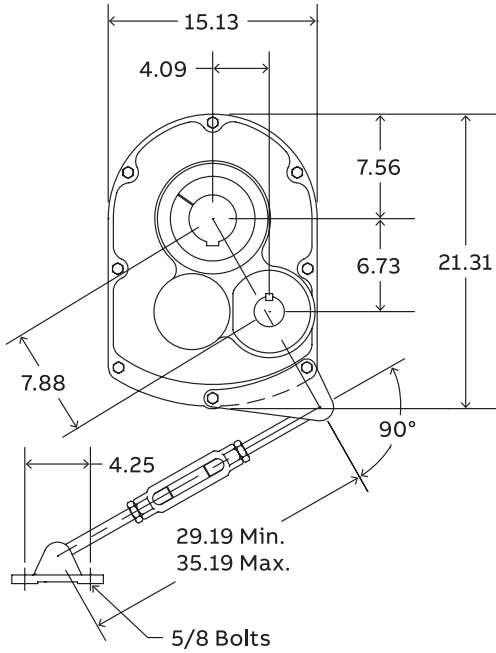
■ See pages G3-168 and G3-169 for reducer part numbers and drill and tap dimensions for flange mount TXT reducers. Available only as special factory order.

● Taper bushed reducers require bushing for all bore sizes.

♥ Use with taper bushed reducer only. See pages G3-171 and G3-172 for drill and tap information required to mount to reducer.

Selection and dimensions

Torque-Arm shaft mount speed reducers
 TXT6A – Double reduction taper bushed



Selection and dimensions

Torque-Arm shaft mount speed reducers
TXT6A – Double reduction taper bushed

TXT6A Taper bushed reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT609AT | 246149 ♣ | 307D09 | 9.20 | 285 |
| TXT615AT | 246150 | 307D15 | 15.33 | 285 |
| TXT625AT | 246151 | 307D25 | 25.13 | 285 |

TXT6A Straight bore reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT609AS | 246327 ♣ | 307D09 | 9.20 | 285 |
| TXT615AS | 246158 ♣ | 307D15 | 15.33 | 285 |
| TXT625AS | 246159 | 307D25 | 25.13 | 285 |

Accessories for TXT6A reducers

| Description | Part number | Weight lbs. |
|--|-------------|-------------|
| 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 |
| TXT6D TA reducer belt guard (143T-326T) | 246366 | 83 |
| TXT6D 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 |
| TXT6 Lube kit | LUBEKITXT6 | 20.8 |
| Dodge ability sensor | 750000 | 0.5 |

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 | 9.0 | - |
| 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 | 14.0 | 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 | 11.0 |

♣ Made to order

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

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

○ Stock TXT Reducers are drilled for vertical mounting.

♣ Dodge standard belt guards will not fit this motor mount.

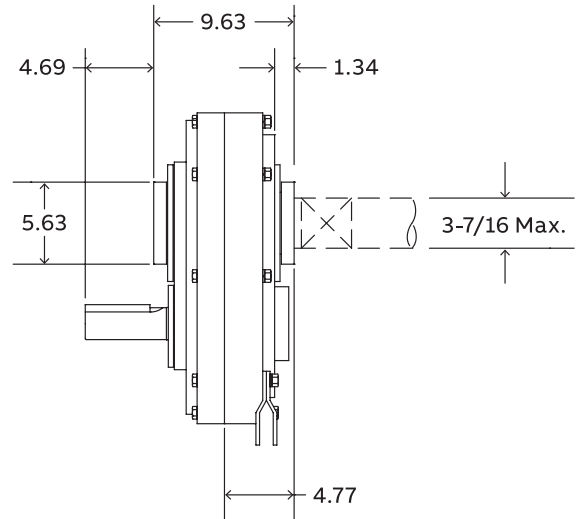
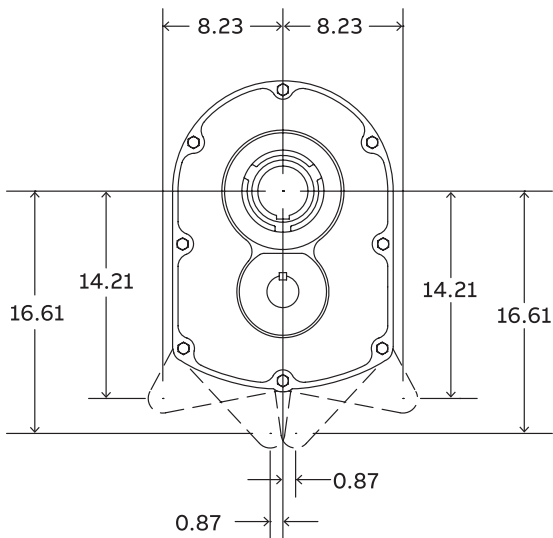
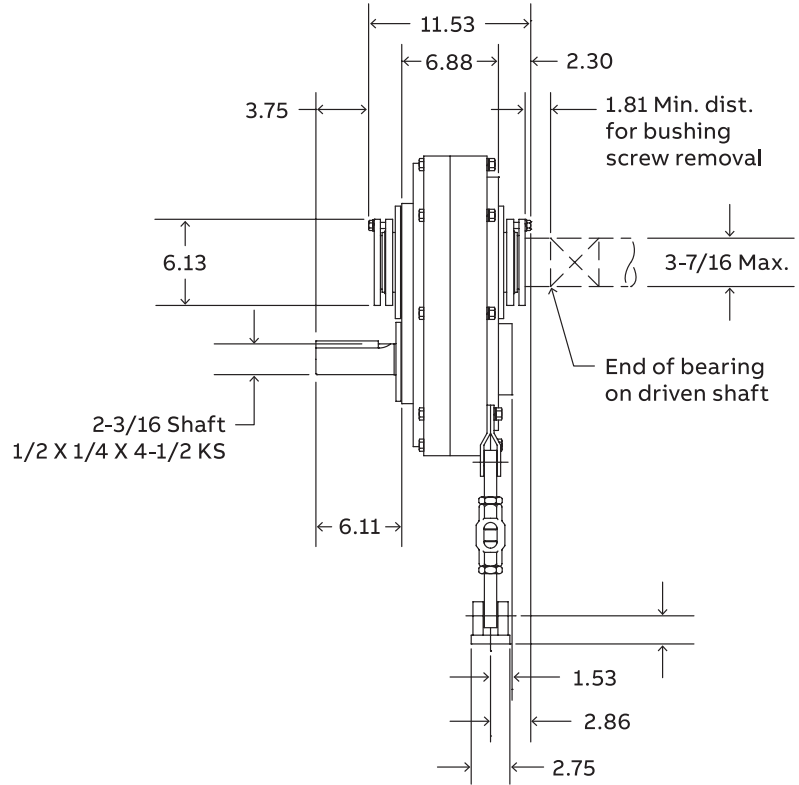
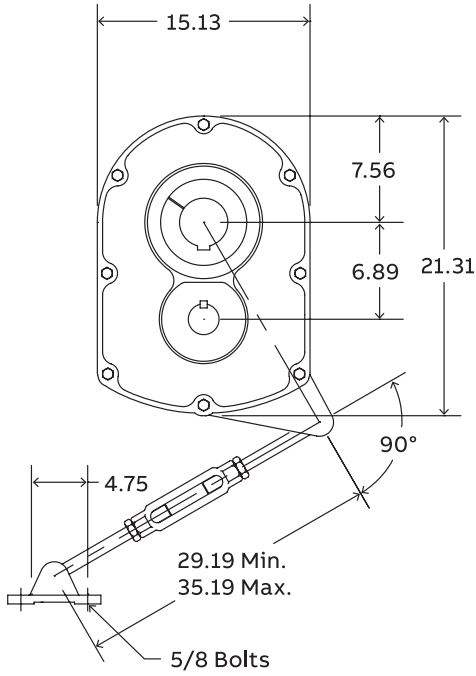
■ See pages G3-168 and G3-169 for reducer part numbers and drill and tap dimensions for flange mount TXT reducers. Available only as special factory order.

● Taper bushed reducers require bushing for all bore sizes.

♥ Use with taper bushed reducer only. See pages G3-171 and G3-172 for drill and tap information required to mount to reducer.

Selection and dimensions

Torque-Arm shaft mount speed reducers
TXT605 – Single reduction taper bushed



All dimensions are in inches.

Selection and dimensions

Torque-Arm shaft mount speed reducers
TXT605 – Single reduction taper bushed

TXT605 Taper bushed reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT605T | 246380 | 307S05 | 5.67 | 251 |

TXT605 Straight bore reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT605S | 246382 | 307S05 | 5.67 | 251 |

Accessories for TXT605 reducers

| Description | Part number | Weight lbs. |
|--|---------------|-------------|
| 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 |
| TXT6S TA reducer belt guard (143T-326T) | 246368 | 95 |
| TXT6S 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 |
| TXT605 Lube kit | LUBEKITTXT605 | 24.3 |
| Dodge ability sensor | 750000 | 0.5 |

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 | 9.0 | – |
| 3 | ▲ | 246283 | 246427 | 3/4 x 3/8 x 10-11/16 | 3/4 x 3/8 x 5-7/8 | 11.30 | 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 | 11.60 | 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 | 12.20 | 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 | 12.90 | 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 | 14.0 | 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 | 14.40 | 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 | 14.90 | 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 | 15.30 | 11.0 |

♣ Made to order

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

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

○ Stock TXT Reducers are drilled for vertical mounting.

♣ Dodge standard belt guards will not fit this motor mount.

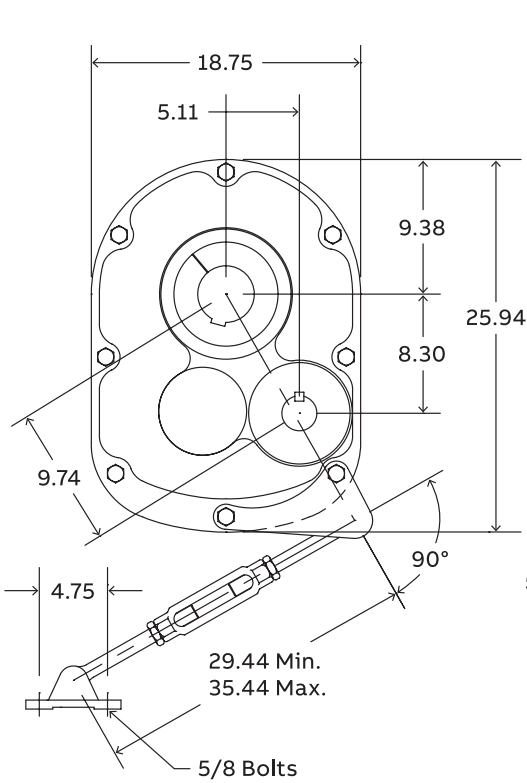
■ See pages G3-168 and G3-169 for reducer part numbers and drill and tap dimensions for flange mount TXT reducers. Available only as special factory order.

● Taper bushed reducers require bushing for all bore sizes.

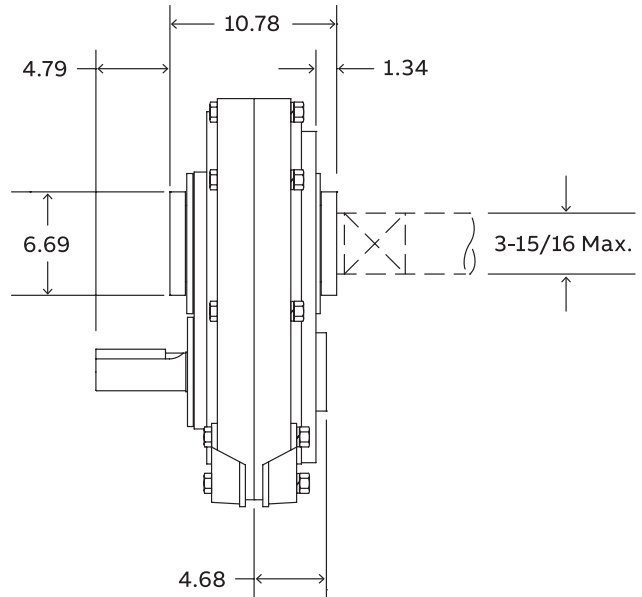
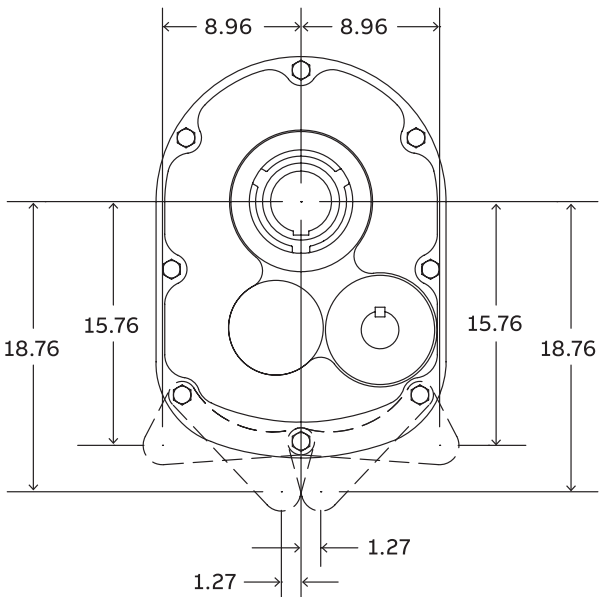
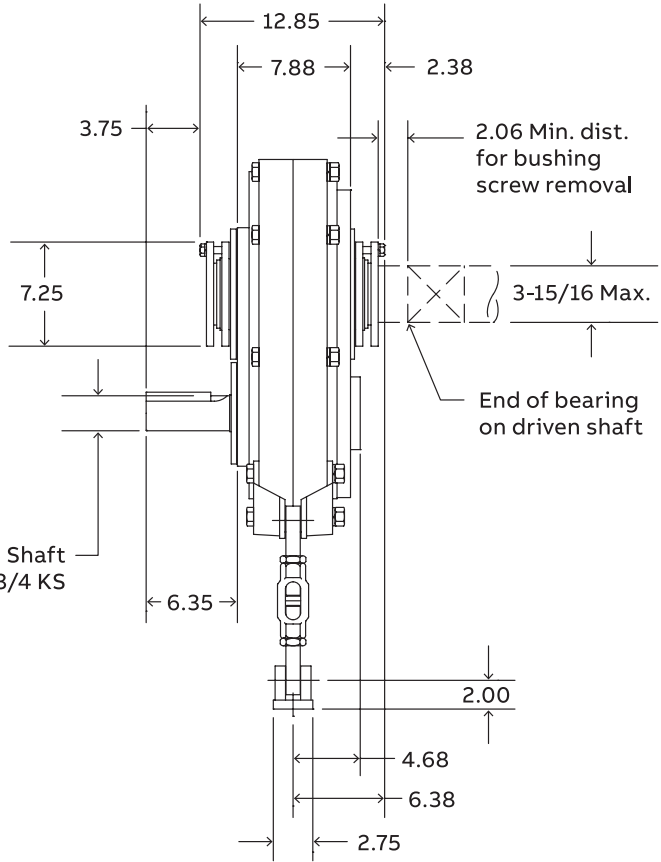
♥ Use with taper bushed reducer only. See pages G3-171 and G3-172 for drill and tap information required to mount to reducer.

Selection and dimensions

Torque-Arm shaft mount speed reducers
 TXT7A – Double reduction taper bushed



2-7/16 Shaft
 5/8 X 5/16 X 4-3/4 KS



Selection and dimensions

Torque-Arm shaft mount speed reducers
TXT7A – Double reduction taper bushed

TXT7A Taper bushed reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT709AT | 247159 | 315D09 | 9.61 | 462 |
| TXT715AT | 247160 | 315D15 | 15.23 | 462 |
| TXT725AT | 247161 | 315D25 | 24.59 | 462 |

TXT7A Straight bore reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT709AS | 247327 ♣ | 315D09 | 9.61 | 462 |
| TXT715AS | 247168 ♣ | 315D15 | 15.23 | 462 |
| TXT725AS | 247169 | 315D25 | 24.59 | 462 |

Accessories for TXT7A reducers

| Description | Part number | Weight lbs. |
|--|-------------|-------------|
| 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 |
| TXT7D TA reducer belt guard (143T-365T) | 247390 | 90 |
| TXT7D 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 |
| TXT7 Lube kit | LUBEKITTXT7 | 34.7 |
| Dodge ability sensor | 750000 | 0.5 |

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 | 9.0 |
| 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 | 23.0 | 14.0 |
| 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.

○ Stock TXT Reducers are drilled for vertical mounting.

♣ Dodge standard belt guards will not fit this motor mount.

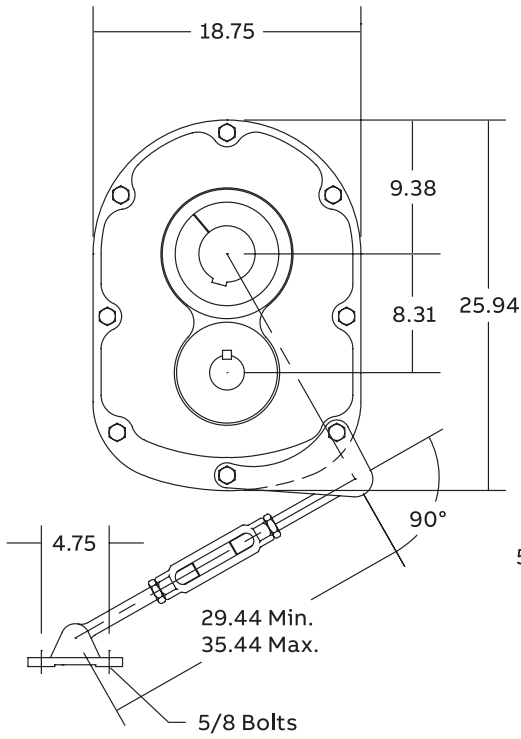
■ See pages G3-168 and G3-169 for reducer part numbers and drill and tap dimensions for flange mount TXT reducers. Available only as special factory order.

● Taper bushed reducers require bushing for all bore sizes.

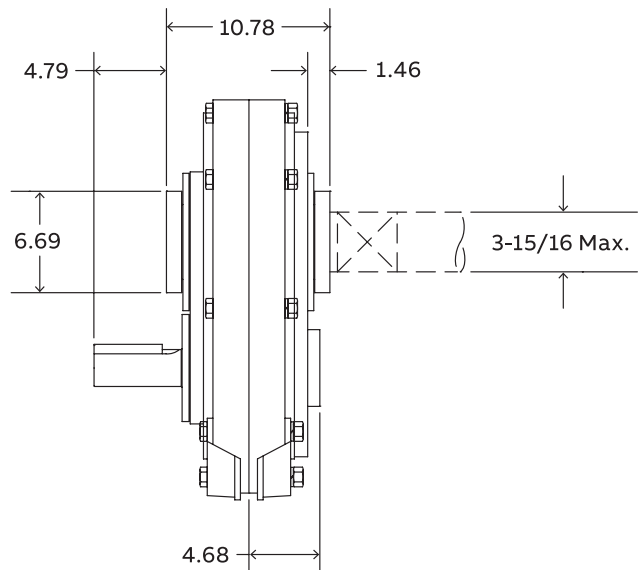
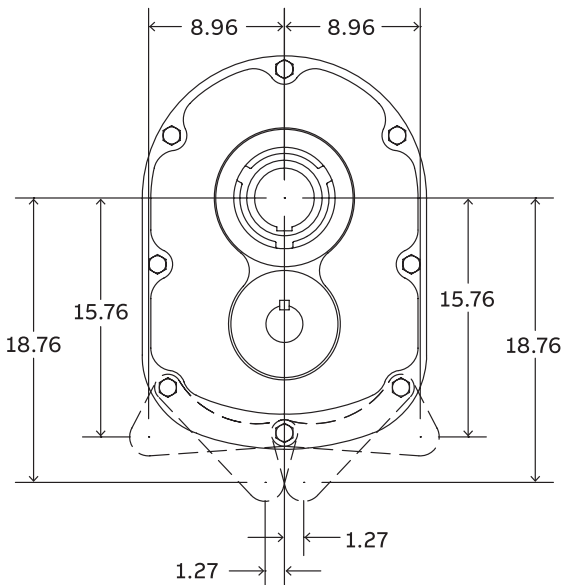
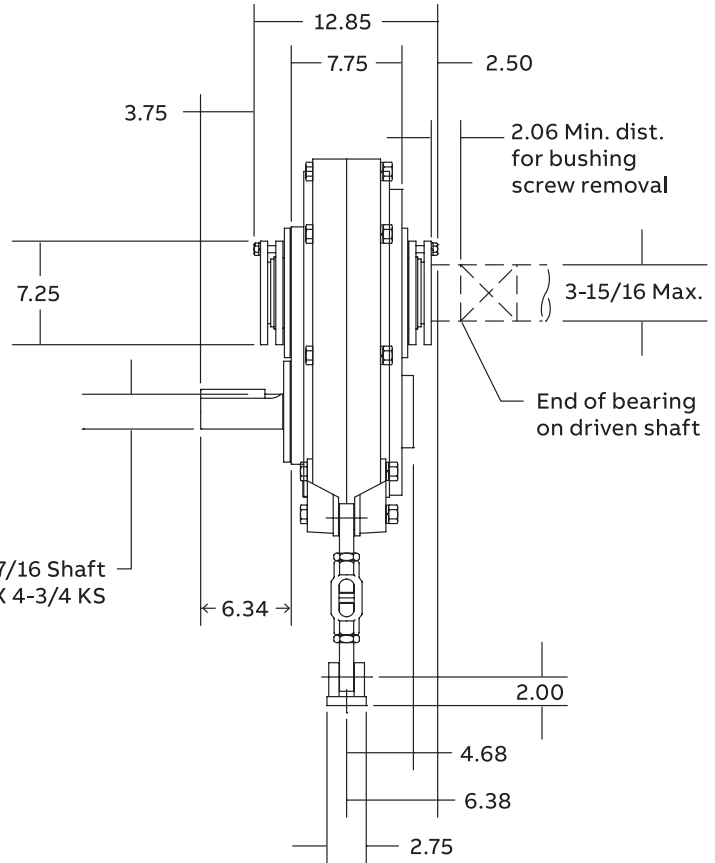
♥ Use with taper bushed reducer only. See pages G3-171 and G3-172 for drill and tap information required to mount to reducer.

Selection and dimensions

Torque-Arm shaft mount speed reducers
TXT705 – Single reduction taper bushed



2 7/16 Shaft
5/8 X 5/16 X 4-3/4 KS



All dimensions are in inches.

Selection and dimensions

Torque-Arm shaft mount speed reducers
TXT705 – Single reduction taper bushed

TXT705 Taper bushed reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT705T | 247285 ♣ | 315S05 | 5.36 | 410 |

TXT705 Straight bore reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT705S | 247287 ♣ | 315S05 | 5.36 | 410 |

Accessories for TXT705 reducers

| Description | Part number | Weight lbs. |
|--|---------------|-------------|
| 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 | 2.80 |
| TXT7S TA reducer belt guard (143T-365T) | 247392 | 112 |
| TXT7S 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 |
| TXT705 Lube kit | LUBEKITTXT705 | 39.3 |
| Dodge ability sensor | 750000 | 0.5 |

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 | 9.0 |
| 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 | 23.0 | 14.0 |
| 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.

○ Stock TXT Reducers are drilled for vertical mounting.

♣ Dodge standard belt guards will not fit this motor mount.

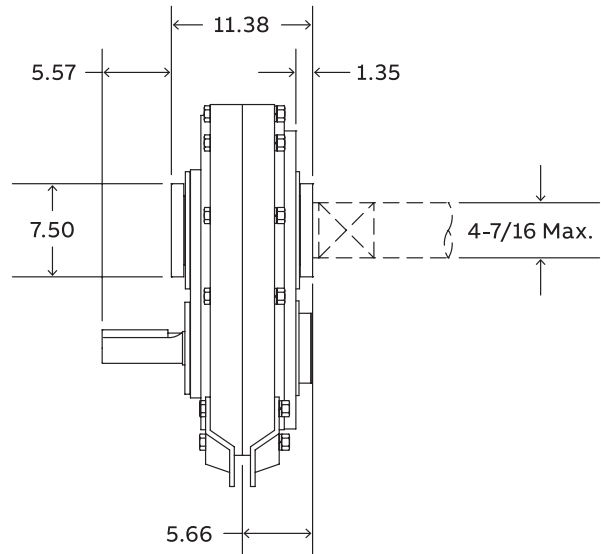
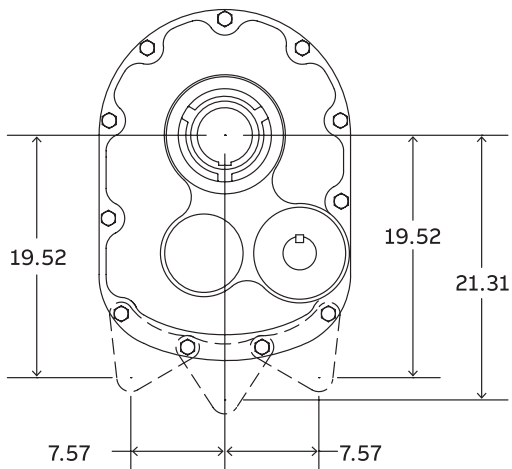
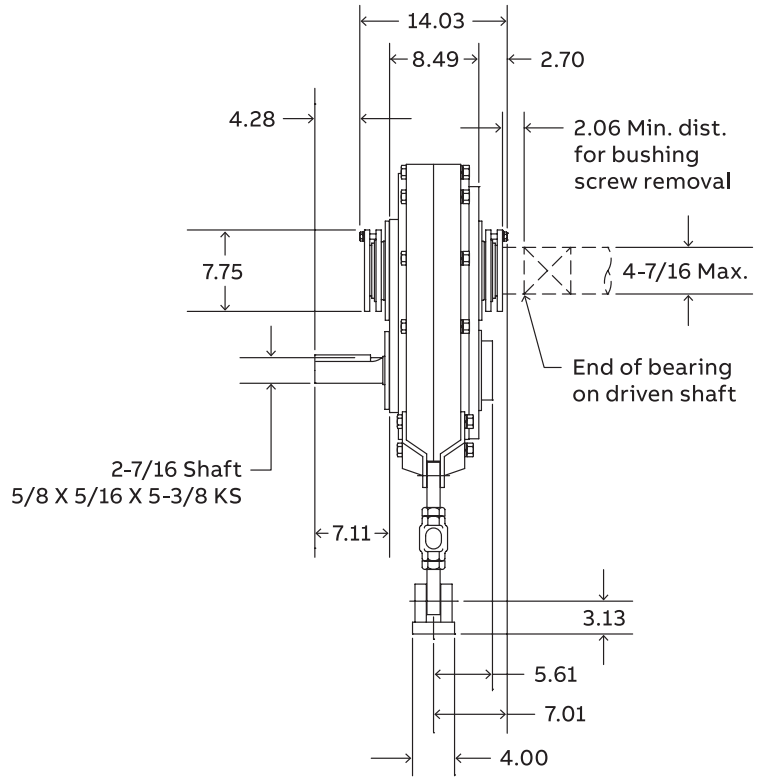
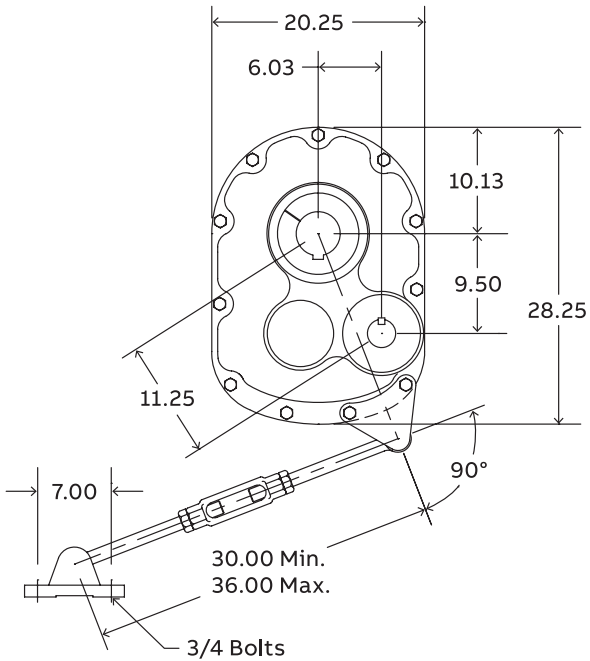
■ See pages G3-168 and G3-169 for reducer part numbers and drill and tap dimensions for flange mount TXT reducers. Available only as special factory order.

● Taper bushed reducers require bushing for all bore sizes.

♥ Use with taper bushed reducer only. See pages G3-171 and G3-172 for drill and tap information required to mount to reducer.

Selection and dimensions

Torque-Arm shaft mount speed reducers
 TXT8A – Double reduction taper bushed



Selection and dimensions

Torque-Arm shaft mount speed reducers
TXT8A – Double reduction taper bushed

TXT8A Taper bushed reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT815AT | 248279 | 407D15 | 15.08 | 633 |
| TXT825AT | 248280 | 407D25 | 24.62 | 633 |

TXT8A Straight bore reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT815AS | 248283 ♣ | 407D15 | 15.08 | 633 |
| TXT825AS | 248284 | 407D25 | 24.62 | 633 |

Accessories for TXT8A reducers

| Description | Part number | Weight lbs. |
|---|-------------|-------------|
| TA8 Standard motor mount (213T-365T) | 248401 | 119 |
| TAB8 Bottom motor mount (213T-365T) ♣ ♣ | 248406 | 120 |
| TXT8 Backstop assembly | 249260 | 3.8 |
| TXT8D TA reducer belt guard (213T-365T) | 248395 | 107 |
| TXT8 Cooling fan assembly | 272327 | 9 |
| TXT8 Taconite auxiliary seal kit ♥ | 272452 | 26.3 |
| TXT8 Lube kit | LUBEKITXT8 | 40.5 |
| Dodge ability sensor | 750000 | 0.5 |

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 | 8.0 |
| 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.

○ Stock TXT Reducers are drilled for vertical mounting.

♣ Dodge standard belt guards will not fit this motor mount.

■ See pages G3-168 and G3-169 for reducer part numbers and drill and tap dimensions for flange mount TXT reducers. Available only as special factory order.

● Taper bushed reducers require bushing for all bore sizes.

♥ Use with taper bushed reducer only. See pages G3-171 and G3-172 for drill and tap information required to mount to reducer.

Table of Contents & Reference Guide

Selection and dimensions

Torque-Arm shaft mount speed reducers
 TXT9A – Double reduction taper bushed

Motorized Torque-Arm II

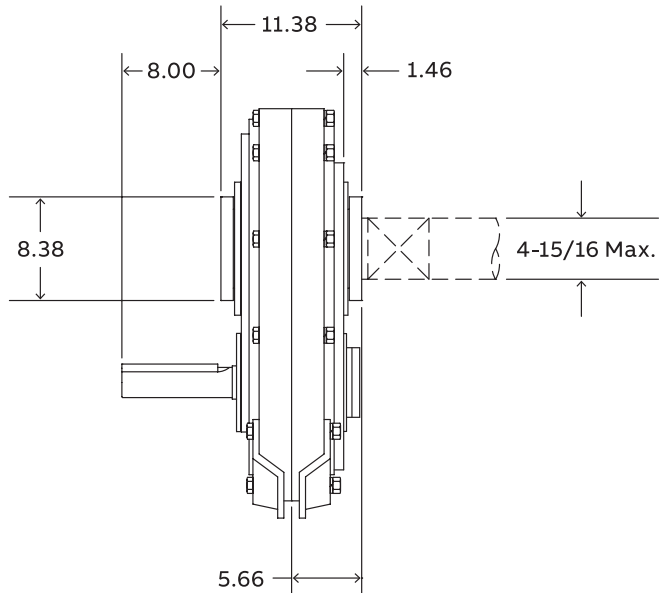
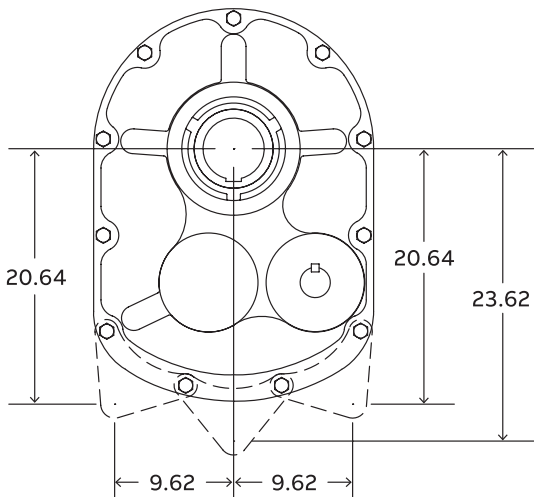
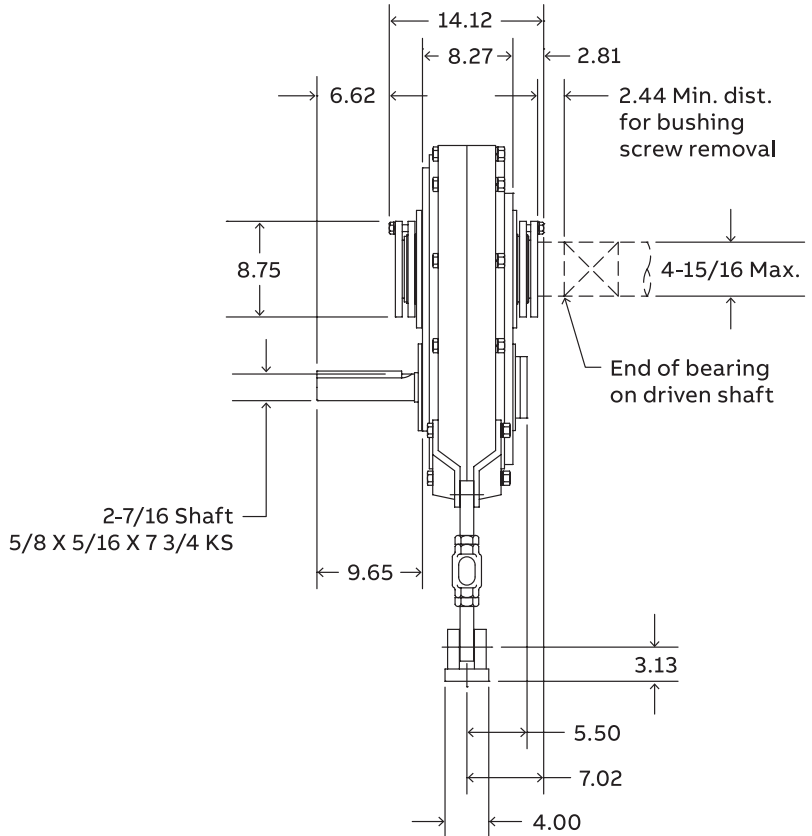
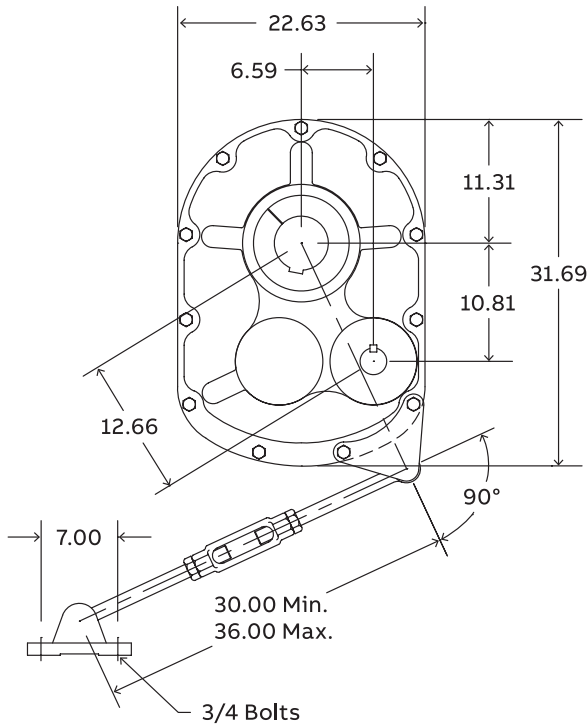
Torque-Arm II

Torque-Arm

Engineering

Bulk Material Handling

Part Number Index



All dimensions are in inches.

Selection and dimensions

Torque-Arm shaft mount speed reducers
TXT9A – Double reduction taper bushed

TXT9A Taper bushed reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT915AT | 249269 | 415D15 | 15.12 | 760 |
| TXT926AT | 249270 | 415D26 | 25.66 | 760 |

TXT9A Straight bore reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT915AS | 249273 ♣ | 415D15 | 15.12 | 760 |
| TXT926AS | 249274 | 415D26 | 25.66 | 760 |

Accessories for TXT9A reducers

| Description | Part number | Weight lbs. |
|---|-------------|-------------|
| 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 |
| TXT9D TA reducer belt guard (213T-365T) | 249395 | 125 |
| TXT9 Cooling fan assembly | 272328 | 15 |
| TXT9 Taconite auxiliary seal kit ♥ | 272453 | 32.6 |
| TXT9 Lube kit | LUBEKITXT9 | 53.2 |
| Dodge ability sensor | 750000 | 0.5 |

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.

○ Stock TXT Reducers are drilled for vertical mounting.

♣ Dodge standard belt guards will not fit this motor mount.

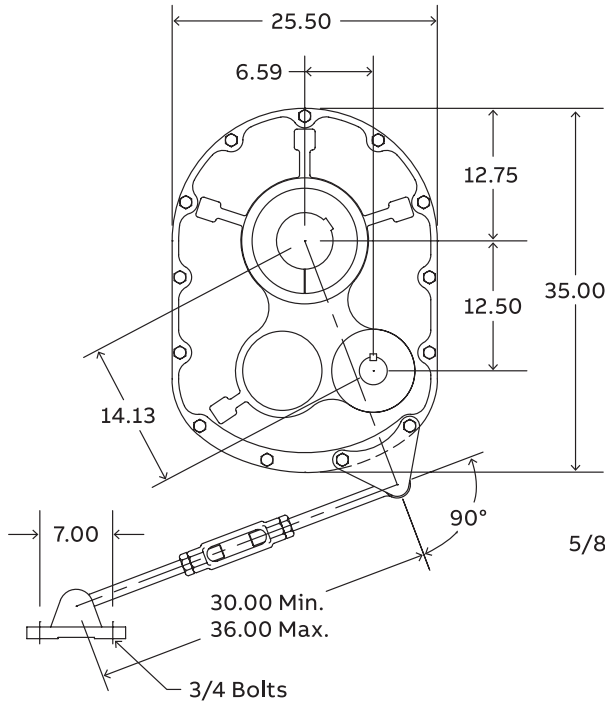
■ See pages G3-168 and G3-169 for reducer part numbers and drill and tap dimensions for flange mount TXT reducers. Available only as special factory order.

● Taper bushed reducers require bushing for all bore sizes.

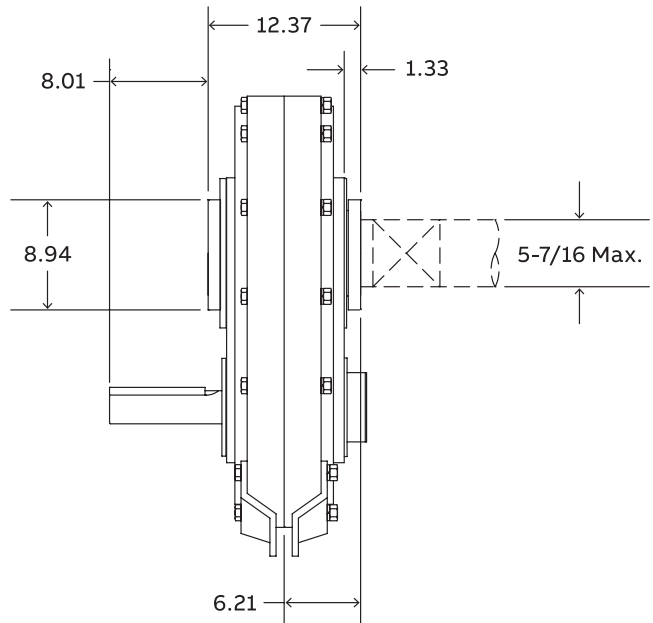
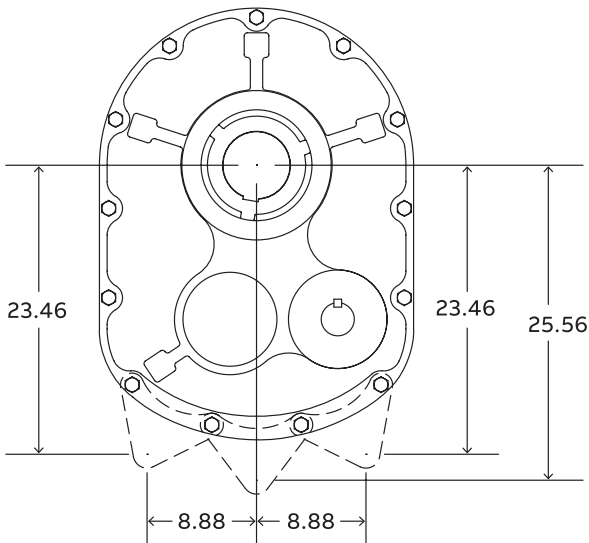
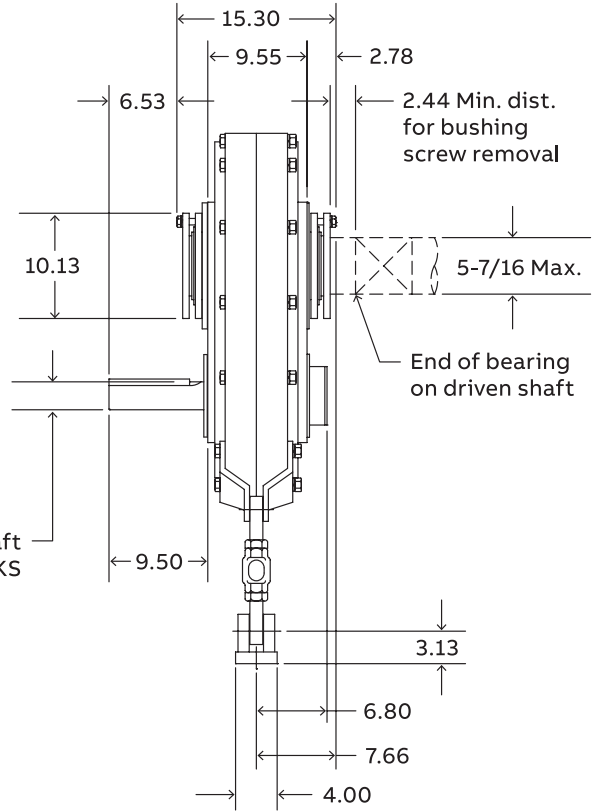
♥ Use with taper bushed reducer only. See pages G3-171 and G3-172 for drill and tap information required to mount to reducer.

Selection and dimensions

Torque-Arm shaft mount speed reducers
TXT10A – Double reduction taper bushed



2 11/16 Shaft
5/8 X 5/16 X 7-7/8 KS



Selection and dimensions

Torque-Arm shaft mount speed reducers
TXT10A – Double reduction taper bushed

TXT10A Taper bushed reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT1015AT | 272600 | 507D15 | 15.16 | 1020 |
| TXT1024AT | 272601 | 507D24 | 24.30 | 1020 |

TXT10A Straight bore reducers ■ ○

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT1015AS | 272604 ♣ | 507D15 | 15.16 | 1020 |
| TXT1024AS | 272605 ♣ | 507D24 | 24.30 | 1020 |

Accessories for TXT10A reducers

| Description | Part number | Weight lbs. |
|--|--------------|-------------|
| 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 | 5.60 |
| TXT10D TA reducer belt guard (254T-445T) | 250395 | 140 |
| TXT10 Cooling fan assembly | 272329 | 15 |
| TXT10 Taconite auxiliary seal kit ♥ | 272454 | 35.80 |
| TXT10 Lube kit | LUBEKITTXT10 | 89.1 |
| Dodge ability sensor | 750000 | 0.5 |

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 | 26.50 | – |
| 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 | 33.50 | 12.90 |
| 4-7/16 | ▲ | 272238 | 250421 | 1 x 1/2 x 14-1/16 | 1 x 1/2 x 12-3/8 | 38.40 | 31.40 |
| 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.

○ Stock TXT Reducers are drilled for vertical mounting.

♣ Dodge standard belt guards will not fit this motor mount.

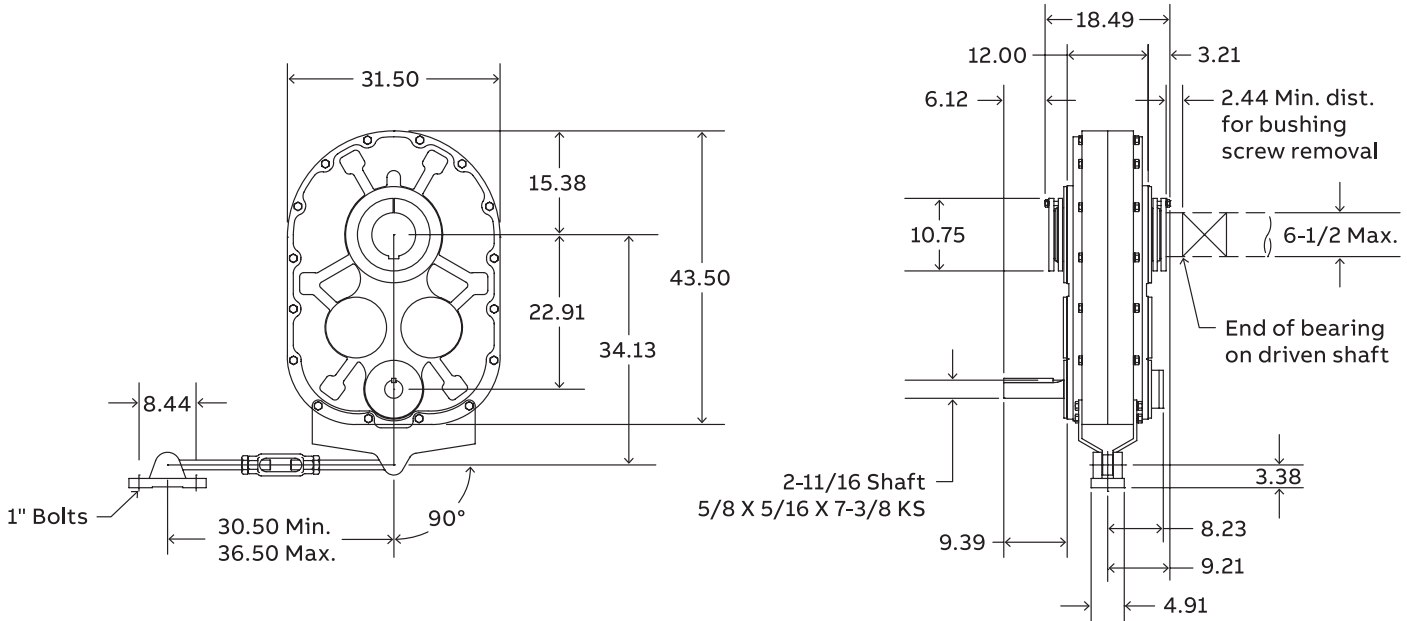
■ See pages G3-168 and G3-169 for reducer part numbers and drill and tap dimensions for flange mount TXT reducers. Available only as special factory order.

● Taper bushed reducers require bushing for all bore sizes.

♥ Use with taper bushed reducer only. See pages G3-171 and G3-172 for drill and tap information required to mount to reducer.

Selection and dimensions

Torque-Arm shaft mount speed reducers
TXT12 – Double reduction taper bushed



All dimensions are in inches.

TXT12 Taper bushed reducers □

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TXT1215TV | 272615 ♣ | 608D15 | 14.89 | 2042 |
| TXT1225TV | 272617 | 608D25 | 24.65 | 2042 |

Accessories for TXT12 reducers

| Description | Part number | Weight lbs. |
|--|--------------|-------------|
| TA12 Standard motor mount (286T-445T) | 272310 | 255 |
| TXT12 Backstop assembly | 250260 | 5.6 |
| TXT12 Cooling fan assembly | 272330 | 15 |
| Heat exchanger cooling package | 273933 | 55 |
| TXT12 Taconite auxiliary seal kit | 272455 | 67.8 |
| TXT12D TA reducer belt guard (320T-445T) ♣ | 272688 | 170 |
| TXT12 Lube kit | LUBEKITTXT12 | 202.5 |
| Dodge ability sensor | 750000 | 0.5 |

TXT12 Bushing assemblies ●

| 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.

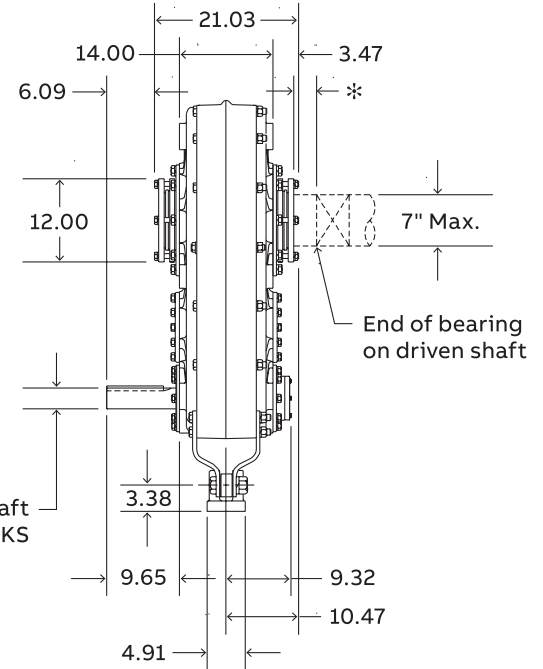
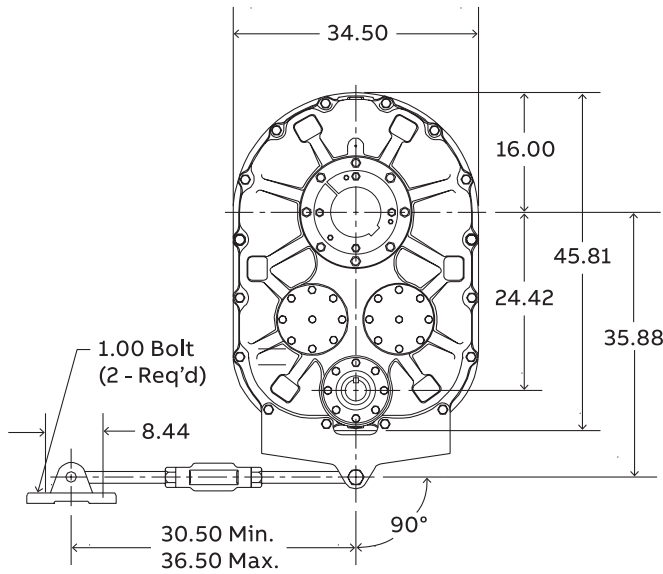
▲ Check the driven shaft and key for strength.

● Taper bushed reducers require bushing for all bore sizes.

□ Reducers are supplied already drilled and tapped for vertical mounting and flange mounting. See pages G3-171 and G3-172 for Flange Mounting dimensions

Selection and dimensions

Torque-Arm shaft mount speed reducers
TDT13 – Double reduction taper bushed



* 2.69" Minimum distance for bushing screw removal

All dimensions are in inches.

TDT13 Taper bushed reducers □

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TDT1325T | 272250 | 700D25 | 24.73 | 2476 |

Accessories for TDT13 reducers

| Description | Part number | Weight lbs. |
|---------------------------------------|-------------|-------------|
| TA13 Standard motor mount (324T-447T) | 272313 | 290 |
| TDT13 Backstop assembly | 272259 | 6.70 |
| TDT13 Cooling fan assembly | 272331 | 20 |
| Heat exchanger cooling package | 273933 | 55 |
| TDT13 Taconite auxiliary seal kit ♣ | 272456 | 87 |
| TDT13 Lube kit | LUBEKITXT13 | 223.8 |
| Dodge ability sensor | 750000 | 0.5 |

TDT13 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 |

♣ Made to order

† Shaft key furnished.

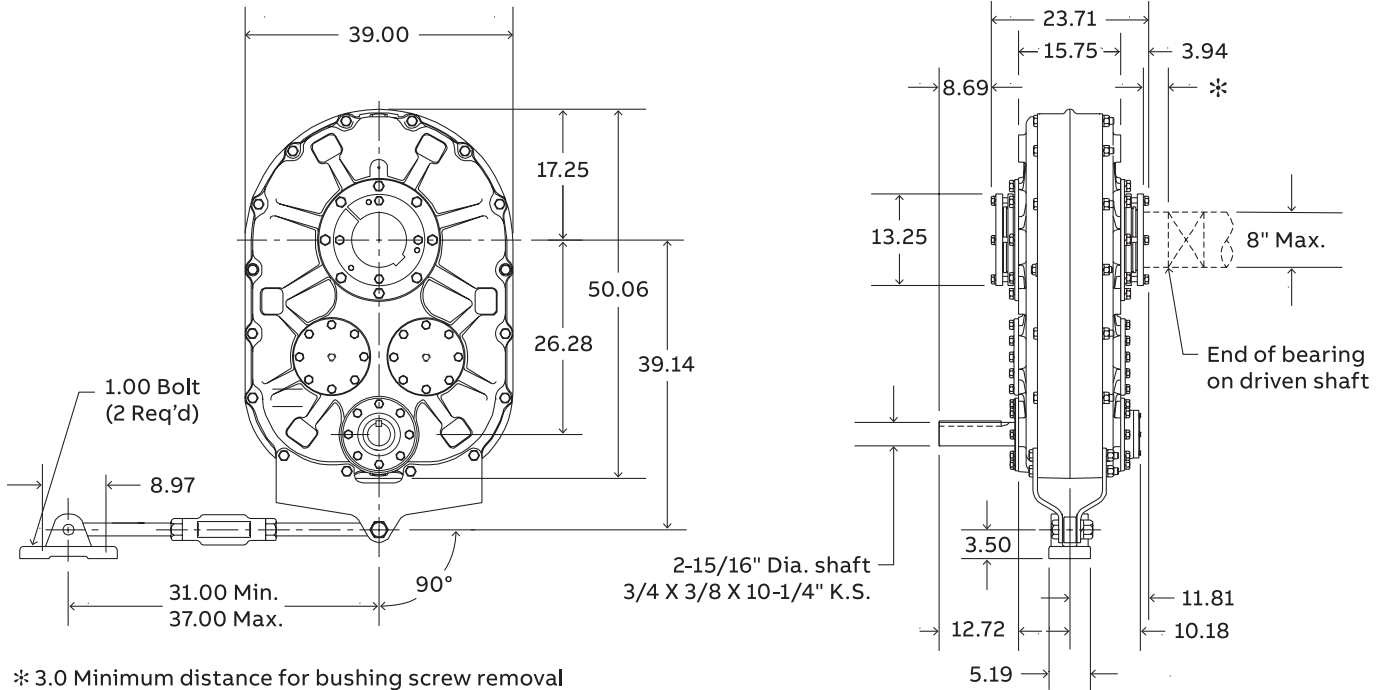
▲ Check the driven shaft and key for strength.

● Taper bushed reducers require bushing for all bore sizes.

□ Reducers are supplied already drilled and tapped for vertical mounting and flange mounting. See pages G3-171 and G3-172 for Flange Mounting dimensions

Selection and dimensions

Torque-Arm shaft mount speed reducers
TDT14 – Double reduction taper bushed



All dimensions are in inches.

TDT14 Taper bushed reducers □

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TDT1425T | 272150 ♣ | 800D25 | 24.80 | 3436 |

Accessories for TDT14 reducers

| Description | Part number | Weight lbs. |
|---------------------------------------|-------------|-------------|
| TA14 Standard motor mount (324T-447T) | 272318 | 295 |
| TDT14 Backstop Assembly | 272293 | 13.4 |
| TDT14 Cooling fan assembly | 272332 | 20 |
| Heat exchanger cooling package | 273933 | 55 |
| TDT14 Taconite auxiliary seal kit ♣ | 272457 | 131 |
| TDT14 Lube kit | LUBEKITXT14 | 307.8 |
| Dodge ability sensor | 750000 | 0.5 |

TDT14 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.

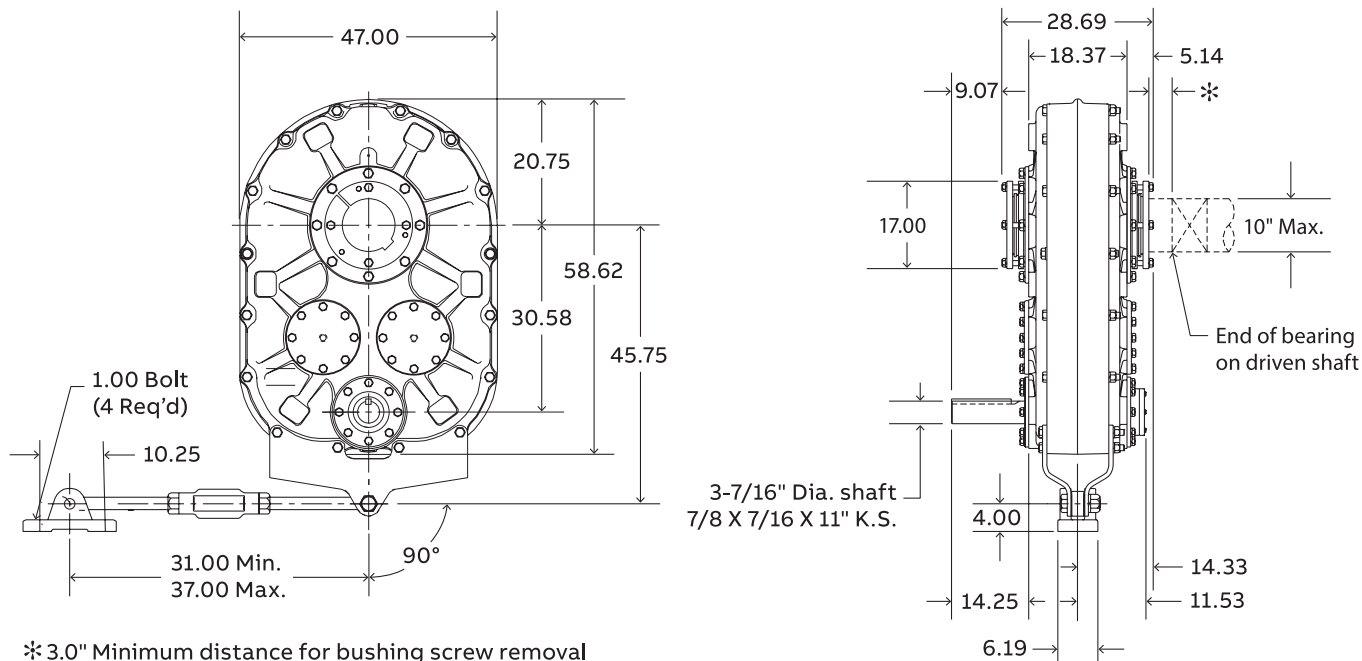
▲ Check the driven shaft and key for strength.

● Taper bushed reducers require bushing for all bore sizes.

□ Reducers are supplied already drilled and tapped for vertical mounting and flange mounting. See pages G3-171 and G3-172 for Flange Mounting dimensions

Selection and dimensions

Torque-Arm shaft mount speed reducers
TDT15 – Double reduction taper bushed



* 3.0" Minimum distance for bushing screw removal

All dimensions are in inches.

TDT15 Taper bushed reducers □

| Reducer size | Part number | AGMA code | Actual ratio | Weight lbs. |
|--------------|-------------|-----------|--------------|-------------|
| TDT1530T | 272370 ♣ | 1000D30 | 30.64 | 5622 |

Accessories for TDT15 reducers

| Description | Part number | Weight lbs. |
|---|-------------|-------------|
| TA15 Standard motor mount (405T-449T) ♣ | 272392 | 300 |
| TDT15 Backstop assembly | 272293 | 13.40 |
| TDT15 Cooling fan assembly | 272333 | 23 |
| Heat exchanger cooling package | 273933 | 55 |
| TDT15 Taconite auxiliary seal kit ♣ | 272458 | 180 |
| TDT15 Lube kit | LUBEKITXT15 | 575.1 |
| Dodge ability sensor | 750000 | 0.5 |

TDT15 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.

● Taper bushed reducers require bushing for all bore sizes.

□ Reducers are supplied already drilled and tapped for vertical mounting and flange mounting. See pages G3-171 and G3-172 for Flange Mounting dimensions

Modifications and 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 | Backstop | Taconite auxiliary seals | Belt guards |
|-------------|--------------|-----------|----------------------------------|------------------------------|--------------|---------------|---------------|----------------|-------------|----------|--------------------------|-------------|
| TXT1 | 1-7/16" | 107 | 4.15 | 4.49 | 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 |
| TXT3 | 2-3/16" | 203 | 12.7 | 11.7 | 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 |
| TXT5 | 2-15/16" | 215 | 29.9 | 25.0 | 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 |
| TXT7 | 3-15/16" | 315 | 72.3 | 87.4 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| TXT8 | 4-7/16" | 407 | 106.9 | 111.0 | Yes | Yes | - | Yes | Yes | Yes | Yes | Yes |
| TXT9 | 4-15/16" | 415 | 154.7 | 140.0 | Yes | Yes | - | Yes | Yes | Yes | Yes | Yes |
| TXT10 | 5-7/16" | 507 | 216.0 | - | Yes | Yes | - | Yes | Yes | Yes | Yes | Yes |
| TXT12 | 6-1/2" | 608 | 275.0 | - | Yes | - | - | Yes | Yes | Yes | Yes | Yes |
| TDT13 | 7" | 700 | 374.0 | - | Yes | - | - | Yes | Yes | Yes | Yes | Yes |
| TDT14 | 8" | 800 | 561.0 | - | Yes | - | - | Yes | Yes | Yes | Yes | Yes |
| TDT15 | 10" | 1000 | - | - | Yes | - | - | Yes | Yes | Yes | Yes | 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 | Taconite auxiliary seals | Belt guards |
|--------------|-----------|----------------------------------|------------------------------|---------------|--------------|---------|-------------|--------------------------|-------------|
| SCXT1 | 107 | 4.15 | 4.49 | Yes | Yes | Yes | Yes | Yes | Yes |
| SCXT2 | 115 | 7.52 | 7.70 | Yes | Yes | Yes | Yes | Yes | Yes |
| SCXT3 | 203 | 12.70 | 11.70 | Yes | Yes | Yes | Yes | Yes | Yes |
| SCXT4 | 207 | 19.30 | 19.60 | Yes | Yes | Yes | Yes | Yes | Yes |
| SCXT5 | 215 | 29.90 | 25.00 | Yes | Yes | Yes | Yes | Yes | Yes |
| SCXT6 | 307 | 50.30 | 51.60 | Yes | Yes | Yes | Yes | Yes | Yes |
| SCXT7 | 315 | 72.30 | 87.40 | Yes | Yes | Yes | Yes | Yes | Yes |
| SCXT8 | 407 | 106.90 | 111.00 | - | Yes | Yes | Yes | Yes | Yes |

Table 7 - NEMA Motor information (1750 RPM)

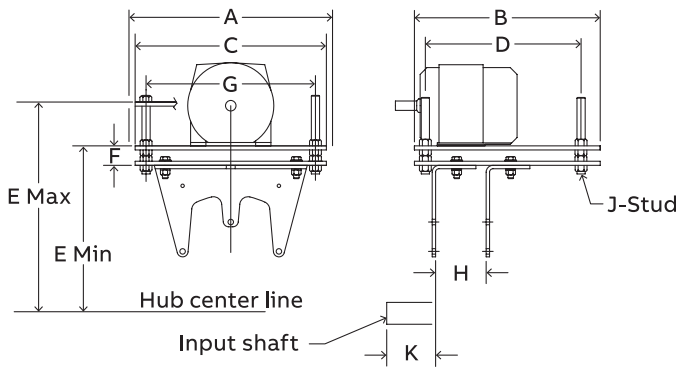
| Horsepower | NEMA motor frame | Shaft diameter | Minimum sheave diameters |
|------------|------------------|----------------|--------------------------|
| 1 | 143T | 7/8 | 2.2 |
| 1-1/2 | 145T | 7/8 | 2.4 |
| 2 | 145T | 7/8 | 2.4 |
| 3 | 182T | 1-1/8 | 2.4 |
| 5 | 184T | 1-1/8 | 3.0 |
| 7-1/2 | 213T | 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 |

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 |

Modifications and Accessories

Torque-Arm shaft mount speed reducers Motor mounts



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 ◆ | | G | H | J | K |
|-------------------|---------------|-----|--------------|------------------|-------|-------|-------|-------|-------|-------|-------|------|---------|------|
| | | | | | | | | | Min | Max | | | | |
| TA1M | 241391 | 37 | TXT1A | 56T - 215T | 14.63 | 11.00 | 13.50 | 9.25 | 10.03 | 14.18 | 12.00 | 3.38 | 5/8 x 7 | 3.88 |
| | | | TXT2A | | | | | | 10.59 | 14.75 | | | | 4.18 |
| TA3M | 243391 | 40 | TXT3B | 56T - 215T | 14.63 | 11.00 | 13.50 | 9.25 | 11.59 | 15.78 | 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 | 15.50 | | 3/4 x 8 | |
| TA4M | 244391 | 75 | TXT4B | 143T - 286T | 18.63 | 17.00 | 17.50 | 14.25 | 11.96 | 16.73 | 15.50 | 4.63 | 3/4 x 8 | 6.13 |
| TA5M | 245391 | 76 | TXT5C | 143T - 286T | 18.63 | 17.00 | 17.50 | 14.25 | 12.53 | 17.28 | 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 | 17.50 | | 3/4 x 8 | |
| TA6M | 246391 | 99 | TXT6A | 143T - 326T | 20.50 | 18.50 | 19.25 | 16.50 | 14.56 | 19.31 | 17.50 | 4.50 | 3/4 x 8 | 7.31 |
| TA7M | 247395 | 110 | TXT7A | 143T - 365T | 22.50 | 19.00 | 21.25 | 16.50 | 17.62 | 22.13 | 19.25 | 4.75 | 1 x 9 | 7.81 |

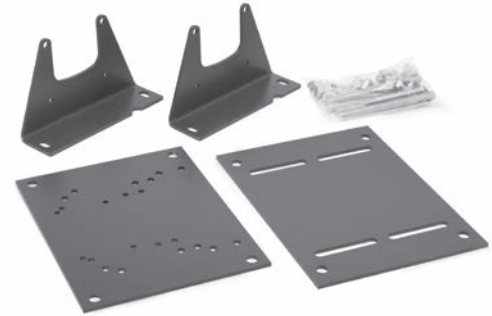
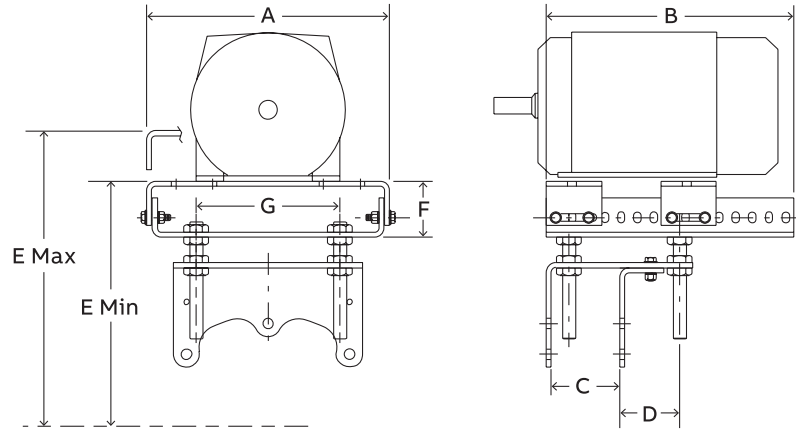
V-belt drive center distances for TA1M thru TA7M Torque-Arm motor mounts

| Motor mount no. | Reducer size | Center distances for various NEMA motor frames | | | | | | | | | | | | | | | |
|-----------------|--------------|--|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|
| | | 56T | | 143T&145T | | 182T&184T | | 213T&215T | | 254T&256T | | 284T&286T | | 324T&326T | | 364T&365T | |
| | | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| TA1M | TXT1A | 17.6 | 21.0 | 17.6 | 21.0 | 18.5 | 22.0 | 19.3 | 22.7 | - | - | - | - | - | - | - | - |
| | TXT2A | 18.7 | 22.1 | 18.7 | 22.1 | 19.7 | 23.1 | 20.5 | 23.9 | - | - | - | - | - | - | - | - |
| TA3M | TXT3B | 20.2 | 23.6 | 20.2 | 23.6 | 21.2 | 24.6 | 22.0 | 25.3 | 23.0 | 26.3 | - | - | - | - | - | - |
| TA4M | TXT4B | - | - | 21.2 | 25.2 | 22.2 | 26.2 | 23.0 | 26.9 | 23.9 | 27.9 | 24.7 | 28.7 | - | - | - | - |
| TA5M | TXT5C | - | - | 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 | TXT6A | - | - | 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 | TXT7A | - | - | 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 |

- ♣ Made to order
- ▲ Made to order belt guards required for these motor mounts. Consult Dodge.
- ◆ Provides for V-belt adjustment
- Can be used with any ratio Torque-Arm reducer (5, 9, 15, 25)
- Necessary mounting bolts are included

Modifications and 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 | TXT8A | 15, 25 5 | 213T - 365T 254T - 365T | 18.63 | 19 | 5.25 | 4.36 | 19.4 | 23.9 | 4.25 | 11 |
| TA9 | 249401 ■ | 120 | TXT9A | 15, 26 5 | 213T - 365T 284T - 365T | 18.63 | 19 | 5.25 | 4.63 | 21.46 | 25.9 | 4.25 | 11 |
| | 249399 ♣ ▲ | 125 | | 15, 26 | 404T - 445T | | | | | 25.06 | 24 | | |
| TA10 | 250401 | 130 | TXT10A | 15, 24 | 254T - 365T | 18.63 | 19 | 6 | 3.88 | 22.6 | 27.09 | 4.25 | 11 |
| | 250404 | 200 | | | 404T - 445T | 25.06 | 24 | 6 | 3.88 | 21.86 | 27.38 | 3.81 | 18.5 |
| TA12 | 272310 | 255 | TXT12 | 15, 25 | 286T - 445T | 25.06 | 24 | 7.63 | 5.25 | 25.65 | 31.13 | 3.81 | 18.5 |
| TA13 | 272313 | 290 | TDT13 | 25 | 324T - 445T | 25.06 | 24 | 8.75 | 8.63 | 25.65 | 31.13 | 3.81 | 18.5 |
| TA14 | 272318 | 295 | TDT14 | 25 | 324T - 447T | 25.06 | 24 | 10 | 7.38 | 25.81 | 31.31 | 3.81 | 18.5 |
| TA15 | 272392 ♣ | 320 | TDT15 | 30 | 405T - 449T | 25.06 | 24 | 12.63 | 5.75 | 33.5 | 39 | 3.81 | 18.5 |

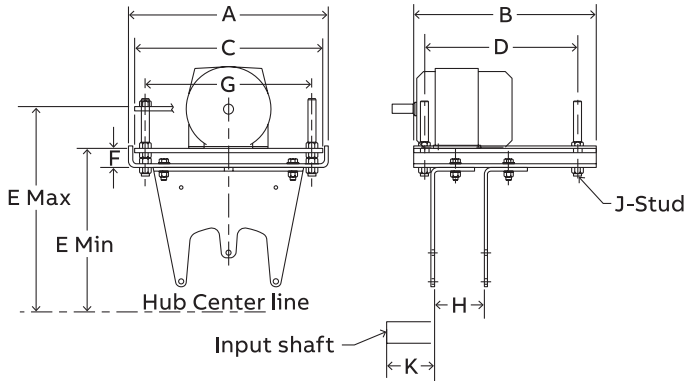
V-belt drive center distances for TA8 thru TA15 Torque-Arm motor mounts

| Motor mount no. | Reducer size | Nominal ratio | Center distances for various NEMA motor frames | | | | | | | | | | | | | |
|-----------------|--------------|---------------|--|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-------------------------|------|
| | | | 213T&215T | | 254T&256T | | 284T&286T | | 324T&326T | | 364T&365T | | 404T&405T | | 444T,445T,447T, or 449T | |
| | | | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| TA8 | TXT8A | 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 | TXT9A | 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 | TXT10A | 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 | - | - | - | - | 57.0 | 61.0 | 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 | |

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

Modifications and 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 | TXT3B | 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 | TXT4B | 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 | TXT5C | 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 | TXT6A | 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 | TXT7A | 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 | | | | | | | | | | | | | |
|-----------------|--------------|--|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|
| | | 56T | | 143T&145T | | 182T&184T | | 213T&215T | | 254T&256T | | 284T&286T | | 324T&326T | |
| | | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| TA3ML | TXT3B | 23.1 | 26.5 | 23.1 | 26.5 | 24.1 | 27.5 | 24.9 | 28.3 | - | - | - | - | - | - |
| TA4ML | TXT4B | - | - | 25.6 | 30.6 | 26.7 | 30.6 | 27.4 | 31.4 | 28.3 | 32.4 | 29.2 | 33.1 | - | - |
| TA5ML | TXT5C | - | - | 29.4 | 33.4 | 30.4 | 34.3 | 31.1 | 35.1 | 32.1 | 36.1 | 32.9 | 36.8 | - | - |
| TA6ML | TXT6A | - | - | - | - | 40.8 | 44.6 | 41.6 | 45.4 | 42.6 | 46.4 | 43.3 | 47.1 | 44.3 | 48.1 |
| TA7ML | TXT7A | - | - | - | - | 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) |
|---------|-------------|--------------------------|
| TXT1A | TA1M | 7.63 |
| TXT2A | TA1M | 8.25 |
| TXT3B | TA3M | 9.25 |
| TXT4B | TA4M | 9.44 |
| TXT5C | TA5M | 10.00 |
| TXT6A | TA6M | 11.97 |
| XT7A | TA7M | 14.38 |

Clearance dimensions ■

| Reducer | Motor mount | Clearance dimensions (1) |
|---------|-------------|--------------------------|
| TXT3B | TA3ML | 12.25 |
| TXT4B | TA4ML | 13.94 |
| TXT5C | TA5ML | 16.75 |
| TXT6A | TA6ML | 25.96 |
| TXT7A | TA7ML | 29.88 |

♣ Made to order

† Consult Dodge for Long Motor Mounts for reducers TXT8A and larger.

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

◆ Provides for V-belt adjustment

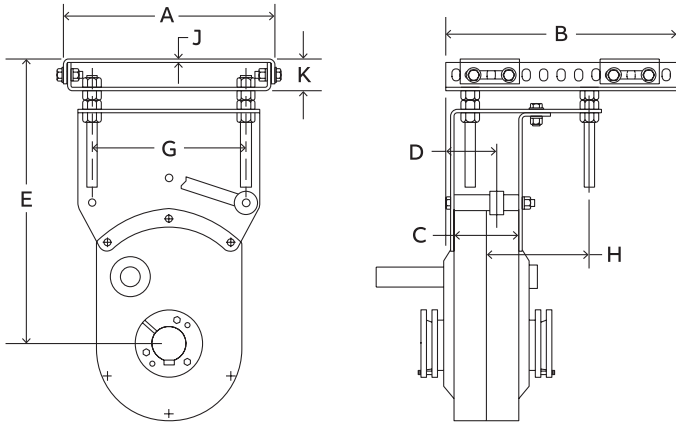
■ Can be used with any ratio Torque-Arm Reducer (5, 9, 15, 25)

● Necessary mounting bolts are included

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

Modifications and Accessories

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 ● | Wt. | Reducer size | Nominal ratio | NEMA motor frame | A | B | C | D | E ◆ | | G | H | J | K |
|-----------------|---------------|-----|--------------|---------------|----------------------------|---------|--------|-------|--------------------|----------|----------|--------|---------|-----|---------|
| | | | | | | | | | | Min | Max | | | | |
| TAB1 | 241421 ♣ | 40 | TXT1A | 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 | TXT2A | 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 | TXT3B | 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 | TXT4B | 5, 9, 15, 25 | 143T - 145T 182T - 326T | 15-1/8 | 16-1/2 | 4-5/8 | 5-13/32 3-21/32 | 20-13/32 | 25-1/32 | 11 | 5-1/32 | 1/4 | 2-3/8 |
| TAB5 | 245405 | 70 | TXT5C | 5, 9, 15, 25 | 143T - 145T 182T - 326T | 15-1/8 | 16-1/2 | 4-1/8 | 5-21/64 3-37/64 | 21-15/32 | 26-3/32 | 11 | 5-17/32 | 1/4 | 2-3/8 |
| TAB6 | 246392 | 75 | TXT6A | 5, 9, 15, 25 | 182T - 215T 254T - 326T | 15-1/8 | 16-1/2 | 4-1/2 | 5-5/32 3-13/32 | 24-1/4 | 28-13/16 | 11 | 5-17/16 | 1/4 | 2-3/8 |
| TAB7 | 247404 ♣ | 85 | TXT7A | 5, 9, 15, 25 | 182T - 215T 254T - 326T | 15-1/8 | 16-1/2 | 4-3/4 | 5-1/2 3-3/4 | 27-3/4 | 32-1/4 | 11 | 5-1/8 | 1/4 | 2-3/8 |
| TAB8 | 248406 ♣ | 90 | TXT8A | 5, 15, 25 | 213T - 256T 284T - 365T | 15-1/8 | 19 | 5-1/4 | 3-5/8 3-7/8 | 33-13/32 | 37-25/32 | 11 | 4-5/8 | 3/8 | 4-1/4 |
| TAB9 | 249404 ♣ | 95 | TXT9A | 5, 15, 26 | 213T - 256T 284T - 365T | 18-5/8 | 19 | 5-1/4 | 5-5/8 3-7/8 | 34-29/32 | 39-9/32 | 11 | 4-5/8 | 3/8 | 4-1/4 |
| TAB10 | 250411 ♣ | 105 | TXT10A | 15, 24 | 254T - 365T | 25-1/16 | 24 | 6 | 4-23/32 | 36-3/32 | 41-17/32 | 18-1/2 | 4-1/8 | 3/8 | 3-13/16 |

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 | | | | | | | | | | | | | | | |
|-----------------|--------------|---------------|--|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|
| | | | 56T | | 143T&145T | | 182T&184T | | 213T&215T | | 254T&256T | | 284T&286T | | 324T&326T | | 364T&365T | |
| | | | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| TAB1 | TXT1A | 9, 15, 25 | 14.70 | 18.40 | 14.70 | 18.40 | 15.70 | 19.40 | - | - | - | - | - | - | - | - | - | - |
| | | 5 | 14.50 | 18.20 | 14.50 | 18.20 | 16.30 | 19.20 | 17.20 | 19.90 | - | - | - | - | - | - | - | - |
| TAB2 | TXT2A | 9, 15, 25 | 14.80 | 18.50 | 14.80 | 18.50 | 15.80 | 19.50 | 16.50 | 20.20 | - | - | - | - | - | - | - | - |
| | | 5 | - | - | 14.60 | 18.20 | 15.60 | 19.20 | 16.30 | 20.00 | - | - | - | - | - | - | - | - |
| TAB3 | TXT3B | 9, 15, 25 | 18.70 | 23.30 | 18.70 | 23.30 | 19.70 | 24.30 | 20.50 | 25.10 | - | - | - | - | - | - | - | - |
| | | 5 | - | - | 19.50 | 24.10 | 20.20 | 24.80 | 21.20 | 25.80 | - | - | - | - | - | - | - | - |
| TAB4 | TXT4B | 9, 15, 25 | 19.30 | 23.90 | 19.30 | 23.90 | 20.30 | 24.90 | 21.10 | 25.70 | 22.10 | 26.60 | - | - | - | - | - | - |
| | | 5 | - | - | 20.00 | 24.70 | 20.80 | 25.40 | 21.80 | 26.40 | 22.50 | 27.20 | - | - | - | - | - | - |
| TAB5 | TXT5C | 9, 15, 25 | - | - | 19.50 | 24.10 | 20.50 | 25.10 | 21.30 | 25.90 | 22.30 | 26.90 | 23.00 | 27.60 | - | - | - | - |
| | | 5 | - | - | - | - | 20.90 | 25.50 | 21.90 | 26.50 | 22.60 | 27.20 | 23.60 | 28.20 | - | - | - | - |
| TAB6 | TXT6A | 9, 15, 25 | - | - | 21.40 | 25.90 | 22.40 | 26.90 | 23.10 | 27.60 | 24.10 | 28.60 | 24.90 | 29.40 | 25.80 | 30.40 | - | - |
| | | 5 | - | - | - | - | - | - | 23.60 | 28.20 | 24.40 | 28.90 | 25.40 | 29.90 | - | - | - | - |
| TAB7 | TXT7A | 9, 15, 25 | - | - | - | - | 24.50 | 28.90 | 25.20 | 29.70 | 26.20 | 30.60 | 26.90 | 31.40 | 27.90 | 32.40 | - | - |
| | | 5 | - | - | - | - | - | - | 25.70 | 30.20 | 26.40 | 30.90 | 27.40 | 31.90 | - | - | - | - |
| TAB8 | TXT8A | 15, 25 | - | - | - | - | - | - | 29.50 | 33.80 | 30.50 | 34.80 | 31.20 | 35.60 | 32.20 | 36.50 | 33.20 | 37.50 |
| | | 5 | - | - | - | - | - | - | - | 30.50 | 34.90 | 31.50 | 35.90 | 32.50 | 36.90 | - | - | - |
| TAB9 | TXT9A | 15, 26 | - | - | - | - | - | - | 29.90 | 34.10 | 30.80 | 35.10 | 31.60 | 35.90 | 32.50 | 36.80 | 33.50 | 37.80 |
| | | 5 | - | - | - | - | - | - | - | - | - | 31.70 | 36.10 | 32.70 | 37.10 | - | - | - |
| TAB10 | TXT10A | 15, 24 | - | - | - | - | - | - | - | - | 32.00 | 37.00 | 32.80 | 38.00 | 33.70 | 39.00 | 34.70 | 40.00 |

♣ Made to order

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

◆ Provides for V-belt adjustment

● Necessary mounting bolts are included

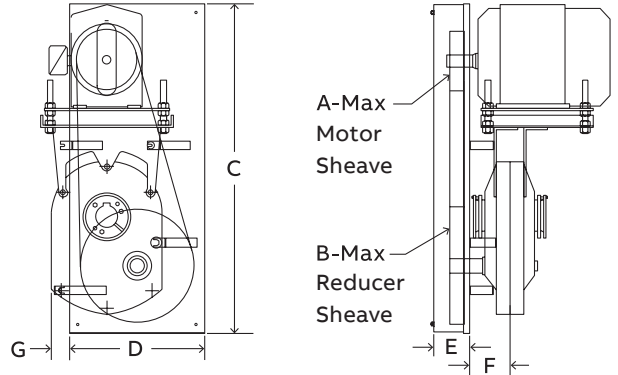
Modifications and Accessories

Torque-Arm shaft mount speed reducers
Belt guards



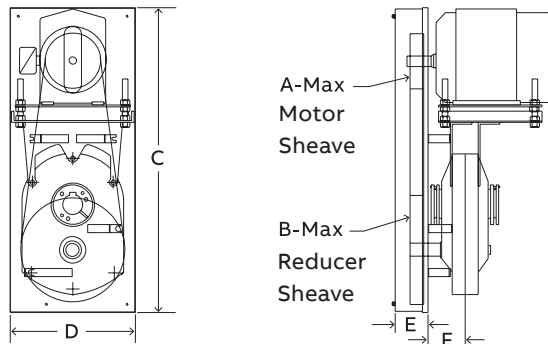
Slotted metal panel belt guard

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 | | | | | | | |
| TXT1A | TXT1D | 241395 | TA1M | 30 | 56T-215T | 17.6 | 22.7 | 5.0 | 12.0 | 32.0 | 13.0 | 3.50 | 3.63 | - |
| TXT2A | TXT2D | 242395 | TA1M | 36 | 56T-215T | 18.7 | 23.9 | 6.0 | 12.0 | 34.0 | 15.0 | 4.00 | 3.50 | - |
| TXT3B | TXT3D | 243387 ▲ | TA3M | 43 | 56T-215T | 20.2 | 25.3 | 7.0 | 14.0 | 37.0 | 17.0 | 4.00 | 3.94 | - |
| TXT4B | TXT4D | 244395 | TA4M | 54 | 143T-286T | 21.2 | 28.7 | 7.0 | 15.0 | 43.0 | 18.0 | 4.50 | 5.19 | - |
| TXT5C | TXT5D | 245387 ▲ | TA5M | 75 | 143T-286T | 22.7 | 30.2 | 7.0 | 15.0 | 45.0 | 18.0 | 4.25 | 5.13 | 0.625 |
| TXT6A | TXT6D | 246366 | TA6M | 83 | 143T-326T | 25.9 | 34.2 | 8.0 | 18.0 | 50.0 | 20.0 | 6.00 | 6.06 | 1.63 |
| TXT7A | TXT7D | 247390 | TA7M | 90 | 143T-365T | 30.6 | 40 | 10.0 | 20.0 | 56.0 | 23.0 | 6.00 | 6.88 | 0.500 |
| TXT8A | TXT8D | 248395 | TA8 | 107 | 213T-365T | 35.4 | 44.2 | 12.0 | 25.0 | 63.0 | 27.0 | 6.50 | 7.46 | 0.156 |
| TXT9A | TXT9D | 249395 ▲ | TA9 | 125 | 213T-365T | 38 | 46.7 | 12.0 | 25.0 | 66.0 | 30.0 | 9.00 | 7.63 | 2.91 |
| TXT10A | 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 | TXT15 | 241397 | TA1M | 30 | 56T-215T | 17.6 | 22.7 | 5.0 | 12.0 | 32.0 | 13.0 | 3.50 | 3.63 |
| TXT205 | TXT25 | 242397 | TA1M | 36 | 56T-215T | 18.7 | 23.9 | 6.0 | 13.0 | 34.0 | 15.0 | 4.00 | 3.50 |
| TXT305A | TXT35 | 243389 ▲ | TA3M | 43 | 56T-215T | 20.2 | 25.3 | 7.0 | 15.0 | 37.0 | 17.0 | 4.00 | 3.94 |
| TXT405A | TXT45 | 244397 | TA4M | 54 | 143T-286T | 21.2 | 28.7 | 8.0 | 16.0 | 43.0 | 18.0 | 4.50 | 5.19 |
| TXT505A | TXT55 | 245389 ▲ | TA5M | 59 | 143T-286T | 22.7 | 30.2 | 8.0 | 16.0 | 45.0 | 18.0 | 5.25 | 5.13 |
| TXT605 | TXT65 | 246368 | TA6M | 95 | 143T-326T | 25.9 | 34.2 | 10.0 | 18.0 | 50.0 | 20.0 | 6.00 | 6.06 |
| TXT705 | TXT75 | 247392 | TA7M | 112 | 143T-365T | 30.6 | 40.0 | 10.0 | 25.0 | 58.0 | 27.0 | 6.00 | 6.88 |
| TXT805 | TXT85 | 248397 | TA8 | 125 | 213T-365T | 35.1 | 43.9 | 13.0 | 30.0 | 66.0 | 32.0 | 6.50 | 7.46 |
| TXT905 | TXT95 | 249397 ▲ | TA9 | 156 | 213T-365T | 37.6 | 46.4 | 13.0 | 30.0 | 69.0 | 32.0 | 9.00 | 7.63 |

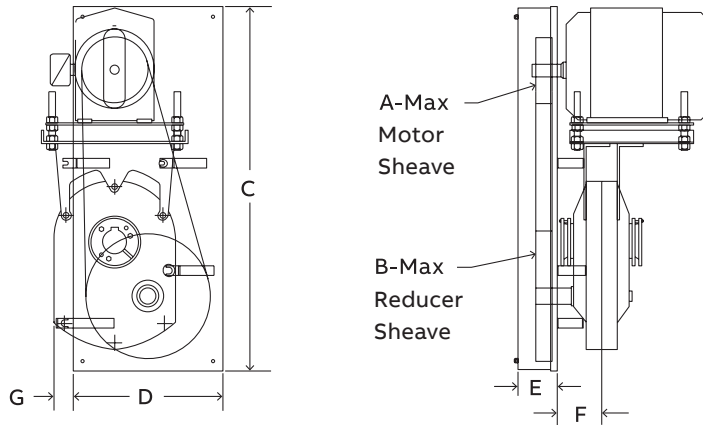
♣ Made to order

▲ These belt guards do not fit the larger frame, higher H.P. Torque-Arm motor mounts on pages G3-73 and G3-74.

■ These belt guards do not fit TAB bottom motor mounts. Consult Dodge for made-to-order belt guards for use with bottom motor mounts

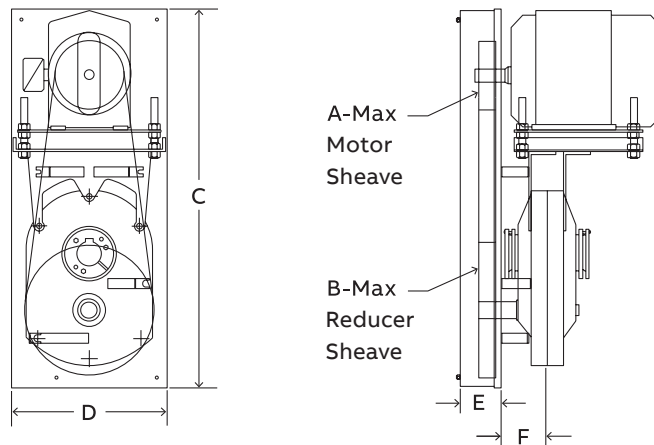
Modifications and Accessories

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 | | | | | | | |
| TXT3B | TXT3DLMM | 243153 ▲ ♣ | TA3ML | 52 | 56T-215T | 23.1 | 28.3 | 7 | 14 | 40 | 17 | 4 | 3.94 | - |
| TXT4B | TXT4DLMM | 244151 ♣ | TA4ML | 65 | 143T-286T | 25.6 | 33.1 | 7 | 15 | 47.5 | 18 | 4.5 | 5.19 | - |
| TXT5C | TXT5DLMM | 245102 ▲ ♣ | TA5ML | 90 | 143T-286T | 29.4 | 36.8 | 7 | 15 | 51.7 | 18 | 4.25 | 5.13 | 0.625 |
| TXT6A | TXT6DLMM | 246147 | TA6ML | 100 | 143T-326T | 39.8 | 48.1 | 8 | 18 | 64 | 20 | 6 | 6.06 | 1.63 |
| TXT7A | TXT7DLMM | 247152 ♣ | TA7ML | 108 | 143T-365T | 46 | 55.3 | 10 | 20 | 71.5 | 23 | 6 | 6.88 | 0.5 |



Belt guards for single reduction TXT reducers (5:1) with long motor mounts

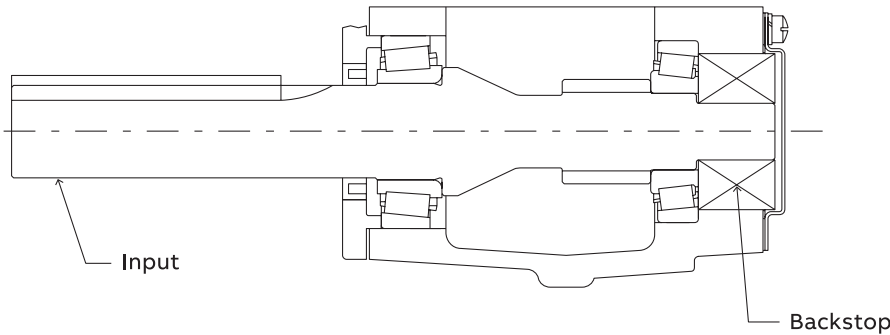
| Reducer size | Belt guard size | Part number | Motor mount no. | Wt. | NEMA motor frame | Center distance | | A | B | C | D | E | F |
|--------------|-----------------|-------------|-----------------|-----|------------------|-----------------|------|------|------|------|------|------|------|
| | | | | | | 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 |

♣ Made to order

▲ These belt guards do not fit the larger frame, higher Hp Torque-Arm motor mounts on pages G3-73 and G3-74.

Modifications and Accessories

Torque-Arm shaft mount speed reducers
Backstops



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. Not for use with lubricants containing EP additives.

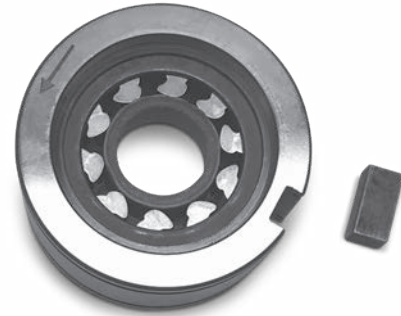
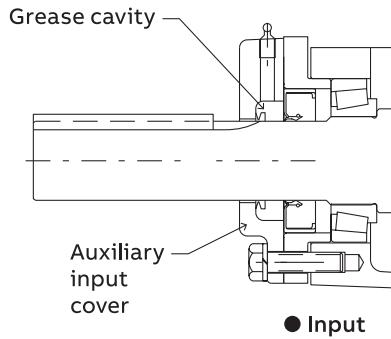
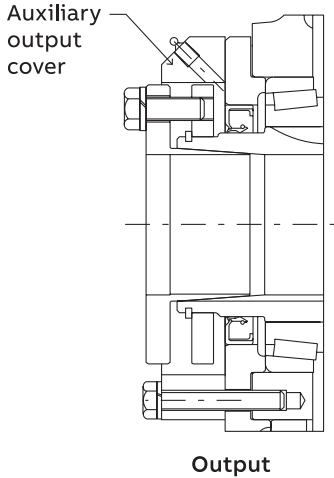
Backstop assemblies ■

| Reducer size | Nominal ratio | Part number | Weight |
|--------------|---------------|-------------|--------|
| TXT1A | 5, 9, 15, 25 | 242101 | 0.6 |
| TXT2A | 5, 9, 15, 25 | 252101 | 1.0 |
| TXT3B | 9, 15, 25 | 243106 | 0.6 |
| TXT3A | 5 | 252101 | 1.0 |
| TXT4B | 9, 15, 25 | 244106 | 1.2 |
| TXT4A | 5 | 244148 | 0.9 |
| TXT5C | 9, 15, 25 | 245154 | 2.2 |
| TXT5A | 5 | 246101 | 1.8 |
| TXT6 A | 5, 9, 15, 25 | 246092 | 2.5 |
| TXT7A | 5, 9, 15, 25 | 247260 | 2.8 |
| TXT8A | 15, 25 | 249260 | 3.8 |
| TXT8 | 5 | 250260 | 5.6 |
| TXT9A | 15, 26 | 249260 | 3.8 |
| TXT9 | 5 | 272259 | 6.7 |
| TXT10A | 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 pages G3-184 and G3-185 for complete listing of Backstop assemblies for all generations of Dodge TXT Torque-Arm reducers.

Modifications and Accessories

Torque-Arm shaft mount speed reducers Auxiliary seal kits



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.

Auxiliary seal kits ★ ■ ●

| Reducer size | Nominal ratio | Part number | Reducer size | Nominal ratio | Part number |
|--------------|---------------|-------------|--------------|---------------|-------------|
| TXT1A | 9, 15, 25 | 272515 | TXT6A | 5, 9, 15, 25 | 272450 |
| TXT1 | 5 | 272521 | TXT7A | 5, 9, 15, 25 | 272451 |
| TXT2A | 9, 15, 25 | 272446 | TXT8A | 5, 15, 25 | 272452 |
| TXT2 | 5 | 272459 | TXT9A | 5, 15, 26 | 272453 |
| TXT3B | 9, 15, 25 | 243577 | TXT10A | 15, 24 | 272454 |
| TXT3A | 5 | 253186 | TXT12 | 15, 25 | 272455 |
| TXT4B | 9, 15, 25 | 244676 | TDT13 | 25 | 272456 |
| TXT4A | 5 | 254267 | TDT14 | 25 | 272457 ♣ |
| TXT5C | 9, 15, 25 | 245635 | TDT15 | 30 | 272458 ♣ |
| TXT5A | 5 | 255230 | | | |

- ♣ Made to order
- See pages G3-171 and G3-172 for dimensions to drill and tap reducer housing for mounting of auxiliary seal kit. Dodge will install upon request.
- Input auxiliary seal can not be used on same input shaft with a cooling fan
- ★ For taper bushed reducers only

Modifications and Accessories

Torque-Arm shaft mount speed reducers Cooling fan assemblies

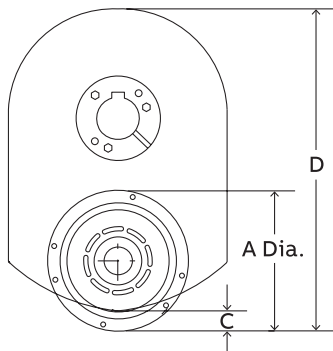
When the thermal capacity of a Torque-Arm reducer is exceeded, cooling fans provide an optional, inexpensive way of lowering the oil temperature, thus increasing the thermal horsepower capacity of the reducer. Selection tables indicate when a cooling fan is required.

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 originally designed for the reducer.

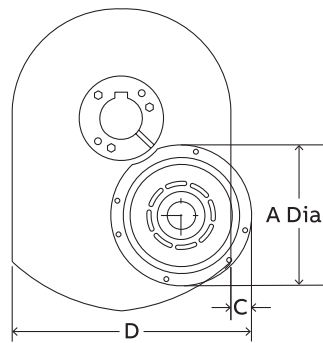
The fan housing is attached to the outer edges of the straps, which are spaced to allow free circulation of air at the back of the housing as well as through the front of the unit. The fan blade offers a radial streamline air flow which means smaller fans yet a more efficient movement of air.

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

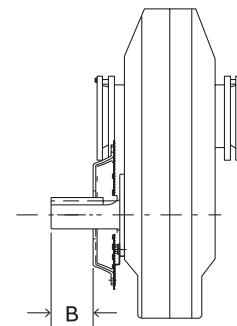
: See page G3-173 for maximum input shaft speeds



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 |
|-------------------|-----------------|-------------|----------------|------|-------|------|------|-------|
| TXT3B, SCXT3B | TXT3A | 243581 | 9, 15, 25 | 3.0 | 4.88 | 2.13 | 0.15 | 9.38 |
| TXT305A, SCXT305A | TXT305A | 253188 | 5 | 3.0 | 3.94 | 1.88 | - | - |
| TXT4B, SCXT4B | TDT4 | 272594 | 9, 15, 25 | 3.0 | 5.88 | 2.94 | 0.50 | 10.88 |
| TXT405A, SCXT405A | TXT405A | 254268 | 5 | 3.0 | 4.68 | 2.94 | - | - |
| TXT5C, SCXT5C | TDT5 | 272369 | 9, 15, 25 | 3.0 | 7.08 | 3.44 | - | - |
| TXT505A, SCXT505A | TXT505A | 255231 | 5 | 3.0 | 5.75 | 3.44 | - | - |
| TXT6A, SCXT6A | 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 | - | - |
| TXT7A, SCXT7A | 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 | - | - |
| TXT8A | TDT8 | 272327 | 15, 25 | 9.0 | 12.75 | 4.18 | 2.38 | 22.63 |
| TXT805 | TDT8 | 272327 | 5 | 9.0 | 12.75 | 4.25 | - | - |
| TXT9A | TDT9 | 272328 | 15, 26 | 15.0 | 16.75 | 6.31 | 3.75 | 26.38 |
| TXT905 | T19 | 272324 ♣ | 5 | 15.0 | 12.75 | 7.44 | - | - |
| TXT10A | 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 exchange motor are as follows:

1/2 Hp, 60 Hz, 3 Ph, 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

273933 ♣

♣ Made to order

